

May 26, 2015

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: TARK

Data Package Contains 16 Pages

Report No.: 65846

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.	
WC0066	F15-005	B31BX7	J5E060416-5	M6Q361AA	M6Q361AA	5126076	
		B31BX8	J5E060416-8	M6Q391AA	M6Q391AA	5126077	
		B31BY3	J5E060416-2	M6Q331AA	M6Q331AA	5126076	
		B31BY4	J5E060416-9	M6Q4A1AA	M6Q4A1AA	5126077	
		B31BY8	J5E060416-1	M6Q321AA	M6Q321AA	5126076	
		B31BY9	J5E060416-10	M6Q4C1AA	M6Q4C1AA	5126077	
	F15-005	B31C03	J5E060416-4	M6Q351AA	M6Q351AA	5126076	
		B31C04	J5E060416-6	M6Q371AA	M6Q371AA	5126077	
		B31C12	J5E060416-3	M6Q341AA	M6Q341AA	5126076	
		B31C13	J5E060416-7	M6Q381AA	M6Q381AA	5126077	
			B31C13 DUP	J5E060416-7	M6Q381AD	M6Q381AD	5126077
	WC0068	F13-002	B31BW4 DUP	J5E060418-3	M6Q4V1AC	M6Q4V1AC	5126076

Sample Date: 5/6/2015

Receipt Date: 5/6/2015

Data Deliverable: 5/26/2015

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 Whitney Ritari
Date: 2015.05.26 16:15:33 -07'00'

Project Manager

May 26, 2015



Certificate of Analysis

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

May 26, 2015

Attention: Scot Fitzgerald

SAF Number	:	F15-005
Date SDG Closed	:	May 6, 2015
Number of Samples	:	Ten (10)
Sample Type	:	Water
SDG Number	:	WC0066
Data Deliverable	:	15 Day/ Summary

CASE NARRATIVE

I. Introduction

On May 6, 2015, ten 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 sample was received in good condition and no 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.

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.

May 26, 2015

CH2M Hill Plateau Remediation Company

May 26, 2015

QC and sample results are reported in the same units.

V. Comments

Chemical Analysis

Hexavalent Chromium by EPA method 7196A

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

The bromide peaks in batch 5126077 were manually integrated. 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.

May 26, 2015

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F15-005-164	PAGE 1 OF 1
COLLECTOR <i>T. Bacon</i>	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR EVANS, RT	PRICE CODE 7C	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 289-T, Effluent Tank, Valve V07-Y80D	PROJECT DESIGNATION 200W Pump & Treat - Treatment Plant Water Sampling	FIELD LOGBOOK NO. <i>HNF-N-491-8/32</i>	SAF NO. F15-005	AIR QUALITY <input type="checkbox"/>	
ICE CHEST NO. N/A	ACTUAL SAMPLE DEPTH N/A	COA 303700	METHOD OF SHIPMENT GOVERNMENT VEHICLE		ORIGINAL
SHIPPED TO TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO. N/A	BILL OF LADING/AIR BILL NO. N/A			

MATRIX* A=Air DL=Drum L=Liquid S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	PRESERVATION Cool <=6C	NO. OF CONTAINER(S) 1	DATE/TIME MAY 06 2015 0831
POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.	HOLDING TIME 24 Hours	VOLUME 60ml	
SPECIAL HANDLING AND/OR STORAGE N/A	TYPE OF CONTAINER ag	SAMPLE ANALYSIS 7196 CRM: COMPONENT	

*JSE060016
WCO006
Due 5-21-15*

m6Q32



CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM <i>T. Bacon</i>	DATE/TIME MAY 06 2015	RECEIVED BY/STORED IN <i>B.E. Briggs</i>	DATE/TIME MAY 06 2015 1030	** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF, TRVL-15-077	
RELINQUISHED BY/REMOVED FROM <i>B.E. Briggs</i>	DATE/TIME MAY 06 2015 1445	RECEIVED BY/STORED IN <i>J. Bock</i>	DATE/TIME MAY 06 2015 1445		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME		
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME		

