

Analytical Data Package Prepared For  
**CH2M Hill Plateau Remediation**

Chemical Analysis By  
**TestAmerica Inc**

2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.

Assigned Laboratory Code: TARL

Data Package Contains 36 Pages

Report No.: 65930

Results in this report relate only to the sample(s) analyzed.

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
WC0050	S15-004	B30N19 DUP	J5D100418-3	M6KNX1AD	M6KNX1AD	5100066
WC0051	X15-026	B30MD9	J5D130422-1	M6K0H1AA	M6K0H1AA	5104026
		B30MD9 DUP	J5D130422-1	M6K0H1AD	M6K0H1AD	5104026
		B30MF1	J5D130422-4	M6K0L1AA	M6K0L1AA	5103033
		B30MF5	J5D130422-3	M6K0K1AA	M6K0K1AA	5103033
		B30MF7-A	J5D100417-1	M6KNT1AA	M6KNT1AA	5100065
		B30MF7-A DUP	J5D100417-1	M6KNT1AF	M6KNT1AF	5100065
		B30MF9	J5D100416-2	M6KNP1AA	M6KNP1AA	5100069
		B30MH1	J5D100416-1	M6KNM1AA	M6KNM1AA	5100069
		B30MH4	J5D100416-3	M6KNQ1AA	M6KNQ1AA	5100069
		B30MH6	J5D100416-4	M6KNR1AA	M6KNR1AA	5100069
		B30MJ1	J5D130422-2	M6K0J1AA	M6K0J1AA	5104026
		B30MJ3	J5D130422-5	M6K0M1AA	M6K0M1AA	5103033
		B30MJ7	J5D130422-6	M6K0N1AA	M6K0N1AA	5103033
		B30MJ9-A	J5D100424-1	M6KQW1AA	M6KQW1AA	5100068
		B30MJ9-A DUP	J5D100424-1	M6KQW1AE	M6KQW1AE	5100068
		B30MK1	J5D100420-2	M6KN51AA	M6KN51AA	5100069
		B30MK3	J5D100420-1	M6KN41AA	M6KN41AA	5100069
		B30MK6	J5D100420-9	M6KPD1AA	M6KPD1AA	5100066
		B30MK7	J5D100420-4	M6KN71AA	M6KN71AA	5100069
		B30MK9	J5D100420-3	M6KN61AA	M6KN61AA	5100069
		B30ML3	J5D100420-5	M6KN81AA	M6KN81AA	5100069
		B30ML5	J5D100420-6	M6KN91AA	M6KN91AA	5100069
		B30ML8	J5D100420-10	M6KPE1AA	M6KPE1AA	5100066
	X15-026	B30ML9	J5D100420-7	M6KPA1AA	M6KPA1AA	5100069
		B30MM1	J5D100420-8	M6KPC1AA	M6KPC1AA	5100069

Report No.: 65930

Results in this report relate only to the sample(s) analyzed.

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
WC0051	X15-026	B30MM1 DUP	J5D100420-8	M6KPC1AC	M6KPC1AC	5100069
		B30MM3	J5D100420-11	M6KPF1AA	M6KPF1AA	5100066
		B30MM9-A	J5D130426-1	M6K1A1AA	M6K1A1AA	5104025
		B30MM9-A DUP	J5D130426-1	M6K1A1AE	M6K1A1AE	5104025
		B30MN1	J5D130422-7	M6K0P1AA	M6K0P1AA	5103033
		B30MN3	J5D130422-8	M6K0Q1AA	M6K0Q1AA	5103033
WC0055		B30MJ6 DUP	J5D130425-4	M6K061AC	M6K061AC	5103033

Sample Date: 4/10/2015

Receipt Date: 4/10/2015

Data Deliverable: 5/28/2015

I certify that this Certificate of Analysis 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 hard copy data package has been authorized by the Laboratory Manager, or a designee as verified by the following signature.

Reviewed and Approved:

Digitally signed by Sarah Nagel  
DN: cn=Sarah Nagel, o=TA Richland,  
ou=QA,  
email=sarah.nagel@testamericainc.co  
, c=US  
Date: 2015.09.03 15:46:10 -07'00'

For Project Manager - W. Ritari

September 3, 2015

Rev 1



## Certificate of Analysis

CH2M Hill Plateau Remediation Company  
 P.O. Box 1600  
 Mail Stop – R3-60  
 Richland, WA 99352

September 3, 2015

May 28, 2015

Attention: Scot Fitzgerald

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SAF Number	:	X15-026
Date SDG Closed	:	April 24, 2015
Number of Samples	:	Twenty six (26)
Sample Type	:	Water
SDG Number	:	WC0051
Data Deliverable	:	30- Day/ Summary

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### CASE NARRATIVE

*September 3, 2015, This report has been amended in response to P&D generated on 6/02/2015. Samples B30MF7, B30MJ9 and B30MM9 requested both radiochemistry and ion chromatography test methods. For the ion chromatography results an "A" was appended to the sample number. Data is not changed in this amended report. All amended information in this case narrative will be bold, underlined and italicized.*

#### **I. Introduction**

Between April 10, 2015 and April 13, 2015, twenty six samples were received at TestAmerica (TARL). Upon receipt, the samples were assigned laboratory ID numbers to correspond with the CH2M specific IDs.

#### **II. Sample Receipt**

The chain of custodies for three of the samples originally requested both anions and radiochemistry analysis. The analysis was divided between two SDG's. For more information refer to the SIR that is attached to this report. All other samples were received in good condition and no other anomalies were noted during check-in.

#### **III. Analytical Results/Methodology**

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information, analytical results and the appropriate associated statistical errors.

CH2M Hill Plateau Remediation Company

September 3, 2015

May 28, 2015

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The requested analyses were:

**Chemical Analysis**

Hexavalent Chromium by EPA method 7196A

Anions, Ion Chromatography by EPA method 300.0

**IV. Quality Control**

The analytical results for each analysis performed includes a minimum of one laboratory control sample (LCS), one method (reagent) blank, and one duplicate sample analysis. Any exceptions have been noted in the "Comments" section.

QC and sample results are reported in the same units.

**V. Comments**

**Chemical Analysis**

Hexavalent Chromium by EPA method 7196A

The sample/ sample duplicate RPD agreement is not applicable if one or both results are less than five times the MDL. No analytical or quality issues were noted. The sample results and associated batch QC results are within contractual requirements.

Anions, Ion Chromatography by EPA method 300.0

No analytical or quality issues were noted. The sample results and associated batch QC results are within contractual requirements.

We certify that this data package is in compliance with the SOW, both technically and for completeness, including a full description of, explanation of, and corrective actions for, any and all deviations, from either the analyses requested or the case narrative requested. Release of the data contained in this hard copy data package has been authorized by the Laboratory Analytical Manager (or designee) and the laboratory's client services representative as verified by their signatures on this report.

### SAMPLE ISSUE RESOLUTION

SIR NUM           SDR15-273  
REV NUM          0  
DATE INITIATED   4/14/2015

**SAMPLE EVENT INFORMATION**

SAF NUM(S)        X15-026  
OPERABLE UNIT(S)   100-BC-5  
PROJECT(S)        CERC15  
SAMPLE EVENT TITLE(S) CERC15  
LABORATORY        TestAmerica Incorporated, Richland

**SAMPLING INFORMATION**

NUMBER OF SAMPLES   3  
SAMPLE NUMBERS      B30MF7, B30MJ9, B30MM9  
SAMPLE MATRIX       WATER  
COLLECTION DATE     -  
SDG NUM            WC0051, W07096

**ISSUE BACKGROUND**

**CLASS**            Sample Management Issues  
**TYPE**            Other SDM Issue (specify)  
**DESCRIPTION**      The lab received samples requesting both radiochemistry and ion chromatography under the same COC and sample number.

**DISPOSITION**

**DESCRIPTION**      SMR proposes that the lab "split" the COCs by appending each sample number and a copy of each effected chain with an "A". Copies of the appended COCs will be sent to SMR. In addition, if the same issue arises in the future those COCs will be handled in the same manner.

**JUSTIFICATION**    Final Disposition: Accept proposed resolution.

SUBMITTED BY: Scot Fitzgerald   DATE: 04/14/2015  
ACCEPTED BY: Sandra Seger       DATE: 04/14/2015

**Problem and Discrepancy Report****TARL****WC0051****06/02/15**

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**The data package has the following issues:**

SDR15-273 instructed TARL to “-A” 3 COCs and samples that had rad and IC on together. In WC0051 TARL “-A” the samples (B30MF7, B30MJ9, B30MM9) on the COCs but didn’t do that on the report or the EDD. Please add the “-A” to the sample numbers and re-report the data.

**Resolution:** *Provide correction.*

**Lab Response:** **The Anion ID’s have changed to end as -A. The EDD and Hard Copy report have been revised to now be WC0051A.pdf and WC0051A.txt**

Please correct the issue and resubmit the hard copy and electronic copy data packages.

