

**FINAL REPORT FOR WATER SAMPLES RECEIVED IN  
DECEMBER, 2013 - SAF No. I14-005**

**Document No.: 20131338 Rev. 0  
SDG: 222S20131338**

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**Date Published**  
December 31, 2013

Prepared for:

Prepared by:



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C.E. Menjivar, ATL Project Coordinator

## 222-S LABORATORY

### FINAL REPORT FOR WATER SAMPLES RECEIVED IN DECEMBER, 2013 SAF No. I14-005

#### 1.0 INTRODUCTION

This final report presents the results for five water samples taken on December 3, 2013. The samples were analyzed in accordance with Sampling Authorization Form I14-005; *100KR4, November 2013*, and ATL-MP-1011; *ATL Quality Assurance Project Plan for 222-S Laboratory (QAPP)*. The following attachments are included in this report.

Attachment 1	Data Summary Report
Attachment 2	Quality Control Sample
Attachment 3	Holding Time Report
Attachment 4	Receipt Paperwork

#### 2.0 SAMPLE RECEIPT AND HANDLING

The samples were received on December 3, 2013, with adequate paperwork. The measured temperature at receipt was  $-0.2^{\circ}\text{C}$ .

#### 3.0 ANALYTICAL RESULTS SUMMARY

The Data Summary Report (Attachment 1) presents the final analytical results. The “Det Limit” column in Attachment 1 contains the method detection limit (MDL).

In Attachment 1, the column labeled “A#” indicates the aliquot class or the method used for sample preparation before analysis. For analysis without a preparation step, this column is left blank.

The “Qual Flags” column in Attachments 1 and 2 contain data qualifier flags that are defined as follows:

- “U” indicates that the reported result is less than the MDL
- “B” indicates that the reported result is greater than the MDL, but lower than the estimated quantitation limit (EQL).
- “C” indicates that the analyte was detected in both the sample and the associated quality control (QC) blank, and the sample concentration was less than five times the blank concentration.

Manual calculations using rounded results from the Data Summary Report or result calculation forms may differ slightly from the actual results derived from the raw data.

### 3.1 ANALYSES

#### 3.1.1 Hexavalent Chromium by Spectrophotometric Determination

The hexavalent chromium analysis was performed on direct aliquots of the samples. Two samples from this sample delivery group were analyzed for hexavalent chromium in analytical batch # 44674. All the requirements in the SAF and QAPP were met.

#### 3.1.2 Anions by Ion Chromatography

The ion chromatography analysis for anions was performed on direct aliquots of the samples. Three samples from this sample delivery group were analyzed for Anions in analytical batch #44695. Sample B2RX38 (S13M000177) was used as quality control sample (see Attachment 2). All requirements in the SAF and the QAPP were met.

### 4.0 PROCEDURES

Table 1 lists the analytical procedures used for analysis of the samples.

**Table 1. Analytical Procedures.**

Analysis	Preparation Method	Analysis Procedure
Hexavalent Chromium Analysis by Spectrophotometric Determination	N/A	LA-265-101 Rev. H-0 SW-846 7196A
Anions By Ion Chromatography	N/A	LA-533-166 Rev. B-1-A SW-846 9056A

### 5.0 REFERENCES

ATL-MP-1011, 2013, *ATL Quality Assurance Project Plan for 222-S Laboratory*, Rev. 12-B, Advanced Technologies and Laboratories International, Inc., Richland, Washington.

Sampling Authorization Form I14-005; *100KR4*, November 2013, CH2M Hill, Plateau Remediation Company, Richland, Washington

SW-846, 1986, *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*, Third Edition, as amended, U.S. Environmental Protection Agency, Washington, D.C.