TRVL-15-077

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F15-005-159	PAGE 1 OF 1
COLLECTOR <i>CHPRC</i> <i>T Bacon</i>	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR EVANS, RT	PRICE CODE 7C	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 289-T, Effluent Tank, Valve V07-Y80D → DUP	PROJECT DESIGNATION 200W Pump & Treat - Treatment Plant Water Sampling	ACTUAL SAMPLE DEPTH N/A	SAF NO. F15-005	AIR QUALITY <input type="checkbox"/>	METHOD OF SHIPMENT GOVERNMENT VEHICLE
ICE CHEST NO. N/A	FIELD LOGBOOK NO. HNF-N-451-3/12	OFFSITE PROPERTY NO. N/A	COA 303700	BILL OF LADING/AIR BILL NO. N/A	
SHIPPED TO TestAmerica Incorporated, Richland	PRESERVATION Cool <=6C				
MATRIX* A=Air DL=Drum L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.	HOLDING TIME 24 Hours	TYPE OF CONTAINER eG	NO. OF CONTAINER(S) 1	VOLUME 60mL
SPECIAL HANDLING AND/OR STORAGE N/A	SAMPLE ANALYSIS	7196,066: COMMON:	SPECIAL INSTRUCTIONS ** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. TRVL-15-077		

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B31BY3	WATER	MAY 06 2015	0835

55E060416
Wednesday
M6033

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM <i>T. Bacon</i>	<i>T. Bacon</i>	RECEIVED BY/STORED IN <i>B.E. Briggs</i>	DATE/TIME MAY 06 2015 1030
RELINQUISHED BY/REMOVED FROM <i>B.E. Briggs</i>	<i>B.E. Briggs</i>	RECEIVED BY/STORED IN <i>J. Bock</i>	DATE/TIME MAY 06 2015 1445
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN	DATE/TIME
RECEIVED BY	TITLE		
DISPOSAL METHOD	DISPOSED BY		

TRVL-15-077

CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F15-005-178	PAGE 1 OF 1
COLLECTOR <i>evrc Bacon</i>	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR EVANS, RT	PRICE CODE 7C	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 289-TA, Post-Resin Tanks, Valve Y06-Y22	PROJECT DESIGNATION 200W Pump & Treat - Treatment Plant Water Sampling	SAF NO. F15-005	COA 303700	AIR QUALITY	<input type="checkbox"/>
ICE CHEST NO. N/A	FIELD LOGBOOK NO. HNF-N-491-8/pe	ACTUAL SAMPLE DEPTH N/A	BILL OF LADING/AIR BILL NO. N/A	METHOD OF SHIPMENT GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO. N/A				

MATRIX* A=Air DL=Drum L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WL=Wipe X=Other	PRESERVATION Cool <=6C	HOLDING TIME 24 Hours	TYPE OF CONTAINER aG	NO. OF CONTAINER(S) 1	VOLUME 60ml	SAMPLE ANALYSIS 7196, CR6: COMMON;
POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.						
SPECIAL HANDLING AND/OR STORAGE N/A						
SAMPLE NO. B31C12	MATRIX* WATER	SAMPLE DATE MAY 06 2015	SAMPLE TIME 0925			

*JSE060414
weeobey
m60734*

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM <i>7. Bacon</i>	DATE/TIME MAY 06 2015 1030	RECEIVED BY/STORED IN <i>B.E. Briggs</i>	DATE/TIME MAY 06 2015	** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. TRVL-15-077	
RELINQUISHED BY/REMOVED FROM <i>B.E. Briggs</i>	DATE/TIME MAY 06 2015 1445	RECEIVED BY/STORED IN <i>J. Bock</i>	DATE/TIME MAY 06 2015 1445	TRVL-15-077	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
LABORATORY SECTION	RECEIVED BY	TITLE		DATE/TIME	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY		DATE/TIME	