September 3, 2015

AMENDED REPORT  
Rev 1

<b>CH2M Hill Plateau Remediation Company</b>		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>		C.O.C. # <b>X15-026-049</b>
Collector <b>J.R. Aguilera/CHPRC</b>		Contact/Requester <b>Karen Waters-Husted</b>	Telephone No. <b>509-376-4650</b>	Page 1 of 1
SAF No. <b>X15-026</b>	Sampling Origin <b>Hanford Site</b>	Purchase Order/Charge Code <b>303271</b>	Ice Chest No. <b>N/A</b>	
Project Title <b>100-BC-5 RI, APRIL 2015</b>	Logbook No. <b>HNF-N-506 70 / 59</b>	Method of Shipment <b>GOVERNMENT VEHICLE</b>	Bill of Lading/Air Bill No. <b>N/A</b>	
Shipped To (Lab) <b>TestAmerica Incorporated, Richland</b>	Priority: <b>30 Days</b>	Offsite Property No. <b>N/A</b>		
Protocol <b>CERCLA</b>	<b>SPECIAL INSTRUCTIONS</b>		Total Activity Exemption: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b> *** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1				
Sample No.	Filter	Date	Time	No/Type Container
B30MH1	Y	4-10-15	1207	1x60-mL aG
B30MIF9	N	4-10-15	1207	1x60-mL aG
				Sample Analysis
				<b>M6 KNJM</b>
				<b>M6 KNJP</b>
				Holding Time
				24 Hours
				24 Hours
				Preservative
				Cool <=6C
				Cool <=6C

D50100416  
SDG# WCO051



Relinquished By <b>J.R. Aguilera/CHPRC</b>	Print 	Sign	Date/Time <b>APR 10 2015 1330</b>	Received By <b>J. Priesz, TARC</b>	Print 	Sign	Date/Time <b>APR 10 2015 1330</b>
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Disposal Method (e.g., Return to customer, per lab procedure, used in process)				Disposed By			
FINAL SAMPLE DISPOSITION				Date/Time			

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September 3, 2015

AMENDED REPORT

Rev 1

JF 411015  
 J5500  
 J5D100416  
 SDG# W0051



**CH2M Hill Plateau Remediation Company**

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

C.O.C.# **X15-026-050**  
 Page 1 of 1

Collector: **J.R. Aguilar/CHPRC** Telephone No. **509-376-4650**

SAF No. **X15-026** Sampling Origin: **Hanford Site** Purchase Order/Charge Code: **303271**

Project Title: **100-BC-5 RI, APRIL 2015** Logbook No. **HNF-N-506 70 / 59** Ice Chest No. **N/A**

Shipped To (Lab): **TestAmerica Incorporated, Richland** Method of Shipment: **GOVERNMENT VEHICLE** Bill of Lading/Air Bill No. **N/A**

Protocol: **CERCLA** Priority: **30 Days** SPECIAL INSTRUCTIONS: **PRIORITY** Offsite Property No. **N/A**

**POSSIBLE SAMPLE HAZARDS/REMARKS**

\*\*\* \*\* Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS: **Hold Time** Total Activity Exemption: Yes  No

Sample No.	Filter	* Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B30MH4	N	4-10-15	1108	1x60-mL aG	ML6KNQ	24 Hours	Cool <=6C
B30MH6	Y	4-10-15	1108	1x60-mL aG	ML6KNR	24 Hours	Cool <=6C

Relinquished By	Date/Time	Sign	Print	Received By	Date/Time	Sign	Print	Date/Time	Matrix *
J.R. Aguilar/CHPRC	APR 10 2015 1330			J. Friesz, TARL	APR 10 2015 1330				Soil, Sediment, Solid, Sludge, Water, Oil, Air, Drum Solids, Drum Liquids, Tissue, Wipe, Liquid, Vegetation, Other
Relinquished By	Date/Time			Received By	Date/Time				
Relinquished By	Date/Time			Received By	Date/Time				
Relinquished By	Date/Time			Received By	Date/Time				

**FINAL SAMPLE DISPOSITION**

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

Disposed By

Date/Time

Date/Time Received: 4/10/15 1330 Container GM Screen Result: (Airlock) 40 cpm Initials [ J ]  
 Sample GM Screen Result (Sample Receiving) 20 cpm Initials [ J ]

Client: PGW SDG #: 400 WCO051 SAF #: X15-026 NA [ ]  
JF41015

Lot Number: J50100416

Chain of Custody # J X15-026-049;050  
JF41015

Shipping Container ID or Air Bill Number : \_\_\_\_\_ NA [ J ]

Samples received inside shipping container/cooler/box Yes [ J ] Continue with 1 through 4. Initial appropriate response.  
No [ ] Go to 5, add comment to #16.

- 1. Custody Seals on shipping container intact? Yes [ ] No [ ] No Custody Seal [ J ]
- 2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [ J ]
- 3. Cooler temperature: 3.3 ORIFER NA [ ]
- 4. Vermiculite/packing materials is NA [ J ] Wet [ ] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

- 5. Chain of Custody record present? Yes [ J ] No [ ]
- 6. Number of samples received (Each sample may contain multiple bottles): 4
- 7. Containers received: 4x60ml bag

- 8. Sample holding times exceeded? NA [ ] Yes [ ] No [ J ]
- 9. Samples have: \_\_\_\_\_ tape \_\_\_\_\_ hazard labels J custody seals J appropriate sample labels
- 10. Matrix: \_\_\_\_\_ A (FLT, Wipe, Solid, Soil) J I (Water) \_\_\_\_\_ S (Air, Niosh 7400) \_\_\_\_\_ T (Biological, Ni-63)

11. Samples:  
J are in good condition \_\_\_\_\_ are leaking \_\_\_\_\_ are broken  
\_\_\_\_\_ have air bubbles (Only for samples requiring no head space) \_\_\_\_\_ Other \_\_\_\_\_

12. Sample pH appropriate for analysis requested Yes [ J ] No [ ] NA [ ]  
(If acidification is necessary go to pH area & document sample ID, initial pH, amount of HNO<sub>3</sub> added and pH after addition on table)

13. Were any anomalies identified in sample receipt? Yes [ ] No [ J ]

14. Description of anomalies (include sample numbers): NA [ J ] \_\_\_\_\_

15. Sample Location, Sample Collector Listed on COC? \* Yes [ J ] No [ ]  
\*For documentation only. No corrective action needed.

16. Additional Information: NIA

[ ] Client/Courier denied temperature check. [ J ] Client/Courier unpack cooler.

Sample Check-in List completed by Sample Custodian:  
Signature: \_\_\_\_\_ Date: 4/10/15

Client Notification needed? Yes [ ] No [ J ] Date: \_\_\_\_\_  
By: \_\_\_\_\_  
Person contacted: \_\_\_\_\_

WMP No action necessary; process as is  
Project Manager Whitney Mitani Date 4/13/15

CH2M Hill Plateau Remediation Company		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>				C.O.C.# <b>X15-026-046</b>
Collector S.W. King/CHPRC		Contact/Requester Karen Waters-Husted	Telephone No. 509-376-4650	Page 1 of 1		
SAF No. X15-026		Sampling Origin Hanford Site	Purchase Order/Charge Code 303271			
Project Title 100-BC-5 RI, APRIL 2015		Logbook No. HNF-N-506 70 / 60	Ice Chest No. N/A			
Shipped To (Lab) TestAmerica Incorporated, Richland		Method of Shipment GOVERNMENT VEHICLE	Bill of Lading/Air Bill No. N/A			
Protocol CERCLA		Priority: 30 Days	Offsite Property No. N/A			
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b> ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1						
Sample No.	Filter	* Date	Time	No./Type Container	Sample Analysis	Preservative
B30MD9	N	W APR 13 2015	1008	1x500-mL P	300.0_ANIONS_IC: COMMON m6KOH	Cool <=6C

J5D130422  
wcc051  
m6KOH



Relinquished By S.W. King/CHPRC	Print C.C. HOFFMAN/CHPRC	Sign <i>[Signature]</i>	Date/Time APR 13 2015 1515	Received By C.C. HOFFMAN/CHPRC	Sign <i>[Signature]</i>	Date/Time APR 13 2015 1515	Matrix * S = Soil, SE = Sediment, SO = Solid, SL = Sludge, W = Water, O = Oil, A = Air, DS = Drum Solids, DL = Drum Liquids, T = Tissue, WI = Wipe, L = Liquid, V = Vegetation, X = Other
Relinquished By C.C. HOFFMAN/CHPRC	Print J. Bock, TARL	Sign <i>[Signature]</i>	Date/Time APR 13 2015 1515	Received By J. Bock	Sign <i>[Signature]</i>	Date/Time APR 13 2015 1515	
Relinquished By	Print	Sign	Date/Time	Received By	Sign	Date/Time	
Relinquished By	Print	Sign	Date/Time	Received By	Sign	Date/Time	
FINAL SAMPLE DISPOSITION							Date/Time
Disposal Method (e.g., Return to customer, per lab procedure, used in process)							Date/Time

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # X15-026-053  
Page 1 of 1

Collector	S.W. King/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	X15-026	Sampling Origin	Hanford Site	Purchase Order/Charge Code	303271
Project Title	100-BC-5 RI, APRIL 2015	Logbook No.	HNF-N-506 70/100	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	30 Days	Offsite Property No.	N/A

