



TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

W09-012

Lot #: F9B120215
SDG #: SL775A

Mike Neely

CH2M Hill Plateau Remediation
PO Box 1600, MS B6-06
Richland, WA 99352

TESTAMERICA LABORATORIES, INC.

Michael C. Franks
Project Manager

February 23, 2009



THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

CASE NARRATIVE

CH2M Hill Plateau Remediation Company
 P.O. Box 1600
 MSIN B6-06
 Richland, Washington 99352
 February 24, 2009
 Attention: Mike Neely

SDG	:	SL775A
Number of Samples	:	1
Sample Matrix	:	Water
Data Deliverable	:	RDR-R5432
Date SDG Closed	:	February 10, 2009

II. Introduction

On February 10, 2009 data reanalysis orders were received at TestAmerica St. Louis.

III. Analytical Results/ Methodology

The analytical results for this report are presented by analytical test. Each set of data includes sample identification information, analytical results and the appropriate detection limits.

Analyses requested: see attached copies of RDRs

Deviation from Request: No Deviation from requested methods.

IV. Definitions

The following codes are used to denote laboratory quality control samples and can be found in the data summary section of this report:

QCBLK- Quality Control Blank, Method Blank

QCLCS- Quality Control Laboratory Control Sample, Blank Spike

V. Comments

General: The re-analysis request consists of RDR# 090210TASL-R5432. Copies of the requests are included in this package for reference.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluor Hanford, Inc.
February 24, 2009
SDG: SL775A
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TestAmerica Laboratories, Inc.

The term "Detection Limit" used in the analytical data reports refers to either the lab's standard reporting limits or contractually required reporting limits, whichever is applicable.

Oil and Grease Results: The reanalysis of the sample yielded a comparable result to the original analysis.

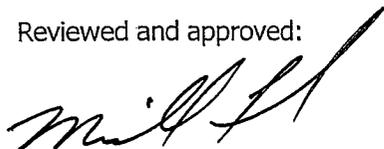
Analysis Comments: The sample was re-analyzed outside the hold time. The results are comparable with the original analysis.

Oil and Grease was detected above the MDL but below the RL in the Method Blank.

The LCS recoveries are outside the upper QC limit, indicating a potential positive bias for that analyte. This analyte was not observed above the reporting limit in the associated sample; therefore the sample data was not adversely affected by this excursion. The sample was consumed and cannot be re-analyzed, however results are consistent with the previous run data on the same sample.

I certify that this Summary Package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. The Laboratory Manager or a designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Reviewed and approved:



Michael Franks
St. Louis Project Manager

02/10/2009

**RECHECK, RECOUNT, OR REANALYSIS ORDER
CONTRACT NO MW6-SBB-A19981****TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63054**

Battelle PNNL Order Number: 090210TASL-R5432

Sample Delivery Group: SL775

Special Instructions None

Samples(s)

Lab Sample ID	PNNL Sample	Action	TAT	METHOD_NAME:
F8L220113002	B1Y018	Reanalysis	15/15	413.1_OILGREASE

Deliver Report Results to: CH2M Hill Plateau Remediation Company

P.O. Box 1600
Mail Stop - B6-06
Richland, WA 99352
C/O Mr. Mike Neely

METHODS SUMMARY

F9B120215

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Oil & Grease (Gravimetric)	MCAWW 413.1	MCAWW 413.1

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.

SAMPLE SUMMARY

F9B120215

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
K6444	001	B1Y018	12/18/08	11:15

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

UPS: Tracking information

[Close Window](#)

Tracking Detail

Your package has been delivered.

Tracking Number: 1Z 943 000 01 4833 053 6
 Type: Package
 Status: **Delivered**
 Delivered On: 12/22/2008 8:28 A.M.
 Signed By: CASTELLO
 Location: DOCK
 Delivered To: EARTH CITY, MO, US
 Shipped/Billed On: 12/18/2008
 Service: NEXT DAY AIR
 Weight: 66.00 Lbs
 Multiple Packages: 3

Package Progress

Location	Date	Local Time	Description
EARTH CITY, MO, US	12/22/2008	8:28 A.M.	DELIVERY
	12/22/2008	12:41 A.M.	OUT FOR DELIVERY
EARTH CITY, MO, US	12/20/2008	8:40 A.M.	DESTINATION SCAN
	12/20/2008	7:22 A.M.	ARRIVAL SCAN
ST. LOUIS, MO, US	12/20/2008	7:06 A.M.	DEPARTURE SCAN
	12/20/2008	6:09 A.M.	ARRIVAL SCAN
LOUISVILLE, KY, US	12/20/2008	5:57 A.M.	DEPARTURE SCAN
	12/20/2008	3:02 A.M.	FORWARDED TO THE FACILITY IN THE DESTINATION CITY
	12/20/2008	2:00 A.M.	ARRIVAL SCAN
SPOKANE, WA, US	12/19/2008	7:34 P.M.	DEPARTURE SCAN
KENNEWICK, WA, US	12/18/2008	6:35 P.M.	ADVERSE WEATHER CONDITIONS / THE MOVEMENT OF THE PACKAGE WILL RESUME AS SOON AS THE WEATHER CONDITIONS ALLOW
	12/18/2008	6:35 P.M.	ORIGIN SCAN

UPS: Tracking information

Page 2 of 2

US 12/18/2008 6:19 P.M. BILLING INFORMATION RECEIVED

Tracking results provided by UPS: 12/23/2008 10:04 A.M. ET

NOTICE: UPS authorizes you to use UPS tracking systems solely to track shipments tendered by or for you to UPS for delivery and for no other purpose. Any other use of UPS tracking systems and information is strictly prohibited.