Attachment 1

DATA SUMMARY REPORT

**DATA SUMMARY REPORT FOR SAMPLE DELIVERY GROUP 20131338**

Customer Sample ID	Laboratory Sample ID	A	CAS #	Analyte	Result Unit	Standard % Recovery	Blank	Result	Duplicate	RPD	Matrix Spike % Recovery	Det Limit	Qual Flags
B2RTC0	S13M000173		16984-48-8	Fluoride	ug/mL	97.3	<3.00E-03	0.130	n/a	n/a	n/a	0.0150	B
B2RTC0	S13M000173		16887-00-6	Chloride	ug/mL	99.6	<9.00E-03	1.44	n/a	n/a	n/a	0.0450	
B2RTC0	S13M000173		14797-65-0	Nitrite	ug/mL	96.6	<0.0160	<0.0800	n/a	n/a	n/a	0.0800	U
B2RTC0	S13M000173		14808-79-8	Sulfate	ug/mL	100	0.0630	11.4	n/a	n/a	n/a	0.0650	
B2RTC0	S13M000173		14797-55-8	Nitrate	ug/mL	99.4	<9.00E-03	0.902	n/a	n/a	n/a	0.0450	B
B2RTC1	S13M000172		18540-29-9	Hexavalent Chromium	ug/mL	106	0.0207	<9.68E-03	n/a	n/a	n/a	9.68E-03	U
B2RVM1	S13M000175		16984-48-8	Fluoride	ug/mL	97.3	<3.00E-03	0.110	n/a	n/a	n/a	0.0150	B
B2RVM1	S13M000175		16887-00-6	Chloride	ug/mL	99.6	<9.00E-03	16.2	n/a	n/a	n/a	0.0450	
B2RVM1	S13M000175		14797-65-0	Nitrite	ug/mL	96.6	<0.0160	<0.0800	n/a	n/a	n/a	0.0800	U
B2RVM1	S13M000175		14808-79-8	Sulfate	ug/mL	100	0.0630	41.2	n/a	n/a	n/a	0.0650	
B2RVM1	S13M000175		14797-55-8	Nitrate	ug/mL	99.4	<9.00E-03	10.7	n/a	n/a	n/a	0.0450	
B2RVP6	S13M000174		16984-48-8	Fluoride	ug/mL	97.3	<3.00E-03	0.102	n/a	n/a	n/a	0.0150	B
B2RVP6	S13M000174		16887-00-6	Chloride	ug/mL	99.6	<9.00E-03	14.5	n/a	n/a	n/a	0.0450	
B2RVP6	S13M000174		14797-65-0	Nitrite	ug/mL	96.6	<0.0160	<0.0800	n/a	n/a	n/a	0.0800	U
B2RVP6	S13M000174		14808-79-8	Sulfate	ug/mL	100	0.0630	55.7	n/a	n/a	n/a	0.0650	
B2RVP6	S13M000174		14797-55-8	Nitrate	ug/mL	99.4	<9.00E-03	23.6	n/a	n/a	n/a	0.0450	
B2RVP7	S13M000171		18540-29-9	Hexavalent Chromium	ug/mL	106	0.0207	0.0812	0.0836	2.89	102	9.68E-03	C

Attachment 2

QUALITY CONTROL SAMPLE

20131338 Rev. 0  
**DECEMBER 31, 2013**

17-dec-2013 14:33:30

DSR.Jar v. 2.7.31

WSCF Diversion FY14

Data Summary Report

SDG Number	Customer Sample ID	Laboratory Sample ID	A	CAS #	Analyte	Result Unit	Standard % Recovery	Blank	Result	Duplicate	RPD	Matrix Spike % Recovery	Det Limit	Qual Flags
222S20131339	B2RX38	S13M000177		16984-48-8	Fluoride	ug/mL	93.9	<3.00E-03	0.110	0.109	0.913	95.2	3.00E-03	
222S20131339	B2RX38	S13M000177		16887-00-6	Chloride	ug/mL	96.3	<9.00E-03	1.92	1.90	0.732	96.1	9.00E-03	
222S20131339	B2RX38	S13M000177		14797-65-0	Nitrite	ug/mL	102	<0.0160	<0.0160	<0.0160	n/a	90.0	0.0160	U
222S20131339	B2RX38	S13M000177		14808-79-8	Sulfate	ug/mL	99.1	0.0660	17.9	17.8	0.645	92.6	0.0130	
222S20131339	B2RX38	S13M000177		14797-55-8	Nitrate	ug/mL	98.6	<9.00E-03	2.62	2.63	0.458	90.7	9.00E-03	