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

**SPECIAL INSTRUCTIONS** Hold Time: 30 Days **PRIORITY**  
 Total Activity Exemption: Yes  No

Sample No.	Filter	* Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B30MJ1	N	APR 13 2015	1120	1x500-ml P	300.0_ANIONS_IC: COMMON	48 Hours	Cool <=6C

550130422  
wcc051

Relinquished By S.W. King/CHPRC	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time APR 13 2015 1117	Received By C.G. HOFFMAN/CHPRC	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time APR 13 2015 1115
Relinquished By C.G. HOFFMAN/CHPRC	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time APR 13 2015 1515	Received By <i>[Signature]</i>	Print J. Bock, TARL	Sign <i>[Signature]</i>	Date/Time APR 13 2015 1515
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			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
A	=	Oil	V	=	Vegetation
	=	Air	X	=	Other

**FINAL SAMPLE DISPOSITION**  
 Disposal Method (e.g., Return to customer, per lab procedure, used in process)  
 Disposed By  
 Date/Time  
 A-6004-842 (REV 2)

September 3, 2015

<b>CH2M Hill Plateau Remediation Company</b>		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>				C.O.C. # <b>X15-026-047</b> Page 1 of 1	
Collector S.W. King/CHPRC	Contact/Requester Karen Waters-Husted	Telephone No. 509-376-4650					
SAF No. X15-026	Sampling Origin Hanford Site	Purchase Order/Charge Code 303271					
Project Title 100-BC-5 RI, APRIL 2015	Logbook No. HNF-N-506 <b>70/60</b>	Ice Chest No. N/A					
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment GOVERNMENT VEHICLE	Bill of Lading/Air Bill No. N/A					
Protocol CERCLA	Priority: 30 Days	Offsite Property No. N/A					
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b> *** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1		SPECIAL INSTRUCTIONS Hold Time	Hold Time	Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Sample No. B30MF5	Filter Y	Date APR 13 2015	Time 1008	No./Type Container 1x60-mL aG	Sample Analysis mLeKOK	Holding Time 24 Hours	Preservative Cool <=6C
B30MF1	N	APR 13 2015	Y	1x60-mL aG	mLeKOL	24 Hours	Cool <=6C

550130422  
wcc051

Relinquished By S.W. King/CHPRC	Date/Time APR 13 2015	Sign 	Received By C.G. HOFFMAN/CHPRC	Date/Time APR 13 2015	Sign 	Matrix * S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
Relinquished By C.G. HOFFMAN/CHPRC	Date/Time APR 13 2015	Sign 	Received By J. Friesz, TARL	Date/Time APR 13 2015	Sign 	
Relinquished By [Blank]	Date/Time [Blank]	Sign [Blank]	Received By [Blank]	Date/Time [Blank]	Sign [Blank]	
Relinquished By [Blank]	Date/Time [Blank]	Sign [Blank]	Received By [Blank]	Date/Time [Blank]	Sign [Blank]	
<b>FINAL SAMPLE DISPOSITION</b>		Disposal Method (e.g., Return to customer, per lab procedure, used in process)				Date/Time

CH2M Hill Plateau Remediation Company		C.O.C. # <b>X15-026-054</b>	
Collector: S.W. King/CHPRC		Contact/Requester: Karen Waters-Husted	Telephone No. 509-376-4650
SAF No. X15-026		Sampling Origin: Hanford Site	Purchase Order/Charge Code: 303271
Project Title: 100-BC-5 RI, APRIL 2015		Logbook No. HNF-N-5067D / led	Ice Chest No. N/A
Shipped To (Lab): TestAmerica Incorporated, Richland		Method of Shipment: GOVERNMENT VEHICLE	Bill of Lading/Air Bill No. N/A
Protocol: CERCLA		Priority: 30 Days	Offsite Property No. N/A
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b> *** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1		SPECIAL INSTRUCTIONS: Hold Time Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Sample No.	Filter	* Date	Time
B30MJ3	N	APR 13 2015	1120
B30MJ7	Y	W	↓
No./Type Container	Sample Analysis	Holding Time	Preservative
1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

550130422  
w coosi

Relinquished By: S.W. King/CHPRC	Print: [Signature]	Received By: C.G. HOFFMAN/CHPRC	Print: [Signature]	Date/Time: APR 13 2015 1137	Date/Time: APR 13 2015 1135
Relinquished By: C.G. HOFFMAN/CHPRC	Print: [Signature]	Received By: J. Friesz, TARL	Print: [Signature]	Date/Time: APR 13 2015 1515	Date/Time: APR 13 2015 1515
Relinquished By:		Received By:		Date/Time:	Date/Time:
Relinquished By:		Received By:		Date/Time:	Date/Time:

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September 3, 2015

**CH2M Hill Plateau Remediation Company**

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

C.O.C. # **X15-026-066**  
Page 1 of 1

Collector: **S.W. King/CHPRC** Telephone No. **509-376-4650**

SAF No. **X15-026** Purchase Order/Charge Code **303271**

Project Title **100-BC-5 RI, APRIL 2015** Ice Chest No. **N/A**

Shipped To (Lab) **TestAmerica Incorporated, Richland** Bill of Lading/Air Bill No. **N/A**

Protocol **CERCLA** Priority: **30 Days** Offsite Property No. **N/A**

Contact/Requester **Karen Waters-Husted** Hanford Site

Logbook No. **HNF-N-506 70/60** GOVERNMENT VEHICLE

SPECIAL INSTRUCTIONS **PRIORITY**

Hold Time **30 Days** Total Activity Exemption: Yes  No

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

Sample No.	Filter	* Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B30MN1	N	APR 13 2015	1153	1x60-mL aG	COMMON mlkkg	24 Hours	Cool <=6C
B30MN3	Y	W	✓	1x60-mL aG	COMMON mlkkg	24 Hours	Cool <=6C

55D130422  
W20051

Relinquished By <b>S.W. King/CHPRC</b>	Date/Time <b>APR 13 2015 1315</b>	Received By <b>F.M. Hall/CHPRC</b>	Sign <i>[Signature]</i>	Date/Time <b>APR 13 2015 1315</b>	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time <b>APR 13 2015 1315</b>	Matrix *
Relinquished By <b>F.M. Hall/CHPRC</b>	Date/Time <b>APR 13 2015 1515</b>	Received By <b>J. Friesz, TARL</b>	Sign <i>[Signature]</i>	Date/Time <b>APR 13 2015 1515</b>	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time <b>APR 13 2015 1515</b>	Matrix *
Relinquished By	Date/Time	Received By	Sign	Date/Time	Print	Sign	Date/Time	Matrix *
Relinquished By	Date/Time	Received By	Sign	Date/Time	Print	Sign	Date/Time	Matrix *

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

Dispersed By

Final Sample Disposition

PRINTED O 2/24/2015

A-6004-842 (REV 2)

Date/Time Received: 4-13-15/1515 Container GM Screen Result: (Airlock) 40 cpm Initials BS  
Sample GM Screen Result (Sample Receiving) 0 cpm Initials BS

Client: PBW SDG #: WCOOS1 SAF #: X15-026 NA [ ]

Lot Number: J50130422

Chain of Custody # X15-026-046; 053; 047; 054; 066

Shipping Container ID or Air Bill Number : \_\_\_\_\_ NA BS ]

Samples received inside shipping container/cooler/box Yes BS ] Continue with 1 through 4. Initial appropriate response.  
No [ ] ] Go to 5, add comment to #16.

- 1. Custody Seals on shipping container intact? Yes [ ] No [ ] No Custody Seal BS ]
- 2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal BS ]
- 3. Cooler temperature: 4.6 °C Ice NA [ ]
- 4. Vermiculite/packing materials is NA BS ] Wet [ ] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

- 5. Chain of Custody record present? Yes BS ] No [ ]
- 6. Number of samples received (Each sample may contain multiple bottles): 8
- 7. Containers received: 2 x 500mlp; 6 x 60mlALS

- 8. Sample holding times exceeded? NA [ ] Yes [ ] No BS ]
- 9. Samples have: \_\_\_\_\_ tape \_\_\_\_\_ hazard labels BS custody seals BS appropriate sample labels
- 10. Matrix: \_\_\_\_\_ A (FLT, Wipe, Solid, Soil) BS I (Water) \_\_\_\_\_ S (Air, Niosh 7400) \_\_\_\_\_ T (Biological, Ni-63)

11. Samples: BS are in good condition \_\_\_\_\_ are leaking \_\_\_\_\_ are broken  
\_\_\_\_\_ have air bubbles (Only for samples requiring no head space) \_\_\_\_\_ Other \_\_\_\_\_

- 12. Sample pH appropriate for analysis requested Yes BS ] No [ ] NA [ ]  
(If acidification is necessary go to pH area & document sample ID, initial pH, amount of HNO<sub>3</sub> added and pH after addition on table)
- 13. Were any anomalies identified in sample receipt? Yes [ ] No BS ]
- 14. Description of anomalies (include sample numbers): NA BS ]

15. Sample Location, Sample Collector Listed on COC? \* Yes BS ] No [ ]  
\*For documentation only. No corrective action needed.

16. Additional Information: N/A

[ ] Client/Courier denied temperature check. BS ] Client/Courier unpack cooler.

