0096160

SAF-RC-154
618-10 & 618-11 Field Remediation – Soil In-Process
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt H4-21 KW 5/5/11
INITIAL/DATE

COMMENTS:

SDG J01072 SAF-RC-154

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Sample Location/Waste Site: 618-10 S. Surge Trench Soil

RECEIVED
MAY 11 2011
EDMC

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: TARL

RECEIVED
MAY 2011

SDG Number:J01072

Data Package Contains 17 Pages

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

TestAmerica Laboratories, Inc.

Washington Closure Hanford
2620 Fermi Avenue
Richland, WA 99354

May 3, 2011

Attention: Joan Kessner

SAF Number	:	RC-154
Date SDG Closed	:	April 29, 2011
Number of Samples	:	Nineteen (19)
Sample Type	:	Soil
SDG Number	:	J01072
Data Deliverable	:	Quick Turn Metals / Summary

CASE NARRATIVE

I. Introduction

Between April 4, 2011 and April 28, 2011, nineteen soil samples were received at TestAmerica for ICP metals analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Washington Closure Hanford (WCH) specific ID;

WCH ID#	TARL ID#	MATRIX	DATE OF RECEIPT
J1C168	MGN5N	SOIL	4/07/11
J1C169	MGN5R	SOIL	4/07/11
J1C170	MGN5W	SOIL	4/07/11
J1C171	MGN41	SOIL	4/07/11
J1C172	MGN5C	SOIL	4/07/11
J1C173	MGN5J	SOIL	4/07/11
J1C174	MGN38	SOIL	4/07/11
J1C175	MGN4J	SOIL	4/07/11
J1C176	MGN4L	SOIL	4/07/11
J1HN90	MHM2N	SOIL	4/28/11
J1HN91	MHM2T	SOIL	4/28/11
J1HN92	MHM2W	SOIL	4/28/11
J1HN93	MHM20	SOIL	4/28/11
J1HN94	MHM23	SOIL	4/28/11
J1HN95	MHM26	SOIL	4/28/11
J1HN96	MHM27	SOIL	4/28/11
J1HN97	MHM3A	SOIL	4/28/11
J1HN98	MHM3C	SOIL	4/28/11
J1HN99	MHM3F	SOIL	4/28/11

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 6010A

IV. Quality Control

SDG J01072 includes a minimum of one Laboratory Control Samples (LCS) and one method (reagent) blank. A duplicate sample, matrix spike sample and a matrix spike duplicate sample will be analyzed per 20 samples or per month, whichever is more frequent. 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
ICP Metals by method SW-846 6010A
Two batches were analyzed in April 2011 for samples with the standard metal request list.

Batch 1097423:
Barium exceeded the acceptance criteria in the batch blank; all other batch QC is within the acceptance criteria. Except as noted; the LCS, batch blank, samples, sample duplicate, MS, MSD, ICB, ICV, CCB and CCV results are within contractual limits.

Batch 1119167:
The LCS, batch blank, samples, sample duplicate, MS, MSD, ICB, ICV, CCB and CCV results are within contractual limits.

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:

Rhonda Wagar
Project Manager

SDG: J01072
SAF: RC-154
BATCH: 1097423
MATRIX: SOIL
ANALYSIS DATE: 4/11/11

Client_id	Matrix	Result_type	Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limits_Sa	Reporting_Limits	Uncertainty_1s	Analyzed_sa_si	Analyzed_sa_unit	Decision_level_lc	LCSRecovery	AddedAmount	Analysis_date_time	Batch_nbr	Test_Method	Lab_sample_id
J1C174	SOIL	BS	7440-38-2	Arsenic	2.03E+00		UG/G	3.68E-01	3.68E-01	6.60E-01	0.5023	G	5.47E-01			4/8/2011 17:41	1097423	46DQ	MGN361
J1C174	SOIL	BS	7440-39-3	Barium	6.12E+01		UG/G	5.97E-02	5.97E-02	2.00E+00	0.5023	G	1.67E+00			4/8/2011 17:41	1097423	46DQ	MGN361
J1C174	SOIL	BS	7440-41-7	Beryllium	2.18E-01		UG/G	2.99E-02	2.99E-02	2.00E-02	0.5023	G	1.64E-02			4/8/2011 17:41	1097423	46DQ	MGN361
J1C174	SOIL	BS	7440-43-9	Cadmium	2.92E+00		UG/G	3.98E-02	3.98E-02	6.80E-02	0.5023	G	5.57E-02			4/8/2011 17:41	1097423	46DQ	MGN361
J1C174	SOIL	BS	7440-47-3	Chromium	3.90E+00		UG/G	7.96E-02	7.96E-02	6.50E-01	0.5023	G	5.35E-01			4/8/2011 17:41	1097423	46DQ	MGN361
J1C174	SOIL	BS	7440-22-4	Silver	-4.03E+00	U	UG/G	7.96E-02	7.96E-02	6.80E-01	0.5023	G	5.60E-01			4/8/2011 17:41	1097423	46DQ	MGN361
J1C174	SOIL	BS	7439-92-1	Lead	5.43E+00		UG/G	2.89E-01	2.89E-01	2.90E+00	0.5023	G	2.42E+00			4/8/2011 17:41	1097423	46DQ	MGN361
J1C174	SOIL	BS	7782-49-2	Selenium	1.04E+03		UG/G	5.08E-01	5.08E-01	2.90E+01	0.5023	G	2.40E+01			4/8/2011 17:41	1097423	46DQ	MGN361
J1C170	SOIL	BS	7440-22-4	Ag	-2.67E-02	U	UG/G	5.42E-01	5.42E-01	5.70E-02	0.5072	G	4.72E-02			4/11/2011 8:10	1097423	46DQ	MGN5W1
J1C170	SOIL	BS	7440-38-2	As	1.33E+00	U	UG/G	2.13E+00	2.13E+00	1.50E-01	0.5072	G	1.20E-01			4/11/2011 8:10	1097423	46DQ	MGN5W1
J1C170	SOIL	BS	7440-39-3	Ba	5.39E+01		UG/G	4.44E-01	4.44E-01	2.90E+00	0.5072	G	2.42E+00			4/11/2011 8:10	1097423	46DQ	MGN5W1
J1C170	SOIL	BS	7440-41-7	Beryllium	1.43E-01		UG/G	5.91E-02	5.91E-02	8.10E-03	0.5072	G	6.63E-03			4/11/2011 8:10	1097423	46DQ	MGN5W1
J1C170	SOIL	BS	7440-43-9	Cadmium	-3.99E-02	U	UG/G	8.68E-01	8.68E-01	1.50E-02	0.5072	G	1.22E-02			4/11/2011 8:10	1097423	46DQ	MGN5W1
J1C170	SOIL	BS	7440-47-3	Cr	3.44E+00		UG/G	7.29E-01	7.29E-01	1.90E-01	0.5072	G	1.53E-01			4/11/2011 8:10	1097423	46DQ	MGN5W1
J1C170	SOIL	BS	7439-92-1	Lead	2.50E+00		UG/G	1.72E+00	1.72E+00	5.30E-02	0.5072	G	4.38E-02			4/11/2011 8:10	1097423	46DQ	MGN5W1
J1C170	SOIL	BS	7782-49-2	Se	-3.47E-01	U	UG/G	4.12E+00	4.12E+00	3.10E-01	0.5072	G	2.58E-01			4/11/2011 8:10	1097423	46DQ	MGN5W1
J1C171	SOIL	BS	7440-22-4	Silver	-4.37E+00	U	UG/G	7.99E-02	7.99E-02	2.00E-01	0.5006	G	1.66E-01			4/8/2011 18:12	1097423	46DQ	MGN411
J1C175	SOIL	BS	7440-38-2	Arsenic	1.58E+00		UG/G	3.67E-01	3.67E-01	1.50E+00	0.5044	G	1.22E+00			4/8/2011 18:02	1097423	46DQ	MGN4J1
J1C175	SOIL	BS	7440-39-3	Barium	5.81E+01		UG/G	5.95E-02	5.95E-02	1.80E-01	0.5044	G	1.50E-01			4/8/2011 18:02	1097423	46DQ	MGN4J1
J1C175	SOIL	BS	7440-41-7	Beryllium	2.24E-01		UG/G	2.97E-02	2.97E-02	1.20E-02	0.5044	G	9.78E-03			4/8/2011 18:02	1097423	46DQ	MGN4J1
J1C175	SOIL	BS	7440-43-9	Cadmium	2.95E+00		UG/G	3.97E-02	3.97E-02	1.20E-01	0.5044	G	1.03E-01			4/8/2011 18:02	1097423	46DQ	MGN4J1
J1C175	SOIL	BS	7440-47-3	Chromium	3.74E+00		UG/G	7.93E-02	7.93E-02	2.40E-01	0.5044	G	1.97E-01			4/8/2011 18:02	1097423	46DQ	MGN4J1
J1C175	SOIL	BS	7439-92-1	Lead	4.97E+00		UG/G	2.87E-01	2.87E-01	1.10E+00	0.5044	G	9.21E-01			4/8/2011 18:02	1097423	46DQ	MGN4J1
J1C175	SOIL	BS	7782-49-2	Selenium	1.06E+03		UG/G	5.06E-01	5.06E-01	1.80E+01	0.5044	G	1.49E+01			4/8/2011 18:02	1097423	46DQ	MGN4J1
J1C175	SOIL	BS	7440-22-4	Silver	-4.00E+00	U	UG/G	7.93E-02	7.93E-02	1.60E-01	0.5044	G	1.35E-01			4/8/2011 18:02	1097423	46DQ	MGN4J1
J1C176	SOIL	BS	7440-38-2	Arsenic	-2.98E-02	U	UG/G	3.67E-01	3.67E-01	5.40E-02	0.5042	G	4.40E-02			4/8/2011 18:07	1097423	46DQ	MGN4L1
J1C176	SOIL	BS	7440-39-3	Barium	6.23E+01		UG/G	5.95E-02	5.95E-02	9.80E-01	0.5042	G	8.04E-01			4/8/2011 18:07	1097423	46DQ	MGN4L1
J1C176	SOIL	BS	7440-41-7	Beryllium	2.06E-01		UG/G	2.98E-02	2.98E-02	1.40E-02	0.5042	G	1.14E-02			4/8/2011 18:07	1097423	46DQ	MGN4L1
J1C176	SOIL	BS	7440-43-9	Cadmium	2.96E+00		UG/G	3.97E-02	3.97E-02	8.10E-02	0.5042	G	6.69E-02			4/8/2011 18:07	1097423	46DQ	MGN4L1
J1C176	SOIL	BS	7440-47-3	Chromium	5.35E+00		UG/G	7.93E-02	7.93E-02	7.90E-02	0.5042	G	6.53E-02			4/8/2011 18:07	1097423	46DQ	MGN4L1
J1C176	SOIL	BS	7439-92-1	Lead	4.68E+00		UG/G	2.88E-01	2.88E-01	3.20E+00	0.5042	G	2.62E+00			4/8/2011 18:07	1097423	46DQ	MGN4L1
J1C176	SOIL	BS	7782-49-2	Selenium	6.85E+02	U	UG/G	5.06E-01	5.06E-01	1.20E+03	0.5042	G	9.75E+02			4/8/2011 18:07	1097423	46DQ	MGN4L1
J1C176	SOIL	BS	7440-22-4	Silver	-4.24E+00	U	UG/G	7.93E-02	7.93E-02	1.30E-01	0.5042	G	1.06E-01			4/8/2011 18:07	1097423	46DQ	MGN4L1
J1C172	SOIL	BS	7440-38-2	Arsenic	1.15E+00		UG/G	3.69E-01	3.69E-01	6.20E-01	0.5017	G	5.07E-01			4/8/2011 18:28	1097423	46DQ	MGN5C1
J1C172	SOIL	BS	7440-39-3	Barium	5.59E+01		UG/G	5.98E-02	5.98E-02	3.20E+00	0.5017	G	2.61E+00			4/8/2011 18:28	1097423	46DQ	MGN5C1
J1C172	SOIL	BS	7440-41-7	Beryllium	1.89E-01		UG/G	2.99E-02	2.99E-02	6.00E-03	0.5017	G	4.92E-03			4/8/2011 18:28	1097423	46DQ	MGN5C1
J1C172	SOIL	BS	7440-43-9	Cadmium	2.71E+00		UG/G	3.99E-02	3.99E-02	1.80E-02	0.5017	G	1.48E-02			4/8/2011 18:28	1097423	46DQ	MGN5C1
J1C172	SOIL	BS	7440-47-3	Chromium	3.63E+00		UG/G	7.97E-02	7.97E-02	1.70E-01	0.5017	G	1.41E-01			4/8/2011 18:28	1097423	46DQ	MGN5C1
J1C172	SOIL	BS	7439-92-1	Lead	5.26E+00		UG/G	2.89E-01	2.89E-01	3.00E+00	0.5017	G	2.45E+00			4/8/2011 18:28	1097423	46DQ	MGN5C1
J1C172	SOIL	BS	7782-49-2	Selenium	7.30E-01	U	UG/G	5.08E-01	5.08E-01	1.30E+00	0.5017	G	1.10E+00			4/8/2011 18:28	1097423	46DQ	MGN5C1
J1C172	SOIL	BS	7440-22-4	Silver	-3.44E+00	U	UG/G	7.97E-02	7.97E-02	2.90E-01	0.5017	G	2.34E-01			4/8/2011 18:28	1097423	46DQ	MGN5C1
J1C173	SOIL	BS	7440-38-2	Arsenic	9.76E-01	U	UG/G	3.69E-01	3.69E-01	3.40E+00	0.5009	G	2.82E+00			4/8/2011 18:33	1097423	46DQ	MGN5J1
J1C173	SOIL	BS	7440-39-3	Barium	6.35E+01		UG/G	5.99E-02	5.99E-02	7.70E-01	0.5009	G	6.32E-01			4/8/2011 18:33	1097423	46DQ	MGN5J1
J1C173	SOIL	BS	7440-41-7	Beryllium	1.48E-01		UG/G	2.99E-02	2.99E-02	4.20E-02	0.5009	G	3.45E-02			4/8/2011 18:33	1097423	46DQ	MGN5J1
J1C173	SOIL	BS	7440-43-9	Cadmium	2.17E+00		UG/G	3.99E-02	3.99E-02	4.10E-01	0.5009	G	3.38E-01			4/8/2011 18:33	1097423	46DQ	MGN5J1
J1C173	SOIL	BS	7440-47-3	Chromium	1.70E+00		UG/G	7.99E-02	7.99E-02	1.60E+00	0.5009	G	1.35E+00			4/8/2011 18:33	1097423	46DQ	MGN5J1
J1C173	SOIL	BS	7439-92-1	Lead	2.95E+00		UG/G	2.89E-01	2.89E-01	1.60E+00	0.5009	G	1.28E+00			4/8/2011 18:33	1097423	46DQ	MGN5J1
J1C173	SOIL	BS	7782-49-2	Selenium	3.60E+02	U	UG/G	5.09E-01	5.09E-01	1.20E+03	0.5009	G	1.02E+03			4/8/2011 18:33	1097423	46DQ	MGN5J1
J1C173	SOIL	BS	7440-22-4	Silver	-4.01E+00	U	UG/G	7.99E-02	7.99E-02	2.90E+00	0.5009	G	2.35E+00			4/8/2011 18:33	1097423	46DQ	MGN5J1
J1C168	SOIL	BS	7440-38-2	Arsenic	1.11E+01	U	UG/G	3.69E-01	3.69E-01	1.70E+01	0.5014	G	1.38E+01			4/8/2011 18:38	1097423	46DQ	MGN5N1
J1C168	SOIL	BS	7440-39-3	Barium	1.35E+01	U	UG/G	5.98E-02	5.98E-02	2.70E+01	0.5014	G	2.21E+01			4/8/2011 18:38	1097423	46DQ	MGN5N1
J1C168	SOIL	BS	7440-41-7	Beryllium	1.67E+00	U	UG/G	2.99E-02	2.99E-02	3.80E+00	0.5014	G	3.11E+00			4/8/2011 18:38	1097423	46DQ	MGN5N1
J1C168	SOIL	BS	7440-43-9	Cadmium	8.99E+00	U	UG/G	3.99E-02	3.99E-02	2.00E+01	0.5014	G	1.65E+01			4/8/2011 18:38	1097423	46DQ	MGN5N1
J1C168	SOIL	BS	7440-47-3	Chromium	3.18E+01	U	UG/G	7.98E-02	7.98E-02	7.20E+01	0.5014	G	5.92E+01			4/8/2011 18:38	1097423	46DQ	MGN5N1
J1C168	SOIL	BS	7439-92-1	Lead	2.35E+00	U	UG/G	2.89E-01	2.89E-01	1.00E+01	0.5014	G	8.36E+00			4/8/2011 18:38	1097423	46DQ	MGN5N1
J1C168	SOIL	BS	7782-49-2	Selenium	7.00E+03	U	UG/G	5.09E-01	5.09E-01	1.20E+04	0.5014	G	9.95E+03			4/8/2011 18:38	1097423	46DQ	MGN5N1
J1C168	SOIL	BS	7440-22-4	Silver	1.13E+01	U	UG/G	7.98E-02	7.98E-02	3.90E+01	0.5014	G	3.21E+01			4/8/2011 18:38	1097423	46DQ	MGN5N1
J1C169	SOIL	BS	7440-38-2	Arsenic	3.18E+00	U	UG/G	3.69E-01	3.69E-01	1.00E+01	0.5018	G	8.32E+00			4/8/2011 18:44	1097423	46DQ	MGN5R1
J1C169	SOIL	BS	7440-39-3	Barium	5.76E+01		UG/G	5.98E-02	5.98E-02	1.20E+01	0.5018	G	9.51E+00			4/8/2011 18:44	1097423	46DQ	MGN5R1
J1C169	SOIL	BS	7440-41-7	Beryllium	3.26E-01	U	UG/G	2.99E-02	2.99E-02	5.40E-01	0.5018	G	4.43E-01			4/8/2011 18:44	1097423	46DQ	MGN5R1
J1C169	SOIL	BS	7440-43-9	Cadmium	3.58E+00		UG/G	3.99E-02	3.99E-02	2.50E+00	0.5018	G	2.05E+00			4/8/2011 18:44	1097423	46DQ	MGN5R1
J1C169	SOIL	BS	7440-47-3	Chromium	6.85E+00	U	UG/G	7.97E-02	7.97E-02	1.40E+01	0.5018	G	1.13E+01			4/8/2011 18:44	1097423	46DQ	MGN5R1
J1C169	SOIL	BS	7439-92-1	Lead	4.76E+00		UG/G	2.89E-01	2.89E-01	4.70E+00	0.5018	G	3.88E+00			4/8/2011 18:44	1097423	46DQ	MGN5R1
J1C169	SOIL	BS	7782-49-2	Selenium	1.08E+03		UG/G	5.08E-01	5.08E-01	1.70E+02	0.5018	G	1.37E+02			4/8/2011 18:44	1097423	46DQ	MGN5R1
J1C169	SOIL	BS	7440-22-4	Silver	2.81E+00	U	UG/G	7.97E-02	7.97E-02	2.70E+01	0.5018	G	2.19E+01			4/8/2011 18:44	1097423	46DQ	MGN5R1
INTRA-LAB BL	SOIL	BLK	7440-38-2	Arsenic	4.67E-03	U	MG/L			1.10E-02		L	9.10E-03			4/8/2011 17:30	1097423	46DQ	MGPVW1B
INTRA-LAB BL	SOIL	BLK	7440-39-3	Barium	6.05E-02		MG/L			2.50E-03		L	2.09E-03			4/8/2011 17:30	1097423	46DQ	MGPVW1B
INTRA-LAB BL	SOIL	BLK	7440-41-7	Beryllium	-6.00E-05	U	MG/L			3.40E-04		L	2.80E-04			4/8/2011 17:30	1097423	46DQ	MGPVW1B
INTRA-LAB BL	SOIL	BLK	7440-43-9	Cadmium	7.20E-04	U	MG/L			8.80E-04		L	7.24E-04			4/8/2011 17:30	1097423	46DQ	MGPVW1B
INTRA-LAB BL	SOIL	BLK	7440-47-3	Chromium	-5.10E-04	U	MG/L			3.50E-03		L	2.86E-03			4/8/2011 17:30	1097423	46DQ	MGPVW1B
INTRA-LAB BL	SOIL	BLK	7439-92-1	Lead	1.90E-02	U	MG/L			4.30E-02		L	3.50E-02			4/8/2011 17:30	1097423	46DQ	MGPVW1B
INTRA-LAB BL	SOIL	BLK	7782-49-2	Selenium	3.12E+00	U	MG/L			1.10E+01		L	8.89E+00			4/8/2011 17:30	1097423	46DQ	MGPVW1B
INTRA-LAB BL	SOIL	BLK	7440-22-4	Silver	-7.90E-04	U	MG/L			1.90E-03		L	1.58E-03			4/8/2011 17:30	1097423	46DQ	MGPVW1B
INTRA-LAB CH	SOIL	LCS	7440-38-2	Arsenic	9.80E-01		MG/L			1.90E-02		L	1.55E-02	0.98	1	4/8/2011 17:35	1097423	46DQ	MGPVW1C
INTRA-LAB CH	SOIL	LCS	7440-39-3	Barium	8.85E-01		MG/L			2.30E-03		L	1.88E-03	0.88	1	4/8/2011 17:35	1097423	46DQ	MGPVW1C
INTRA-LAB CH	SOIL	LCS	7440-41-7	Beryllium	9.87E-01		MG/L			4.00E-03		L	3.32E-03	0.99	1	4/8/2011 17:35	1097423	46DQ	MGPVW1C
INTRA-LAB CH	SOIL	LCS	7440-43-9	Cadmium	9.65E-01		MG/L			6.60E-03		L	5.43E-03	0.96	1	4/8/2011 17:35	1097423	46DQ	MGPVW1C
INTRA-LAB CH	SOIL	LCS	7440-47-3	Chromium	8.88E-01		MG/L			5.30E-03		L	4.36E-03	0.89	1	4/8/2011 17:35	1097423	46DQ	MGPVW1C