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F15-005-169	PAGE 1 OF 1	
COLLECTOR <i>ahpcc</i> <i>Bauer</i>	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR EVANS, RT	PRICE CODE 7C	DATA TURNAROUND 15 Days / 15 Days	
SAMPLING LOCATION 289-TA, Pre-Resist Tanks, Valve V05-Y20	PROJECT DESIGNATION 200W Pump & Treat - Treatment Plant Water Sampling	ACTUAL SAMPLE DEPTH N/A	SAF NO. F15-005	AIR QUALITY <input type="checkbox"/>	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
ICE CHEST NO. N/A	FIELD LOGBOOK NO. HNF-N-496-5432	OFFSITE PROPERTY NO. N/A	COA 303700	BILL OF LADING/AIR BILL NO. N/A		
SHIPPED TO TestAmerica Incorporated, Richland	PRESERVATION Cool <=6C					
<p>MATRIX*</p> <p>A=Air DL=Drum L=Liquid DS=Drum S=Soil O=Oil SE=Sediment T=Tissue V=Vegetation W=Water WL=Wipe X=Other</p>	POSSIBLE SAMPLE HAZARDS/REMARKS *Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR/DATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.	HOLDING TIME 24 Hours	TYPE OF CONTAINER ag	NO. OF CONTAINER(S) 1	VOLUME 60mL	
	SPECIAL HANDLING AND/OR STORAGE N/A	SAMPLE ANALYSIS	SAMPLE DATE MAY 06 2015	SAMPLE TIME 0955	7196_C06: COMPOUND	

556060414
WCOO06
MARS

CHAIN OF POSSESSION		SIGN / PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM <i>T. Bock, TARA</i>	DATE/TIME MAY 06 2015 1030	RECEIVED BY/STORED IN <i>B.E. Briggs</i>	DATE/TIME MAY 06 2015 1030	** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. TRVL-15-077	
RELINQUISHED BY/REMOVED FROM <i>B.E. Briggs</i>	DATE/TIME MAY 06 2015 1445	RECEIVED BY/STORED IN <i>J. Bock, TARA</i>	DATE/TIME MAY 06 2015 1445	TRVL-15-077	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
LABORATORY SECTION	RECEIVED BY	TITLE		DATE/TIME	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY		DATE/TIME	

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F15-005-153	PAGE 1 OF 1
COLLECTOR <i>Cheryl T. Bacon</i>	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR EVANS, RT	PRICE CODE 7C	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 289-T, Influent Tank, Valve V12-730	PROJECT DESIGNATION 200W Pump & Treat - Treatment Plant Water Sampling	FIELD LOGBOOK NO. <i>INF-N-451-8/132</i>	SAF NO. F15-005	AIR QUALITY <input type="checkbox"/>	METHOD OF SHIPMENT GOVERNMENT VEHICLE
ICE CHEST NO. N/A	ACTUAL SAMPLE DEPTH N/A	COA 303700	BILL OF LADING/AIR BILL NO. N/A		
SHIPPED TO TestAmerica Incorporated, Richland					

MATRIX* A=Air DL=Drum L=Liquids DS=Drum S=Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.	PRESERVATION Cool <=6C
	HOLDING TIME	24 Hours
	TYPE OF CONTAINER	ag
	NO. OF CONTAINER(S)	1
VOLUME	60ml	
SAMPLE ANALYSIS	7156 CR6: COMMON;	
SPECIAL HANDLING AND/OR STORAGE N/A		
SAMPLE NO. B31BX7	MATRIX* WATER	SAMPLE DATE MAY 06 2015
		SAMPLE TIME 1050