Sample Check-in List completed by Sample Custodian:  
Signature: [Signature] Date: 4-13-15

Client Notification needed? Yes [ ] No wmp Date: \_\_\_\_\_  
By: \_\_\_\_\_  
Person contacted: \_\_\_\_\_

wmp No action necessary; process as is  
Project Manager: Whitney M. Pitari Date: 4/14/15

September 3, 2015

AMENDED REPORT  
Rev 1

J5500 JF4110115  
J5D 100420 JF4110115  
SOC# 000054  
W00051

# CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #  
**X15-026-056**  
Page 1 of 1

Collector	J.R. Aguilan/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	X15-026	Sampling Origin	Hanford Site	Purchase Order/Charge Code	303271
Project Title	100-BC-5 RI, APRIL 2015	Logbook No.	HNF-N-506 70 / 58	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	30 Days	Offsite Property No.	N/A

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

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes  No

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B30MK3	Y	W	4-10-15	0748	1x60-mL aG	7196_CR6: COMMON M6KN4	24 Hours	Cool <=6C
B30MK1	N	W	4-10-15	0748	1x60-mL aG	7196_CR6: COMMON M6KN5	24 Hours	Cool <=6C



Relinquished By J.R. Aguilan/CHPRC	Print <i>J.R. Aguilan</i>	Sign <i>J.R. Aguilan</i>	Date/Time APR 10 2015 1030	Received By <i>J.R. Aguilan</i>	Print <i>J.R. Aguilan</i>	Sign <i>J.R. Aguilan</i>	Date/Time APR 10 2015 1830
Relinquished By L.D. Well CHPRC	Print <i>L.D. Well</i>	Sign <i>L.D. Well</i>	Date/Time APR 10 2015 1445	Received By J. Friesz, TARL	Print <i>J. Friesz</i>	Sign <i>J. Friesz</i>	Date/Time APR 10 2015 1445
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
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	I = Tissue
SL = Sludge	WT = 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

FINAL SAMPLE DISPOSITION

PRINTED ON 2/24/2015

A-6004-842 (REV 2)



September 3, 2015

AMENDED REPORT  
Rev 1

JSD 100470  
WFOF 50 WCO51  
TF 411015

<b>CH2M Hill Plateau Remediation Company</b>		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>		C.O.C. # <b>X15-026-060</b>		Page 1 of 1					
Collector <b>J.R. Aguilar/CHPRC</b>	Contact/Requester Karen Waters-Husted	Telephone No. 509-376-4650	Purchase Order/Charge Code 303271	Ice Chest No. N/A	Bill of Lading/Air Bill No. N/A	Offsite Property No. N/A	Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
SAF No. X15-026	Sampling Origin Hanford Site	Logbook No. HNF-N-506 70 / 58	Method of Shipment GOVERNMENT VEHICLE	Priority: 30 Days	SPECIAL INSTRUCTIONS PRIORITY	Hold Time					
Project Title 100-BC-5 RI, APRIL 2015	Shipped To (Lab) TestAmerica Incorporated, Richland	Protocol CERCLA	POSSIBLE SAMPLE HAZARDS/REMARKS ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1	Sample No.	Filter *	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B30ML3	N	W	4-10-15	0914				1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B30ML5	Y	W	4-10-15	0914				1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

  

Relinquished By J.R. Aguilar/CHPRC	Print 	Sign APR 10 2015	Date/Time 1030	Received By L.D. Wall CHPRC	Print 	Sign APR 10 2015	Date/Time 1445
Relinquished By L.D. Wall CHPRC	Print 	Sign APR 10 2015	Date/Time 1445	Received By J. Friesz, TARL	Print 	Sign APR 10 2015	Date/Time 1445
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September 3, 2015

AMENDED REPORT  
Rev 1

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JF410115 WCO051

<b>CH2MHill Plateau Remediation Company</b>		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>				C.O.C. # <b>X15-026-062</b>
						Page 1 of 1
Collector	J.R. Aguilar/CHPRC	Contact/Requester	Karen Waters-Husted		Telephone No.	509-376-4650
SAF No.	X15-026	Sampling Origin	Hamford Site		Purchase Order/Charge Code	303271
Project Title	100-BC-5 RI, APRIL 2015	Logbook No.	HNF-N-506 7D / 58		Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE		Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	30 Days		Offsite Property No.	N/A
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>		<b>SPECIAL INSTRUCTIONS</b>		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 / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1						
Sample No.	Filter	Date	Time	No/Type Container	Sample Analysis	Holding Time
B30ML9	N	4-10-15	0946	1x60-mL aG	7196_CR6: COMMON M6KPA	24 Hours
B30MM1	Y	4-10-15	0946	1x60-mL aG	7196_CR6: COMMON M6KPC	24 Hours

Relinquished By J.R. Aguilar/CHPRC	Sign	Date/Time	Received By <i>[Signature]</i>	Sign	Date/Time
		APR 10 2015 1020			APR 10 2015 1030
Relinquished By L.D. Wall CHPRC	Sign	Date/Time	Received By J. Friesz, TARL	Sign	Date/Time
		APR 10 2015 1445			APR 10 2015 1445
Relinquished By		Date/Time	Received By		Date/Time

Matrix \*

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



September 3, 2015

AMENDED REPORT  
Rev 1

JD5D100420  
b6c00f50  
JF 4/10/15 w20051

<b>CH2M Hill Plateau Remediation Company</b>		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>		C.O.C.# <b>X15-026-061</b>	
Collector <b>J.R. Aguilan/CHPRC</b>		Contact/Requester Karen Waters-Husted	Telephone No. 509-376-4650	Page 1 of 1	
SAF No. X15-026		Sampling Origin Hanford Site	Purchase Order/Charge Code 303271		
Project Title 100-BC-5 RI, APRIL 2015		Logbook No. HNF-N-506 70 / S8	Ice Chest No. N/A		
Shipped To (Lab) TestAmerica Incorporated, Richland		Method of Shipment GOVERNMENT VEHICLE	Bill of Lading/Air Bill No. N/A		
Protocol CERCLA		Priority: 30 Days	Offsite Property No. N/A		
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b> ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1					
Sample No.	Filter	Date	Time	No/Type Container	Sample Analysis
B30ML8	N	4-10-15	0946	1x500-mL P	300.0_ANIONS_IC: COMMON ML6KPE
SPECIAL INSTRUCTIONS			Hold Time	Holding Time	Preservative
				48 Hours	Cool <=6C
Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					

Relinquished By <b>J.R. Aguilan/CHPRC</b>	Print	Sign	Date/Time APR 10 2015 1030	Received By <i>[Signature]</i>	Print	Sign <b>L.D. Wall</b> CHPRC	Date/Time APR 10 2015 10:30
Relinquished By <b>L.D. Wall</b> CHPRC	Print	Sign <i>[Signature]</i>	Date/Time APR 10 2015 1445	Received By <b>J. Friesz, TARL</b>	Print	Sign <i>[Signature]</i>	Date/Time APR 10 2015 1445
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	

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

September 3, 2015

AMENDED REPORT  
Rev 1

J5D100420  
b60050  
JF 41015 w10051

<b>CH2MHill Plateau Remediation Company</b>		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>		C.O.C.# <b>X15-026-102</b>
Collector: <b>J.R. Aguilar/CHPRC</b>		Contact/Requester: <b>Karen Waters-Husted</b>	Telephone No. <b>509-376-4650</b>	Page 1 of 1
SAF No. <b>X15-026</b>	Sampling Origin <b>Hanford Site</b>	Logbook No. <b>HNF-N-506 70 / 58</b>	Purchase Order/Charge Code <b>303269</b>	
Project Title <b>100-BC-5 RI, APRIL 2015</b>	Method of Shipment <b>GOVERNMENT VEHICLE</b>	Ice Chest No. <b>N/A</b>	Bill of Lading/Air Bill No. <b>N/A</b>	
Shipped To (Lab) <b>TestAmerica Incorporated, Richland</b>	Priority: <b>30 Days</b>	Offsite Property No. <b>N/A</b>		
Protocol <b>CERCLA</b>	<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>	Hold Time	Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
	<b>** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1</b>	SPECIAL INSTRUCTIONS <b>M6KPF</b>		
Sample No. <b>B30MM3</b>	No/Type Container <b>1x500-mL P</b>	Sample Analysis <b>COMMON</b>	Holding Time <b>48 Hours</b>	Preservative <b>Cool &lt;=6C</b>
Filter <b>N</b>	Date <b>4-10-15</b>			

Relinquished By <b>J.R. Aguilar/CHPRC</b>	Print	Sign	Date/Time <b>APR 10 2015 1030</b>	Received By <b>L.D. Wall</b>	Sign	Date/Time <b>APR 10 2015 1030</b>
Relinquished By <b>L.D. Wall/CHPRC</b>	Print	Sign	Date/Time <b>APR 10 2015 1445</b>	Received By <b>Recey J. Hesz, TARL</b>	Sign	Date/Time <b>APR 10 2015 1445</b>
Relinquished By			Date/Time	Received By		Date/Time
Relinquished By			Date/Time	Received By		Date/Time

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

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Date/Time Received: 4/10/15 1445 Container GM Screen Result: (Airlock) 40 cpm Initials [ J ]  
 Sample GM Screen Result (Sample Receiving) 20 cpm Initials [ J ]

Client: PGW SDG #: WC050 SAF #: X15-026 NA [ ]  
WC0051 wmr 4/10/15

Lot Number: J5D100420

Chain of Custody # X15-026-056; 058; 060; 062; 057; 061; 102

Shipping Container ID or Air Bill Number : \_\_\_\_\_ NA [ J ]

Samples received inside shipping container/cooler/box Yes [ J ] Continue with 1 through 4. Initial appropriate response.  
 No [ ] Go to 5, add comment to #16.