Client_id	Matrix	Result_type	Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limits_Sa	Reporting_Limits	Uncertainty_1s	Analyzed_sa_si	Analyzed_sa_unit	Decision_level_lc	LCSRecovery	AddedAmount	Analysis_date_time	Batch_nbr	Test_Method	Lab_sample_id
INTRA-LAB CH	SOIL	LCS	7439-92-1	Lead	9.41E-01		MG/L			2.40E-02		L	1.94E-02	0.94	1	4/8/2011 17:35	1097423	46DQ	MGPVW1C
INTRA-LAB CH	SOIL	LCS	7782-49-2	Selenium	3.11E-01		MG/L			2.30E-03		L	1.91E-03	0.31	1	4/8/2011 17:35	1097423	46DQ	MGPVW1C
INTRA-LAB CH	SOIL	LCS	7440-22-4	Silver	9.62E-01		MG/L			3.30E-03		L	2.68E-03	0.96	1	4/8/2011 17:35	1097423	46DQ	MGPVW1C
J1C174 DUP	SOIL	DUP	7429-90-5	Aluminum	4.07E+01		UG/G	1.31E-02	1.31E-02	2.40E+00		G	2.01E+00			4/8/2011 11:36	1097423	46DQ	MGN381X
J1C174 DUP	SOIL	DUP	7440-38-2	Arsenic	8.62E+00	U	UG/G	3.70E-01	3.70E-01	2.30E+01	0.5002	G	1.87E+01			4/8/2011 17:56	1097423	46DQ	MGN381X
J1C174 DUP	SOIL	DUP	7440-39-3	Barium	6.32E+01		UG/G	6.00E-02	6.00E-02	3.20E+01	0.5002	G	2.62E+01			4/8/2011 17:56	1097423	46DQ	MGN381X
J1C174 DUP	SOIL	DUP	7440-41-7	Beryllium	5.10E-01	U	UG/G	3.00E-02	3.00E-02	8.40E-01	0.5002	G	6.91E-01			4/8/2011 17:56	1097423	46DQ	MGN381X
J1C174 DUP	SOIL	DUP	7440-43-9	Cadmium	4.55E+00	U	UG/G	4.00E-02	4.00E-02	5.60E+00	0.5002	G	4.63E+00			4/8/2011 17:56	1097423	46DQ	MGN381X
J1C174 DUP	SOIL	DUP	7440-47-3	Chromium	1.45E+01	U	UG/G	8.00E-02	8.00E-02	3.50E+01	0.5002	G	2.85E+01			4/8/2011 17:56	1097423	46DQ	MGN381X
J1C174 DUP	SOIL	DUP	7440-50-8	Copper	1.41E-01		UG/G	1.00E-03	1.00E-03	9.70E-03		G	8.01E-03			4/8/2011 11:36	1097423	46DQ	MGN381X
J1C174 DUP	SOIL	DUP	7439-89-6	Iron	2.60E+02		UG/G	8.28E-02	8.28E-02	1.10E+01		G	9.14E+00			4/8/2011 11:36	1097423	46DQ	MGN381X
J1C174 DUP	SOIL	DUP	7439-92-1	Lead	4.89E+00		UG/G	2.90E-01	2.90E-01	4.40E+00	0.5002	G	3.66E+00			4/8/2011 17:56	1097423	46DQ	MGN381X
J1C174 DUP	SOIL	DUP	7782-49-2	Selenium	5.66E-06	U	UG/G	5.10E-03	5.10E-03	5.50E-06		G	4.52E-06			4/8/2011 11:36	1097423	46DQ	MGN381X
J1C174 DUP	SOIL	DUP	7440-22-4	Silver	1.29E+01	U	UG/G	8.00E-02	8.00E-02	5.80E+01	0.5002	G	4.73E+01			4/8/2011 17:56	1097423	46DQ	MGN381X
J1C174 DUP	SOIL	DUP	7440-66-6	Zinc	4.68E-01		UG/G	6.70E-02	6.70E-02	2.50E-03		G	2.07E-03			4/8/2011 11:36	1097422	46DQ	MGN381X
J1C174	SOIL	MSD	7440-38-2	Arsenic	9.88E+01		% Rec	3.69E-01	3.69E-01	2.90E+00	0.5018	L	2.39E+00	98.8	1	4/8/2011 17:51	1097423	46DQ	MGN381D
J1C174	SOIL	MSD	7440-39-3	Barium	8.79E+01		% Rec	5.98E-02	5.98E-02	3.90E+00	0.5018	L	3.24E+00	87.91	1	4/8/2011 17:51	1097423	46DQ	MGN381D
J1C174	SOIL	MSD	7440-41-7	Beryllium	1.01E+02		% Rec	2.99E-02	2.99E-02	6.70E-01	0.5018	L	5.51E-01	100.98	1	4/8/2011 17:51	1097423	46DQ	MGN381D
J1C174	SOIL	MSD	7440-43-9	Cadmium	1.01E+02		% Rec	3.99E-02	3.99E-02	6.40E-01	0.5018	L	5.29E-01	101.23	1	4/8/2011 17:51	1097423	46DQ	MGN381D
J1C174	SOIL	MSD	7440-47-3	Chromium	9.39E+01		% Rec	7.97E-02	7.97E-02	1.60E+00	0.5018	L	1.28E+00	93.93	1	4/8/2011 17:51	1097423	46DQ	MGN381D
J1C174	SOIL	MSD	7439-92-1	Lead	1.00E+02		% Rec	2.89E-01	2.89E-01	3.80E+00	0.5018	L	3.15E+00	100.11	1	4/8/2011 17:51	1097423	46DQ	MGN381D
J1C174	SOIL	MSD	7782-49-2	Selenium	-1.01E+03	U	% Rec	5.08E-01	5.08E-01	3.10E-01	0.5018	L	2.59E-01			4/8/2011 17:51	1097423	46DQ	MGN381D
J1C174	SOIL	MSD	7440-22-4	Silver	9.85E+01		% Rec	7.97E-02	7.97E-02	1.30E+00	0.5018	L	1.05E+00	98.52	1	4/8/2011 17:51	1097423	46DQ	MGN381D
J1C174	SOIL	MS	7440-38-2	Arsenic	9.53E+01		% Rec	3.67E-01	3.67E-01	3.80E+00	0.5047	L	3.14E+00	95.33	1	4/8/2011 17:46	1097423	46DQ	MGN381S
J1C174	SOIL	MS	7440-39-3	Barium	1.03E+02		% Rec	5.94E-02	5.94E-02	2.00E+00	0.5047	L	1.68E+00	103.22	1	4/8/2011 17:46	1097423	46DQ	MGN381S
J1C174	SOIL	MS	7440-41-7	Beryllium	9.78E+01		% Rec	2.97E-02	2.97E-02	9.20E-01	0.5047	L	7.55E-01	97.8	1	4/8/2011 17:46	1097423	46DQ	MGN381S
J1C174	SOIL	MS	7440-43-9	Cadmium	1.00E+02		% Rec	3.96E-02	3.96E-02	1.10E+00	0.5047	L	8.87E-01	100.13	1	4/8/2011 17:46	1097423	46DQ	MGN381S
J1C174	SOIL	MS	7440-47-3	Chromium	9.52E+01		% Rec	7.93E-02	7.93E-02	6.70E-01	0.5047	L	5.54E-01	95.19	1	4/8/2011 17:46	1097423	46DQ	MGN381S
J1C174	SOIL	MS	7439-92-1	Lead	1.00E+02		% Rec	2.87E-01	2.87E-01	1.40E+00	0.5047	L	1.15E+00	99.96	1	4/8/2011 17:46	1097423	46DQ	MGN381S
J1C174	SOIL	MS	7782-49-2	Selenium	-1.00E+03	U	% Rec	5.05E-01	5.05E-01	2.10E+00	0.5047	L	1.70E+00			4/8/2011 17:46	1097423	46DQ	MGN381S
J1C174	SOIL	MS	7440-22-4	Silver	9.94E+01		% Rec	7.93E-02	7.93E-02	3.90E-01	0.5047	L	3.24E-01	99.38	1	4/8/2011 17:46	1097423	46DQ	MGN381S

