0077902

SAF-RC-087
618-7 Burial Ground - Soil
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Rick Kerkow	L6-06	KW 6/2/08 Initials/Date
Kathy Wendt	H4-21	KW 6/2/08 Initials/Date

COMMENTS:

SDG J00172 **SAF-RC-087**

Rad only X Chem only Rad & Chem

X Complete Partial

WASTE SITE: 618-7 Burial Ground/Anomalous materials

Analytical Data Package Prepared For

Washington Closure Hanford

Analysis Provided By

TestAmerica Richland
2800 George Washington Way
Richland WA, 99354
(509)375-3131
Assigned Laboratory Code: TALR

SDG Number:J00172

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Washington Closure Hanford
2620 Fermi Avenue
Richland, WA 99354

May 30, 2008

Attention: Joan Kessner

SAF Number	:	RC-087
Date SDG Closed	:	May 22, 2008
Number of Samples	:	Fifteen (15)
Sample Type	:	Soil
SDG Number	:	J00172
Data Deliverable	:	Quick Turn Metals / Summary

CASE NARRATIVE

I. Introduction

On May 22, 2008 TestAmerica received a request to prepare three sets of lead standards. A number of samples received prior to May 22, 2008 were combined into three separate composites. The composites were prepared as follows:

High Level Standard (sample ID J16W83) includes: J16MC0, J16MB9, J16DB6 & J16J62

Medium Level Standard (sample ID J16W84) includes: J16MD4, J16MC6, J16DL5, J16J65, J16MC7 & J16MC2

Low Level Standard (sample ID J16W85) includes: J16DC0, J16MC9, J16MC8, J16J63, J16DL3 & J16DX2

The composites were dried, ball milled overnight and sieved to remove any material greater than 2mm in size.

Five samples from each concentration were analyzed for lead by ICP.

The samples were assigned the following laboratory ID numbers;

WCH ID#	STLR ID#	MATRIX	DATE OF RECEIPT
J16W83-A	KNP0T-A	SOIL	5/22/08
J16W83 -B	KNP0T-B	SOIL	5/22/08
J16W83 -C	KNP0T-C	SOIL	5/22/08
J16W83 -D	KNP0T-D	SOIL	5/22/08
J16W83 -E	KNP0T-E	SOIL	5/22/08
J16W84-A	KNP00-A	SOIL	5/22/08

J16W84-B	KNP00-B	SOIL	5/22/08
J16W84-C	KNP00-C	SOIL	5/22/08
J16W84-D	KNP00-D	SOIL	5/22/08
J16W84-E	KNP00-E	SOIL	5/22/08
J16W85-A	KNP03-A	SOIL	5/22/08
J16W85-B	KNP03-B	SOIL	5/22/08
J16W85-C	KNP03-C	SOIL	5/22/08
J16W85-D	KNP03-D	SOIL	5/22/08
J16W85-E	KNP03-E	SOIL	5/22/08

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:

ICP Metals
ICP Metals by method SW-846 601

IV. Quality Control

SDG J00172 includes a Laboratory Control Samples (LCS) and one method (reagent) blank. A duplicate sample, matrix spike sample and a matrix spike duplicate sample was also analyzed. Any exceptions have been noted in the "Comments" section.

Blanks and LCS are reported in mg/L units, other QC and sample results are reported in the same units.

V. Comments

ICP Metals
Batch 8114551:
The matrix spike recovered low at 51% and the matrix spike duplicate recovered higher at 121%. The amount of spike added to the MS and MSD was insignificant in comparison with the amount of analyte in the sample. Except as noted, the LCS, batch blank, sample, sample duplicate, ICB, ICV, CCB and CCV results are within contractual limits.