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Tracking Detail

Your package has been delivered.

Tracking Number: 1Z 943 000 01 4627 852 6
 Type: Package
 Status: **Delivered**
 Delivered On: 12/22/2008 8:28 A.M.
 Signed By: CASTELLO
 Location: DOCK
 Delivered To: EARTH CITY, MO, US
 Shipped/Billed On: 12/18/2008
 Service: NEXT DAY AIR
 Weight: 57.00 Lbs
 Multiple Packages: 3

Package Progress

Location	Date	Local Time	Description
EARTH CITY, MO, US	12/22/2008	8:28 A.M.	DELIVERY
	12/22/2008	12:41 A.M.	OUT FOR DELIVERY
EARTH CITY, MO, US	12/20/2008	8:40 A.M.	DESTINATION SCAN
	12/20/2008	7:22 A.M.	ARRIVAL SCAN
ST. LOUIS, MO, US	12/20/2008	7:06 A.M.	DEPARTURE SCAN
	12/20/2008	6:09 A.M.	ARRIVAL SCAN
LOUISVILLE, KY, US	12/20/2008	5:57 A.M.	DEPARTURE SCAN
	12/20/2008	3:06 A.M.	FORWARDED TO THE FACILITY IN THE DESTINATION CITY
	12/20/2008	2:00 A.M.	ARRIVAL SCAN
SPOKANE, WA, US	12/19/2008	7:34 P.M.	DEPARTURE SCAN
	12/19/2008	7:00 P.M.	ARRIVAL SCAN
	12/19/2008	6:18 P.M.	DEPARTURE SCAN
	12/19/2008	6:01 P.M.	FORWARDED TO THE FACILITY IN THE DESTINATION CITY

UPS: Tracking Information

KENNEWICK, WA, US	12/18/2008	6:30 P.M.	ADVERSE WEATHER CONDITIONS / THE MOVEMENT OF THE PACKAGE WILL RESUME AS SOON AS THE WEATHER CONDITIONS ALLOW
	12/18/2008	6:30 P.M.	ORIGIN SCAN
US	12/18/2008	6:19 P.M.	BILLING INFORMATION RECEIVED

Tracking results provided by UPS: 12/23/2008 10:11 A.M. ET

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113
117
121

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CONDITION UPON RECEIPT FORM

Client: CHLM PR

Quote No: 81622, 81491, 81620

COC/RFA No. see below

Initiated By: BD

Date: 12/22/08

Time: 0630

Shipping Information

Shipper: FedEx UPS DHL Courier Client Other: _____ Multiple Packages: Y N

Shipping # (s):*	Sample Temperature (s):**
1. <u>12943000 014627 6526</u>	1. <u>2</u>
2. <u>↓ 4833 0536</u>	2. <u>2</u>
3. _____	3. _____
4. _____	4. _____
5. _____	5. _____
6. _____	6. _____
7. _____	7. _____
8. _____	8. _____
9. _____	9. _____
10. _____	10. _____

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C. If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1. <input checked="" type="radio"/> Y <input type="radio"/> N	Are there custody seals present on the cooler?	8. <input checked="" type="radio"/> Y <input type="radio"/> N	Are there custody seals present on bottles?
2. <input type="radio"/> Y <input checked="" type="radio"/> N <input type="radio"/> N/A	Do custody seals on cooler appear to be tampered with?	9. <input type="radio"/> Y <input checked="" type="radio"/> N <input type="radio"/> N/A	Do custody seals on bottles appear to be tampered with?
3. <input checked="" type="radio"/> Y <input type="radio"/> N	Were contents of cooler frisked after opening, but before unpacking?	10. <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> N/A	Was sample received with proper pH? (If not, make note below)
4. <input checked="" type="radio"/> Y <input type="radio"/> N	Sample received with Chain of Custody?	11. <input checked="" type="radio"/> Y <input type="radio"/> N	Sample received in proper containers?
5. <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> N/A	Does the Chain of Custody match sample ID's on the container(s)?	12. <input type="radio"/> Y <input checked="" type="radio"/> N <input type="radio"/> N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
6. <input type="radio"/> Y <input checked="" type="radio"/> N	Was sample received broken?	13. <input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Was Internal COC/Workshare received?
7. <input checked="" type="radio"/> Y <input type="radio"/> N	Is sample volume sufficient for analysis?	14. <input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Was pH taken by original TestAmerica lab?

¹ For DOE-AI (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

Notes: Received from UPS, not FedEx

W09-012-199

↓
198
260
346

W09-011-182

F09-012-25

↓
26

Corrective Action:

Client Contact Name: _____
 Sample(s) processed "as is"
 Sample(s) on hold until: _____
Project Management Review: [Signature]

Informed by: _____
If released, notify: _____
Date: 12/22/08

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: F9B120215

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Oil and Grease (Gravimetric)	0.70 B	5.0	mg/L	MCAWW 413.1	02/19-02/20/09	9051395
		Dilution Factor: 1				
		Work Order #: K7H081AA		MB Lot-Sample #: F9B200000-395		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: F9B120215

Matrix.....: WATER

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCNT RECVRY</u>	<u>RPD</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Oil and Grease (Gravimetric)		WO#:K7H081AC-LCS/K7H081AD-LCSD				LCS Lot-Sample#: F9B200000-395		
	100	120 N	mg/L	120		MCAWW 413.1	02/19-02/20/09	9051395
	100	119 N	mg/L	119	0.58	MCAWW 413.1	02/19-02/20/09	9051395
		Dilution Factor: 1						

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.