556060114
wcooper
mbq36

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM <i>T. Bacon Cheryl T. Bacon</i>	DATE/TIME MAY 06 2015 1158	RECEIVED BY/STORED IN <i>L.D. Wall</i>	DATE/TIME MAY 06 2015 1158	** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. TRVL-15-077	
RELINQUISHED BY/REMOVED FROM <i>L.D. Wall</i>	DATE/TIME MAY 06 2015 1445	RECEIVED BY/STORED IN <i>J. Bock, JARL</i>	DATE/TIME MAY 06 2015 1445	TRVL-15-077	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
LABORATORY SECTION		RECEIVED BY		TITLE	
FINAL SAMPLE DISPOSITION		DISPOSAL METHOD		DISPOSED BY	
				DATE/TIME	

May 26, 2015

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F15-005-170	PAGE 1 OF 1
COLLECTOR <i>Chapel Bacon</i>	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR EVANS, RT	PRICE CODE 7C	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 289-TA, Pre-Resin Tanks, Valve V05-Y20	PROJECT DESIGNATION 200W Pump & Treat - Treatment Plant Water Sampling	FIELD LOGBOOK NO. <i>FNF-N-451-5/32</i>	SAF NO. F15-005	AIR QUALITY <input type="checkbox"/>	METHOD OF SHIPMENT GOVERNMENT VEHICLE
ICE CHEST NO. N/A	ACTUAL SAMPLE DEPTH N/A	COA 303700	BILL OF LADING/AIR BILL NO. N/A		
SHIPPED TO TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO. N/A				

MATRIX* A=Air DL=Drum L=Liquid DS=Drum S=Soil O=Oil S=Soil T=Tissue V=Vegetation W=Water Wt=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.	PRESERVATION Cool <=6C
	HOLDING TIME 48 Hours	
	TYPE OF CONTAINER P	
	NO. OF CONTAINER(S) 1	
	VOLUME 500mL	
	SAMPLE ANALYSIS SEE ITEM (1) IN SPECIAL INSTRUCTIONS	
SPECIAL HANDLING AND/OR STORAGE N/A	SAMPLE DATE MAY 06 2015	SAMPLE TIME 0955
SAMPLE NO. BB31C04	MATRIX* WATER	

*See below
WCO004
M6037*

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM <i>T Bacon</i>	DATE/TIME MAY 06 2015 1030	RECEIVED BY/STORED IN B.E. BRIGGS	DATE/TIME MAY 05 2015 1030	** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. TRVL-15-077 (1) 300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: COMMON (Add-on) {Bromide};	
RELINQUISHED BY/REMOVED FROM B.E. Briggs	DATE/TIME MAY 06 2015 1445	RECEIVED BY/STORED IN J. BOCK, TARA	DATE/TIME MAY 06 2015 1445		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RECEIVED BY	TITLE	TRVL-15-077			
LABORATORY SECTION	DISPOSAL METHOD	DATE/TIME			
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DATE/TIME			

May 26, 2015

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F15-005-179	PAGE 1 OF 1
COLLECTOR <i>CHRC</i> <i>Bacon</i>	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR EVANS, RT	PRICE CODE 7C	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 289-TA, Post-Resin Tanks, Valve 400-100	PROJECT DESIGNATION 200W Pump & Treat - Treatment Plant Water Sampling	SAF NO. F15-005	COA 303700	AIR QUALITY	<input type="checkbox"/>
ICE CHEST NO. N/A	FIELD LOGBOOK NO. HNF-N-481-5/13	ACTUAL SAMPLE DEPTH N/A	BILL OF LADING/AIR BILL NO. N/A	METHOD OF SHIPMENT GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO. N/A				

MATRIX* A=Air DL=Drum L=Liquid S=Soil SE=Sediment T=Tissue V=Vegetation W=Water Wt=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/ATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.	PRESERVATION Cool <=6C	HOLDING TIME 48 Hours	TYPE OF CONTAINER P	NO. OF CONTAINER(S) 1	VOLUME 500ml	SAMPLE ANALYSIS SEE ITEM (1) IN SPECIAL INSTRUCTIONS
SPECIAL HANDLING AND/OR STORAGE N/A							
SAMPLE NO. B31C13	MATRIX* WATER	SAMPLE DATE MAY 06 2015	SAMPLE TIME 0525				

