0100066

SAF-RC-074
100-D/DR Burial Grounds & Remaining Sites – Soil In-Process
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt H4-21 KW 11/2/11
INITIAL/DATE

COMMENTS:

SDG J01304 SAF RC-074

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Waste Site: 100-D-100 Excavation Area 40' bgs

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NOV 03 2011
EDMC

Analytical Data Package Prepared For

Washington Closure Hanford

RECEIVED
OCT 2011

Radiochemical Analysis By

TestAmerica

2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.

Assigned Laboratory Code: TARL

Data Package Contains 39 *Pages*

Report No.: 49029

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.
J01304	RC-074	J1M0C8	J1J240451-001	MNE7H1AC	9MNE7H10	1297217
		J1M0C9	J1J240451-002	MNE7J1AC	9MNE7J10	1297217
		J1M0D0	J1J240451-003	MNE7K1AC	9MNE7K10	1297217
		J1M0D1	J1J240451-004	MNE7L1AC	9MNE7L10	1297217
		J1M0D2	J1J240451-005	MNE7M1AC	9MNE7M10	1297217
		J1M0D3	J1J240451-006	MNE7N1AC	9MNE7N10	1297217
		J1M0D4	J1J240451-007	MNE7P1AC	9MNE7P10	1297217
		J1M0D5	J1J240451-008	MNE7Q1AC	9MNE7Q10	1297217
		J1M0D6	J1J240451-009	MNE7R1AC	9MNE7R10	1297217
		J1M0D7	J1J240451-010	MNE7T1AC	9MNE7T10	1297217
	RC-074	J1M0D8	J1J240451-011	MNE7V1AC	9MNE7V10	1297217
		J1M0D9	J1J240451-012	MNE7W1AC	9MNE7W10	1297217
		J1M0F0	J1J240451-013	MNE7X1AC	9MNE7X10	1297217
		J1M0F1	J1J240451-014	MNE701AC	9MNE7010	1297217
		J1M0F2	J1J240451-015	MNE711AC	9MNE7110	1297217

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

TestAmerica Laboratories, Inc.

Washington Closure Hanford
2620 Fermi Avenue
Richland, WA 99354

October 31, 2011

Attention: Joan Kessner

SAF Number	:	RC-074
Date SDG Closed	:	October 28, 2011
Number of Samples	:	Fifteen (15)
Sample Type	:	Soil
SDG Number	:	J01304
Data Deliverable	:	Quick Turn Metals / Summary

CASE NARRATIVE

I. Introduction

On Octobe2419, 2011, fifteen soil samples were received at TestAmerica for 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
J1M0C8	MNE7H	SOIL	10/24/11
J1M0C9	MNE7J	SOIL	10/24/11
J1M0D0	MNE7K	SOIL	10/24/11
J1M0D1	MNE7L	SOIL	10/24/11
J1M0D2	MNE7M	SOIL	10/24/11
J1M0D3	MNE7N	SOIL	10/24/11
J1M0D4	MNE7P	SOIL	10/24/11
J1M0D5	MNE7Q	SOIL	10/24/11
J1M0D6	MNE7R	SOIL	10/24/11
J1M0D7	MNE7T	SOIL	10/24/11
J1M0D8	MNE7V	SOIL	10/24/11
J1M0D9	MNE7W	SOIL	10/24/11
J1M0F0	MNE7X	SOIL	10/24/11
J1M0F1	MNE70	SOIL	10/24/11
J1M0F2	MNE71	SOIL	10/24/11

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
Chemical Analysis
Hexavalent Chromium by EPA method 7196A

IV. Quality Control

SDG J01304 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
One batch was analyzed in October for the samples with the standard metal request list.

Batch 1297218:
The LCS, batch blank, samples, sample duplicate, MS, MSD, ICB, ICV, CCB and CCV results are within contractual limits.

Chemical Analysis
Hexavalent Chromium by EPA method 7196A
One batch was analyzed in October.

Batch 1297217:
The LCS, batch blank, samples, sample duplicate (J1M0C8) and sample matrix spike (J1M0C8) results are within contractual requirements

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

Drinking Water Method Cross References

	DRINKING WATER ASTM METHOD CROSS REFERENCES	
Referenced Method	**Isotope(s)**	**TestAmerica Richland's SOP No.**
EPA 901.1	Cs-134, I-131	RL-GAM-001
EPA 900.0	Alpha & Beta	RL-GPC-001
EPA 00-02	Gross Alpha (Coprecipitation)	RL-GPC-002
EPA 903.0	Total Alpha Radium (Ra-226)	RL-RA-002
EPA 903.1	Ra-226	RL-RA-001
EPA 904.0	Ra-228	RL-RA-001
EPA 905.0	Sr-89/90	RL-GPC-003
ASTM D5174	Uranium	RL-KPA-003
EPA 906.0	Tritium	RL-LSC-005

Results in this report relate only to the sample(s) analyzed.

Uncertainty Estimation

TestAmerica Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, R = constants * f(x,y,z,...). The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/?n), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or TestAmerica.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
Total Uncert (#s) ***u_c - Combined Uncertainty.***	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, ***u_c the combined uncertainty.*** The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or TestAmerica "default" nominal detection limit. Often referred to the reporting level (RL)
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. Lc=(1.645 * Sqrt(2*(BkgrndCnt/BkgrndCntMin)/SCntMin)) * (ConvFct/(Eff*Yld*Abn*Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC|MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. MDC = (4.65 * Sqrt((BkgrndCnt/BkgrndCntMin)/SCntMin) + 2.71/SCntMin) * (ConvFct/(Eff * Yld * Abn * Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the **Work Order** Number.
RER	The equation Replicate Error Ratio = (S-D)/[sqrt($TPUs^2$ + $TPUd^2$)] as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by TestAmerica upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

Sample Results Summary

TestAmerica TARL

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

Date: 31-Oct-11

Report No. : 49029

SDG No: J01304

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1297217	7196_CR6								
	J1M0C8								
	MNE7H1AC	HEXCHROME	6.96E+01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
	MNE7H1AN	HEXCHROME	7.51E+01 +- 0.0E+00		mg/kg	N/A	1.55E-01	3.50E-01	
	J1M0C9								
	MNE7J1AC	HEXCHROME	3.66E+02 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
	J1M0D0								
	MNE7K1AC	HEXCHROME	7.15E+01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
	J1M0D1								
	MNE7L1AC	HEXCHROME	3.40E+01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
	J1M0D2								
	MNE7M1AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1M0D3								
	MNE7N1AC	HEXCHROME	3.78E+02 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
	J1M0D4								
	MNE7P1AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1M0D5								
	MNE7Q1AC	HEXCHROME	1.07E+01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
	J1M0D6								
	MNE7R1AC	HEXCHROME	2.94E+01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
	J1M0D7								
	MNE7T1AC	HEXCHROME	6.93E+01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
	J1M0D8								
	MNE7V1AC	HEXCHROME	2.25E+02 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
	J1M0D9								
	MNE7W1AC	HEXCHROME	9.98E+00 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
	J1M0F0								
	MNE7X1AC	HEXCHROME	2.31E+02 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
	J1M0F1								
	MNE701AC	HEXCHROME	8.72E+00 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
	J1M0F2								
	MNE711AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	

No. of Results: 16

TestAmerica

rptSTLRchSaSummary2 V5.2.15 A2002

RPD - Relative Percent Difference.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.