NA = Not Analyzed, ND = Not Detected

U - < Det Limit

B - Estimated

Attachment 3

HOLDING TIME REPORT

Ordered by Holding Time

All Hold Times - Status: Not Mailed

Holding Time	Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time	Hold Time Days/Hr Remaining
12/04/13 09:38	20131338	S13M000171	LIQUID	CHROMIUM VI		12/03/13 09:38	12/03/13 13:55	N/A	12/04/13 08:05	N - A	1h
12/04/13 11:23	20131338	S13M000172	LIQUID	CHROMIUM VI		12/03/13 11:23	12/03/13 13:55	N/A	12/04/13 08:05	N - A	3h
12/05/13 09:38	20131338	S13M000174	LIQUID	IC - ANIONS/SMALL ORG. ACIDS		12/03/13 09:38	12/03/13 13:55	N/A	12/04/13 20:35	N - A	13h
12/05/13 11:23	20131338	S13M000173	LIQUID	IC - ANIONS/SMALL ORG. ACIDS		12/03/13 11:23	12/03/13 13:55	N/A	12/04/13 20:02	N - A	15h
12/05/13 13:09	20131338	S13M000175	LIQUID	IC - ANIONS/SMALL ORG. ACIDS		12/03/13 13:09	12/03/13 14:30	N/A	12/04/13 21:09	N - A	16h

Attachment 4

RECEIPT PAPERWORK

<b>222-S</b>	<b>SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST</b>	ATS-LO-090-101 Rev <u>06.0</u>
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Date Samples Received: 12-3-2013 Group #: 20131338  
 Number of Samples: 2 → 5 CEM 12/4/13  
 Sample Custodian: [Signature]

**Sample Custodian to Complete:**

Action	Yes	No	N/A	Comments
RSA/COC provided?	✓			
RSR provided?		✓		
Verify GKI is complete		✓		<input checked="" type="checkbox"/> In Project File
Received from an alpha facility?		✓		<input type="checkbox"/> Contact PC for approval to release
Check that outer custody seal is intact, if present	✓			
Record cooler temperature in centigrade, as appropriate			00/-0.2	<input type="checkbox"/> Check if no cooler and/or no ice
Samples are intact and in good condition	✓			If No, provide comments below
Verify that COC or RSA is accurate and complete, containing the following information:				
• Client name and client sample number	✓			
• Date and time of sampling	✓			
• Sampling location or origin	✓			
• Container type, size, and number	✓			
• Preservatives (if used) are noted on the COC/RSA and sample bottle		✓		
• Analysis request is clear	✓			
• Signature of persons relinquishing and receiving samples	✓			
• Date and/or time of sample custody exchange	✓			
Verify that sample numbers on containers match the COC and/or RSA	✓			
Samples stored properly (e.g., refrigeration)	✓			

Notify the PC immediately if any problems are noted. Any "No" checked boxes require PC resolution. For WRPS samples, the initials block below is completed by the responsible WRPS PC.

Samples acceptable for release? Yes PC/SC Initials [Signature] Date 12-3-2013  
 If No, comment on communication and resolution:

Other Comments:

CH2M Hill Plateau Remediation Company

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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

I14-005-343

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Collector	SCOTT KING	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	I14-005	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	100KR4, NOVEMBER 2013	Logbook No.	HNF-N-506 <u>01134</u>	Ice Chest No.	N/A
Shipped To (Lab)	<del>Waste Sampling &amp; Characterization</del>	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA <u>222-5 ks 12/3/13</u>	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 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS

100 Area Generator Knowledge Information Form applies. The CACN for analytical work at WSCF is 401647. FY13 & FY14 SAFs cannot be in the same SDG.

