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.: 65754

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.
WC0053	F15-033	B30T30	J5D130420-1	M6K0C1AA	M6K0C1AA	5104027
		B30T30 DUP	J5D130420-1	M6K0C1AD	M6K0C1AD	5104027

Sample Date: 4/13/2015 **Receipt Date:** 4/13/2015 **Data Deliverable:** 5/15/2015

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:

Whitney Mitari

Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

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

May 15, 2015

Attention: Scot Fitzgerald

SAF Number	:	F15-033
Date SDG Closed	:	April 13, 2015
Number of Samples	:	One (1)
Sample Type	:	Water
SDG Number	:	WC0053
Data Deliverable	:	30-Day / Summary

CASE NARRATIVE

I. Introduction

On April 13, 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
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

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 Results Summary

Date: 15-May-15

TestAmerica Inc TARL

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

Report No. : 65754

SDG No: WC0053

Batch Client ID	Date Sampled	Work Order No.	Parameter	Result	Qual	Units	MDL	RL	Date Analyzed	Dil Fct
5104027 300.0_ANIONS_IC ,WATER										
B30T30	04/13/15 13:20	M6K0C1AA	Nitrate as N	**26.4**	**D**	mg/L	0.14	0.28	04/14/15 14:35	10

No. of Results: 1

TestAmerica Inc

D Qual - The reported value is from a dilution

rptTALRchSample
SumC2 V5.3.6.8
A2002

QC Results Summary

Date: 15-May-15

TestAmerica Inc TARL

Ordered by Method, Batch No, QC Type,.

Report No. : 65754

SDG No.: WC0053

Batch	Work Work No.	Parameter	Result	Qual	Units	LCS Recovery	MDL	RL	RPD	Dil Fct
300.0_ANIONS_IC										
5104027 MS, B30T30	M6K0C1AC	Nitrate as N	**2.42**		mg/L	100%	0.014	0.028		1
5104027 DUP, B30T30 DUP	M6K0C1AD	Nitrate as N	**26.4**	D	mg/L		0.14	0.28	0.1	10
5104027 BLANK,	M6K3Q1AA	Nitrate as N	**<0.0140**	U	mg/L		0.014	0.028		1
5104027 LCS,	M6K3Q1AC	Nitrate as N	**0.544**		mg/L	96%	0.014	0.028		1

No. of Results: 4

TestAmerica Inc

rptTALRchQcSummaryC V5.3.6.8
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.

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F15-033-004	PAGE 1 OF 1
COLLECTOR J Aguilar	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR TODAK, D	PRICE CODE 7H AIR QUALITY ☐	DATA TURNAROUND 30 Days / 30 Days
SAMPLING LOCATION C9447, I-001 DUP	PROJECT DESIGNATION 200 East M-24 Wells C9447 & C9448 Sampling and Analysis - Water		SAF NO. F15-033		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-645-2 / Pg 21	ACTUAL SAMPLE DEPTH 305.5"	COA 302898	METHOD OF SHIPMENT GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

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/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

SPECIAL HANDLING AND/OR STORAGE
N/A

PRESERVATION	Cool <=6C
HOLDING TIME	48 Hours
TYPE OF CONTAINER	P
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	300.0_ANIONS_IC: COMMON {Nitrogen in Nitrate};

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B30T30	WATER	4-13-15	13 20	✓

J5D130420
WC0053

mLKOC

J5D130420

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM J Aguilar CHPRC	DATE/TIME 4-13-15 1400	RECEIVED BY/STORED IN C.C. HOFFMAN/CHPRC	DATE/TIME 4-13-15 1400
RELINQUISHED BY/REMOVED FROM C.C. HOFFMAN/CHPRC	DATE/TIME APR 13 2015 1515	RECEIVED BY/STORED IN J. Friesz, TARL	DATE/TIME APR 13 2015 1515
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN JF 4/13/15	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
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
TRVL-15-052; ** Nitrate results are needed within 24 hours to accommodate screen setting. All such requests will be on a separate chain of custody and be assigned a unique sample number.

TRVL-15-052

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 3/12/2015

A-6003-618 (REV 2)

June 18, 2015

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

June 18, 2015

Sample Check-in List

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

Client: FLH SDG #: WC0053 SAF #: F15-033 NA [ ]

Lot Number: JSD130420

Chain of Custody # F15-033-004

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

Samples received inside shipping container/cooler/box Yes [ ] 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 [ ]
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [ ]
3. Cooler temperature: 4.6 °C Ice NA [ ]
4. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [ ] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 1
7. Containers received: 1x500mLP
8. Sample holding times exceeded? NA [ ] Yes [ ] No [ ]
9. Samples have: ____tape ____hazard labels ____custody seals ____appropriate sample labels
10. Matrix: ____A (FLT, Wipe, Solid, Soil) ____I (Water) ____S (Air, Niosh 7400) ____T (Biological, Ni-63)
11. Samples:
____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 [ ] No [ ] NA [ ]
(If acidification is necessary go to pH area & document sample ID, initial pH, amount of HNO_3 added and pH after addition on table)
13. Were any anomalies identified in sample receipt? Yes [ ] No [ ]
14. Description of anomalies (include sample numbers): NA [ ] _____
15. Sample Location, Sample Collector Listed on COC? * Yes [ ] No [ ]
*For documentation only. No corrective action needed.
16. Additional Information: N/A

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

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

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

[ ] No action necessary; process as is

Project Manager Whitney M Lutari Date 4/14/15

LS-023 Rev. 17, 05/13