SDG: J01072
SAF: RC-154
BATCH: 1119167
MATRIX: SOIL
ANALYSIS DATE: 4/28/11

Client_id	Matrix	Result_type	Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limits_Sample	Reporting_Limits	Uncertainty_1s	Analyzed_sa_size	Analyzed_sa_unit	Decision_level_c	LCSRecovery	AddedAmount	Analysis_date_time	Batch_nbr	Test_Method	Lab_sample_id
J1HN90	SOIL		7440-22-4	Ag	-9.73E-01	U	UG/G	1.11E+00	1.11E+00	3.10E-01	0.2473	G	2.53E-01			4/28/2011 22:58	1119167	46DQ	MHM2N1A0
J1HN90	SOIL		7440-38-2	As	1.63E+00	U	UG/G	4.37E+00	4.37E+00	6.80E-01	0.2473	G	5.58E-01			4/28/2011 22:58	1119167	46DQ	MHM2N1A0
J1HN90	SOIL		7440-39-3	Ba	5.77E+01		UG/G	9.10E-01	9.10E-01	1.10E+00	0.2473	G	8.84E-01			4/28/2011 22:58	1119167	46DQ	MHM2N1A0
J1HN90	SOIL		7440-41-7	Beryllium	1.34E-01		UG/G	1.21E-01	1.21E-01	5.00E-03	0.2473	G	4.13E-03			4/28/2011 22:58	1119167	46DQ	MHM2N1A0
J1HN90	SOIL		7440-43-9	Cadmium	1.11E-01	U	UG/G	1.78E+00	1.78E+00	9.30E-02	0.2473	G	7.68E-02			4/28/2011 22:58	1119167	46DQ	MHM2N1A0
J1HN90	SOIL		7440-47-3	Cr	2.94E+01		UG/G	1.50E+00	1.50E+00	5.00E-01	0.2473	G	4.12E-01			4/28/2011 22:58	1119167	46DQ	MHM2N1A0
J1HN90	SOIL		7439-92-1	Lead	2.46E+00	U	UG/G	3.52E+00	3.52E+00	2.00E-01	0.2473	G	1.68E-01			4/28/2011 22:58	1119167	46DQ	MHM2N1A0
J1HN90	SOIL		7782-49-2	Se	4.55E-01	U	UG/G	8.45E+00	8.45E+00	8.00E-01	0.2473	G	6.56E-01			4/28/2011 22:58	1119167	46DQ	MHM2N1A0
J1HN91	SOIL		7440-22-4	Ag	-9.34E-01	U	UG/G	1.12E+00	1.12E+00	3.50E-01	0.2459	G	2.87E-01			4/28/2011 23:12	1119167	46DQ	MHM2T1AA
J1HN91	SOIL		7440-38-2	As	1.74E+00	U	UG/G	4.39E+00	4.39E+00	8.50E-01	0.2459	G	6.96E-01			4/28/2011 23:12	1119167	46DQ	MHM2T1AA
J1HN91	SOIL		7440-39-3	Ba	5.46E+01		UG/G	9.15E-01	9.15E-01	1.20E+00	0.2459	G	9.50E-01			4/28/2011 23:12	1119167	46DQ	MHM2T1AA
J1HN91	SOIL		7440-41-7	Beryllium	1.43E-01		UG/G	1.22E-01	1.22E-01	6.80E-03	0.2459	G	5.62E-03			4/28/2011 23:12	1119167	46DQ	MHM2T1AA
J1HN91	SOIL		7440-43-9	Cadmium	1.05E-01	U	UG/G	1.79E+00	1.79E+00	7.60E-02	0.2459	G	6.28E-02			4/28/2011 23:12	1119167	46DQ	MHM2T1AA
J1HN91	SOIL		7440-47-3	Cr	3.54E+00		UG/G	1.50E+00	1.50E+00	4.10E-01	0.2459	G	3.40E-01			4/28/2011 23:12	1119167	46DQ	MHM2T1AA
J1HN91	SOIL		7439-92-1	Lead	2.57E+00	U	UG/G	3.54E+00	3.54E+00	1.50E-01	0.2459	G	1.24E-01			4/28/2011 23:12	1119167	46DQ	MHM2T1AA
J1HN91	SOIL		7782-49-2	Se	7.20E-01	U	UG/G	8.50E+00	8.50E+00	4.70E-01	0.2459	G	3.88E-01			4/28/2011 23:12	1119167	46DQ	MHM2T1AA
J1HN92	SOIL		7440-22-4	Ag	-8.20E-01	U	UG/G	1.09E+00	1.09E+00	2.30E-01	0.2527	G	1.87E-01			4/28/2011 23:15	1119167	46DQ	MHM2W1AA
J1HN92	SOIL		7440-38-2	As	2.06E+00	U	UG/G	4.27E+00	4.27E+00	4.00E-01	0.2527	G	3.29E-01			4/28/2011 23:15	1119167	46DQ	MHM2W1AA
J1HN92	SOIL		7440-39-3	Ba	6.19E+01		UG/G	8.90E-01	8.90E-01	8.70E-01	0.2527	G	7.18E-01			4/28/2011 23:15	1119167	46DQ	MHM2W1AA
J1HN92	SOIL		7440-41-7	Beryllium	1.59E-01		UG/G	1.19E-01	1.19E-01	5.80E-03	0.2527	G	4.78E-03			4/28/2011 23:15	1119167	46DQ	MHM2W1AA
J1HN92	SOIL		7440-43-9	Cadmium	9.11E-02	U	UG/G	1.74E+00	1.74E+00	4.40E-02	0.2527	G	3.64E-02			4/28/2011 23:15	1119167	46DQ	MHM2W1AA
J1HN92	SOIL		7440-47-3	Cr	5.34E+00		UG/G	1.46E+00	1.46E+00	8.90E-02	0.2527	G	7.31E-02			4/28/2011 23:15	1119167	46DQ	MHM2W1AA
J1HN92	SOIL		7439-92-1	Lead	2.86E+00	U	UG/G	3.44E+00	3.44E+00	1.70E-01	0.2527	G	1.39E-01			4/28/2011 23:15	1119167	46DQ	MHM2W1AA
J1HN92	SOIL		7782-49-2	Se	8.08E-01	U	UG/G	8.27E+00	8.27E+00	8.70E-01	0.2527	G	7.15E-01			4/28/2011 23:15	1119167	46DQ	MHM2W1AA
J1HN93	SOIL		7440-22-4	Ag	-9.08E-01	U	UG/G	1.10E+00	1.10E+00	1.60E-01	0.2496	G	1.34E-01			4/28/2011 23:17	1119167	46DQ	MHM201AA
J1HN93	SOIL		7440-38-2	As	2.04E+00	U	UG/G	4.33E+00	4.33E+00	6.30E-01	0.2496	G	5.17E-01			4/28/2011 23:17	1119167	46DQ	MHM201AA
J1HN93	SOIL		7440-39-3	Ba	7.23E+01		UG/G	9.01E-01	9.01E-01	4.00E-01	0.2496	G	3.30E-01			4/28/2011 23:17	1119167	46DQ	MHM201AA
J1HN93	SOIL		7440-41-7	Beryllium	1.97E-01		UG/G	1.20E-01	1.20E-01	1.60E-02	0.2496	G	1.30E-02			4/28/2011 23:17	1119167	46DQ	MHM201AA
J1HN93	SOIL		7440-43-9	Cadmium	9.65E-02	U	UG/G	1.76E+00	1.76E+00	5.40E-02	0.2496	G	4.48E-02			4/28/2011 23:17	1119167	46DQ	MHM201AA
J1HN93	SOIL		7440-47-3	Cr	6.42E+00		UG/G	1.48E+00	1.48E+00	1.90E-01	0.2496	G	1.55E-01			4/28/2011 23:17	1119167	46DQ	MHM201AA
J1HN93	SOIL		7439-92-1	Lead	3.15E+00	U	UG/G	3.49E+00	3.49E+00	1.00E-01	0.2496	G	8.61E-02			4/28/2011 23:17	1119167	46DQ	MHM201AA
J1HN93	SOIL		7782-49-2	Se	7.85E-01	U	UG/G	8.37E+00	8.37E+00	4.10E-01	0.2496	G	3.35E-01			4/28/2011 23:17	1119167	46DQ	MHM201AA
J1HN94	SOIL		7440-22-4	Ag	-9.60E-01	U	UG/G	1.09E+00	1.09E+00	7.80E-02	0.2523	G	6.42E-02			4/28/2011 23:24	1119167	46DQ	MHM231AA
J1HN94	SOIL		7440-38-2	As	1.57E+00	U	UG/G	4.28E+00	4.28E+00	3.60E-01	0.2523	G	3.00E-01			4/28/2011 23:24	1119167	46DQ	MHM231AA
J1HN94	SOIL		7440-39-3	Ba	6.17E+01		UG/G	8.92E-01	8.92E-01	1.00E+00	0.2523	G	8.32E-01			4/28/2011 23:24	1119167	46DQ	MHM231AA
J1HN94	SOIL		7440-41-7	Beryllium	1.78E-01		UG/G	1.19E-01	1.19E-01	4.60E-03	0.2523	G	3.76E-03			4/28/2011 23:24	1119167	46DQ	MHM231AA
J1HN94	SOIL		7440-43-9	Cadmium	1.16E-01	U	UG/G	1.74E+00	1.74E+00	1.20E-02	0.2523	G	9.55E-03			4/28/2011 23:24	1119167	46DQ	MHM231AA
J1HN94	SOIL		7440-47-3	Cr	5.13E+00		UG/G	1.47E+00	1.47E+00	1.10E-02	0.2523	G	9.07E-03			4/28/2011 23:24	1119167	46DQ	MHM231AA
J1HN94	SOIL		7439-92-1	Lead	3.55E+00		UG/G	3.45E+00	3.45E+00	3.30E-01	0.2523	G	2.74E-01			4/28/2011 23:24	1119167	46DQ	MHM231AA
J1HN94	SOIL		7782-49-2	Se	7.70E-01	U	UG/G	8.28E+00	8.28E+00	3.00E-01	0.2523	G	2.48E-01			4/28/2011 23:24	1119167	46DQ	MHM231AA
J1HN95	SOIL		7440-22-4	Ag	-8.82E-01	U	UG/G	1.10E+00	1.10E+00	9.10E-02	0.2511	G	7.46E-02			4/28/2011 23:27	1119167	46DQ	MHM261AA
J1HN95	SOIL		7440-38-2	As	2.59E+00	U	UG/G	4.30E+00	4.30E+00	3.80E-01	0.2511	G	3.11E-01			4/28/2011 23:27	1119167	46DQ	MHM261AA
J1HN95	SOIL		7440-39-3	Ba	5.76E+01		UG/G	8.96E-01	8.96E-01	4.30E-01	0.2511	G	3.50E-01			4/28/2011 23:27	1119167	46DQ	MHM261AA
J1HN95	SOIL		7440-41-7	Beryllium	1.76E-01		UG/G	1.19E-01	1.19E-01	6.60E-03	0.2511	G	5.41E-03			4/28/2011 23:27	1119167	46DQ	MHM261AA
J1HN95	SOIL		7440-43-9	Cadmium	9.57E-02	U	UG/G	1.75E+00	1.75E+00	2.80E-02	0.2511	G	2.27E-02			4/28/2011 23:27	1119167	46DQ	MHM261AA
