

SAF-RC-105 ERDF Soil Sampling FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Barry Lawrence T2-03

KW 4/15/11
INITIAL/DATE

COMMENTS:

SDG JP0141

SAF-RC-105

Rad only

Chem only

Rad & Chem

Complete

Partial

Waste Site: ERDF Treated Lead Soil



ANALYTICAL REPORT

Job Number: 280-14000-1

SDG Number: JP0141

Job Description: SAF# RC-105

For:

Washington Closure Hanford
2620 Fermi Avenue
Richland, WA 99354

Attention: Joan H Kessner



Approved for release.
Kae E Yoder
Project Manager II
4/13/2011 4:27 PM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
04/13/2011

The test results in this report relate only to the samples in this report and meet all requirements of NELAP, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.

TestAmerica Denver 4955 Yarrow Street, Arvada, CO 80002

Tel (303) 736-0100 Fax (303) 431-7171 www.testamericainc.com



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CASE NARRATIVE

Client: Washington Closure Hanford

Project: WASHINGTON CLOSURE HANFORD

Report Number: 280-14000-1

SDG #: JP0141

SAF#: RC-105

Date SDG Closed: March 29, 2011

Data Deliverable: 7 Day / Summary

<u>CLIENT ID</u>	<u>LAB ID</u>	<u>ANALYSES REQUESTED</u>	<u>ANALYSES PERFORMED</u>
J1H037	280-14000-1	1311-6010	1311-6010B
J1H038	280-14000-2	1311-6010	1311-6010B

I certify that this data package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed in this Case Narrative. 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 signature on the Report Cover.

With exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. All laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits, with any exceptions noted. Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 3/29/2011; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 2.8 C, 3.7 C and 2.7 C.

TCLP METALS - SW846 1311/6010B - LEAD

The organic prep laboratory noted that the method required particle size reduction for samples J1H037 and J1H038 was performed using the jar crusher.

No anomalies were encountered.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-14000-1

Sdg Number: JP0141

<u>Lab Section</u>	<u>Qualifier</u>	<u>Description</u>
Metals		
	U	Analyzed for but not detected.
	B	Estimated result. Result is less than the RL, but greater than MDL

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-14000-1

Sdg Number: JP0141

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
TCLP Metals (ICP)	TAL DEN	SW846 6010B	
TCLP Extraction	TAL DEN		SW846 1311
Preparation, Total Metals	TAL DEN		SW846 3010A

Lab References:

TAL DEN = TestAmerica Denver

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Washington Closure Hanford

Job Number: 280-14000-1

Sdg Number: JP0141

Method	Analyst	Analyst ID
SW846 6010B	Harre, John K	JKH

SAMPLE SUMMARY

Client: Washington Closure Hanford

Job Number: 280-14000-1

Sdg Number: JP0141

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-14000-1	J1H037	Solid	03/24/2011 1350	03/29/2011 0830
280-14000-2	J1H038	Solid	03/24/2011 1350	03/29/2011 0830

SAMPLE RESULTS

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-14000-1
Sdg Number: JP0141

Client Sample ID: J1H037

Lab Sample ID: 280-14000-1
Client Matrix: Solid

Date Sampled: 03/24/2011 1350
Date Received: 03/29/2011 0830

6010B TCLP Metals (ICP)-TCLP

Analysis Method:	6010B	Analysis Batch:	280-60263	Instrument ID:	MT_025
Prep Method:	3010A	Prep Batch:	280-59992	Lab File ID:	25A3033111.asc
Dilution:	1.0	Leach Batch:	280-59873	Initial Weight/Volume:	10 mL
Analysis Date:	03/31/2011 2023			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 0800				
Leach Date:	03/29/2011 1821				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Lead		0.41	B	0.013	0.50

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-14000-1
Sdg Number: JP0141

Client Sample ID: J1H038

Lab Sample ID: 280-14000-2
Client Matrix: Solid

Date Sampled: 03/24/2011 1350
Date Received: 03/29/2011 0830

6010B TCLP Metals (ICP)-TCLP

Analysis Method:	6010B	Analysis Batch:	280-60263	Instrument ID:	MT_025
Prep Method:	3010A	Prep Batch:	280-59992	Lab File ID:	25A3033111.asc
Dilution:	1.0	Leach Batch:	280-59873	Initial Weight/Volume:	10 mL
Analysis Date:	03/31/2011 2025			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 0800				
Leach Date:	03/29/2011 1821				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Lead		3.1		0.013	0.50