- 1. Custody Seals on shipping container intact? Yes [ ] No [ ] No Custody Seal [ J ]
- 2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [ J ]
- 3. Cooler temperature: 5.1 °C GN ICE NA [ ]
- 4. Vermiculite/packing materials is NA [ J ] Wet [ ] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

- 5. Chain of Custody record present? Yes [ J ] No [ ]
- 6. Number of samples received (Each sample may contain multiple bottles): 11
- 7. Containers received: 8x60mlag, 3x500mlp

- 8. Sample holding times exceeded? NA [ ] Yes [ ] No [ J ]
- 9. Samples have: \_\_\_\_\_ tape \_\_\_\_\_ hazard labels J custody seals J appropriate sample labels
- 10. Matrix: \_\_\_\_\_ A (FLT, Wipe, Solid, Soil) J I (Water) \_\_\_\_\_ S (Air, Niosh 7400) \_\_\_\_\_ T (Biological, Ni-63)
- 11. Samples: J are in good condition \_\_\_\_\_ are leaking \_\_\_\_\_ are broken  
 \_\_\_\_\_ have air bubbles (Only for samples requiring no head space) \_\_\_\_\_ Other \_\_\_\_\_
- 12. Sample pH appropriate for analysis requested Yes [ J ] No [ ] NA [ ]  
 (If acidification is necessary go to pH area & document sample ID, initial pH, amount of HNO<sub>3</sub> added and pH after addition on table)
- 13. Were any anomalies identified in sample receipt? Yes [ ] No [ J ]
- 14. Description of anomalies (include sample numbers): NA [ J ] \_\_\_\_\_
- 15. Sample Location, Sample Collector Listed on COC? \* Yes [ J ] No [ ]  
 \*For documentation only. No corrective action needed.
- 16. Additional Information: NIA

[ ] Client/Courier denied temperature check. [ J ] Client/Courier unpack cooler.

Sample Check-in List completed by Sample Custodian:  
 Signature: [Signature] Date: 4/10/15

Client Notification needed? Yes [ ] No [ wmr ] Date: \_\_\_\_\_  
 By: \_\_\_\_\_  
 Person contacted: \_\_\_\_\_

wmr No action necessary; process as is  
 Project Manager Whitney M. Litari Date 4/13/15

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

X15-026-048-A

Page 1 of 1

Collector	J.R. Aguilera/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	X15-026	Sampling Origin	Hanford Site	Purchase Order/Charge Code	303271
Project Title	100-BC-5 RI, APRIL 2015	Logbook No.	HNF-N-506 70 / 59	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	30 Days	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

\*\* \*\* Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS

Hold Time: Total Activity Exemption: Yes  No

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B30ME7-A	N	W	4-10-15	1207	1x500-mL P	300.0_ANIONS_IC: COMMON	48 Hours	Cool <=6C
B30ME7	N	W	4-10-15	1207	1x4LLP	906.0_IRIDIUM_LSC: COMMON	6 Months	None
B30MEZ	N	W	4-10-15	1207	3x4LLGP	SRISO_SEP_PRECIP_GPC: COMMON	6 Months	HNO3 to pH <=2



Handwritten notes: 5D100417, 4-14-15, 5KS, 4-14-15, SDS # 650-7096

Relinquished By	J.R. Aguilera/CHPRC	Sign	[Signature]	Date/Time	APR 10 2015 1330	Received By	J. Friesz, TARL	Sign	[Signature]	Date/Time	APR 10 2015 1330
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	

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

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

Date/Time

Disposed By

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Date/Time Received: 4/10/15 1330 Container GM Screen Result: (Airlock) 40 cpm Initials [ J ]  
Sample GM Screen Result (Sample Receiving) 20 cpm Initials [ J ]

Client: PGW SDG #: two 7096 SKS 4-14-15 SAF #: X15-026 NA [ ]

Lot Number: JSD100447 SKS 4-14-15

Chain of Custody # JF 4/10/15 X15-026-048-A

Shipping Container ID or Air Bill Number : \_\_\_\_\_ NA [ J ]

Samples received inside shipping container/cooler/box Yes [ J ] Continue with 1 through 4. Initial appropriate response.  
No [ ] Go to 5, add comment to #16.

- 1. Custody Seals on shipping container intact? Yes [ ] No [ ] No Custody Seal [ J ]
- 2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [ J ]
- 3. Cooler temperature: 3-3 °C CONF NA [ ]
- 4. Vermiculite/packing materials is NA [ J ] Wet [ ] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [ J ] No [ ]

6. Number of samples received (Each sample may contain multiple bottles): 1

7. Containers received: 1 x 1p; 1 x 500 mlp

8. Sample holding times exceeded? NA [ ] Yes [ ] No [ J ]

9. Samples have: \_\_\_\_\_ tape \_\_\_\_\_ hazard labels J custody seals J appropriate sample labels

10. Matrix: \_\_\_\_\_ A (FLT, Wipe, Solid, Soil) J I (Water) \_\_\_\_\_ S (Air, Niosh 7400) \_\_\_\_\_ T (Biological, Ni-63)

11. Samples: J are in good condition \_\_\_\_\_ are leaking \_\_\_\_\_ are broken  
\_\_\_\_\_ have air bubbles (Only for samples requiring no head space) \_\_\_\_\_ Other \_\_\_\_\_

12. Sample pH appropriate for analysis requested Yes [ J ] No [ ] NA [ ]  
(If acidification is necessary go to pH area & document sample ID, initial pH, amount of HNO<sub>3</sub> added and pH after addition on table)

13. Were any anomalies identified in sample receipt? Yes [ ] No [ J ]

14. Description of anomalies (include sample numbers): NA [ J ] \_\_\_\_\_

15. Sample Location, Sample Collector Listed on COC? \* Yes [ J ] No [ ]  
\*For documentation only. No corrective action needed.

16. Additional Information: N/A

[ ] Client/Courier denied temperature check. [ J ] Client/Courier unpack cooler.

Sample Check-in List completed by Sample Custodian:  
Signature: \_\_\_\_\_ Date: 4/10/15

Client Notification needed? Yes [ J ] No [ ] Date: \_\_\_\_\_  
By: \_\_\_\_\_  
Person contacted: \_\_\_\_\_

[ ] No action necessary; process as is  
Project Manager Whitney M. Otari Date 4/13/15

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

X15-026-055-A

Page 1 of 1

Collector	J.R. Aguilar/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	X15-026	Sampling Origin	Hanford Site	Purchase Order/Charge Code	303271
Project Title	100-BC-5 RI, APRIL 2015	Logbook No.	HNF-N-506 70 / 58	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	30 Days	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

\*\*\* Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS

Hold Time: Total Activity Exemption: Yes  No

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B30MJ9-A	N	W	4-10-15	0748	1x500-mL P	COMMON	4-14-15 48 Hours	Cool <=6C
<del>B30MJ9</del>	<del>N</del>	<del>W</del>	<del>4-10-15</del>	<del>0748</del>	<del>1x1-L-P</del>	<del>906.0-IRIDIUM-LSC-COMMON</del>	<del>6 Months</del>	<del>None</del>

September 3, 2015



JSD100424  
W070916  
5154-14-15

Received By: L.D. Wall CHPRC  
 Received By: [Signature] CHPRC  
 Received By: [Signature] CHPRC  
 Received By: [Signature] CHPRC

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
J.R. Aguilar/CHPRC	[Signature]	[Signature]	APR 10 2015 1030	L.D. Wall	[Signature]	[Signature]	APR 10 2015 1050	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
L.D. Wall	[Signature]	[Signature]	APR 10 2015 1445	[Signature]	[Signature]	[Signature]	APR 10 2015 1445	
[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	

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AMENDED REPORT  
Rev 1

FINAL SAMPLE DISPOSITION

Date/Time Received: 4/10/15 1445 Container GM Screen Result: (Airlock) 40 epm Initials [ J ]  
 Sample GM Screen Result (Sample Receiving) 20 epm Initials [ J ]  
 Client: PGW SDG #: 5K54-14-15 SAF #: 207096 NA [ ]  
 Lot Number: 750100424  
 Chain of Custody # X15-026-055-A

Shipping Container ID or Air Bill Number : \_\_\_\_\_ NA [ J ]

Samples received inside shipping container/cooler/box Yes [ J ] Continue with 1 through 4. Initial appropriate response.  
 No [ ] Go to 5, add comment to #16.