J1HN95	SOIL		7440-47-3	Cr	4.63E+00		UG/G	1.47E+00	1.47E+00	1.20E-01	0.2511	G	9.52E-02			4/28/2011 23:27	1119167	46DQ	MHM261AA
J1HN95	SOIL		7439-92-1	Lead	3.27E+00	U	UG/G	3.46E+00	3.46E+00	3.60E-01	0.2511	G	2.93E-01			4/28/2011 23:27	1119167	46DQ	MHM261AA
J1HN95	SOIL		7782-49-2	Se	1.01E+00	U	UG/G	8.32E+00	8.32E+00	1.10E+00	0.2511	G	8.95E-01			4/28/2011 23:27	1119167	46DQ	MHM261AA
J1HN96	SOIL		7440-22-4	Ag	-9.60E-01	U	UG/G	1.10E+00	1.10E+00	8.40E-02	0.2507	G	6.92E-02			4/28/2011 23:34	1119167	46DQ	MHM271AA
J1HN96	SOIL		7440-38-2	As	1.89E+00	U	UG/G	4.31E+00	4.31E+00	2.70E-01	0.2507	G	2.19E-01			4/28/2011 23:34	1119167	46DQ	MHM271AA
J1HN96	SOIL		7440-39-3	Ba	8.22E+01		UG/G	8.97E-01	8.97E-01	1.20E+00	0.2507	G	1.02E+00			4/28/2011 23:34	1119167	46DQ	MHM271AA
J1HN96	SOIL		7440-41-7	Beryllium	2.02E-01		UG/G	1.20E-01	1.20E-01	6.20E-03	0.2507	G	5.08E-03			4/28/2011 23:34	1119167	46DQ	MHM271AA
J1HN96	SOIL		7440-43-9	Cadmium	1.04E-01	U	UG/G	1.76E+00	1.76E+00	3.80E-02	0.2507	G	3.12E-02			4/28/2011 23:34	1119167	46DQ	MHM271AA
J1HN96	SOIL		7440-47-3	Cr	5.56E+00		UG/G	1.48E+00	1.48E+00	6.60E-02	0.2507	G	5.40E-02			4/28/2011 23:34	1119167	46DQ	MHM271AA
J1HN96	SOIL		7439-92-1	Lead	3.28E+00	U	UG/G	3.47E+00	3.47E+00	5.90E-01	0.2507	G	4.82E-01			4/28/2011 23:34	1119167	46DQ	MHM271AA
J1HN96	SOIL		7782-49-2	Se	7.33E-01	U	UG/G	8.34E+00	8.34E+00	5.00E-01	0.2507	G	4.09E-01			4/28/2011 23:34	1119167	46DQ	MHM271AA
J1HN97	SOIL		7440-22-4	Ag	-8.91E-01	U	UG/G	1.07E+00	1.07E+00	3.80E-01	0.2559	G	3.09E-01			4/28/2011 23:36	1119167	46DQ	MHM3A1AA
J1HN97	SOIL		7440-38-2	As	1.50E+00	U	UG/G	4.22E+00	4.22E+00	5.40E-01	0.2559	G	4.45E-01			4/28/2011 23:36	1119167	46DQ	MHM3A1AA
J1HN97	SOIL		7440-39-3	Ba	6.54E+01		UG/G	8.79E-01	8.79E-01	1.30E+00	0.2559	G	1.06E+00			4/28/2011 23:36	1119167	46DQ	MHM3A1AA
J1HN97	SOIL		7440-41-7	Beryllium	1.86E-01		UG/G	1.17E-01	1.17E-01	2.10E-03	0.2559	G	1.72E-03			4/28/2011 23:36	1119167	46DQ	MHM3A1AA
J1HN97	SOIL		7440-43-9	Cadmium	1.12E-01	U	UG/G	1.72E+00	1.72E+00	2.30E-02	0.2559	G	1.92E-02			4/28/2011 23:36	1119167	46DQ	MHM3A1AA
J1HN97	SOIL		7440-47-3	Cr	4.72E+00		UG/G	1.45E+00	1.45E+00	9.90E-02	0.2559	G	8.12E-02			4/28/2011 23:36	1119167	46DQ	MHM3A1AA
J1HN97	SOIL		7439-92-1	Lead	3.00E+00	U	UG/G	3.40E+00	3.40E+00	4.50E-01	0.2559	G	3.74E-01			4/28/2011 23:36	1119167	46DQ	MHM3A1AA
J1HN97	SOIL		7782-49-2	Se	9.94E-01	U	UG/G	8.17E+00	8.17E+00	5.20E-01	0.2559	G	4.25E-01			4/28/2011 23:36	1119167	46DQ	MHM3A1AA
J1HN98	SOIL		7440-22-4	Ag	-1.07E+00	U	UG/G	1.11E+00	1.11E+00	2.30E-01	0.2481	G	1.88E-01			4/28/2011 23:39	1119167	46DQ	MHM3C1AA
J1HN98	SOIL		7440-38-2	As	1.94E+00	U	UG/G	4.35E+00	4.35E+00	1.70E-01	0.2481	G	1.37E-01			4/28/2011 23:39	1119167	46DQ	MHM3C1AA
J1HN98	SOIL		7440-39-3	Ba	5.38E+01		UG/G	9.07E-01	9.07E-01	1.20E+00	0.2481	G	9.48E-01			4/28/2011 23:39	1119167	46DQ	MHM3C1AA
J1HN98	SOIL		7440-41-7	Beryllium	1.79E-01		UG/G	1.21E-01	1.21E-01	5.20E-03	0.2481	G	4.31E-03			4/28/2011 23:39	1119167	46DQ	MHM3C1AA
J1HN98	SOIL		7440-43-9	Cadmium	1.11E-01	U	UG/G	1.77E+00	1.77E+00	5.00E-02	0.2481	G	4.11E-02			4/28/2011 23:39	1119167	46DQ	MHM3C1AA
J1HN98	SOIL		7440-47-3	Cr	5.27E+00		UG/G	1.49E+00	1.49E+00	2.40E-01	0.2481	G	1.95E-01			4/28/2011 23:39	1119167	46DQ	MHM3C1AA
J1HN98	SOIL		7439-92-1	Lead	2.92E+00	U	UG/G	3.51E+00	3.51E+00	1.00E-01	0.2481	G	8.45E-02			4/28/2011 23:39	1119167	46DQ	MHM3C1AA
J1HN98	SOIL		7782-49-2	Se	2.94E-01	U	UG/G	8.42E+00	8.42E+00	4.40E-01	0.2481	G	3.63E-01			4/28/2011 23:39	1119167	46DQ	MHM3C1AA
J1HN99	SOIL		7440-22-4	Ag	-9.85E-01	U	UG/G	1.09E+00	1.09E+00	5.40E-02	0.2532	G	4.41E-02			4/28/2011 23:41	1119167	46DQ	MHM3F1AC
J1HN99	SOIL		7440-38-2	As	2.00E+00	U	UG/G	4.27E+00	4.27E+00	2.60E-01	0.2532	G	2.13E-01			4/28/2011 23:41	1119167	46DQ	MHM3F1AC
J1HN99	SOIL		7440-39-3	Ba	9.28E+01		UG/G	8.89E-01	8.89E-01	1.80E+00	0.2532	G	1.45E+00			4/28/2011 23:41	1119167	46DQ	MHM3F1AC
J1HN99	SOIL		7440-41-7	Beryllium	1.92E-01		UG/G	1.18E-01	1.18E-01	1.60E-02	0.2532	G	1.30E-02			4/28/2011 23:41	1119167	46DQ	MHM3F1AC
J1HN99	SOIL		7440-43-9	Cadmium	1.06E-01	U	UG/G	1.74E+00	1.74E+00	2.30E-02	0.2532	G	1.91E-02			4/28/2011 23:41	1119167	46DQ	MHM3F1AC
J1HN99	SOIL		7440-47-3	Cr	5.08E+00		UG/G	1.46E+00	1.46E+00	1.50E-01	0.2532	G	1.23E-01			4/28/2011 23:41	1119167	46DQ	MHM3F1AC
J1HN99	SOIL		7439-92-1	Lead	3.44E+00		UG/G	3.44E+00	3.44E+00	6.60E-02	0.2532	G	5.42E-02			4/28/2011 23:41	1119167	46DQ	MHM3F1AC
J1HN99	SOIL		7782-49-2	Se	8.86E-01	U	UG/G	8.25E+00	8.25E+00	3.50E-01	0.2532	G	2.90E-01			4/28/2011 23:41	1119167	46DQ	MHM3F1AC
INTRA-LAE	SOIL	BLK	7440-22-4	Ag	-6.38E-01	U	MG/L	1.09E+00	1.09E+00	2.00E-01	0.2522	L	1.68E-01			4/28/2011 22:53	1119167	46DQ	MHNF61AA
INTRA-LAE	SOIL	BLK	7440-38-2	As	-3.14E-01	U	MG/L	4.28E+00	4.28E+00	3.40E-01	0.2522	L	2.78E-01			4/28/2011 22:53	1119167	46DQ	MHNF61AA
INTRA-LAE	SOIL	BLK	7440-39-3	Ba	2.11E-02	U	MG/L	8.92E-01	8.92E-01	1.00E-02	0.2522	L	8.57E-03			4/28/2011 22:53	1119167	46DQ	MHNF61AA
INTRA-LAE	SOIL	BLK	7440-41-7	Beryllium	-4.74E-02	U	MG/L	1.19E-01	1.19E-01	4.60E-03	0.2522	L	3.78E-03			4/28/2011 22:53	1119167	46DQ	MHNF61AA
INTRA-LAE	SOIL	BLK	7440-43-9	Cadmium	-2.97E-02	U	MG/L	1.74E+00	1.74E+00	3.40E-02	0.2522	L	2.82E-02			4/28/2011 22:53	1119167	46DQ	MHNF61AA
INTRA-LAE	SOIL	BLK	7440-47-3	Cr	-6.30E-02	U	MG/L	1.47E+00	1.47E+00	1.00E-01	0.2522	L	8.39E-02			4/28/2011 22:53	1119167	46DQ	MHNF61AA
INTRA-LAE	SOIL	BLK	7439-92-1	Lead	1.95E-01	U	MG/L	3.45E+00	3.45E+00	3.40E-02	0.2522	L	2.81E-02			4/28/2011 22:53	1119167	46DQ	MHNF61AA
INTRA-LAE	SOIL	BLK	7782-49-2	Se	-1.59E-01	U	MG/L	8.29E+00	8.29E+00	5.00E-01	0.2522	L	4.12E-01			4/28/2011 22:53	1119167	46DQ	MHNF61AA
INTRA-LAE	SOIL	LCS	7440-22-4	Ag	1.85E+02		MG/L	1.08E+00	1.08E+00	3.60E+00	0.2538	L	2.92E+00	0.94	197	4/28/2011 22:56	1119167	46DQ	MHNF61AA
INTRA-LAE	SOIL	LCS	7440-38-2	As	1.88E+02		MG/L	4.26E+00	4.26E+00	1.70E+00	0.2538	L	1.39E+00	0.95	197	4/28/2011 22:56	1119167	46DQ	MHNF61AA
INTRA-LAE	SOIL	LCS	7440-39-3	Ba	1.89E+02		MG/L	8.87E-01	8.87E-01	4.70E+00	0.2538	L	3.83E+00	0.96	197	4/28/2011 22:56	1119167	46DQ	MHNF61AA