QC Results Summary

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Date: 31-Oct-11

Report No. : 49029

SDG No.: J01304

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
7196_CR6								
1297217 MATRIX SPIKE, J1M0C8								
MNE7H1AL	HEXCHROME	8.43E+00 +- 0.0E+00		mg/kg	N/A	79%	-0.2	1.55E-01
1297217 LCS,								
MNE741AC	HEXCHROME	1.94E+01 +- 0.0E+00		mg/kg	N/A	97%	0.0	1.55E-01
1297217 BLANK QC,								
MNE741AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A			1.55E-01

No. of Results: 3

TestAmerica
rptSTLRchQcSummary V5.2.15
A2002

Bias - (Result/Expected)-1 as defined by ANSI N13.30.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	**TestAmerica**	**SDG:**	J01304	**Collection Date:**	10/24/2011 12:22:00 PM
Lot-Sample No.:	**J1J240451-001**	**Report No. :**	49029	**Received Date:**	10/24/2011 4:35:00 PM
Client Sample ID:	**J1M0C8**	**COC No. :**	RC-074-326	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1297217	7196_CR6			**Work Order:**	MNE7H1AC		**Report DB ID:**	9MNE7H10				
HEXCHROME	***6.96E+01***			0.0E+00	1.55E-01	mg/kg	N/A	*(448.9)*	10/24/11 06:45 p		2.4996	
							1.55E-01	*N/A*			g	

No. of Results: 1 **Comments:**

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	TestAmerica	**SDG:**	J01304	**Collection Date:**	10/24/2011 12:16:00 PM
Lot-Sample No.:	J1J240451-002	**Report No. :**	49029	**Received Date:**	10/24/2011 4:35:00 PM
Client Sample ID:	J1M0C9	**COC No. :**	RC-074-326	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1297217	7196_CR6			**Work Order:** MNE7J1AC			**Report DB ID:** 9MNE7J10					
HEXCHROME	***3.66E+02***			0.0E+00	1.55E-01	mg/kg	N/A	*(2363.7)*	10/24/11 06:45 p		2.5066	
							1.55E-01	*N/A*			g	

No. of Results: 1 **Comments:**

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	**TestAmerica**	**SDG:**	J01304	**Collection Date:**	10/24/2011 12:30:00 PM
Lot-Sample No.:	**J1J240451-003**	**Report No. :**	49029	**Received Date:**	10/24/2011 4:35:00 PM
Client Sample ID:	**J1M0D0**	**COC No. :**	RC-074-326	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1297217	7196_CR6			**Work Order:** MNE7K1AC			**Report DB ID:** 9MNE7K10					
HEXCHROME	***7.15E+01***			0.0E+00	1.55E-01	mg/kg	N/A	*(461.3)*	10/24/11 06:45 p		2.5016	
							1.55E-01	*N/A*			g	

No. of Results: 1 **Comments:**

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	**TestAmerica**	**SDG:**	J01304	**Collection Date:**	10/24/2011 12:38:00 PM
Lot-Sample No.:	**J1J240451-004**	**Report No. :**	49029	**Received Date:**	10/24/2011 4:35:00 PM
Client Sample ID:	**J1M0D1**	**COC No. :**	RC-074-326	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1297217	7196_CR6			**Work Order:** MNE7L1AC			**Report DB ID:** 9MNE7L10					
HEXCHROME	***3.40E+01***			0.0E+00	1.55E-01	mg/kg	N/A	*(219.4)*	10/24/11 06:45 p		2.5109	
							1.55E-01	*N/A*			g	

No. of Results: 1 **Comments:**

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	TestAmerica	**SDG:**	J01304	**Collection Date:**	10/24/2011 12:26:00 PM
Lot-Sample No.:	J1J240451-005	**Report No. :**	49029	**Received Date:**	10/24/2011 4:35:00 PM
Client Sample ID:	J1M0D2	**COC No. :**	RC-074-326	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1297217	7196_CR6			**Work Order:**	MNE7M1AC		**Report DB ID:**	9MNE7M10				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A 1.55E-01	*1.* *N/A*	10/24/11 06:45 p		2.5057 g	

No. of Results: 1 **Comments:**

TestAmerica
rptSTLRchSample
V5.2.15 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	TestAmerica	**SDG:**	J01304	**Collection Date:**	10/24/2011 12:20:00 PM
Lot-Sample No.:	J1J240451-006	**Report No. :**	49029	**Received Date:**	10/24/2011 4:35:00 PM
Client Sample ID:	J1M0D3	**COC No. :**	RC-074-326	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1297217	7196_CR6			**Work Order:** MNE7N1AC			**Report DB ID:** 9MNE7N10					
HEXCHROME	***3.78E+02***			0.0E+00	1.55E-01	mg/kg	N/A	*(2436.2)*	10/24/11 06:45 p		2.5189	
							1.55E-01	*N/A*			g	

No. of Results: 1 **Comments:**

TestAmerica
rptSTLRchSample
V5.2.15 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	**TestAmerica**	**SDG:**	J01304	**Collection Date:**	10/24/2011 12:32:00 PM
Lot-Sample No.:	**J1J240451-007**	**Report No. :**	49029	**Received Date:**	10/24/2011 4:35:00 PM
Client Sample ID:	**J1M0D4**	**COC No. :**	RC-074-326	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1297217	7196_CR6			**Work Order:**	MNE7P1AC		**Report DB ID:**	9MNE7P10				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	10/24/11 06:45 p		2.4984	
							1.55E-01	*N/A*			g	

No. of Results: 1 **Comments:**

TestAmerica
rptSTLRchSample
V5.2.15 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	**TestAmerica**	**SDG:**	J01304	**Collection Date:**	10/24/2011 12:36:00 PM
Lot-Sample No.:	**J1J240451-008**	**Report No. :**	49029	**Received Date:**	10/24/2011 4:35:00 PM
Client Sample ID:	**J1M0D5**	**COC No. :**	RC-074-326	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1297217	7196_CR6			**Work Order:**	MNE7Q1AC		**Report DB ID:**	9MNE7Q10				
HEXCHROME	***1.07E+01***			0.0E+00	1.55E-01	mg/kg	N/A	*(68.7)*	10/24/11 06:45 p		2.4992	
							1.55E-01	*N/A*			g	

No. of Results: 1 **Comments:**

TestAmerica
rptSTLRchSample
V5.2.15 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	**TestAmerica**	**SDG:**	J01304	**Collection Date:**	10/24/2011 12:24:00 PM
Lot-Sample No.:	**J1J240451-009**	**Report No. :**	49029	**Received Date:**	10/24/2011 4:35:00 PM
Client Sample ID:	**J1M0D6**	**COC No. :**	RC-074-326	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1297217	7196_CR6			**Work Order:** MNE7R1AC			**Report DB ID:** 9MNE7R10					
HEXCHROME	***2.94E+01***			0.0E+00	1.55E-01	mg/kg	N/A	*(189.8)*	10/24/11 06:45 p		2.5071	
							1.55E-01	*N/A*			g	

No. of Results: 1 **Comments:**

TestAmerica
rptSTLRchSample
V5.2.15 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	TestAmerica	**SDG:**	J01304	**Collection Date:**	10/24/2011 12:34:00 PM
Lot-Sample No.:	J1J240451-010	**Report No. :**	49029	**Received Date:**	10/24/2011 4:35:00 PM
Client Sample ID:	J1M0D7	**COC No. :**	RC-074-326	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1297217	7196_CR6			**Work Order:**	MNE7T1AC		**Report DB ID:**	9MNE7T10				
HEXCHROME	***6.93E+01***			0.0E+00	1.55E-01	mg/kg	N/A	*(447.)*	10/24/11 06:45 p		2.5004	
							1.55E-01	*N/A*			g	