Hold Time

Total Activity Exemption: Yes  No

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2RVP7	✓	N	DEC 03 2013	0938	✓	1x500-mL aG 7196_CR6: COMMON	24 Hours	Cool-4C

Group # 2013 1338  
 Sample # S13M000 172 SW  
 12/3/13

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	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
SCOTT KING			DEC 03 2013 1330	Sharon L. Uldes			DEC 03 2013 1330	
Relinquished By			Date/Time	Received By			Date/Time	
			12/3/13 1355	Sharon L. Uldes			12-3-13 1355	
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	

<b>CH2MHill Plateau Remediation Company</b>	<b>DECEMBER 31, 2013</b> <b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>	C.O.C. # <b>114-005-163</b>
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Collector <i>SCOTT KING</i>	Contact/Requester Karen Waters-Husted	Telephone No. 509-376-4650
SAF No. 114-005	Sampling Origin Hanford Site	Purchase Order/Charge Code 300071ES20
Project Title 100KR4, NOVEMBER 2013	Logbook No. HNF-N-506 <i>101 134</i>	Ice Chest No. N/A
Shipped To (Lab) <u>Waste Sampling &amp; Characterization</u>	Method of Shipment GOVERNMENT VEHICLE	Bill of Lading/Air Bill No. N/A
Protocol CERCLA <i>222-5 2s 12/3/13</i>	Priority: <b>31 Days PRIORITY</b>	Offsite Property No. N/A

<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b> *** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)	<b>SPECIAL INSTRUCTIONS</b> Hold Time      Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 100 Area Generator Knowledge Information Form applies. The CACN for analytical work at WSCF is 401647. FY13 & FY14 SAFs cannot be in the same SDG.
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Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2RTC1	✓	N	<i>DEC 03 2013</i>	<i>1123</i>	✓	1x500-mL aG 7196_CR6: COMMON	24 Hours	Cool-4C

*Group # 20131338 ✓  
Sample # S13M000172 ✓*

Relinquished By <i>SCOTT KING</i> <i>Scott King</i>	Print	Sign	Date/Time <i>DEC 03 2013 1330</i>	Received By <i>REllingsworth</i> <i>RJ</i>	Print	Sign	Date/Time <i>DEC 03 2013 1330</i>	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 <i>REllingsworth</i> <i>RJ</i>			Date/Time <i>12/3/13 1355</i>	Received By <i>Sharon Wade</i> <i>Sharon Wade</i>			Date/Time <i>12/3/13 1355</i>		
Relinquished By			Date/Time	Received By			Date/Time		
Relinquished By			Date/Time	Received By			Date/Time		
<b>FINAL SAMPLE DISPOSITION</b>				Disposal Method (e.g., Return to customer, per lab procedure, used in process)				Disposed By	Date/Time

<b>CH2MHill Plateau Remediation Company</b>	<b>DECEMBER 31, 2013</b> <b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>	C.O.C. # <b>I14-005-162</b>
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Collector <b>SCOTT KING</b>	Contact/Requester <b>Karen Waters-Husted</b>	Telephone No. <b>509-376-4650</b>
SAF No. <b>I14-005</b>	Sampling Origin <b>Hanford Site</b>	Purchase Order/Charge Code <b>300071ES20</b>
Project Title <b>100KR4, NOVEMBER 2013</b>	Logbook No. <b>HNF-N-50601 / 34</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>CERCLA 222-S KS 12/3/13</b>	Priority: <b>31 Days PRIORITY</b>	Offsite Property No. <b>N/A</b>

<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b> *** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)	<b>SPECIAL INSTRUCTIONS</b> <b>Hold Time</b> <b>Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></b> 100 Area Generator Knowledge Information Form applies. The CACN for analytical work at WSCF is 401647. FY13 & FY14 SAFs cannot be in the same SDG.
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Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative	
B2RTC0	/	N	W	DEC 03 2013	1123	1x500-mL P	300.0_ANIONS_IC: COMMON	48 Hours	Cool-4C

Group I 20131338  
 Sample # 513M000173 ✓

Relinquished By <b>SCOTT KING</b> Print      Sign <i>Scott King</i> Date/Time <b>DEC 03 2013 1330</b>	Received By <b>R Ellingsworth</b> Print      Sign <i>R Ellingsworth</i> Date/Time <b>DEC 03 2013 1330</b>	<b>Matrix *</b> 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 <b>R Ellingsworth</b> Date/Time <b>12/3/13 1355</b>	Received By <b>Sharon Holden</b> Date/Time <b>12/3/13 1355</b>	
Relinquished By _____      Date/Time _____	Received By _____      Date/Time _____	
<b>FINAL SAMPLE DISPOSITION</b>	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By _____      Date/Time _____