QUALITY CONTROL RESULTS

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-14000-1

Sdg Number: JP0141

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-59873					
LCS 280-59873/2-B	Lab Control Sample	P	Solid	1311	
LB2 280-59873/1-B	TCLP SPLPW Leachate Blank	P	Solid	1311	
280-14000-1	J1H037	P	Solid	1311	
280-14000-2	J1H038	P	Solid	1311	
280-14000-2DU	Duplicate	P	Solid	1311	
280-14000-2MS	Matrix Spike	P	Solid	1311	
Prep Batch: 280-59992					
LCS 280-59873/2-B	Lab Control Sample	P	Solid	3010A	280-59873
LB2 280-59873/1-B	TCLP SPLPW Leachate Blank	P	Solid	3010A	280-59873
280-14000-1	J1H037	P	Solid	3010A	280-59873
280-14000-2	J1H038	P	Solid	3010A	280-59873
280-14000-2DU	Duplicate	P	Solid	3010A	280-59873
280-14000-2MS	Matrix Spike	P	Solid	3010A	280-59873
Analysis Batch: 280-60263					
LCS 280-59873/2-B	Lab Control Sample	P	Solid	6010B	280-59992
LB2 280-59873/1-B	TCLP SPLPW Leachate Blank	P	Solid	6010B	280-59992
280-14000-1	J1H037	P	Solid	6010B	280-59992
280-14000-2	J1H038	P	Solid	6010B	280-59992
280-14000-2DU	Duplicate	P	Solid	6010B	280-59992
280-14000-2MS	Matrix Spike	P	Solid	6010B	280-59992

Report Basis

P = TCLP

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-14000-1
Sdg Number: JP0141

TCLP SPLPW Leachate Blank - Batch: 280-59992

Method: 6010B
Preparation: 3010A
TCLP

Lab Sample ID:	LB2 280-59873/1-B	Analysis Batch:	280-60263	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-59992	Lab File ID:	25A3033111.asc
Dilution:	1.0	Leach Batch:	280-59873	Initial Weight/Volume:	10 mL
Analysis Date:	03/31/2011 2018	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 0800				
Leach Date:	03/29/2011 1821				

Analyte	Result	Qual	MDL	RL
Lead	0.013	U	0.013	0.50

Lab Control Sample - Batch: 280-59992

Method: 6010B
Preparation: 3010A
TCLP

Lab Sample ID:	LCS 280-59873/2-B	Analysis Batch:	280-60263	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-59992	Lab File ID:	25A3033111.asc
Dilution:	1.0	Leach Batch:	280-59873	Initial Weight/Volume:	10 mL
Analysis Date:	03/31/2011 2020	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 0800				
Leach Date:	03/29/2011 1821				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Lead	5.50	5.35	97	80 - 120	

Matrix Spike - Batch: 280-59992

Method: 6010B
Preparation: 3010A
TCLP

Lab Sample ID:	280-14000-2	Analysis Batch:	280-60263	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-59992	Lab File ID:	25A3033111.asc
Dilution:	1.0	Leach Batch:	280-59873	Initial Weight/Volume:	10 mL
Analysis Date:	03/31/2011 2032	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 0800				
Leach Date:	03/29/2011 1821				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Lead	3.1	5.50	8.39	96	80 - 120	

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-14000-1
Sdg Number: JP0141

Duplicate - Batch: 280-59992

Method: 6010B
Preparation: 3010A
TCLP

Lab Sample ID: 280-14000-2
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 03/31/2011 2030
Prep Date: 03/31/2011 0800
Leach Date: 03/29/2011 1821

Analysis Batch: 280-60263
Prep Batch: 280-59992
Leach Batch: 280-59873
Units: mg/L

Instrument ID: MT_025
Lab File ID: 25A3033111.asc
Initial Weight/Volume: 10 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Lead	3.1	3.13	0.04	20	

Analytical Due:

Report Due: 4/5/11 (Rush S by TAT)

Sample Check-in List

Date/Time Received: 3/29/11 830 GM Screen Result 12 microR/hr

Client: Washington Closure Hanford SDG #: JP0141 NA [] SAF #: RC-105 NA []

Job Number: 14000 Chain of Custody # RC-105-025

Shipping Container ID: ERC-99-055 ERC-02-103 WCH-11-027 Air Bill # 794582066099

1. Custody Seals on shipping container intact? NA [] Yes No [] 794582066114
794582066342
2. Custody Seals dated and signed? NA [] Yes [] No []
3. Chain of Custody record present? NA [] Yes [] No []
4. Cooler Temperature °C: 2-8, 3-7, 2-7 NA [] 5. Vermiculite/packing materials is NA [] Wet [] Dry
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? NA [] Yes [] No
8. Samples have:
 - Tape
 - Custody Seals
 - Hazard Labels
 - Appropriate Sample Labels
9. Samples are:
 - In Good Condition
 - Broken
 - Leaking
 - Have Air Bubbles

(Only for samples requiring no head space.)
10. Sample pH taken? NA pH<2 [] pH>2 [] pH>9 [] Amount HNO₃ Added _____
11. Sample Location, Sample Collector Listed? *
*For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [] No
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [Signature] Date: 3/29/11

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[] No action necessary; process as is.