No. of Results: 1 **Comments:**

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	TestAmerica	**SDG:**	J01304	**Collection Date:**	10/24/2011 12:18:00 PM
Lot-Sample No.:	J1J240451-011	**Report No. :**	49029	**Received Date:**	10/24/2011 4:35:00 PM
Client Sample ID:	J1M0D8	**COC No. :**	RC-074-326	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1297217	7196_CR6			**Work Order:** MNE7V1AC			**Report DB ID:** 9MNE7V10					
HEXCHROME	***2.25E+02***			0.0E+00	1.55E-01	mg/kg	N/A	*(1450.4)*	10/24/11 06:45 p		2.5068	
							1.55E-01	*N/A*			g	

No. of Results: 1 **Comments:**

TestAmerica
rptSTLRchSample
V5.2.15 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	TestAmerica	**SDG:**	J01304	**Collection Date:**	10/24/2011 12:28:00 PM
Lot-Sample No.:	J1J240451-012	**Report No. :**	49029	**Received Date:**	10/24/2011 4:35:00 PM
Client Sample ID:	J1M0D9	**COC No. :**	RC-074-326	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1297217	7196_CR6			**Work Order:**	MNE7W1AC		**Report DB ID:**	9MNE7W10				
HEXCHROME	***9.98E+00***			0.0E+00	1.55E-01	mg/kg	N/A	*(64.4)*	10/24/11 06:45 p		2.4992	
							1.55E-01	*N/A*			g	

No. of Results: 1 **Comments:**

TestAmerica
rptSTLRchSample
V5.2.15 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	TestAmerica	**SDG:**	J01304	**Collection Date:**	10/24/2011 12:14:00 PM
Lot-Sample No.:	J1J240451-013	**Report No. :**	49029	**Received Date:**	10/24/2011 4:35:00 PM
Client Sample ID:	J1M0F0	**COC No. :**	RC-074-326	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1297217	7196_CR6			**Work Order:** MNE7X1AC			**Report DB ID:** 9MNE7X10					
HEXCHROME	***2.31E+02***			0.0E+00	1.55E-01	mg/kg	N/A	*(1493.1)*	10/24/11 06:45 p		2.5114	
							1.55E-01	*N/A*			g	

No. of Results: 1 **Comments:**

TestAmerica
rptSTLRchSample
V5.2.15 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	TestAmerica	**SDG:**	J01304	**Collection Date:**	10/24/2011 12:12:00 PM
Lot-Sample No.:	J1J240451-014	**Report No. :**	49029	**Received Date:**	10/24/2011 4:35:00 PM
Client Sample ID:	J1M0F1	**COC No. :**	RC-074-326	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1297217	7196_CR6			**Work Order:**	MNE701AC		**Report DB ID:**	9MNE7010				
HEXCHROME	***8.72E+00***			0.0E+00	1.55E-01	mg/kg	N/A	*(56.3)*	10/24/11 06:45 p		2.5102	
							1.55E-01	*N/A*			g	

No. of Results: 1 **Comments:**

TestAmerica
rptSTLRchSample
V5.2.15 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	TestAmerica	**SDG:**	J01304	**Collection Date:**	10/24/2011 12:10:00 PM
Lot-Sample No.:	J1J240451-015	**Report No. :**	49029	**Received Date:**	10/24/2011 4:35:00 PM
Client Sample ID:	J1M0F2	**COC No. :**		**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1297217	7196_CR6			**Work Order:** MNE711AC			**Report DB ID:** 9MNE7110					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	10/24/11 06:45 p		2.5102	
							1.55E-01	*N/A*			g	

No. of Results: 1 **Comments:**

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.

FORM II

BLANK RESULTS

Date: 31-Oct-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: J01304

Report No. : 49029

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA ,	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1297217	7196_CR6			**Work Order:**	MNE741AA		**Report DB ID:**	MNE741AB				
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	(1.)	10/24/11 06:45 p		2.5	
						1.55E-01		N/A			g	

No. of Results: 1 **Comments:**

TestAmerica
rptSTLRchBlank
V5.2.15 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.

FORM II

LCS RESULTS

Date: 31-Oct-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: J01304

Report No. : 49029

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 1297217	7196_CR6			Work Order: MNE741AC			Report DB ID: MNE741AC						
HEXCHROME	1.94E+01			0.0E+00	1.55E-01	mg/kg	N/A	2.00E+01		97%	10/24/11 06:45 p	2.5	
							Rec Limits:	80	120	0.0		g	

No. of Results: 1 Comments:

TestAmerica Bias - (Result/Expected)-1 as defined by ANSI N13.30.

rptSTLRchLcs
V5.2.15 A2002

FORM II

MATRIX SPIKE RESULTS

Date: 31-Oct-11

Lab Name: TestAmerica **SDG:** J01304

Lot-Sample No.: J1J240451-1, J1M0C8 **Report No. :** 49029 **Matrix:** SOIL

Parameter	SpikeResult, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Rpt Unit, CRDL	Yield	Rec-overy	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 1297217	Work Order: MNE7H1AL			Report DB ID: MNE7H1CW			Orig Sa DB ID: 9MNE7H10					
HEXCHROME	8.43E+00			0.0E+00	1.55E-01	mg/kg	N/A	78.51%	1.07E+01	10/24/11 06:45 p	2.4983	7196_CR6
	6.96E+01										g	

Number of Results: 1

Comments:

TestAmerica
rptSTLRchMs
V5.2.15 A2002

RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
Bias - (Result/Expected)-1 as defined by ANSI N13.30.