- 1. Custody Seals on shipping container intact? Yes [ ] No [ ] No Custody Seal [ J ]
- 2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [ J ]
- 3. Cooler temperature: 5.1 °C ICE NA [ ]
- 4. Vermiculite/packing materials is Wet NA [ J ] Wet [ ] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

- 5. Chain of Custody record present? Yes [ J ] No [ ]
- 6. Number of samples received (Each sample may contain multiple bottles): 1
- 7. Containers received: 1x 500mlp; 1x 1l

- 8. Sample holding times exceeded? NA [ ] Yes [ ] No [ J ]
- 9. Samples have: \_\_\_\_\_ tape \_\_\_\_\_ hazard labels J custody seals J appropriate sample labels
- 10. Matrix: \_\_\_\_\_ A (FLT, Wipe, Solid, Soil) J I (Water) \_\_\_\_\_ S (Air, Niosh 7400) \_\_\_\_\_ T (Biological, Ni-63)
- 11. Samples: J are in good condition \_\_\_\_\_ are leaking \_\_\_\_\_ are broken  
 \_\_\_\_\_ have air bubbles (Only for samples requiring no head space) \_\_\_\_\_ Other \_\_\_\_\_
- 12. Sample pH appropriate for analysis requested Yes [ J ] No [ ] NA [ ]  
 (If acidification is necessary go to pH area & document sample ID, initial pH, amount of HNO<sub>3</sub> added and pH after addition on table)
- 13. Were any anomalies identified in sample receipt? Yes [ ] No [ J ]
- 14. Description of anomalies (include sample numbers): NA [ J ] \_\_\_\_\_
- 15. Sample Location, Sample Collector Listed on COC? \* Yes [ J ] No [ ]  
 \*For documentation only. No corrective action needed.
- 16. Additional Information: N/A

[ ] Client/Courier denied temperature check. [ J ] Client/Courier unpack cooler.

Sample Check-in List completed by Sample Custodian:  
 Signature: \_\_\_\_\_ Date: 4/10/15

Client Notification needed? Yes [ J ] No [ ] Date: \_\_\_\_\_  
 By: \_\_\_\_\_  
 Person contacted: \_\_\_\_\_

[ ] No action necessary; process as is  
 Project Manager Whitney M. [Signature] Date 4/13/15

September 3, 2015

C.O.C.#  
**X15-026-065-A**  
Page 1 of 1

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

**CH2M Hill Plateau Remediation Company**

Collector	S.W. King/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	X15-026	Sampling Origin	Hanford Site	Purchase Order/Charge Code	303271
Project Title	100-BC-5 RI, APRIL 2015	Logbook No.	HNF-N-506 <b>7D/6D</b>	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	<b>30 Days</b>	Offsite Property No.	N/A

<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>		<b>SPECIAL INSTRUCTIONS</b>		Total Activity Exemption: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
*** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1					
Sample No.	Filter *	Date	Time	No/Type Container	Sample Analysis
B30MM9-A	N	APR 13 2015	1533	1x500-ml P	COMMON
B30MM9	N			1x1-LP	COMMON
					Hold Time: <b>4-14-15</b>
					Hold Time: <b>6 Months</b>
					Holding Time: <b>48 Hours</b>
					Preservative: <b>Cool &lt;=6C</b>

*Handwritten:* JSD/BOWAL SKS 4-14-15  
WENDAL



Relinquished By	S.W. King/CHPRC	Print	F.M. Hall/CHPRC	Received By	F.M. Hall/CHPRC	Date/Time	APR 13 2015 1315	Date/Time	APR 13 2015 1315	Matrix *
Relinquished By	S.W. King/CHPRC	Sign	[Signature]	Received By	J. Bock, TARL	Date/Time	4-13-15	Date/Time	4-13-15	S = Soil
Relinquished By	F.M. Hall/CHPRC	Sign	[Signature]	Received By	[Signature]	Date/Time	4-13-15	Date/Time	4-13-15	SE = Sediment
Relinquished By	[Signature]	Sign	[Signature]	Received By	[Signature]	Date/Time	4-13-15	Date/Time	4-13-15	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

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Date/Time Received: 4-13-15/1515 Container GM Screen Result: (Airlock) 40 cpm Initials B  
Sample GM Screen Result (Sample Receiving) 0 cpm Initials B  
Client: Pbw SDG #: WD4096 <sup>SKS 4-14-15</sup> SAF #: X15-026 NA [ ]  
Lot Number: JSA130426 <sup>SKS 4-14-15</sup>  
Chain of Custody # X15-026-065-A

Shipping Container ID or Air Bill Number : \_\_\_\_\_ NA B ]

Samples received inside shipping container/cooler/box Yes B ] Continue with 1 through 4. Initial appropriate response.  
No [ ] ] Go to 5, add comment to #16.

- 1. Custody Seals on shipping container intact? Yes [ ] No [ ] No Custody Seal B ]
- 2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal B ]
- 3. Cooler temperature: 4.6 °C Ice NA [ ] ]
- 4. Vermiculite/packing materials is NA B ] Wet [ ] Dry [ ]

- Item 5 through 16 for samples. Initial appropriate response.
- 5. Chain of Custody record present? Yes B ] No [ ] ]
- 6. Number of samples received (Each sample may contain multiple bottles): 1
- 7. Containers received: 1x 500mlp; 1x 4p

- 8. Sample holding times exceeded? NA [ ] Yes [ ] No B ]
- 9. Samples have: \_\_\_\_\_ tape \_\_\_\_\_ hazard labels B custody seals B appropriate sample labels
- 10. Matrix: \_\_\_\_\_ A (FLT, Wipe, Solid, Soil) B I (Water) \_\_\_\_\_ S (Air, Niosh 7400) \_\_\_\_\_ T (Biological, Ni-63)

11. Samples: B are in good condition \_\_\_\_\_ are leaking \_\_\_\_\_ are broken  
B have air bubbles (Only for samples requiring no head space) \_\_\_\_\_ Other \_\_\_\_\_

- 12. Sample pH appropriate for analysis requested Yes [ ] No [ ] NA [ ]  
(If acidification is necessary go to pH area & document sample ID, initial pH, amount of HNO<sub>3</sub> added and pH after addition on table)
- 13. Were any anomalies identified in sample receipt? Yes [ ] No B ]
- 14. Description of anomalies (include sample numbers): NA B ]

15. Sample Location, Sample Collector Listed on COC? \* Yes B ] No [ ]  
\*For documentation only. No corrective action needed.

16. Additional Information: N/A B 4-13-15 anion got put onto same coc w/ H-3. Logged into the WD sdg instead of WC SDG.  
[ ] Client/Courier denied temperature check. B ] Client/Courier unpack cooler.

Sample Check-in List completed by Sample Custodian:  
Signature: [Signature] Date: 4-13-15

Client Notification needed? Yes NA No [ ] Date: \_\_\_\_\_  
By: \_\_\_\_\_  
Person contacted: \_\_\_\_\_

[ ] No action necessary; process as is  
Project Manager Whitney Martini Date 4/14/15

**Nagel, Sarah**

---

**From:** Loeber, Bob  
**Sent:** Tuesday, July 21, 2015 2:22 PM  
**To:** Nagel, Sarah  
**Subject:** Direction on IC samples diverted to TARL from GEL

From: Fitzgerald, Scot L [[mailto:Scot\\_L\\_Fitzgerald@rl.gov](mailto:Scot_L_Fitzgerald@rl.gov)]  
Sent: Tuesday, November 25, 2014 3:40 PM  
To: Seger, Sandra  
Cc: Fitzgerald, Scot L; Waters-husted, Karen S  
Subject: Direction on IC samples diverted to TARL from GEL

Sandra,

This e-mail serves as a blanket instruction to allow Test America Richland to change the method from 9056\_Anions\_IC to 300.0\_Anions\_IC on all chains that are diverted from GEL laboratory.

Please place a copy of this e-mail in each affected data package. An individual SIR form will not be needed.

Scot Fitzgerald  
Analytical Support Group  
Soil & Groundwater Remediation Project (S&GRP)  
Phone: (509) 373-7495



Sample Results Summary

Date: 22-Jul-15

TestAmerica Inc TARL

Ordered by Method, Batch No., Client Sample ID.