JSE060414
WCO004
m6038

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM <i>CHRC</i> <i>Bacon</i>	DATE/TIME MAY 06 2015	RECEIVED BY/STORED IN B.E. Briggs CHRC	DATE/TIME MAY 06 2015	** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. TRVL-15-077 (1) 300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: COMMON (Add-on) {Bromide};	
RELINQUISHED BY/REMOVED FROM <i>Bacon</i>	DATE/TIME MAY 06 2015	RECEIVED BY/STORED IN <i>J. Bock, TABAY</i>	DATE/TIME MAY 06 2015	TRVL-15-077	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
LABORATORY SECTION	RECEIVED BY	TITLE		DATE/TIME	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY		DATE/TIME	

10 of 10

May 26, 2015

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F15-005-154	PAGE 1 OF 1
COLLECTOR <i>T. Bacon</i>	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR EVANS, RT	PRICE CODE 7C	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 289-T, Influent Tank, Valve V12-Y30	PROJECT DESIGNATION 200W Pump & Treat - Treatment Plant Water Sampling	FIELD LOGBOOK NO. <i>HNF-N-491-9/32</i>	SAF NO. F15-005	AIR QUALITY <input type="checkbox"/>	METHOD OF SHIPMENT GOVERNMENT VEHICLE
ICE CHEST NO. N/A	OFFSITE PROPERTY NO. N/A	ACTUAL SAMPLE DEPTH N/A	COA 303700	ORIGINAL	
SHIPPED TO TestAmerica Incorporated, Richland	BILL OF LADING/AIR BILL NO. N/A				

MATRIX* A=Air DL=Drum L=Liquids DS=Drum S=Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WT=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.	PRESERVATION Cool <=6C	HOLDING TIME 48 Hours	TYPE OF CONTAINER P	NO. OF CONTAINER(S) 1	VOLUME 500ml	SAMPLE ANALYSIS SEE ITEM (1) IN SPECIAL INSTRUCTIONS
SPECIAL HANDLING AND/OR STORAGE N/A	SAMPLE DATE MAY 06 2015	SAMPLE TIME 1050	<p style="text-align: right;"><i>JSE060416</i> <i>WED0604</i> <i>M16Q39</i></p>				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM <i>T. Bacon Troy L. Bacon</i>	DATE/TIME MAY 06 2015 1558	RECEIVED BY/STORED IN <i>L.B. White</i>	DATE/TIME MAY 06 2015 1558	** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. TRVL-15-077 (1) 300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: COMMON (Add-on) {Bromide};	
RELINQUISHED BY/REMOVED FROM <i>L.B. White</i>	DATE/TIME MAY 06 2015 1445	RECEIVED BY/STORED IN <i>J. Bock</i>	DATE/TIME MAY 06 2015 1445	<p>TRVL-15-077</p>	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
LABORATORY SECTION	RECEIVED BY		TITLE		
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD		DISPOSED BY		

May 26, 2015

CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F15-005-160	PAGE 1 OF 1
COLLECTOR <i>Chapman</i>	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR EVANS, RT	PRICE CODE 7C	DATA TURNOAROUND 15 Days / 15 Days
SAMPLING LOCATION 289-T, Effluent Tank, Valve V07-80D - DUP	PROJECT DESIGNATION 200W Pump & Treat - Treatment Plant Water Sampling	FIELD LOGBOOK NO. <i>ENF-N-451-5/132</i>	SAF NO. F15-005	AIR QUALITY <input type="checkbox"/>	METHOD OF SHIPMENT GOVERNMENT VEHICLE
ICE CHEST NO. N/A	ACTUAL SAMPLE DEPTH N/A	COA 303700	BILL OF LADING/AIR BILL NO. N/A		
SHIPPED TO TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO. N/A				