SDG: J01304
SAF: RC-074
BATCH: 1297218
MATRIX: SOIL
ANALYSIS DATE: 10/24/11

Client_id	Matrix	Result_type	Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limit	Reporting_Limit	Uncertainty_1	Analyzed_s	Analyzed_	Decision_level_	LCSRec	AddedAm	Analysis_date_time	Batch_nbr	Test_Method	Lab_sample_id
J1M0F1	SOIL	BS	7440-22-4	Ag	-3.37E-01	U	UG/G	1.09E+00	1.09E+00	9.30E-02	0.2523	G		7.62E-02		10/24/11 22:21	1297218	46DQ	MNE701AA
J1M0F1	SOIL	BS	7440-38-2	As	3.50E-01	U	UG/G	4.28E+00	4.28E+00	5.70E-01	0.2523	G		4.65E-01		10/24/11 22:21	1297218	46DQ	MNE701AA
J1M0F1	SOIL	BS	7440-39-3	Ba	6.65E+01		UG/G	8.92E-01	8.92E-01	3.60E-01	0.2523	G		2.96E-01		10/24/11 22:21	1297218	46DQ	MNE701AA
J1M0F1	SOIL	BS	7440-41-7	Beryllium	2.34E-01		UG/G	1.19E-01	1.19E-01	1.60E-02	0.2523	G		1.31E-02		10/24/11 22:21	1297218	46DQ	MNE701AA
J1M0F1	SOIL	BS	7440-43-9	Cadmium	1.39E-01	U	UG/G	1.74E+00	1.74E+00	1.80E-02	0.2523	G		1.48E-02		10/24/11 22:21	1297218	46DQ	MNE701AA
J1M0F1	SOIL	BS	7440-47-3	Chromium	1.26E+01		UG/G	9.91E-01	9.91E-01	3.30E-01	0.2523	G		2.68E-01		10/24/11 22:21	1297218	46DQ	MNE701AA
J1M0F1	SOIL	BS	7439-92-1	Lead	2.46E+00	U	UG/G	3.45E+00	3.45E+00	3.90E-01	0.2523	G		3.23E-01		10/24/11 22:21	1297218	46DQ	MNE701AA
J1M0F1	SOIL	BS	7782-49-2	Se	-9.86E-01	U	UG/G	8.28E+00	8.28E+00	1.00E+00	0.2523	G		8.61E-01		10/24/11 22:21	1297218	46DQ	MNE701AA
J1M0F2	SOIL	BS	7440-22-4	Ag	-2.97E-01	U	UG/G	1.10E+00	1.10E+00	1.80E-01	0.2502	G		1.49E-01		10/24/11 22:24	1297218	46DQ	MNE711AA
J1M0F2	SOIL	BS	7440-38-2	As	4.79E-01	U	UG/G	4.32E+00	4.32E+00	6.00E-01	0.2502	G		4.96E-01		10/24/11 22:24	1297218	46DQ	MNE711AA
J1M0F2	SOIL	BS	7440-39-3	Ba	7.23E+01		UG/G	8.99E-01	8.99E-01	2.00E-01	0.2502	G		1.67E-01		10/24/11 22:24	1297218	46DQ	MNE711AA
J1M0F2	SOIL	BS	7440-41-7	Beryllium	2.33E-01		UG/G	1.20E-01	1.20E-01	1.70E-02	0.2502	G		1.43E-02		10/24/11 22:24	1297218	46DQ	MNE711AA
J1M0F2	SOIL	BS	7440-43-9	Cadmium	1.27E-01	U	UG/G	1.76E+00	1.76E+00	1.30E-03	0.2502	G		1.06E-03		10/24/11 22:24	1297218	46DQ	MNE711AA
J1M0F2	SOIL	BS	7440-47-3	Chromium	2.72E+00		UG/G	9.99E-01	9.99E-01	2.10E-02	0.2502	G		1.75E-02		10/24/11 22:24	1297218	46DQ	MNE711AA
J1M0F2	SOIL	BS	7439-92-1	Lead	2.47E+00	U	UG/G	3.48E+00	3.48E+00	1.70E-01	0.2502	G		1.42E-01		10/24/11 22:24	1297218	46DQ	MNE711AA
J1M0F2	SOIL	BS	7782-49-2	Se	-8.87E-01	U	UG/G	8.35E+00	8.35E+00	1.10E-01	0.2502	G		9.08E-02		10/24/11 22:24	1297218	46DQ	MNE711AA
J1M0C8	SOIL	BS	7440-22-4	Ag	-2.97E-01	U	UG/G	1.11E+00	1.11E+00	1.10E-01	0.2473	G		9.45E-02		10/24/11 21:21	1297218	46DQ	MNE7H1A0
J1M0C8	SOIL	BS	7440-38-2	As	3.90E-01	U	UG/G	4.37E+00	4.37E+00	5.30E-01	0.2473	G		4.35E-01		10/24/11 21:21	1297218	46DQ	MNE7H1A0
J1M0C8	SOIL	BS	7440-39-3	Ba	7.94E+01		UG/G	9.10E-01	9.10E-01	9.10E-01	0.2473	G		7.46E-01		10/24/11 21:21	1297218	46DQ	MNE7H1A0
J1M0C8	SOIL	BS	7440-41-7	Beryllium	2.20E-01		UG/G	1.21E-01	1.21E-01	7.30E-03	0.2473	G		5.97E-03		10/24/11 21:21	1297218	46DQ	MNE7H1A0
J1M0C8	SOIL	BS	7440-43-9	Cadmium	1.10E-01	U	UG/G	1.78E+00	1.78E+00	6.20E-02	0.2473	G		5.10E-02		10/24/11 21:21	1297218	46DQ	MNE7H1A0
J1M0C8	SOIL	BS	7440-47-3	Chromium	7.55E+01		UG/G	1.01E+00	1.01E+00	1.00E+00	0.2473	G		8.22E-01		10/24/11 21:21	1297218	46DQ	MNE7H1A0
J1M0C8	SOIL	BS	7439-92-1	Lead	2.55E+00	U	UG/G	3.52E+00	3.52E+00	3.80E-01	0.2473	G		3.13E-01		10/24/11 21:21	1297218	46DQ	MNE7H1A0
J1M0C8	SOIL	BS	7782-49-2	Se	-7.14E-01	U	UG/G	8.45E+00	8.45E+00	1.30E-01	0.2473	G		1.11E-01		10/24/11 21:21	1297218	46DQ	MNE7H1A0
J1M0C9	SOIL	BS	7440-22-4	Ag	-2.97E-01	U	UG/G	1.12E+00	1.12E+00	1.90E-01	0.2460	G		1.53E-01		10/24/11 21:34	1297218	46DQ	MNE7J1AA
J1M0C9	SOIL	BS	7440-38-2	As	-2.61E+00	U	UG/G	4.39E+00	4.39E+00	1.50E+00	0.2460	G		1.19E+00		10/24/11 21:34	1297218	46DQ	MNE7J1AA
J1M0C9	SOIL	BS	7440-39-3	Ba	5.07E+01		UG/G	9.15E-01	9.15E-01	1.80E-01	0.2460	G		1.48E-01		10/24/11 21:34	1297218	46DQ	MNE7J1AA
J1M0C9	SOIL	BS	7440-41-7	Beryllium	2.39E-01		UG/G	1.22E-01	1.22E-01	1.30E-02	0.2460	G		1.06E-02		10/24/11 21:34	1297218	46DQ	MNE7J1AA
J1M0C9	SOIL	BS	7440-43-9	Cadmium	1.55E-01	U	UG/G	1.79E+00	1.79E+00	1.80E-02	0.2460	G		1.49E-02		10/24/11 21:34	1297218	46DQ	MNE7J1AA
J1M0C9	SOIL	BS	7440-47-3	Chromium	7.38E+02		UG/G	1.02E+00	1.02E+00	1.60E+00	0.2460	G		1.32E+00		10/24/11 21:34	1297218	46DQ	MNE7J1AA
J1M0C9	SOIL	BS	7439-92-1	Lead	2.49E+00	U	UG/G	3.54E+00	3.54E+00	2.70E-01	0.2460	G		2.20E-01		10/24/11 21:34	1297218	46DQ	MNE7J1AA
J1M0C9	SOIL	BS	7782-49-2	Se	-8.82E-01	U	UG/G	8.50E+00	8.50E+00	5.30E-01	0.2460	G		4.33E-01		10/24/11 21:34	1297218	46DQ	MNE7J1AA
J1M0D0	SOIL	BS	7440-22-4	Ag	-2.77E-01	U	UG/G	1.11E+00	1.11E+00	4.20E-02	0.2479	G		3.48E-02		10/24/11 21:37	1297218	46DQ	MNE7K1AA
J1M0D0	SOIL	BS	7440-38-2	As	8.16E-01	U	UG/G	4.36E+00	4.36E+00	1.60E-01	0.2479	G		1.30E-01		10/24/11 21:37	1297218	46DQ	MNE7K1AA