**DECEMBER 31, 2013**

**CH2MHill Plateau Remediation Company**

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

C.O.C. #

**I14-005-342**

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Collector	SCOTT KING	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	I14-005	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	100KR4, NOVEMBER 2013	Logbook No.	HNF-N-506 <i>601134</i>	Ice Chest No.	N/A
Shipped To (Lab)	<del>Waste Sampling &amp; Characterization</del>	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA <i>222-S KS 12/3/13</i>	Priority:	<b>31 Days PRIORITY</b>	Offsite Property No.	N/A

**POSSIBLE SAMPLE HAZARDS/REMARKS**

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

**SPECIAL INSTRUCTIONS**

100 Area Generator Knowledge Information Form applies.  
The CACN for analytical work at WSCF is 401647.  
FY13 & FY14 SAFs cannot be in the same SDG.

**Hold Time**

Total Activity Exemption: Yes  No

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative	
B2RVP6	✓	N	<i>DEC 03 2013</i>	<i>0938</i>	✓	1x500-mL P	300.0_ANIONS_IC: COMMON	48 Hours	Cool-4C

*Group # 20131338 ✓  
Sample # S13m000174 ✓*

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	<b>Matrix *</b> 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
SCOTT KING	<i>Scott King</i>		<i>DEC 03 2013 1350</i>	<i>Fulton</i>	<i>[Signature]</i>		<i>DEC 03 2013 1350</i>	
Relinquished By			Date/Time	Received By			Date/Time	
<i>Fulton</i>			<i>12/3/13 1355</i>	<i>Sharon Holden</i>	<i>[Signature]</i>		<i>12/13/13 1355</i>	
Relinquished By			Date/Time	Received By			Date/Time	
<b>FINAL SAMPLE DISPOSITION</b>	Disposal Method (e.g., Return to customer, per lab procedure, used in process)			Disposed By			Date/Time	

CH2MHill Plateau Remediation Company

**DECEMBER 31, 2013**  
**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

C.O.C. #  
**I14-005-333**

Page 1 of 1

Collector SCOTT KING	Contact/Requester Karen Waters-Husted	Telephone No. 509-376-4650
SAF No. I14-005	Sampling Origin Hanford Site	Purchase Order/Charge Code 300071ES20
Project Title 100KR4, NOVEMBER 2013	Logbook No. HNF-N-50661 / 34	Ice Chest No. N/A
Shipped To (Lab) <u>Waste Sampling &amp; Characterization</u>	Method of Shipment GOVERNMENT VEHICLE	Bill of Lading/Air Bill No. N/A
Protocol CERCLA <i>202<sup>nd</sup> SK-12-313</i>	Priority: <b>31 Days PRIORITY</b>	Offsite Property No. N/A

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

**SPECIAL INSTRUCTIONS** Hold Time Total Activity Exemption: Yes  No   
100 Area Generator Knowledge Information Form applies.  
The CACN for analytical work at WSCF is 401647.  
FY13 & FY14 SAFs cannot be in the same SDG.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2RVM1 ✓	N	W	DEC 03 2013	1309	1x500-mL P	300.0_ANIONS_IC: COMMON	48 Hours	Cool-4C

*Group # 20131338 ✓  
Sample # S13M000175 ✓*

Relinquished By SCOTT KING <i>Scott King</i>	Date/Time DEC 03 2013	Received By Sharon L Holder <i>Sharon L Holder</i>	Date/Time DEC 03 2013	Matrix *
Relinquished By	Date/Time	Received By	Date/Time	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	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	Date/Time	
<b>FINAL SAMPLE DISPOSITION</b>	Disposal Method (e.g., Return to customer, per lab procedure, used in process)		Disposed By	Date/Time

**GENERATOR KNOWLEDGE INFORMATION**

1. Chain of Custody Number NA CACN/COA NA Customer Identification Number NA

2. List generator knowledge or description of process that produced sample. Or list description of sample source:  
100 Area S&GRP Characterization and Monitoring Sampling and Analysis

MSDS Available?  No  Yes Hanford MSDS No. \_\_\_\_\_

3. List all waste codes and constituents associated with the waste or media that was sampled, regardless of CERCLA status.

a) Does the sample contain any of the following listed waste codes?