Washington Closure Hanford
May 30, 2008

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:

Sandra Seger
Project Manager

TESTAMERICA

SDG Number: J00172
SAF Number: RC-087
Batch Number: 8148344

Sample Number	Client ID	Aliquant	Lead
		sa	mg/sa
J8E280000-179-B		1.000	0.0036
J8E280000-179-C		1.000	0.9649
LCS Recovery %			96.490%
		g	mg/kg
KNP0T-A	J16W83-A	0.54	2078.704
KNP0T-B	J16W83 -B	0.5009	2019.365
KNP0T-C	J16W83 -C	0.5313	2035.573
KNP0T-D	J16W83 -D	0.5346	2061.354
KNP0T-E	J16W83 -E	0.5099	2230.83
KNP00-A	J16W84-A	0.5166	915.1181
KNP00-B	J16W84-B	0.5048	912.8368
KNP00-C	J16W84-C	0.5114	930.1916
KNP00-D	J16W84-D	0.52	882.9808
KNP00-E	J16W84-E	0.5163	847.3756
KNP03-A	J16W85-A	0.5032	670.1113
KNP03-B	J16W85-B	0.5024	578.8217
KNP03-C	J16W85-C	0.5172	626.5468
KNP03-D	J16W85-D	0.5006	670.9948
KNP03-E	J16W85-E	0.5007	641.3022
KNP0T-S		0.5335	2129.335
% Recovery			50.631
KNP0T-D		0.5155	2199.806
% Recovery			121.102

TESTAMERICA

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		RC-087-175	Page 1 of 1
Collector Lab Generated Composites	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator KESSNER, JH	Price Code / Data Turnaround 24 Hours
Project Designation 618-7 Burial Ground - Soil	Sampling Location 618-7 Burial Ground/anomalous materials		SAF No. RC-087	
Ice Chest No. NA	Field Logbook No. NA	COA	Method of Shipment	
Shipped To TestAmerica Incorporated, Richland	Offsite Property No. NA		Bill of Lading/Air Bill No.	

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Radiological and Beryllium contamination

Special Handling and/or Storage

None

Preservation	None										
Type of Container	Zip bag										
No. of Container(s)	5										
Volume	30gm										
SAMPLE ANALYSIS	Metals by ICP - 6010 - Quick Turn (Lead)										
Sample No. / Matrix * / Sample Date / Sample Time											
J16W83 (high) / SOIL / KNPOT											
J16W84 (med) / SOIL / KNP00											
J16W85 (low) / SOIL / KNP03											

CHAIN OF POSSESSION	Sign/Print Names		
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
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

Lab to return to WCH - 5 subfractions of each material for XRF analysis. Identify subfractions as "-A", "-B", etc.

J8E220322
J00172
DUE 5/30/08

Matrix *

S=Soil
SE=Sediment
SO=Solid
SL=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time	
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time	

WCH-EE-011

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XRF LEAD FIELD STANDARDS

Three sets of standards should be prepared, low, medium, and high. We will provide the lab with a number of "containers" to fill and return.

- Prepare a high level sample by combing remaining material from samples J16MC0, J16MB9, J16DB6, and J16J62.
- Prepare a medium level sample by combing remaining material from samples J16MD4, J16MC6, J16DL5, J16J65, J16MC7, & J16MC2.
- Prepare a low level sample by combing remaining material from samples J16DC0, J16MC9, J16MC8, J16J63, J16DL3, & J16DX2.
- Mix thoroughly. If possible run on the "can roller" over night.
- Remove materials > 2mm in size.
- Analyze high, medium, and low level concentrations in quintuplicate (5 times) for total lead.
- Fill and return 5 samples each of the three concentration levels. Actual containers are still TBD but will be defined shortly.

Seger, Sandra

From: Kessner, Joan H [jhkessne@wch-rcc.com]
Sent: Thursday, May 22, 2008 10:17 AM
To: Seger, Sandra
Subject: FW: 618-7 Lead Totals Samples for XRF Confirmation
Attachments: XRF PB FLD STDS.doc

Sandra--
Rich has put together some directions on the making of the XRF lead standards.
Please give me a call if you have any questions.
Thanks.
Joan