J1M0D0	SOIL	BS	7440-39-3	Ba	7.34E+01		UG/G	9.08E-01	9.08E-01	3.90E-01	0.2479	G		3.17E-01		10/24/11 21:37	1297218	46DQ	MNE7K1AA
J1M0D0	SOIL	BS	7440-41-7	Beryllium	2.49E-01		UG/G	1.21E-01	1.21E-01	5.40E-03	0.2479	G		4.43E-03		10/24/11 21:37	1297218	46DQ	MNE7K1AA
J1M0D0	SOIL	BS	7440-43-9	Cadmium	1.48E-01	U	UG/G	1.77E+00	1.77E+00	3.60E-02	0.2479	G		2.99E-02		10/24/11 21:37	1297218	46DQ	MNE7K1AA
J1M0D0	SOIL	BS	7440-47-3	Chromium	8.08E+01		UG/G	1.01E+00	1.01E+00	5.70E-01	0.2479	G		4.65E-01		10/24/11 21:37	1297218	46DQ	MNE7K1AA
J1M0D0	SOIL	BS	7439-92-1	Lead	3.23E+00	U	UG/G	3.51E+00	3.51E+00	4.00E-01	0.2479	G		3.30E-01		10/24/11 21:37	1297218	46DQ	MNE7K1AA
J1M0D0	SOIL	BS	7782-49-2	Se	-5.46E-01	U	UG/G	8.43E+00	8.43E+00	1.60E+00	0.2479	G		1.28E+00		10/24/11 21:37	1297218	46DQ	MNE7K1AA
J1M0D1	SOIL	BS	7440-22-4	Ag	-2.83E-01	U	UG/G	1.12E+00	1.12E+00	1.80E-01	0.2454	G		1.46E-01		10/24/11 21:40	1297218	46DQ	MNE7L1AA
J1M0D1	SOIL	BS	7440-38-2	As	6.68E-01	U	UG/G	4.40E+00	4.40E+00	8.50E-01	0.2454	G		6.97E-01		10/24/11 21:40	1297218	46DQ	MNE7L1AA
J1M0D1	SOIL	BS	7440-39-3	Ba	6.04E+01		UG/G	9.17E-01	9.17E-01	2.00E-01	0.2454	G		1.69E-01		10/24/11 21:40	1297218	46DQ	MNE7L1AA
J1M0D1	SOIL	BS	7440-41-7	Beryllium	2.31E-01		UG/G	1.22E-01	1.22E-01	8.20E-04	0.2454	G		6.78E-04		10/24/11 21:40	1297218	46DQ	MNE7L1AA
J1M0D1	SOIL	BS	7440-43-9	Cadmium	1.26E-01	U	UG/G	1.79E+00	1.79E+00	5.20E-02	0.2454	G		4.29E-02		10/24/11 21:40	1297218	46DQ	MNE7L1AA
J1M0D1	SOIL	BS	7440-47-3	Chromium	4.52E+01		UG/G	1.02E+00	1.02E+00	3.30E-01	0.2454	G		2.69E-01		10/24/11 21:40	1297218	46DQ	MNE7L1AA
J1M0D1	SOIL	BS	7439-92-1	Lead	2.93E+00	U	UG/G	3.55E+00	3.55E+00	1.60E-01	0.2454	G		1.35E-01		10/24/11 21:40	1297218	46DQ	MNE7L1AA
J1M0D1	SOIL	BS	7782-49-2	Se	-4.79E-01	U	UG/G	8.52E+00	8.52E+00	6.50E-01	0.2454	G		5.33E-01		10/24/11 21:40	1297218	46DQ	MNE7L1AA
J1M0D2	SOIL	BS	7440-22-4	Ag	-2.47E-01	U	UG/G	1.12E+00	1.12E+00	1.50E-01	0.2466	G		1.24E-01		10/24/11 21:43	1297218	46DQ	MNE7M1AA
J1M0D2	SOIL	BS	7440-38-2	As	7.23E-01	U	UG/G	4.38E+00	4.38E+00	8.40E-01	0.2466	G		6.87E-01		10/24/11 21:43	1297218	46DQ	MNE7M1AA
J1M0D2	SOIL	BS	7440-39-3	Ba	7.93E+01		UG/G	9.12E-01	9.12E-01	1.90E-01	0.2466	G		1.60E-01		10/24/11 21:43	1297218	46DQ	MNE7M1AA
J1M0D2	SOIL	BS	7440-41-7	Beryllium	2.61E-01		UG/G	1.22E-01	1.22E-01	8.30E-03	0.2466	G		6.85E-03		10/24/11 21:43	1297218	46DQ	MNE7M1AA
J1M0D2	SOIL	BS	7440-43-9	Cadmium	1.41E-01	U	UG/G	1.78E+00	1.78E+00	1.90E-02	0.2466	G		1.52E-02		10/24/11 21:43	1297218	46DQ	MNE7M1AA
J1M0D2	SOIL	BS	7440-47-3	Chromium	3.23E+00		UG/G	1.01E+00	1.01E+00	1.10E-01	0.2466	G		8.84E-02		10/24/11 21:43	1297218	46DQ	MNE7M1AA
J1M0D2	SOIL	BS	7439-92-1	Lead	2.62E+00	U	UG/G	3.53E+00	3.53E+00	4.70E-01	0.2466	G		3.86E-01		10/24/11 21:43	1297218	46DQ	MNE7M1AA
J1M0D2	SOIL	BS	7782-49-2	Se	-7.46E-01	U	UG/G	8.48E+00	8.48E+00	2.40E-01	0.2466	G		1.97E-01		10/24/11 21:43	1297218	46DQ	MNE7M1AA
J1M0D3	SOIL	BS	7440-22-4	Ag	-2.58E-01	U	UG/G	1.11E+00	1.11E+00	5.90E-02	0.2487	G		4.89E-02		10/24/11 21:57	1297218	46DQ	MNE7N1AA
J1M0D3	SOIL	BS	7440-38-2	As	-2.14E+00	U	UG/G	4.34E+00	4.34E+00	1.70E-01	0.2487	G		1.38E-01		10/24/11 21:57	1297218	46DQ	MNE7N1AA
J1M0D3	SOIL	BS	7440-39-3	Ba	6.65E+01		UG/G	9.05E-01	9.05E-01	1.50E-01	0.2487	G		1.23E-01		10/24/11 21:57	1297218	46DQ	MNE7N1AA
J1M0D3	SOIL	BS	7440-41-7	Beryllium	2.75E-01		UG/G	1.21E-01	1.21E-01	1.10E-02	0.2487	G		8.78E-03		10/24/11 21:57	1297218	46DQ	MNE7N1AA
J1M0D3	SOIL	BS	7440-43-9	Cadmium	1.35E-01	U	UG/G	1.77E+00	1.77E+00	3.00E-02	0.2487	G		2.43E-02		10/24/11 21:57	1297218	46DQ	MNE7N1AA
J1M0D3	SOIL	BS	7440-47-3	Chromium	6.67E+02		UG/G	1.01E+00	1.01E+00	3.30E+00	0.2487	G		2.69E+00		10/24/11 21:57	1297218	46DQ	MNE7N1AA
J1M0D3	SOIL	BS	7439-92-1	Lead	2.50E+00	U	UG/G	3.50E+00	3.50E+00	3.20E-01	0.2487	G		2.66E-01		10/24/11 21:57	1297218	46DQ	MNE7N1AA
J1M0D3	SOIL	BS	7782-49-2	Se	-3.60E-01	U	UG/G	8.40E+00	8.40E+00	3.20E-01	0.2487	G		2.62E-01		10/24/11 21:57	1297218	46DQ	MNE7N1AA
J1M0D4	SOIL	BS	7440-22-4	Ag	-3.03E-01	U	UG/G	1.11E+00	1.11E+00	1.30E-01	0.2481	G		1.08E-01		10/24/11 21:59	1297218	46DQ	MNE7P1AA
J1M0D4	SOIL	BS	7440-38-2	As	9.72E-01	U	UG/G	4.35E+00	4.35E+00	5.40E-01	0.2481	G		4.42E-01		10/24/11 21:59	1297218	46DQ	MNE7P1AA
J1M0D4	SOIL	BS	7440-39-3	Ba	8.93E+01		UG/G	9.07E-01	9.07E-01	9.10E-01	0.2481	G		7.48E-01		10/24/11 21:59	1297218	46DQ	MNE7P1AA
J1M0D4	SOIL	BS	7440-41-7	Beryllium	2.53E-01		UG/G	1.21E-01	1.21E-01	2.10E-02	0.2481	G		1.77E-02		10/24/11 21:59	1297218	46DQ	MNE7P1AA
J1M0D4	SOIL	BS	7440-43-9	Cadmium	1.21E-01	U	UG/G	1.77E+00	1.77E+00	3.40E-02	0.2481	G		2.83E-02		10/24/11 21:59	1297218	46DQ	MNE7P1AA
J1M0D4	SOIL	BS	7440-47-3	Chromium	4.52E+00		UG/G	1.01E+00	1.01E+00	1.50E-01	0.2481	G		1.25E-01		10/24/11 21:59	1297218	46DQ	MNE7P1AA
J1M0D4	SOIL	BS	7439-92-1	Lead	3.04E+00	U	UG/G	3.51E+00	3.51E+00	6.20E-01	0.2481	G		5.07E-01		10/24/11 21:59	1297218	46DQ	MNE7P1AA

