

June 28, 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 7 Pages

Report No.: 66234

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.
WC0087	F15-028	B30RP3	J5F090426-1	M61V51AA	M61V51AA	5160081
		B30RP3 DUP	J5F090426-1	M61V51AC	M61V51AC	5160081

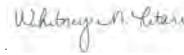
Sample Date: 6/9/2015

Receipt Date: 6/9/2015

Data Deliverable: 6/28/2015

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 Whitney
Ritari
Date: 2015.06.28 20:03:10
-07'00'

Project Manager



Certificate of Analysis

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

June 28, 2015

Attention: Scot Fitzgerald

SAF Number	:	F15-028
Date SDG Closed	:	June 9, 2015
Number of Samples	:	One (1)
Sample Type	:	Water
SDG Number	:	WC0087
Data Deliverable	:	30-Day / Summary

CASE NARRATIVE

I. Introduction

On June 9, 2015, 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 samples were 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

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

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in the "Comments" section.

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.

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.

COLLECTOR
FLOYD

COMPANY CONTACT
 SUMNER, LC

TELEPHONE NO.
 376-3922

PROJECT COORDINATOR
 TODAY, D

PRICE CODE
 7H

DATA TURNAROUND
 30 Days / 30 Days

SAMPLING LOCATION
 C8796, Interval 24 REQ *Just below*

PROJECT DESIGNATION
 100-KE Characterization Boreholes - Water

FIELD LOGBOOK NO.
HWF-N-245-3

ACTUAL SAMPLE DEPTH
 70.06 *ft*

SAF NO.
 FI-5-028

AIR QUALITY

METHOD OF SHIPMENT
 GOVERNMENT VEHICLE

ORIGINAL

ICE CHEST NO.
N/A

OFFSITE PROPERTY NO.
N/A

BILL OF LADING/AIR BILL NO.
N/A

SHIPPED TO
 TestAmerica Incorporated, Richland

MATRIX*
 A=Air
 DL=Drum
 Liquids
 DS=Drum
 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/LATA 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 C86: COMMON;

SPECIAL HANDLING AND/OR STORAGE
~~RETROACTIVE TO NO. B30RP3~~
Set 6/4/15

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B30RP3	WATER	6-9-15	1153

CHAIN OF POSSESSION

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
 TRVL-15-037

RELINQUISHED BY/REMOVED FROM
 D.L. Floyd/CHPRC
 DATE/TIME
 MAY 09 2015 1300

RECEIVED BY/STORED IN
 K.C. Patterson/CHPRC
 DATE/TIME
 MAY 09 2015 1305

RELINQUISHED BY/REMOVED FROM
 K.C. Patterson/CHPRC
 DATE/TIME
 JUN 09 2015 1355

RECEIVED BY/STORED IN
 J. Friesz
 DATE/TIME
 JUN 09 2015 1355

RELINQUISHED BY/REMOVED FROM

RECEIVED BY/STORED IN

RELINQUISHED BY/REMOVED FROM

RECEIVED BY/STORED IN

RELINQUISHED BY/REMOVED FROM

RECEIVED BY/STORED IN

LABORATORY SECTION

RECEIVED BY

DISPOSAL METHOD

DISPOSED BY

DATE/TIME

TITLE
 TRVL - 15 - 037

DATE/TIME



J5F090426
 SDG# WCC0087

June 28 2015

m6lv5

Date/Time Received: 6/9/15 1355 Container GM Screen Result: (Airlock) 40 cpm Initials [JF]
Sample GM Screen Result (Sample Receiving) 0 cpm Initials [JF]

Client: FLH SDG #: WC0087 SAF #: F15-028 NA []

Lot Number: J5F090 ^{JF 6/9/15} J5F090426

Chain of Custody # F15-028-004

Shipping Container ID or Air Bill Number : _____ NA [JF]

Samples received inside shipping container/cooler/box Yes [JF] 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 [JF]
- 2. Custody Seals dated and signed? Yes [] No [] No Custody Seal [JF]
- 3. Cooler temperature: 3.2 ^{on ICE} NA []
- 4. Vermiculite/packing materials is NA [JF] Wet [] Dry []

Item 5 through 16 for samples. Initial appropriate response.

- 5. Chain of Custody record present? Yes [JF] No []
- 6. Number of samples received (Each sample may contain multiple bottles): 1
- 7. Containers received: 1x60ml bag

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

11. Samples:
JF 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 [JF] 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 [JF]
- 14. Description of anomalies (include sample numbers): NA [JF] _____

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

16. Additional Information: N/A

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

Sample Check-in List completed by Sample Custodian:
Signature: _____ Date: 6/9/15

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

JF No action necessary; process as is
Project Manager Steve Cuprum Date 6/10/15

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Sample Results Summary

Date: 28-Jun-15

TestAmerica Inc TARL

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

Report No. : 66234

SDG No: WC0087

Batch Client ID	Date Sampled	Work Order No.	Parameter	Result	Qual	Units	MDL	RL	Date Analyzed	Dil Fct
5160081 7196_CR6 ,WATER										
B30RP3	06/09/15 11:53	M61V51AA	HEXCHROME	<0.00150	U	mg/L	0.0015	0.004	06/09/15 18:00	1

No. of Results: 1

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

Date: 28-Jun-15

Report No. : 66234

SDG No.: WC0087

Batch	Work Work No.	Parameter	Result	Qual	Units	LCS Recovery	MDL	RL	RPD	Dil Fct
7196_CR6										
5160081	DUP, B30RP3 DUP	M61V51AC	HEXCHROME	<0.00150 U	mg/L		0.0015	0.004	-66.7	1
5160081	MS, B31BT9	M61VH1AC	HEXCHROME	0.0512	mg/L	102%	0.0015	0.004		1
5160081	BLANK,	M610F1AA	HEXCHROME	<0.00150 U	mg/L		0.0015	0.004		1
5160081	LCS,	M610F1AC	HEXCHROME	0.263	mg/L	105%	0.0015	0.004		1
No. of Results: 4										