MATRIX*	PRESERVATION	Cool <=6C
A=Air	HOLDING TIME	48 Hours
DL=Drum	TYPE OF CONTAINER	P
Liquids	NO. OF CONTAINER(S)	1
DS=Drum	VOLUME	500ml
Solids	SAMPLE ANALYSIS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS
L=Liquid	SAMPLE DATE	MAY 06 2015
O=Oil	SAMPLE TIME	0835
S=Soil		
SE=Sediment		
T=Tissue		
V=Vegetation		
W=Water		
WT=Wipe		
X=Other		

SEEDOCHIV
WCOO64
MLQPH4

CHAIN OF POSSESSION		SIGN/PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM <i>Bacon</i>	DATE/TIME MAY 06 2015 1030	RECEIVED BY/STORED IN <i>B.E. Briggs</i>	DATE/TIME MAY 06 2015 1030	** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. TRVL-15-077	
RELINQUISHED BY/REMOVED FROM <i>B.E. Briggs</i>	DATE/TIME MAY 06 2015 1445	RECEIVED BY/STORED IN <i>J. Bock</i>	DATE/TIME MAY 06 2015 1445	(1) 300.0 ANIONS_IC: COMMON; 300.0 ANIONS_IC: COMMON (Add-on) {Bromide};	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	TRVL-15-077	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
LABORATORY SECTION	RECEIVED BY	TITLE		DATE/TIME	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY		DATE/TIME	

May 26, 2015

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F15-005-165	PAGE 1 OF 1
COLLECTOR <i>Charr</i>	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR EVANS, RT	PRICE CODE 7C	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 289-T, Effluent Tank, Valve V07-Y80D	PROJECT DESIGNATION 200W Pump & Treat - Treatment Plant Water Sampling	FIELD LOGBOOK NO. <i>HNF-N-491-5/112</i>	SAF NO. F15-005	AIR QUALITY <input type="checkbox"/>	METHOD OF SHIPMENT GOVERNMENT VEHICLE
ICE CHEST NO. N/A	OFFSITE PROPERTY NO. N/A	ACTUAL SAMPLE DEPTH N/A	COA 303700	ORIGINAL	
SHIPPED TO TestAmerica Incorporated, Richland	BILL OF LADING/AIR BILL NO. N/A				

MATRIX* A=Air DL=Drum L=Liquid DS=Drum S=Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.	PRESERVATION Cool <=6C	HOLDING TIME 48 Hours	TYPE OF CONTAINER P	NO. OF CONTAINER(S) 1	VOLUME 500ml	SAMPLE ANALYSIS SEE ITEM (1) IN SPECIAL INSTRUCTIONS
SPECIAL HANDLING AND/OR STORAGE N/A							
SAMPLE NO. B31BY9	MATRIX* WATER	SAMPLE DATE MAY 06 2015	SAMPLE TIME 0831				

*SEE 060414
WCOO04
M6Q4C*

CHAIN OF POSSESSION		SIGN / PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM <i>T. Baron</i>	DATE/TIME MAY 06 2015	RECEIVED BY/STORED IN <i>S.E. Briggs</i>	DATE/TIME MAY 06 2015 1030	** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. TRVL-15-077	
RELINQUISHED BY/REMOVED FROM <i>B.E. Briggs</i>	DATE/TIME MAY 06 2015 1445	RECEIVED BY/STORED IN <i>TRVL-300B</i>	DATE/TIME MAY 06 2015 1445	(1) 300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: COMMON (Add-on) {Bromide};	
RELINQUISHED BY/REMOVED FROM <i>CHPRC</i>	DATE/TIME MAY 06 2015 1445	RECEIVED BY/STORED IN <i>TRVL-300B</i>	DATE/TIME MAY 06 2015 1445	TRVL-15-077	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
LABORATORY SECTION	RECEIVED BY	TITLE		DATE/TIME	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY		DATE/TIME	