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Client_id	Matrix	Result_type	Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limit	Reporting_Limit	Uncertainty_1	Analyzed_s	Analyzed_	Decision_level_	LCSRec	AddedAm	Analysis_date_time	Batch_nbr	Test_Method	Lab_sample_id
J1M0D4	SOIL	BS	7782-49-2	Se	-1.20E+00	U	UG/G	8.42E+00	8.42E+00	1.30E+00	0.2481	G	1.09E+00			10/24/11 21:59	1297218	46DQ	MNE7P1AA
J1M0D5	SOIL	BS	7440-22-4	Ag	-3.74E-01	U	UG/G	1.09E+00	1.09E+00	2.50E-02	0.2519	G	2.03E-02			10/24/11 22:02	1297218	46DQ	MNE7Q1AA
J1M0D5	SOIL	BS	7440-38-2	As	1.33E+00	U	UG/G	4.29E+00	4.29E+00	2.80E-01	0.2519	G	2.33E-01			10/24/11 22:02	1297218	46DQ	MNE7Q1AA
J1M0D5	SOIL	BS	7440-39-3	Ba	4.62E+01		UG/G	8.93E-01	8.93E-01	3.80E-01	0.2519	G	3.16E-01			10/24/11 22:02	1297218	46DQ	MNE7Q1AA
J1M0D5	SOIL	BS	7440-41-7	Beryllium	2.04E-01		UG/G	1.19E-01	1.19E-01	5.90E-03	0.2519	G	4.84E-03			10/24/11 22:02	1297218	46DQ	MNE7Q1AA
J1M0D5	SOIL	BS	7440-43-9	Cadmium	1.04E-01	U	UG/G	1.75E+00	1.75E+00	3.50E-02	0.2519	G	2.85E-02			10/24/11 22:02	1297218	46DQ	MNE7Q1AA
J1M0D5	SOIL	BS	7440-47-3	Chromium	1.37E+01		UG/G	9.92E-01	9.92E-01	3.50E-02	0.2519	G	2.89E-02			10/24/11 22:02	1297218	46DQ	MNE7Q1AA
J1M0D5	SOIL	BS	7439-92-1	Lead	2.94E+00	U	UG/G	3.45E+00	3.45E+00	8.20E-01	0.2519	G	5.10E-01			10/24/11 22:02	1297218	46DQ	MNE7Q1AA
J1M0D5	SOIL	BS	7782-49-2	Se	-7.58E-01	U	UG/G	8.30E+00	8.30E+00	6.90E-01	0.2519	G	5.65E-01			10/24/11 22:02	1297218	46DQ	MNE7Q1AA
J1M0D6	SOIL	BS	7440-22-4	Ag	-2.66E-01	U	UG/G	1.10E+00	1.10E+00	7.50E-02	0.2506	G	6.20E-02			10/24/11 22:05	1297218	46DQ	MNE7R1AA
J1M0D6	SOIL	BS	7440-38-2	As	3.94E-01	U	UG/G	4.31E+00	4.31E+00	6.20E-01	0.2506	G	5.06E-01			10/24/11 22:05	1297218	46DQ	MNE7R1AA
J1M0D6	SOIL	BS	7440-39-3	Ba	9.28E+01		UG/G	8.98E-01	8.98E-01	9.60E-01	0.2506	G	7.92E-01			10/24/11 22:05	1297218	46DQ	MNE7R1AA
J1M0D6	SOIL	BS	7440-41-7	Beryllium	2.14E-01		UG/G	1.20E-01	1.20E-01	6.60E-03	0.2506	G	5.46E-03			10/24/11 22:05	1297218	46DQ	MNE7R1AA
J1M0D6	SOIL	BS	7440-43-9	Cadmium	1.09E-01	U	UG/G	1.76E+00	1.76E+00	1.50E-02	0.2506	G	1.21E-02			10/24/11 22:05	1297218	46DQ	MNE7R1AA
J1M0D6	SOIL	BS	7440-47-3	Chromium	3.55E+01		UG/G	9.98E-01	9.98E-01	3.80E-01	0.2506	G	3.17E-01			10/24/11 22:05	1297218	46DQ	MNE7R1AA
J1M0D6	SOIL	BS	7439-92-1	Lead	2.18E+00	U	UG/G	3.47E+00	3.47E+00	2.90E-01	0.2506	G	2.40E-01			10/24/11 22:05	1297218	46DQ	MNE7R1AA
J1M0D6	SOIL	BS	7782-49-2	Se	-3.75E-01	U	UG/G	8.34E+00	8.34E+00	7.80E-01	0.2506	G	6.41E-01			10/24/11 22:05	1297218	46DQ	MNE7R1AA
J1M0D7	SOIL	BS	7440-22-4	Ag	-3.55E-01	U	UG/G	1.10E+00	1.10E+00	6.70E-02	0.2501	G	5.52E-02			10/24/11 22:09	1297218	46DQ	MNE7T1AA
J1M0D7	SOIL	BS	7440-38-2	As	9.41E-01	U	UG/G	4.32E+00	4.32E+00	1.90E-01	0.2501	G	1.57E-01			10/24/11 22:09	1297218	46DQ	MNE7T1AA
J1M0D7	SOIL	BS	7440-39-3	Ba	5.62E+01		UG/G	9.00E-01	9.00E-01	4.30E-01	0.2501	G	3.52E-01			10/24/11 22:09	1297218	46DQ	MNE7T1AA
J1M0D7	SOIL	BS	7440-41-7	Beryllium	2.60E-01		UG/G	1.20E-01	1.20E-01	2.10E-03	0.2501	G	1.69E-03			10/24/11 22:09	1297218	46DQ	MNE7T1AA
J1M0D7	SOIL	BS	7440-43-9	Cadmium	1.37E-01	U	UG/G	1.76E+00	1.76E+00	3.90E-02	0.2501	G	3.24E-02			10/24/11 22:09	1297218	46DQ	MNE7T1AA
J1M0D7	SOIL	BS	7440-47-3	Chromium	8.52E+01		UG/G	1.00E+00	1.00E+00	2.10E-01	0.2501	G	1.75E-01			10/24/11 22:09	1297218	46DQ	MNE7T1AA
J1M0D7	SOIL	BS	7439-92-1	Lead	3.37E+00	U	UG/G	3.48E+00	3.48E+00	2.60E-01	0.2501	G	2.15E-01			10/24/11 22:09	1297218	46DQ	MNE7T1AA
J1M0D7	SOIL	BS	7782-49-2	Se	-6.12E-01	U	UG/G	8.36E+00	8.36E+00	5.60E-01	0.2501	G	4.60E-01			10/24/11 22:09	1297218	46DQ	MNE7T1AA
J1M0D8	SOIL	BS	7440-22-4	Ag	-3.01E-01	U	UG/G	1.11E+00	1.11E+00	1.80E-01	0.2471	G	1.48E-01			10/24/11 22:12	1297218	46DQ	MNE7V1AA