Project Manager [Signature] Date 3/29/11

From: (509) 375-4640
WCH MAILROOM
WASHINGTON CLOSURE HANFORD
2620 FERMI AVE

Origin ID: PSCA



J11151102250225

RICHLAND, WA 99354

Ship Date: 28MAR11
Act/Wgt: 72.0 LB
CAD: 8897843/INET3130

Delivery Address Bar Code



SHIP TO: (303) 736-0100
Sample Recieving
Test America Denver
4955 YARROW ST

BILL SENDER

Ref #
Invoice #
PO #
Dept #

ARVADA, CO 80002

1 of 3

TUE - 29 MAR A1
PRIORITY OVERNIGHT

TRK# 7945 8206 6099

0201

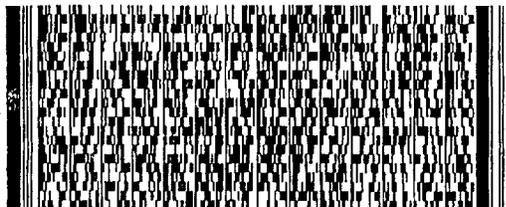
MASTER

80002

CO-US

DEN

XH WHHA



50DG3/26A/7EFB

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WCH MAILROOM
WASHINGTON CLOSURE HANFORD
2620 FERMI AVE

RICHLAND, WA 99354



J11151102250225

Ship Date: 28MAR11
ActWgt: 29.0 LB
CAD: 8897843/INET3130

Delivery Address Bar Code



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Sample Receiving
Test America Denver
4955 YARROW ST

ARVADA, CO 80002

BILL SENDER

Ref #
Invoice #
PO #
Dept #

2 of 3

TUE - 29 MAR A1
PRIORITY OVERNIGHT

MPS# 7945 8206 6114

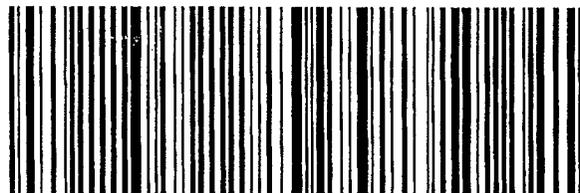
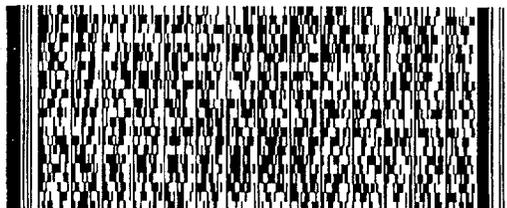
0263

Mstr# 7945 8206 6099

0201

80002
CO-US
DEN

XH WHHA



50DG3/26A8/7EFB

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WCH MAILROOM
WASHINGTON CLOSURE HANFORD
2620 FERMI AVE

RICHLAND, WA 99354



Ship Date: 28MAR11
ActWgt: 87.0 LB
CAD: 8897843/INET3130

Delivery Address Bar Code



SHIP TO: (303) 736-0100
Sample Recieving
Test America Denver
4955 YARROW ST

BILL SENDER

Ref #
Invoice #
PO #
Dept #

ARVADA, CO 80002

3 of 3

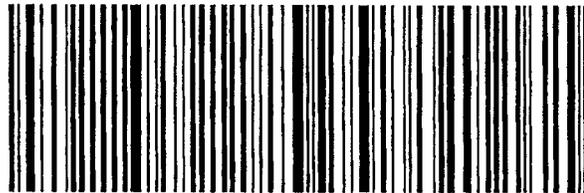
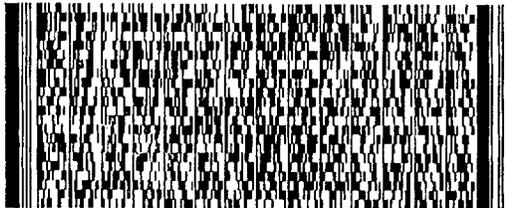
TUE - 29 MAR A1
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0263

Mstr# 7945 8206 6099 0201

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