Client_id	Matrix	Result_type	Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limits_Sample	Reporting_Limits	Uncertainty_1s	Analyzed_sa_size	Analyzed_sa_unit	Decision_level_lc	LCSRecovery	AddedAmount	Analysis_date_time	Batch_nbr	Test_Method	Lab_sampe_id
INTRA-LAE	SOIL	LCS	7440-41-7	Beryllium	1.96E+02		MG/L	1.18E-01	1.18E-01	3.20E+00	0.2538	L	2.67E+00	0.99	197	4/28/2011 22:56	1119167	46DQ	MHNF61AA
INTRA-LAE	SOIL	LCS	7440-43-9	Cadmium	1.82E+02		MG/L	1.73E+00	1.73E+00	3.60E-01	0.2538	L	2.94E-01	0.92	197	4/28/2011 22:56	1119167	46DQ	MHNF61AA
INTRA-LAE	SOIL	LCS	7440-47-3	Cr	1.89E+02		MG/L	1.46E+00	1.46E+00	3.70E+00	0.2538	L	3.03E+00	0.96	197	4/28/2011 22:56	1119167	46DQ	MHNF61AA
INTRA-LAE	SOIL	LCS	7439-92-1	Lead	1.79E+02		MG/L	3.43E+00	3.43E+00	3.00E-01	0.2538	L	2.47E-01	0.91	197	4/28/2011 22:56	1119167	46DQ	MHNF61AA
INTRA-LAE	SOIL	LCS	7782-49-2	Se	1.84E+02		MG/L	8.23E+00	8.23E+00	1.10E+00	0.2538	L	9.16E-01	0.93	197	4/28/2011 22:56	1119167	46DQ	MHNF61AA
J1HN90 DI	SOIL	DUP	7440-22-4	Ag	-1.11E+00	U	UG/G	1.11E+00	1.11E+00	1.40E-01	0.2469	G	1.19E-01			4/28/2011 23:10	1119167	46DQ	MHM2N1A0
J1HN90 DI	SOIL	DUP	7440-38-2	As	1.99E+00	U	UG/G	4.37E+00	4.37E+00	1.90E-01	0.2469	G	1.55E-01			4/28/2011 23:10	1119167	46DQ	MHM2N1A0
J1HN90 DI	SOIL	DUP	7440-39-3	Ba	7.86E+01		UG/G	9.11E-01	9.11E-01	1.00E+00	0.2469	G	8.51E-01			4/28/2011 23:10	1119167	46DQ	MHM2N1A0
J1HN90 DI	SOIL	DUP	7440-41-7	Beryllium	1.78E-01		UG/G	1.22E-01	1.22E-01	1.20E-02	0.2469	G	9.86E-03			4/28/2011 23:10	1119167	46DQ	MHM2N1A0
J1HN90 DI	SOIL	DUP	7440-43-9	Cadmium	1.04E-01	U	UG/G	1.78E+00	1.78E+00	5.30E-02	0.2469	G	4.36E-02			4/28/2011 23:10	1119167	46DQ	MHM2N1A0
J1HN90 DI	SOIL	DUP	7440-47-3	Cr	3.27E+00		UG/G	1.50E+00	1.50E+00	2.70E-01	0.2469	G	2.25E-01			4/28/2011 23:10	1119167	46DQ	MHM2N1A0
J1HN90 DI	SOIL	DUP	7439-92-1	Lead	2.40E+00	U	UG/G	3.52E+00	3.52E+00	7.00E-01	0.2469	G	5.76E-01			4/28/2011 23:10	1119167	46DQ	MHM2N1A0
J1HN90 DI	SOIL	DUP	7782-49-2	Se	7.35E-01	U	UG/G	8.46E+00	8.46E+00	5.80E-01	0.2469	G	4.81E-01			4/28/2011 23:10	1119167	46DQ	MHM2N1A0
J1HN90	SOIL	MS	7440-22-4	Ag	1.80E+02		% REC	1.09E+00	1.09E+00	2.40E+00	0.2512	L	1.99E+00	0.91	199	4/28/2011 23:05	1119167	46DQ	MHM2N1A0
J1HN90	SOIL	MS	7440-38-2	As	1.87E+02		% REC	4.30E+00	4.30E+00	1.20E+00	0.2512	L	9.73E-01	0.94	199	4/28/2011 23:05	1119167	46DQ	MHM2N1A0
J1HN90	SOIL	MS	7440-39-3	Ba	1.85E+02		% REC	8.96E-01	8.96E-01	5.70E+00	0.2512	L	4.65E+00	0.93	199	4/28/2011 23:05	1119167	46DQ	MHM2N1A0
J1HN90	SOIL	MS	7440-41-7	Beryllium	1.95E+02		% REC	1.19E-01	1.19E-01	3.90E+00	0.2512	L	3.23E+00	0.98	198.9	4/28/2011 23:05	1119167	46DQ	MHM2N1A0
J1HN90	SOIL	MS	7440-43-9	Cadmium	1.81E+02		% REC	1.75E+00	1.75E+00	8.90E-01	0.2512	L	7.30E-01	0.91	199	4/28/2011 23:05	1119167	46DQ	MHM2N1A0
J1HN90	SOIL	MS	7440-47-3	Cr	1.56E+02		% REC	1.47E+00	1.47E+00	3.90E+00	0.2512	L	3.22E+00	0.78	199	4/28/2011 23:05	1119167	46DQ	MHM2N1A0
J1HN90	SOIL	MS	7439-92-1	Lead	1.72E+02		% REC	3.46E+00	3.46E+00	1.60E+00	0.2512	L	1.31E+00	0.87	199	4/28/2011 23:05	1119167	46DQ	MHM2N1A0
J1HN90	SOIL	MS	7782-49-2	Se	1.83E+02		% REC	8.32E+00	8.32E+00	1.30E+00	0.2512	L	1.09E+00	0.92	199	4/28/2011 23:05	1119167	46DQ	MHM2N1A0
J1HN90	SOIL	MSD	7440-22-4	Ag	1.96E+02		% REC	1.11E+00	1.11E+00	2.70E+00	0.248	L	2.20E+00	0.97	201.6	4/28/2011 23:07	1119167	46DQ	MHM2N1A0
J1HN90	SOIL	MSD	7440-38-2	As	2.03E+02		% REC	4.35E+00	4.35E+00	1.00E+00	0.248	L	8.31E-01	1.01	201.6	4/28/2011 23:07	1119167	46DQ	MHM2N1A0
J1HN90	SOIL	MSD	7440-39-3	Ba	2.04E+02		% REC	9.07E-01	9.07E-01	4.60E+00	0.248	L	3.80E+00	1.01	201.6	4/28/2011 23:07	1119167	46DQ	MHM2N1A0
J1HN90	SOIL	MSD	7440-41-7	Beryllium	2.12E+02		% REC	1.21E-01	1.21E-01	2.30E+00	0.248	L	1.92E+00	1.05	201.6	4/28/2011 23:07	1119167	46DQ	MHM2N1A0
J1HN90	SOIL	MSD	7440-43-9	Cadmium	1.96E+02		% REC	1.77E+00	1.77E+00	2.10E-01	0.248	L	1.72E-01	0.97	201.6	4/28/2011 23:07	1119167	46DQ	MHM2N1A0
J1HN90	SOIL	MSD	7440-47-3	Cr	1.72E+02		% REC	1.49E+00	1.49E+00	3.50E+00	0.248	L	2.88E+00	0.85	201.6	4/28/2011 23:07	1119167	46DQ	MHM2N1A0
J1HN90	SOIL	MSD	7439-92-1	Lead	1.86E+02		% REC	3.51E+00	3.51E+00	8.40E-01	0.248	L	6.89E-01	0.92	201.6	4/28/2011 23:07	1119167	46DQ	MHM2N1A0
J1HN90	SOIL	MSD	7782-49-2	Se	1.99E+02		% REC	8.43E+00	8.43E+00	1.40E+00	0.248	L	1.15E+00	0.99	201.6	4/28/2011 23:07	1119167	46DQ	MHM2N1A0