Date/Time Received: 5-6-15/1445 Container GM Screen Result: (Airlock) 20 cpm Initials B
Sample GM Screen Result (Sample Receiving) 20 cpm Initials B

Client: FLH SDG #: W20066 SAF #: F15-005 NA []

Lot Number: JSE060416

Chain of Custody # F15-005-164, 159, 178, 169, 153, 170, 179, 154, 160, 165

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: 4.3 °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): 10

7. Containers received: 5 x 60 mL AB; 5 x 500 mL P

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 B] No [] NA []
(If acidification is necessary go to pH area & document sample ID, initial pH, amount of HNO₃ 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

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

Sample Check-in List completed by Sample Custodian:
Signature: [Signature] Date: 5-6-15

Client Notification needed? Yes [] No WMP Date: _____
By: _____
Person contacted: _____

WMP No action necessary; process as is
Project Manager: Whitney M. [Signature] Date: 5/7/15

May 26, 2015

Sample Results Summary

Date: 26-May-15

TestAmerica Inc TARL

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

Report No. : 65846

SDG No: WC0066

Batch Client ID	Date Sampled	Work Order No.	Parameter	Result	Qual	Units	MDL	RL	Date Analyzed	Dil Fct
5126076 7196_CR6 ,WATER										
B31BX7	05/06/15 10:50	M6Q361AA	HEXCHROME	0.0232		mg/L	0.0015	0.004	05/06/15 17:48	1
B31BY3	05/06/15 8:35	M6Q331AA	HEXCHROME	0.00360	B	mg/L	0.0015	0.004	05/06/15 17:47	1
B31BY8	05/06/15 8:35	M6Q321AA	HEXCHROME	0.00360	B	mg/L	0.0015	0.004	05/06/15 17:44	1
B31C03	05/06/15 9:55	M6Q351AA	HEXCHROME	0.0508		mg/L	0.0015	0.004	05/06/15 17:47	1
B31C12	05/06/15 9:25	M6Q341AA	HEXCHROME	0.0334		mg/L	0.0015	0.004	05/06/15 17:47	1
5126077 300.0_ANIONS_IC ,WATER										
B31BX8	05/06/15 10:50	M6Q391AA	Bromide	0.207	D B	mg/L	0.125	0.25	05/06/15 19:51	2
			Chloride	26.4	D	mg/L	0.2	0.4		2
			Fluoride	0.346	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	25.6	D	mg/L	0.07	0.14	05/06/15 23:51	5
			Sulfate	47.3	D	mg/L	0.25	0.5	05/06/15 19:51	2
B31BY4	05/06/15 8:35	M6Q4A1AA	Bromide	0.199	D B	mg/L	0.125	0.25	05/06/15 20:06	2
			Chloride	44.6	D	mg/L	0.2	0.4		2
			Fluoride	0.344	D	mg/L	0.05	0.1		2
			Nitrite as N	0.339	D	mg/L	0.038	0.076		2
			Nitrate as N	6.02	D	mg/L	0.028	0.056		2
			Sulfate	91.5	D	mg/L	0.25	0.5		2
B31BY9	05/06/15 8:35	M6Q4C1AA	Bromide	0.199	D B	mg/L	0.125	0.25	05/06/15 20:21	2
			Chloride	45.1	D	mg/L	0.2	0.4		2
			Fluoride	0.344	D	mg/L	0.05	0.1		2
			Nitrite as N	0.352	D	mg/L	0.038	0.076		2
			Nitrate as N	6.06	D	mg/L	0.028	0.056		2
			Sulfate	92.4	D	mg/L	0.25	0.5		2
B31C04	05/06/15 9:55	M6Q371AA	Bromide	0.223	D B	mg/L	0.125	0.25	05/06/15 19:36	2
			Chloride	18.0	D	mg/L	0.2	0.4		2
			Fluoride	0.436	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	38.7	D	mg/L	0.28	0.56	05/07/15 12:32	20
			Sulfate	45.8	D	mg/L	0.25	0.5	05/06/15 19:36	2
B31C13	05/06/15 9:25	M6Q381AA	Bromide	0.233	D B	mg/L	0.125	0.25	05/06/15 18:51	2
			Chloride	18.5	D	mg/L	0.2	0.4		2
			Fluoride	0.505	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	39.9	D	mg/L	0.28	0.56	05/07/15 11:46	20
			Sulfate	64.6	D	mg/L	0.25	0.5	05/06/15 18:51	2