**By checking "unknown" the customer understands that no knowledge is available following a careful search.**

List Federal Waste Code(s):

List Constituent(s):

P Codes: _____	_____	<input type="radio"/> Yes	<input checked="" type="radio"/> No	<input type="radio"/> Unknown
U Codes: _____	_____	<input type="radio"/> Yes	<input checked="" type="radio"/> No	<input type="radio"/> Unknown
K Codes: _____	_____	<input type="radio"/> Yes	<input checked="" type="radio"/> No	<input type="radio"/> Unknown
F Codes: _____	_____	<input type="radio"/> Yes	<input checked="" type="radio"/> No	<input type="radio"/> Unknown

b) List applicable characteristic waste codes, flash point, pH, constituents, and concentrations as appropriate.

D001: <input type="checkbox"/> FP <100°F	<input type="checkbox"/> FP ≥100 <140°F	<input type="checkbox"/> DOT Oxidizer	<input type="radio"/> Yes	<input checked="" type="radio"/> No	<input type="radio"/> Unknown	
D002: <input type="checkbox"/> pH ≤2	<input type="checkbox"/> pH ≥12.5	<input type="checkbox"/> Solid Corrosive (WSC2)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	<input type="radio"/> Unknown	
D003: <input type="checkbox"/> Cyanide	<input type="checkbox"/> Sulfide	<input type="checkbox"/> Water Reactive	<input type="checkbox"/> Other _____	<input type="radio"/> Yes	<input checked="" type="radio"/> No	<input type="radio"/> Unknown
D004-D043 (Identify applicable waste codes and concentrations):			(i.e., peroxide former, explosive, air reactive)			
			<input type="radio"/> Yes	<input checked="" type="radio"/> No	<input type="radio"/> Unknown	

N/A

c) If characteristic, list any known underlying hazardous constituents (UHCs) reasonably expected to be present, and their concentrations that may be present above the LDR treatment standard (40 CFR 268.48):

N/A

d) List any known Land Disposal Restrictions (LDR) subcategories, if applicable (40 CFR 268.40):

N/A

e) List any applicable Washington State dangerous waste codes: (not required if federally regulated)

(\*State mixture rule for ignitability)

WT01: <input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Unknown	WP01: <input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Unknown
WT02: <input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Unknown	WP02: <input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Unknown
W001: <input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Unknown	WP03: <input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Unknown
List constituents and concentrations:	F003*: <input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Unknown

N/A

4. Is this material TSCA regulated for PCBs?  Yes  No  Unknown  Analysis Requested

List concentration if applicable: \_\_\_\_\_

If yes, what is the source of the PCBs? (see TSCA PCB Hanford Site User Guide, DOE/RL-2001-50)

<input type="checkbox"/> PCB Liquid Waste	<input type="checkbox"/> PCB Bulk Product Waste	<input type="checkbox"/> PCB Transformer ≥500 ppm	<input type="checkbox"/> Unknown
<input type="checkbox"/> PCB Remediation Waste	<input type="checkbox"/> PCB R&D Waste	<input type="checkbox"/> PCB contaminated electrical equipment (capacitor/ballast) <500 ppm	
<input type="checkbox"/> PCB Spill Material	<input type="checkbox"/> PCB Item	<input type="checkbox"/> Other PCB Waste (list) _____	

5. Is this material TRU?  Yes  No  Unknown

**6. ACCURACY OF INFORMATION**

Based on my inquiry of those individuals immediately responsible for obtaining this information, that to the best of my knowledge, the information entered in this document is true, accurate, and complete.

Print & Sign SJ TRENT / AJ JTA Date 12/3/07