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

CHEMISTRY, First/Second Level Review

4/19/2011 12:04:13 PM

Lot No., Due Date: J1D070508; 04/08/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1097423; M6010_S 6010A
SDG, Matrix: J01072; SOIL

1.0 Initial Calibration				
1.1 Performed at required frequency with required number of levels?	Yes ✓	No	N/A	2nd ✓
1.2 Correlation coefficient within QC limits?	Yes ✓	No	N/A	2nd ✓
1.3 Initial calibration verification (ICV) analyzed immediately after calibration and results within QC limits?	Yes ✓	No	N/A	2nd ✓
1.4 Initial calibration blank (ICB) analyzed immediately after ICV and concentrations of all parameters <= reporting limit?	Yes ✓	No	N/A	2nd ✓
2.0 Continuing Calibration				
2.1 CCV analyzed at required frequency and all parameters within QC limits?	Yes ✓	No	N/A	2nd ✓
2.2 CCB analyzed at required frequency and all results <= reporting limit?	Yes ✓	No	N/A	2nd ✓
3.0 Sample Analysis				
3.1 Were any samples with concentration above the linear range for any parameter diluted and reanalyzed?	Yes ✓	No	N/A	2nd ✓
3.2 Were all sample holding times met?	Yes ✓	No	N/A	2nd ✓
4.0 QC Samples				
4.1 All results for the preparation blank below limits?	Yes	No ✓	N/A	2nd ✓
4.2 MS or MS/MSD recoveries within QC limits and %RPD for MSD acceptable?	Yes ✓	No	N/A	2nd ✓
4.3 LCS precent recovery within QC limits and %RPD for LCSD acceptable?	Yes ✓	No	N/A	2nd ✓
4.4 Analytical spikes within QC limits where applicable?	Yes ✓	No	N/A	2nd ✓
4.5 ICP only: One serial dilution performed per SDG?	Yes ✓	No	N/A	2nd ✓
4.6 ICP only: CRDL standard (CRI or CRA) analyzed at required frequency?	Yes	No	N/A ✓	2nd ✓
4.7 ICP only: Interference check samples (ICSA,ICSAB) and HICAL analyzed at the required frequencies and within QC limits?	Yes ✓	No	N/A	2nd ✓
5.0 Other				
5.1 Are all nonconformances included and noted?	Yes ✓	No	N/A	2nd ✓
5.2 Is the correct date and time of analysis shown?	Yes ✓	No	N/A	2nd ✓
5.3 Did the analyst sign and date the front page of the analytical run?	Yes	No	N/A ✓	2nd ✓
5.4 Correct methodology used?	Yes ✓	No	N/A	2nd ✓
5.5 Transcriptions checked?	Yes ✓	No	N/A	2nd ✓
5.6 Calculations checked at minimum frequency?	Yes ✓	No	N/A	2nd ✓
5.7 Units checked?	Yes ✓	No	N/A	2nd ✓

First Level [signature] **Date** 4/19/11 **Second** [signature] **Date** 4-19-11

Clouseau
Nonconformance Memo

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NCM #: **10-18152**
NCM Initiated By: David Smith
Date Opened: 04/19/2011
Date Closed:

Classification: **Deficiency**
Status: **PMREVIEW**
Production Area: Classical Chemistry
Tests: 6010A
Lot #'s (Sample #'s): J1D070000 (423), J1D070508 (1,2,3,4,5,6,7,8,9),
QC Batches: 1097423,

Nonconformance: Batch Result Out of Limits
Subcategory: Blank activity exceeds RDL

Problem Description / Root Cause

Name	Date	Description
David Smith	04/19/2011	The lab blank value for Ba exceeded the check limit.

Corrective Action

Name	Date	Corrective Action
David Smith	04/19/2011	Report Data.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

Verified By	Due Date	Status	Notes
		This section not yet completed by QA.	

Approval History

Date Approved	Approved By	Position

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Data Review/Verification Checklist

CHEMISTRY, First/Second Level Review

4/29/2011 11:45:04 AM

Lot No., Due Date: J1D280607; 04/29/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1119167; M6010_S 6010A
SDG, Matrix: J01077; SOIL

1.0 Initial Calibration

1.1 Performed at required frequency with required number of levels?	Yes ✓	No	N/A	2nd ✓
1.2 Correlation coefficient within QC limits?	Yes ✓	No	N/A	2nd ✓
1.3 Initial calibration verification (ICV) analyzed immediately after calibration and results within QC limits?	Yes ✓	No	N/A	2nd ✓
1.4 Initial calibration blank (ICB) analyzed immediately after ICV and concentrations of all parameters <= reporting limit?	Yes ✓	No	N/A	2nd ✓

2.0 Continuing Calibration

2.1 CCV analyzed at required frequency and all parameters within QC limits?	Yes ✓	No	N/A	2nd ✓
2.2 CCB analyzed at required frequency and all results <= reporting limit?	Yes ✓	No	N/A	2nd ✓

3.0 Sample Analysis

3.1 Were any samples with concentration above the linear range for any parameter diluted and reanalyzed?	Yes	No ✓	N/A	2nd ✓
3.2 Were all sample holding times met?	Yes ✓	No	N/A	2nd ✓

4.0 QC Samples

4.1 All results for the preparation blank below limits?	Yes ✓	No	N/A	2nd ✓
4.2 MS or MS/MSD recoveries within QC limits and %RPD for MSD acceptable?	Yes ✓	No	N/A	2nd ✓
4.3 LCS precent recovery within QC limits and %RPD for LCSD acceptable?	Yes ✓	No	N/A	2nd ✓
4.4 Analytical spikes within QC limits where applicable?	Yes ✓	No	N/A	2nd ✓
4.5 ICP only: One serial dilution performed per SDG?	Yes ✓	No	N/A	2nd ✓
4.6 ICP only: CRDL standard (CRI or CRA) analyzed at required frequency?	Yes	No	N/A ✓	2nd ✓
4.7 ICP only: Interference check samples (ICSA,ICSAB) and HICAL analyzed at the required frequencies and within QC limits	Yes ✓	No	N/A	2nd ✓

5.0 Other

5.1 Are all nonconformances included and noted?	Yes	No	N/A ✓	2nd ✓
5.2 Is the correct date and time of analysis shown?	Yes ✓	No	N/A	2nd ✓
5.3 Did the analyst sign and date the front page of the analytical run?	Yes	No	N/A ✓	2nd ✓
5.4 Correct methodology used?	Yes ✓	No	N/A	2nd ✓
5.5 Transcriptions checked?	Yes ✓	No	N/A	2nd ✓
5.6 Calculations checked at minimum frequency?	Yes ✓	No	N/A	2nd ✓
5.7 Units checked?	Yes ✓	No	N/A	2nd ✓

First Level [signature] Date 4-29-11 Second [signature] Date 4/29/11

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		RC-154-043	Page 1 of 1
Collector Orozco, L.	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator KESSNER, JH	Price Code SU 4/7/11 ~~8E~~ 2A Data Turnaround SU 4/7/11 ~~21 Days~~ 24 hour
Project Designation 618-10 & 618-11 Field Remediation - Soil In-Process	Sampling Location 618-10 N. Surge Trench Soil		SAF No. RC-154	
Ice Chest No. N/A	Field Logbook No. EL-1648-1	COA S618DTY000	Method of Shipment Gov Vehicle	
Shipped To TestAmerica Incorporated, Richland	Offsite Property No. N/A		Bill of Lading/Air Bill No. N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

~~None~~ SU 4/7/11

Cool 4°C

Preservation	Cool 4C
Type of Container	G/P
No. of Container(s)	1
Volume	60mL
SAMPLE ANALYSIS	See item (1) in Special Instructions.

J1D070508

J1D070508
SDG 001072
Due - 4-08-11

Sample No.	Matrix *	Sample Date	Sample Time										
J1C168	SOIL	4/7/11	0815	✓		MGINSN							
J1C169	SOIL	4/7/11	0819	✓		MGINSR							
J1C170	SOIL	4/7/11	0823	✓		MGINSW							

CHAIN OF POSSESSION — **Sign/Print Names**

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Loren Orozco Lon Orozco	0904 4/7/11	S.Van Den Hende	4/7/11 0904
S.Van Den Hende WCH	4/7/11 1015	[illegible]	1015 4.7.11

SPECIAL INSTRUCTIONS

(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}; Metals by ICP - 6010 - Quick Turn (Add On) {Beryllium}

REVIEWED BY JEB DATE 4-7-11

REVIEWED BY JEB DATE 4-7-11

Matrix *
S=Soil
SE=Sediment
SO=Solid
SI=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

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		RC-154-044	Page 1 of 1
Collector Orozco, L.	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator KESSNER, JH	Price Code SU 4/7/11 ~~8L~~ 2A Data Turnaround SU 4/7/11 ~~21 Days~~ 24 hour
Project Designation 618-10 & 618-11 Field Remediation - Soil In-Process	Sampling Location 618-10 N. Surge Trench Soil		SAF No. RC-154	
Ice Chest No. N/A	Field Logbook No. EL-1648-1	COA S618DTY000	Method of Shipment Gov Vehicle	
Shipped To TestAmerica Incorporated, Richland	Offsite Property No. N/A		Bill of Lading/Air Bill No. N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

~~None~~ SU 4/7/11
Cool 4°C

Preservation	Cool 4C
Type of Container	G/P
No. of Container(s)	1
Volume	60mL

J1D070508

SAMPLE ANALYSIS

See item (1) in Special Instructions.