No. of Results: 35

TestAmerica Inc
rptTALRchSample
SumC2 V5.3.6.8
A2002

B Qual - The analyte was detected at a value less than the reporting limit (RL), but greater than or equal to the MDL.
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.

May 26, 2015

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

Date: 26-May-15

Report No. : 65846

SDG No.: WC0068

Batch	Work Work No.	Parameter	Result	Qual	Units	LCS Recovery	MDL	RL	RPD	Dil Fct	
7196_CR6											
5126076	DUP, B31BW4 DUP	M6Q4V1AC	HEXCHROME	0.0648		mg/L		0.0015	0.004	2.7	1
5126076	MS, B31BY8	M6Q321AC	HEXCHROME	0.0464		mg/L	93%	0.0015	0.004		1
5126076	BLANK,	M6Q451AA	HEXCHROME	<0.00150 U		mg/L		0.0015	0.004		1
5126076	LCS,	M6Q451AC	HEXCHROME	0.246		mg/L	99%	0.0015	0.004		1
300.0_ANIONS_IC											
5126077	MS, B31C13	M6Q381AC	Bromide	0.300		mg/L	80%	0.0625	0.125		1
			Chloride	8.64		mg/L	99%	0.1	0.2		1
			Fluoride	0.324		mg/L	97%	0.025	0.05		1
			Nitrite as N	0.0740		mg/L	90%	0.019	0.038		1
			Nitrate as N	1.85		mg/L	100%	0.014	0.028		1
			PO4_P	0.167		mg/L	95%	0.041	0.0815		1
			Sulfate	29.6		mg/L	101%	0.125	0.25		1
5126077	DUP, B31C13 DUP	M6Q381AD	Bromide	0.231 D B		mg/L		0.125	0.25	0.9	2
			Chloride	18.5 D		mg/L		0.2	0.4	0.1	2
			Fluoride	0.507 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	40.0 D		mg/L		0.28	0.56	0.2	20
			Sulfate	65.1 D		mg/L		0.25	0.5	0.7	2
5126077	BLANK,	M6Q461AA	Bromide	<0.0625 U		mg/L		0.0625	0.125		1
			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
			PO4_P	<0.0410 U		mg/L		0.041	0.0815		1
			Sulfate	<0.125 U		mg/L		0.125	0.25		1
5126077	LCS,	M6Q461AC	Bromide	2.37		mg/L	95%	0.0625	0.125		1
			Chloride	3.95		mg/L	99%	0.1	0.2		1
			Fluoride	0.973		mg/L	97%	0.025	0.05		1
			Nitrite as N	0.743		mg/L	98%	0.019	0.038		1
			Nitrate as N	0.538		mg/L	95%	0.014	0.028		1
			PO4_P	1.56		mg/L	95%	0.041	0.0815		1
			Sulfate	4.88		mg/L	98%	0.125	0.25		1

No. of Results: 31

TestAmerica Inc
 rptTALRchQcSummaryC V5.3.6.8
 A2002

B Qual - The analyte was detected at a value less than the reporting limit (RL), but greater than or equal to the MDL.
 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.