Report No. : 65930

SDG No: WC0051

Batch Client ID	Date Sampled	Work Order No.	Parameter	Result	Qual	Units	MDL	RL	Date Analyzed	Dil Fct
<b>5100065 300.0_ANIONS_IC ,WATER</b>										
B30MF7-A	04/10/15 12:07	M6KNT1AA	Chloride	8.50	D	mg/L	0.2	0.4	04/10/15 15:51	2
			Fluoride	0.216	D	mg/L	0.05	0.1		2
			Nitrite as N	<0.0380	U D	mg/L	0.038	0.076		2
			Nitrate as N	1.54	D	mg/L	0.028	0.056		2
			Sulfate	41.1	D	mg/L	0.25	0.5		2
<b>5100066 300.0_ANIONS_IC ,WATER</b>										
B30MK6	04/10/15 8:19	M6KPD1AA	Chloride	10.2	D	mg/L	0.2	0.4	04/10/15 19:51	2
			Fluoride	0.229	D	mg/L	0.05	0.1		2
			Nitrite as N	<0.0380	U D	mg/L	0.038	0.076		2
			Nitrate as N	2.06	D	mg/L	0.028	0.056		2
			Sulfate	45.2	D	mg/L	0.25	0.5		2
B30ML8	04/10/15 9:46	M6KPE1AA	Chloride	8.07	D	mg/L	0.2	0.4	04/10/15 20:06	2
			Fluoride	0.234	D	mg/L	0.05	0.1		2
			Nitrite as N	<0.0380	U D	mg/L	0.038	0.076		2
			Nitrate as N	1.63	D	mg/L	0.028	0.056		2
			Sulfate	31.6	D	mg/L	0.25	0.5		2
B30MM3	04/10/15 9:14	M6KPF1AA	Chloride	7.36	D	mg/L	0.2	0.4	04/10/15 20:21	2
			Fluoride	0.162	D	mg/L	0.05	0.1		2
			Nitrite as N	<0.0380	U D	mg/L	0.038	0.076		2
			Nitrate as N	1.63	D	mg/L	0.028	0.056		2
			Sulfate	33.5	D	mg/L	0.25	0.5		2
<b>5100068 300.0_ANIONS_IC ,WATER</b>										
B30MJ9-A	04/10/15 7:48	M6KQW1AA	Chloride	1.50	D	mg/L	0.2	0.4	04/10/15 17:34	2
			Fluoride	0.242	D	mg/L	0.05	0.1		2
			Nitrite as N	<0.0380	U D	mg/L	0.038	0.076		2
			Nitrate as N	0.220	D	mg/L	0.028	0.056		2
			Sulfate	13.7	D	mg/L	0.25	0.5		2
<b>5100069 7196_CR6 ,WATER</b>										
B30MF9	04/10/15 12:07	M6KNP1AA	HEXCHROME	0.0234		mg/L	0.0015	0.004	04/10/15 17:39	1
B30MH1	04/10/15 12:07	M6KNM1AA	HEXCHROME	0.0202		mg/L	0.0015	0.004	04/10/15 17:36	1
B30MH4	04/10/15 11:08	M6KNQ1AA	HEXCHROME	0.0336		mg/L	0.0015	0.004	04/10/15 17:39	1
B30MH6	04/10/15 11:08	M6KNR1AA	HEXCHROME	0.0270		mg/L	0.0015	0.004	04/10/15 17:40	1
B30MK1	04/10/15 7:48	M6KN51AA	HEXCHROME	0.0355		mg/L	0.0015	0.004	04/10/15 17:44	1
B30MK3	04/10/15 7:48	M6KN41AA	HEXCHROME	0.0339		mg/L	0.0015	0.004	04/10/15 17:44	1
B30MK7	04/10/15 8:19	M6KN71AA	HEXCHROME	0.0347		mg/L	0.0015	0.004	04/10/15 17:45	1
B30MK9	04/10/15 8:19	M6KN61AA	HEXCHROME	0.0352		mg/L	0.0015	0.004	04/10/15 17:45	1
B30ML3	04/10/15 9:14	M6KN81AA	HEXCHROME	0.0214		mg/L	0.0015	0.004	04/10/15 17:45	1

TestAmerica Inc  
 rptTALRchSample  
 SumC2 V5.3.8  
 A2002

D Qual - The reported value is from a dilution  
 U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

September 3, 2015

AMENDED REPORT

Rev 1

Sample Results Summary

Date: 22-Jul-15

TestAmerica Inc TARL

Ordered by Method, Batch No., Client Sample ID.

Report No. : 65930

SDG No: WC0051

Batch Client ID	Date Sampled	Work Order No.	Parameter	Result	Qual	Units	MDL	RL	Date Analyzed	Dil Fct
<b>5100069 7196_CR6 ,WATER</b>										
B30ML5	04/10/15 9:14	M6KN91AA	HEXCHROME	0.0189		mg/L	0.0015	0.004	04/10/15 17:46	1
B30ML9	04/10/15 9:46	M6KPA1AA	HEXCHROME	0.00230 B		mg/L	0.0015	0.004	04/10/15 17:48	1
B30MM1	04/10/15 9:46	M6KPC1AA	HEXCHROME	0.00260 B		mg/L	0.0015	0.004	04/10/15 17:49	1
<b>5103033 7196_CR6 ,WATER</b>										
B30MF1	04/13/15 10:08	M6K0L1AA	HEXCHROME	0.0142		mg/L	0.0015	0.004	04/13/15 18:27	1
B30MF5	04/13/15 10:08	M6K0K1AA	HEXCHROME	0.0150		mg/L	0.0015	0.004	04/13/15 18:24	1
B30MJ3	04/13/15 11:20	M6K0M1AA	HEXCHROME	0.00940		mg/L	0.0015	0.004	04/13/15 18:27	1
B30MJ7	04/13/15 11:20	M6K0N1AA	HEXCHROME	0.0101		mg/L	0.0015	0.004	04/13/15 18:28	1
B30MN1	04/13/15 11:53	M6K0P1AA	HEXCHROME	0.0351		mg/L	0.0015	0.004	04/13/15 18:28	1
B30MN3	04/13/15 11:53	M6K0Q1AA	HEXCHROME	0.0351		mg/L	0.0015	0.004	04/13/15 18:28	1
<b>5104025 300.0_ANIONS_IC ,WATER</b>										
B30MM9-A	04/13/15 11:53	M6K1A1AA	Chloride	5.52 D		mg/L	0.2	0.4	04/14/15 12:43	2
			Fluoride	0.197 D		mg/L	0.05	0.1		2
			Nitrite as N	<0.0380 U D		mg/L	0.038	0.076		2
			Nitrate as N	1.52 D		mg/L	0.028	0.056		2
			Sulfate	33.5 D		mg/L	0.25	0.5		2
<b>5104026 300.0_ANIONS_IC ,WATER</b>										
B30MD9	04/13/15 10:08	M6K0H1AA	Chloride	6.81 D		mg/L	0.2	0.4	04/14/15 15:39	2
			Fluoride	0.269 D		mg/L	0.05	0.1		2
			Nitrite as N	<0.0380 U D		mg/L	0.038	0.076		2
			Nitrate as N	1.30 D		mg/L	0.028	0.056		2
			Sulfate	34.0 D		mg/L	0.25	0.5		2
B30MJ1	04/13/15 11:20	M6K0J1AA	Chloride	9.44 D		mg/L	0.2	0.4	04/14/15 16:24	2
			Fluoride	0.216 D		mg/L	0.05	0.1		2
			Nitrite as N	<0.0380 U D		mg/L	0.038	0.076		2
			Nitrate as N	1.78 D		mg/L	0.028	0.056		2
			Sulfate	36.8 D		mg/L	0.25	0.5		2

No. of Results: 58

QC Results Summary  
TestAmerica Inc TARL  
Ordered by Method, Batch No, QC Type,.

Date: 22-Jul-15

Report No. : 65930

SDG No.: WC0051

Batch	Work Work No.	Parameter	Result	Qual	Units	LCS Recovery	MDL	RL	RPD	Dil Fct
<b>300.0_ANIONS_IC</b>										
5100065 MS, B30MF7-A	M6KNT1AE	Chloride	4.18		mg/L	99%	0.1	0.2		1
		Fluoride	0.181		mg/L	91%	0.025	0.05		1
		Nitrite as N	0.0650		mg/L	84%	0.019	0.038		1
		Nitrate as N	0.745		mg/L	99%	0.014	0.028		1
		Sulfate	18.9		mg/L	100%	0.125	0.25		1
5100065 DUP, B30MF7-A DUP	M6KNT1AF	Chloride	8.52 D		mg/L		0.2	0.4	0.3	2
		Fluoride	0.217 D		mg/L		0.05	0.1	0.5	2
		Nitrite as N	<0.0380 U D		mg/L		0.038	0.076		2
		Nitrate as N	1.55 D		mg/L		0.028	0.056	0.2	2
		Sulfate	41.3 D		mg/L		0.25	0.5	0.3	2
5100065 BLANK,	M6KN01AA	Chloride	<0.100 U		mg/L		0.1	0.2		1
		Fluoride	<0.0250 U		mg/L		0.025	0.05		1
		Nitrite as N	<0.0190 U		mg/L		0.019	0.038		1
		Nitrate as N	<0.0140 U		mg/L		0.014	0.028		1
		Sulfate	<0.125 U		mg/L		0.125	0.25		1
5100065 LCS,	M6KN01AC	Chloride	3.98		mg/L	100%	0.1	0.2		1
		Fluoride	1.00		mg/L	100%	0.025	0.05		1
		Nitrite as N	0.696		mg/L	91%	0.019	0.038		1
		Nitrate as N	0.544		mg/L	96%	0.014	0.028		1
		Sulfate	5.01		mg/L	100%	0.125	0.25		1
<b>300.0_ANIONS_IC</b>										
5100066 MS, B30N19	M6KNX1AC	Chloride	7.09		mg/L	100%	0.1	0.2		1
		Fluoride	0.164		mg/L	91%	0.025	0.05		1
		Nitrite as N	0.0940		mg/L	82%	0.019	0.038		1
		Nitrate as N	0.340		mg/L	99%	0.014	0.028		1
		Sulfate	24.1		mg/L	101%	0.125	0.25		1
5100066 DUP, B30N19 DUP	M6KNX1AD	Chloride	14.9 D		mg/L		0.2	0.4	0.0	2
		Fluoride	0.180 D		mg/L		0.05	0.1	0.0	2
		Nitrite as N	0.0860 D		mg/L		0.038	0.076	0.0	2
		Nitrate as N	0.640 D		mg/L		0.028	0.056	0.2	2
		Sulfate	52.4 D		mg/L		0.25	0.5	0.5	2
5100066 BLANK,	M6KQX1AA	Chloride	<0.100 U		mg/L		0.1	0.2		1
		Fluoride	<0.0250 U		mg/L		0.025	0.05		1
		Nitrite as N	<0.0190 U		mg/L		0.019	0.038		1

TestAmerica Inc D Qual - The reported value is from a dilution  
 rptTALRchQcSummaryC V5.3.8 U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.  
 A2002

QC Results Summary

Date: 22-Jul-15

TestAmerica Inc TARL

Ordered by Method, Batch No, QC Type,.