J1M0D8	SOIL	BS	7440-38-2	As	-6.10E-01	U	UG/G	4.37E+00	4.37E+00	1.70E-01	0.2471	G	1.42E-01			10/24/11 22:12	1297218	46DQ	MNE7V1AA
J1M0D8	SOIL	BS	7440-39-3	Ba	6.03E+01		UG/G	9.11E-01	9.11E-01	4.90E-01	0.2471	G	4.04E-01			10/24/11 22:12	1297218	46DQ	MNE7V1AA
J1M0D8	SOIL	BS	7440-41-7	Beryllium	2.33E-01		UG/G	1.21E-01	1.21E-01	2.60E-03	0.2471	G	2.11E-03			10/24/11 22:12	1297218	46DQ	MNE7V1AA
J1M0D8	SOIL	BS	7440-43-9	Cadmium	1.43E-01	U	UG/G	1.78E+00	1.78E+00	3.60E-02	0.2471	G	2.95E-02			10/24/11 22:12	1297218	46DQ	MNE7V1AA
J1M0D8	SOIL	BS	7440-47-3	Chromium	2.69E+02		UG/G	1.01E+00	1.01E+00	2.20E+00	0.2471	G	1.82E+00			10/24/11 22:12	1297218	46DQ	MNE7V1AA
J1M0D8	SOIL	BS	7439-92-1	Lead	2.35E+00	U	UG/G	3.52E+00	3.52E+00	6.20E-01	0.2471	G	5.07E-01			10/24/11 22:12	1297218	46DQ	MNE7V1AA
J1M0D8	SOIL	BS	7782-49-2	Se	-3.39E-01	U	UG/G	8.46E+00	8.46E+00	2.80E-01	0.2471	G	2.26E-01			10/24/11 22:12	1297218	46DQ	MNE7V1AA
J1M0D9	SOIL	BS	7440-22-4	Ag	-2.30E-01	U	UG/G	1.08E+00	1.08E+00	4.60E-02	0.2545	G	3.75E-02			10/24/11 22:15	1297218	46DQ	MNE7W1AA
J1M0D9	SOIL	BS	7440-38-2	As	1.06E-01	U	UG/G	4.24E+00	4.24E+00	1.50E+00	0.2545	G	1.22E+00			10/24/11 22:15	1297218	46DQ	MNE7W1AA
J1M0D9	SOIL	BS	7440-39-3	Ba	6.11E+01		UG/G	8.84E-01	8.84E-01	8.00E-01	0.2545	G	6.58E-01			10/24/11 22:15	1297218	46DQ	MNE7W1AA
J1M0D9	SOIL	BS	7440-41-7	Beryllium	2.27E-01		UG/G	1.18E-01	1.18E-01	1.10E-02	0.2545	G	9.00E-03			10/24/11 22:15	1297218	46DQ	MNE7W1AA
J1M0D9	SOIL	BS	7440-43-9	Cadmium	1.14E-01	U	UG/G	1.73E+00	1.73E+00	7.10E-02	0.2545	G	5.83E-02			10/24/11 22:15	1297218	46DQ	MNE7W1AA
J1M0D9	SOIL	BS	7440-47-3	Chromium	1.83E+01		UG/G	9.82E-01	9.82E-01	1.80E-01	0.2545	G	1.44E-01			10/24/11 22:15	1297218	46DQ	MNE7W1AA
J1M0D9	SOIL	BS	7439-92-1	Lead	2.62E+00	U	UG/G	3.42E+00	3.42E+00	2.30E-01	0.2545	G	1.89E-01			10/24/11 22:15	1297218	46DQ	MNE7W1AA
J1M0D9	SOIL	BS	7782-49-2	Se	-6.02E-01	U	UG/G	8.21E+00	8.21E+00	6.90E-01	0.2545	G	5.67E-01			10/24/11 22:15	1297218	46DQ	MNE7W1AA
J1M0F0	SOIL	BS	7440-22-4	Ag	-2.22E-01	U	UG/G	1.10E+00	1.10E+00	2.30E-01	0.249	G	1.92E-01			10/24/11 22:18	1297218	46DQ	MNE7X1AA
J1M0F0	SOIL	BS	7440-38-2	As	-3.34E-01	U	UG/G	4.34E+00	4.34E+00	4.70E-01	0.249	G	3.90E-01			10/24/11 22:18	1297218	46DQ	MNE7X1AA
J1M0F0	SOIL	BS	7440-39-3	Ba	6.67E+01		UG/G	9.04E-01	9.04E-01	2.30E-01	0.249	G	1.91E-01			10/24/11 22:18	1297218	46DQ	MNE7X1AA
J1M0F0	SOIL	BS	7440-41-7	Beryllium	2.46E-01		UG/G	1.20E-01	1.20E-01	5.60E-03	0.249	G	4.63E-03			10/24/11 22:18	1297218	46DQ	MNE7X1AA
J1M0F0	SOIL	BS	7440-43-9	Cadmium	1.44E-01	U	UG/G	1.77E+00	1.77E+00	4.70E-02	0.249	G	3.85E-02			10/24/11 22:18	1297218	46DQ	MNE7X1AA
J1M0F0	SOIL	BS	7440-47-3	Chromium	2.61E+02		UG/G	1.00E+00	1.00E+00	6.50E-01	0.249	G	5.31E-01			10/24/11 22:18	1297218	46DQ	MNE7X1AA
J1M0F0	SOIL	BS	7439-92-1	Lead	3.36E+00	U	UG/G	3.49E+00	3.49E+00	4.40E-01	0.249	G	3.59E-01			10/24/11 22:18	1297218	46DQ	MNE7X1AA
J1M0F0	SOIL	BS	7782-49-2	Se	-2.05E-01	U	UG/G	8.39E+00	8.39E+00	1.20E+00	0.249	G	9.46E-01			10/24/11 22:18	1297218	46DQ	MNE7X1AA
INTRA-LAB BLANK	SOIL	BLK	7440-22-4	Ag	-1.22E-03	U	MG/L	5.50E-03	5.50E-03	1.60E-04		L	1.33E-04			10/24/11 21:01	1297218	46DQ	MNE761AA
INTRA-LAB BLANK	SOIL	BLK	7440-38-2	As	-1.69E-03	U	MG/L	2.16E-02	2.16E-02	4.10E-03		L	3.34E-03			10/24/11 21:01	1297218	46DQ	MNE761AA
INTRA-LAB BLANK	SOIL	BLK	7440-39-3	Ba	-7.99E-05	U	MG/L	4.50E-03	4.50E-03	2.60E-05		L	2.16E-05			10/24/11 21:01	1297218	46DQ	MNE761AA
INTRA-LAB BLANK	SOIL	BLK	7440-41-7	Beryllium	-4.18E-07	U	MG/L	6.00E-04	6.00E-04	6.50E-05		L	5.36E-05			10/24/11 21:01	1297218	46DQ	MNE761AA
INTRA-LAB BLANK	SOIL	BLK	7440-43-9	Cadmium	2.13E-04	U	MG/L	8.80E-03	8.80E-03	2.70E-05		L	2.25E-05			10/24/11 21:01	1297218	46DQ	MNE761AA
INTRA-LAB BLANK	SOIL	BLK	7440-47-3	Chromium	-5.87E-04	U	MG/L	5.00E-03	5.00E-03	5.70E-04		L	4.73E-04			10/24/11 21:01	1297218	46DQ	MNE761AA