Sample No.	Matrix *	Sample Date	Sample Time										
J1C171	SOIL	4/7/11	0826	✓			MGN41						
J1C172	SOIL	4/7/11	0829	✓			MGN5C						
J1C173	SOIL	4/7/11	0831	✓			MGN5J						

CHAIN OF POSSESSION — **Sign/Print Names**

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Longa Orozco Longa Orozco	0904 4/7/11	S.VanDenHende	4/7/11 0904
S.VanDenHende WCH	4/7/11 1015	Angel Caro	4.7.11 1015

SPECIAL INSTRUCTIONS

(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}; Metals by ICP - 6010 - Quick Turn (Add On) {Beryllium}

J1D070508
SDGJ01072
Q# 6010 Quick Turn.

REVIEWED BY JEB DATE 4-7-11

Matrix *
S=Soil
SE=Sediment
SO=Solid
SI=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

TestAmerica Laboratories, Inc.

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		RC-154-045	Page 1 of 1
Collector: Orozco, L.	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH	Price Code: ~~8L~~ 2A (SW 4/7/11)
Project Designation: 618-10 & 618-11 Field Remediation - Soil In-Process	Sampling Location: 618-10 N. Surge Trench Soil		SAF No.: RC-154	Data Turnaround: ~~21 Days~~ 24 hour (SW 4/7/11)
Ice Chest No.: N/A	Field Logbook No.: EL-1648-1	COA: S618DTY000	Method of Shipment: Gov Vehicle	
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: N/A		Bill of Lading/Air Bill No.: N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

~~None~~ SW 4/7/11
Cool 4°C

Preservation	Cool 4C										
Type of Container	G/P										
No. of Container(s)	1										
Volume	60mL										
SAMPLE ANALYSIS	See item (1) in Special Instructions										

J1D070508

Sample No.	Matrix *	Sample Date	Sample Time										
J1C174	SOIL	4/7/11	0834	✓			MGN38						
J1C175	SOIL	4/7/11	0837	✓			MGN45						
J1C176	SOIL	4/7/11	0841	✓			MGN41						

CHAIN OF POSSESSION — **Sign/Print Names**

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Lorenzo Orozco	0904 4/7/11	S. VanDenHende	4/7/11 0904
S VanDenHende (WCH)	4/7/11 1015	[illegible]	1015 4.7.11

SPECIAL INSTRUCTIONS Due 4-08-11

(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}; Metals by ICP - 6010 - Quick Turn (Add On) {Beryllium}

Q# 88144 - J1D070508
6010 Quick Turn
SDG J01072

REVIEWED BY JEB
DATE 4-7-11

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

TestAmerica

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Sample Check-in List

Date/Time Received: 4.7.11 @ 1045 GM Screen Result (out) .3 (in) .6 Initials [✓]

Client: WCH SDG #: J01072 NA [ ] SAF #: RC-154 NA [ ]

Work Order Number: J1D070508 Chain of Custody # RC-154-045;

Shipping Container ID: Hand Delivery NA [✓] Air Bill # 044; 043 NA [✓]

Item 1 through 5 for shipping container only. Initial appropriate response.

1. Custody Seals on shipping container intact? Yes [✓] No [ ] No Custody Seal [ ]
2. Custody Seals dated and signed? Yes [✓] No [ ] No Custody Seal [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: on ice NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]

Item 6 through 10 for samples. Initial appropriate response.

6. Number of samples in shipping container (Each sample may contain multiple bottles): 9 @ 1 jar per sample.
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   - [✓] tape
   - [✓] custody seals
   - [✓] hazard labels
   - [✓] appropriate sample labels J1D070508
9. Samples:
   - [✓] are in good condition (soil)
   - [ ] are broken
   - [ ] are leaking
   - [ ] have air bubbles (Only for samples requiring no head space)
10. Sample pH appropriate for analysis requested Yes [ ] No [ ] N/A [✓] (Note discrepancies in #13)
    (If acidification necessary, then document sample ID, initial pH, amount of HNO_3 added and pH after addition)

    RPL ID # of preservative used : _____
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): NA [✓] _____

See other side for additional comments

Sample Custodian: [signature] Date: 4.7.11 @ 1045 am

Client Informed on _____ by _____ Person contacted _____

[✓] No action necessary; process as is

Project Manager: Whitney Ritari Date: 4/7/11

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Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		RC-154-052	Page 1 of 2
Collector Orozco, L.	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator KESSNER, JH	Price Code 8L Data Turnaround RTC 4/28/11 ~~21 Days~~ 24 hR
Project Designation 618-10 & 618-11 Field Remediation - Soil In-Process	Sampling Location 618-10 S. Surge Trench Soil		SAF No. RC-154	
Ice Chest No. N/A	Field Logbook No. EL-1648-1	COA S618DTY000	Method of Shipment Gov Vehicle / Had-Deliver	
Shipped To TestAmerica Incorporated, Richland	Offsite Property No. N/A		Bill of Lading/Air Bill No. N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

None

Preservation	NONE Cool 4C AJ 4-28-11										
Type of Container	aG										
No. of Container(s)	1										
Volume	60mL										
SAMPLE ANALYSIS	See item (1) in Special Instructions.										

Sample No.	Matrix *	Sample Date	Sample Time										
J1HN90 –	SOIL	4/28/11	1315	X			MHM2N						#1
J1HN91 –	SOIL	4/28/11	1320	X			MHM27						2
J1HN92 <	SOIL	4/28/11	1325	X			MHM2W						3
J1HN93 –	SOIL	4/28/11	1330	X			MHM20						4
J1HN94 –	SOIL	4/28/11	1335	X			MHM23						5

CHAIN OF POSSESSION — **Sign/Print Names**

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Loren Orozco Loren Orozco	1413 042811	RT Coffman / RT Coffman	1413 4/28/11
RT Coffman / RT Coffman	1440 4/28/11	J.E. Bahl	1440 4-28-11
J.E. Bahl wett	1645 4-28-11	Ryan Ryan TARL RYAN	4.28.11 1645

SPECIAL INSTRUCTIONS

(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}; Metals by ICP - 6010 - Quick Turn (Add On) {Beryllium}

SDG J01072
Due 4-29-11

REVIEWED BY AJ DATE 4-28-11

J1D280607

Matrix *
S=Soil
SE=Sediment
SO=Solid
Sl=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
Wipe
quid
egetation
ther

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

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		RC-154-052	Page 2 of 2
Collector Orozco, L.	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator KESSNER, JH	Price Code 8L Data Turnaround RTC 4/28/11 ~~21 Days~~ 24 hr
Project Designation 618-10 & 618-11 Field Remediation - Soil In-Process	Sampling Location 618-10 S. Surge Trench Soil		SAF No. RC-154	
Ice Chest No. N/A	Field Logbook No. EL-1648-1	COA S618DTY000	Method of Shipment Gov Vehicle / Hand-Deliver	
Shipped To TestAmerica Incorporated, Richland	Offsite Property No. N/A		Bill of Lading/Air Bill No. N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

None

Preservation	At None ~~Cool 4C~~ 4-28-11										
Type of Container	aG										
No. of Container(s)	1										
Volume	60mL										
SAMPLE ANALYSIS	See item (1) in Special Instructions.										

Sample No.	Matrix *	Sample Date	Sample Time									
J1HN95	SOIL	4/28/11	1340	X		MHM26						#6
J1HN96	SOIL	4/28/11	1345	X		MHM27						7
J1HN97	SOIL	4/28/11	1350	X		MHM3A						8
J1HN98	SOIL	4/28/11	1355	X		MHM3C						9
J1HN99	SOIL	4/28/11	1400	X		MHM3F						10

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Loren Orozco [signature]	04/28/11 1413	RT Coffman / RT Coffman	1413 4/28/11
RT Coffman / RT Coffman	1440 4/28/11	J. E. Bach	1440 4-28-11
J. E. Bach [signature]	1645 4-28-11	TARL RYAN [signature]	4-28-11 1645

SPECIAL INSTRUCTIONS

(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}; Metals by ICP - 6010 - Quick Turn (Add On) {Beryllium}

J01072
Due: 4/29/11
J1D280607

REVIEWED BY AS
DATE 4-28-11

Matrix *
S=Soil
SE=Sediment
SO=Solid
SI=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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Sample Check-in List

Date/Time Received: 4.28.11 1645 GM Screen Result (out) .2 (in) .4 Initials RR

Client: WCH SDG #: J01072 NA [ ] SAF #: RC-152 NA [ ]

Work Order Number: J1D280607 Chain of Custody # RC-154-052

Shipping Container ID: HAND Delivered NA [ ] Air Bill # _____ NA RR

Item 1 through 5 for shipping container only. Initial appropriate response.

1. Custody Seals on shipping container intact? Yes [RR] No [ ] No Custody Seal [ ]
2. Custody Seals dated and signed? Yes [RR] No [ ] No Custody Seal [ ]
3. Chain of Custody record present? Yes [RR] No [ ]
4. Cooler temperature: on ice NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [RR]

Item 6 through 10 for samples. Initial appropriate response.

6. Number of samples in shipping container (Each sample may contain multiple bottles): 10 samples @ 1 Pen
7. Sample holding times exceeded? NA [ ] Yes [ ] No [RR]
8. Samples have:
   ____ tape
   RR custody seals
   ____ hazard labels
   RR appropriate sample labels

   J1D280607
9. Samples: (soil)
   RR are in good condition
   ____ are broken
   ____ are leaking
   ____ have air bubbles (Only for samples requiring no head space)
10. Sample pH appropriate for analysis requested Yes [ ] No [ ] N/A [RR] (Note discrepancies in #13)
    (If acidification necessary, then document sample ID, initial pH, amount of HNO_3 added and pH after addition)

    RPL ID # of preservative used : _____
11. Sample Location, Sample Collector Listed? * Yes [RR] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [RR]
13. Description of anomalies (include sample numbers): NA RR

See other side for additional comments

Sample Custodian: [signature] Date: 4.28.11 1645

Client Informed on _____ by _____ Person contacted _____

[✓] No action necessary; process as is

Project Manager [signature] Date 4/29/11

LS-023, Rev. 12, 10/10
TestAmerica Laboratories, Inc.