Report No. : 65930

SDG No.: WC0050

Batch	Work Work No.	Parameter	Result	Qual	Units	LCS Recovery	MDL	RL	RPD	Dil Fct
5100066 BLANK,	M6KQX1AA	Nitrate as N	<0.0140 U		mg/L		0.014	0.028		1
		Sulfate	<0.125 U		mg/L		0.125	0.25		1
5100066 LCS,	M6KQX1AC	Chloride	3.99		mg/L	100%	0.1	0.2		1
		Fluoride	0.997		mg/L	100%	0.025	0.05		1
		Nitrite as N	0.711		mg/L	93%	0.019	0.038		1
		Nitrate as N	0.542		mg/L	96%	0.014	0.028		1
		Sulfate	5.02		mg/L	100%	0.125	0.25		1
<b>300.0_ANIONS_IC</b>										
5100068 MS, B30MJ9-A	M6KQW1AD	Chloride	1.04		mg/L	97%	0.1	0.2		1
		Fluoride	0.194		mg/L	93%	0.025	0.05		1
		Nitrite as N	0.0680		mg/L	89%	0.019	0.038		1
		Nitrate as N	0.147		mg/L	94%	0.014	0.028		1
		Sulfate	6.61		mg/L	99%	0.125	0.25		1
5100068 DUP, B30MJ9-A DUP	M6KQW1AE	Chloride	1.49 D		mg/L		0.2	0.4	0.5	2
		Fluoride	0.241 D		mg/L		0.05	0.1	0.4	2
		Nitrite as N	<0.0380 U D		mg/L		0.038	0.076		2
		Nitrate as N	0.219 D		mg/L		0.028	0.056	0.5	2
		Sulfate	13.6 D		mg/L		0.25	0.5	0.5	2
5100068 BLANK,	M6KQ11AA	Chloride	<0.100 U		mg/L		0.1	0.2		1
		Fluoride	<0.0250 U		mg/L		0.025	0.05		1
		Nitrite as N	<0.0190 U		mg/L		0.019	0.038		1
		Nitrate as N	<0.0140 U		mg/L		0.014	0.028		1
		Sulfate	<0.125 U		mg/L		0.125	0.25		1
5100068 LCS,	M6KQ11AC	Chloride	3.99		mg/L	100%	0.1	0.2		1
		Fluoride	1.00		mg/L	100%	0.025	0.05		1
		Nitrite as N	0.705		mg/L	93%	0.019	0.038		1
		Nitrate as N	0.545		mg/L	97%	0.014	0.028		1
		Sulfate	5.01		mg/L	100%	0.125	0.25		1
<b>7196_CR6</b>										
5100069 MS, B30MH1	M6KNM1AC	HEXCHROME	0.0487		mg/L	97%	0.0015	0.004		1
5100069 DUP, B30MM1 DUP	M6KPC1AC	HEXCHROME	0.00210 B		mg/L		0.0015	0.004	21.3	1
5100069 BLANK,	M6KQ21AA	HEXCHROME	<0.00150 U		mg/L		0.0015	0.004		1
5100069 LCS,	M6KQ21AC	HEXCHROME	0.264		mg/L	105%	0.0015	0.004		1

7196\_CR6

TestAmerica Inc  
 rptTALRchQcSummaryC V5.3.8  
 A2002

D Qual - The reported value is from a dilution  
 U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.  
 B Qual - The analyte was detected at a value less than the reporting limit (RL), but greater than or equal to the MDL.

QC Results Summary  
TestAmerica Inc TARL  
Ordered by Method, Batch No, QC Type,.

Date: 22-Jul-15

Report No. : 65930

SDG No.: WC0051

Batch	Work Work No.	Parameter	Result	Qual	Units	LCS Recovery	MDL	RL	RPD	Dil Fct
5103033 MS, B30MF5	M6K0K1AC	HEXCHROME	0.0552		mg/L	110%	0.0015	0.004		1
5103033 DUP, B30MJ6 DUP	M6K061AC	HEXCHROME	<0.00150 U		mg/L		0.0015	0.004	-40.0	1
5103033 BLANK,	M6K091AA	HEXCHROME	<0.00150 U		mg/L		0.0015	0.004		1
5103033 LCS,	M6K091AC	HEXCHROME	0.264		mg/L	106%	0.0015	0.004		1
<b>300.0_ANIONS_IC</b>										
5104025 MS, B30MM9-A	M6K1A1AD	Chloride	2.87		mg/L	99%	0.1	0.2		1
		Fluoride	0.174		mg/L	92%	0.025	0.05		1
		Nitrite as N	0.0690		mg/L	90%	0.019	0.038		1
		Nitrate as N	0.739		mg/L	100%	0.014	0.028		1
		Sulfate	15.7		mg/L	101%	0.125	0.25		1
5104025 DUP, B30MM9-A DU	M6K1A1AE	Chloride	5.53 D		mg/L		0.2	0.4	0.2	2
		Fluoride	0.198 D		mg/L		0.05	0.1	0.5	2
		Nitrite as N	<0.0380 U D		mg/L		0.038	0.076		2
		Nitrate as N	1.52 D		mg/L		0.028	0.056	0.1	2
		Sulfate	33.7 D		mg/L		0.25	0.5	0.5	2
5104025 BLANK,	M6K3N1AA	Chloride	<0.100 U		mg/L		0.1	0.2		1
		Fluoride	<0.0250 U		mg/L		0.025	0.05		1
		Nitrite as N	<0.0190 U		mg/L		0.019	0.038		1
		Nitrate as N	<0.0140 U		mg/L		0.014	0.028		1
		Sulfate	<0.125 U		mg/L		0.125	0.25		1
5104025 LCS,	M6K3N1AC	Chloride	3.95		mg/L	99%	0.1	0.2		1
		Fluoride	0.975		mg/L	98%	0.025	0.05		1
		Nitrite as N	0.705		mg/L	93%	0.019	0.038		1
		Nitrate as N	0.538		mg/L	95%	0.014	0.028		1
		Sulfate	4.92		mg/L	98%	0.125	0.25		1
<b>300.0_ANIONS_IC</b>										
5104026 MS, B30MD9	M6K0H1AC	Chloride	3.45		mg/L	99%	0.1	0.2		1
		Fluoride	0.209		mg/L	94%	0.025	0.05		1
		Nitrite as N	0.0680		mg/L	88%	0.019	0.038		1
		Nitrate as N	0.641		mg/L	100%	0.014	0.028		1
		Sulfate	15.9		mg/L	101%	0.125	0.25		1
5104026 DUP, B30MD9 DUP	M6K0H1AD	Chloride	6.83 D		mg/L		0.2	0.4	0.2	2
		Fluoride	0.270 D		mg/L		0.05	0.1	0.4	2
		Nitrite as N	<0.0380 U D		mg/L		0.038	0.076		2

TestAmerica Inc D Qual - The reported value is from a dilution  
rptTALRchQcSummaryC V5.3.8 U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.  
A2002

September 3, 2015

AMENDED REPORT

Rev 1

QC Results Summary

Date: 22-Jul-15

TestAmerica Inc TARL

Ordered by Method, Batch No, QC Type,.

Report No. : 65930

SDG No.: WC0051

Batch	Work Work No.	Parameter	Result	Qual	Units	LCS Recovery	MDL	RL	RPD	Dil Fct
5104026 DUP, B30MD9 DUP	M6K0H1AD	Nitrate as N	1.30 D		mg/L		0.028	0.056	0.2	2
		Sulfate	34.2 D		mg/L		0.25	0.5	0.5	2
5104026 BLANK,	M6K3P1AA	Chloride	<0.100 U		mg/L		0.1	0.2		1
		Fluoride	<0.0250 U		mg/L		0.025	0.05		1
		Nitrite as N	<0.0190 U		mg/L		0.019	0.038		1
		Nitrate as N	<0.0140 U		mg/L		0.014	0.028		1
		Sulfate	<0.125 U		mg/L		0.125	0.25		1
5104026 LCS,	M6K3P1AC	Chloride	3.96		mg/L	99%	0.1	0.2		1
		Fluoride	0.976		mg/L	98%	0.025	0.05		1
		Nitrite as N	0.705		mg/L	93%	0.019	0.038		1
		Nitrate as N	0.539		mg/L	95%	0.014	0.028		1
		Sulfate	4.92		mg/L	98%	0.125	0.25		1

No. of Results: 108