

March 16, 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: TARL

Data Package Contains 7 Pages

Report No.: 65004

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.
WC0018	F13-047	B30C60	J5B120418-1	M56EL1AA	M56EL1AA	5043026
		B30C60 DUP	J5B120418-1	M56EL1AD	M56EL1AD	5043026

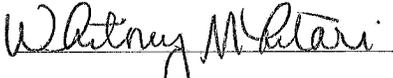
Sample Date: 2/12/2015

Receipt Date: 2/12/2015

Data Deliverable: 3/16/2015

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:

  
Project Manager



## Certificate of Analysis

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

March 16, 2015

Attention: Scot Fitzgerald

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SAF Number	:	F13-047
Date SDG Closed	:	February 12, 2015
Number of Samples	:	One (1)
Sample Type	:	Water
SDG Number	:	WC0018
Data Deliverable	:	30-Day / Summary

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### CASE NARRATIVE

#### I. Introduction

On February 12, 2015, one sample was received at TestAmerica (TARL). Upon receipt, the sample was 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

#### IV. Quality Control

The analytical results for each analysis performed includes a minimum of one laboratory control sample

March 16, 2015

CH2M Hill Plateau Remediation Company  
March 16, 2015

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(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

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.



Date/Time Received: 2-12-15 / 1425 Container GM Screen Result: (Airlock) 0 cpm Initials B  
Sample GM Screen Result (Sample Receiving) 0 cpm Initials B

Client: FLH SDG #: WCC0018 SAF #: F13-047 NA [ ]

Lot Number: JSB120418

Chain of Custody # F13-047-117

Shipping Container ID or Air Bill Number: hand deliv. NA [ ]

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: 5.7 °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: 1 x 60 mL TB

- 8. Sample holding times exceeded? NA [ ] Yes [ ] No B ]
- 9. Samples have: B tape B hazard labels B custody seals B appropriate sample labels
- 10. Matrix: B A (FLT, Wipe, Solid, Soil) B I (Water) B S (Air, Niosh 7400) B T (Biological, Ni-63)
- 11. Samples: B are in good condition B are leaking B are broken  
B have air bubbles (Only for samples requiring no head space) B 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 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: W/A

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

Sample Check-in List completed by Sample Custodian:  
Signature: [Signature] Date: 2-12-15

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

No action necessary; process as is  
Project Manager: [Signature] Date: 2/20/15

March 16, 2015

Sample Results Summary

Date: 16-Mar-15

TestAmerica Inc TARL

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

Report No. : 65004

SDG No: WC0018

Batch Client ID	Date Sampled	Work Order No.	Parameter	Result	Qual	Units	MDL	RL	Date Analyzed	Dil Fct
<b>5043026 7196_CR6 ,WATER</b>										
B30C60	02/12/15 8:22	M56EL1AA	HEXCHROME	<0.00150	U	mg/L	0.0015	0.005	02/12/15 16:55	1

No. of Results: 1

March 16, 2015

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

Date: 16-Mar-15

Report No. : 65004

SDG No.: WC0018

Batch	Work Work No.	Parameter	Result	Qual	Units	LCS Recovery	MDL	RL	RPD	Dil Fct
<b>7196_CR6</b>										
5043026 MS, B30C60	M56EL1AC	HEXCHROME	0.0490		mg/L	98%	0.0015	0.005		1
5043026 DUP, B30C60 DUP	M56EL1AD	HEXCHROME	<0.00150 U		mg/L		0.0015	0.005	0.0	1
5043026 BLANK,	M56E01AA	HEXCHROME	<0.00150 U		mg/L		0.0015	0.005		1
5043026 LCS,	M56E01AC	HEXCHROME	0.256		mg/L	102%	0.0015	0.005		1
No. of Results: 4										