INTRA-LAB BLANK	SOIL	BLK	7439-92-1	Lead	4.83E-04	U	MG/L	1.74E-02	1.74E-02	2.70E-03		L	2.20E-03			10/24/11 21:01	1297218	46DQ	MNE761AA
INTRA-LAB BLANK	SOIL	BLK	7782-49-2	Se	-1.28E-03	U	MG/L	4.18E-02	4.18E-02	1.40E-03		L	1.13E-03			10/24/11 21:01	1297218	46DQ	MNE761AA
INTRA-LAB CHECK	SOIL	LCS	7440-22-4	Ag	9.01E-01		MG/L	5.50E-03	5.50E-03	7.90E-03		L	6.52E-03	0.9	1	10/24/11 21:14	1297218	46DQ	MNE761AA
INTRA-LAB CHECK	SOIL	LCS	7440-38-2	As	9.21E-01		MG/L	2.16E-02	2.16E-02	7.00E-03		L	5.73E-03	0.92	1	10/24/11 21:14	1297218	46DQ	MNE761AA
INTRA-LAB CHECK	SOIL	LCS	7440-39-3	Ba	9.50E-01		MG/L	4.50E-03	4.50E-03	1.00E-02		L	8.39E-03	0.95	1	10/24/11 21:14	1297218	46DQ	MNE761AA
INTRA-LAB CHECK	SOIL	LCS	7440-41-7	Beryllium	9.30E-01		MG/L	6.00E-04	6.00E-04	1.30E-02		L	1.07E-02	0.93	1	10/24/11 21:14	1297218	46DQ	MNE761AA
INTRA-LAB CHECK	SOIL	LCS	7440-43-9	Cadmium	9.08E-01		MG/L	8.80E-03	8.80E-03	1.50E-03		L	1.26E-03	0.91	1	10/24/11 21:14	1297218	46DQ	MNE761AA
INTRA-LAB CHECK	SOIL	LCS	7440-47-3	Chromium	9.33E-01		MG/L	5.00E-03	5.00E-03	1.40E-02		L	1.14E-02	0.93	1	10/24/11 21:14	1297218	46DQ	MNE761AA
INTRA-LAB CHECK	SOIL	LCS	7439-92-1	Lead	9.34E-01		MG/L	1.74E-02	1.74E-02	3.10E-03		L	2.58E-03	0.93	1	10/24/11 21:14	1297218	46DQ	MNE761AA
INTRA-LAB CHECK	SOIL	LCS	7782-49-2	Se	8.89E-01		MG/L	4.18E-02	4.18E-02	4.20E-03		L	3.49E-03	0.89	1	10/24/11 21:14	1297218	46DQ	MNE761AA
J1M0C8 DUP	SOIL	DUP	7440-22-4	Ag	-3.42E-01	U	UG/G	1.13E+00	1.13E+00	3.10E-01	0.2441	G	2.51E-01			10/24/11 21:31	1297218	46DQ	MNE7H1A0
J1M0C8 DUP	SOIL	DUP	7440-38-2	As	1.65E-01	U	UG/G	4.42E+00	4.42E+00	4.70E-01	0.2441	G	3.84E-01			10/24/11 21:31	1297218	46DQ	MNE7H1A0
J1M0C8 DUP	SOIL	DUP	7440-39-3	Ba	8.07E+01		UG/G	9.22E-01	9.22E-01	2.50E-01	0.2441	G	2.04E-01			10/24/11 21:31	1297218	46DQ	MNE7H1A0
J1M0C8 DUP	SOIL	DUP	7440-41-7	Beryllium	2.11E-01		UG/G	1.23E-01	1.23E-01	8.70E-03	0.2441	G	7.16E-03			10/24/11 21:31	1297218	46DQ	MNE7H1A0
J1M0C8 DUP	SOIL	DUP	7440-43-9	Cadmium	1.31E-01	U	UG/G	1.80E+00	1.80E+00	4.50E-02	0.2441	G	3.74E-02			10/24/11 21:31	1297218	46DQ	MNE7H1A0
J1M0C8 DUP	SOIL	DUP	7440-47-3	Chromium	8.73E+01		UG/G	1.02E+00	1.02E+00	5.50E-01	0.2441	G	4.52E-01			10/24/11 21:31	1297218	46DQ	MNE7H1A0
J1M0C8 DUP	SOIL	DUP	7439-92-1	Lead	2.32E+00	U	UG/G	3.56E+00	3.56E+00	9.80E-02	0.2441	G	8.02E-02			10/24/11 21:31	1297218	46DQ	MNE7H1A0
J1M0C8 DUP	SOIL	DUP	7782-49-2	Se	-7.87E-01	U	UG/G	8.56E+00	8.56E+00	4.40E-01	0.2441	G	3.61E-01			10/24/11 21:31	1297218	46DQ	MNE7H1A0
J1M0C8	SOIL	MS	7440-22-4	Ag	1.74E+02		% recovery	1.11E+00	1.11E+00	6.40E-02	0.2478	L	5.24E-02	0.86	201.8	10/24/11 21:24	1297218	46DQ	MNE7H1A0
J1M0C8	SOIL	MS	7440-38-2	As	1.76E+02		% recovery	4.36E+00	4.36E+00	2.20E+00	0.2478	L	1.77E+00	0.88	201.3	10/24/11 21:24	1297218	46DQ	MNE7H1A0
J1M0C8	SOIL	MS	7440-39-3	Ba	1.75E+02		% recovery	9.08E-01	9.08E-01	5.00E+00	0.2478	L	4.08E+00	1.26	138.8	10/24/11 21:24	1297218	46DQ	MNE7H1A0
J1M0C8	SOIL	MS	7440-41-7	Beryllium	1.81E+02		% recovery	1.21E-01	1.21E-01	1.90E-01	0.2478	L	1.56E-01	0.9	201.5	10/24/11 21:24	1297218	46DQ	MNE7H1A0

Client_id	Matrix	Result_type	Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limit	Reporting_Limi	Uncertainty_1	Analyzed_s	Analyzed_	Decision_level_	LCSRec	AddedAm	Analysis_date_time	Batch_nbr	Test_Method	Lab_sample_id
J1M0C8	SOIL	MS	7440-43-9	Cadmium	1.74E+02		% recovery	1.78E+00	1.78E+00	2.20E-01	0.2478 L		1.60E-01	0.87	201.6	10/24/11 21:24	1297218	46DQ	MNE7H1A0
J1M0C8	SOIL	MS	7440-47-3	Chromium	1.91E+02		% recovery	1.01E+00	1.01E+00	1.00E+00	0.2478 L		8.63E-01	1.32	144.6	10/24/11 21:24	1297218	46DQ	MNE7H1A0
J1M0C8	SOIL	MS	7439-92-1	Lead	1.75E+02		% recovery	3.51E+00	3.51E+00	1.50E+00	0.2478 L		1.20E+00	0.88	198.9	10/24/11 21:24	1297218	46DQ	MNE7H1A0
J1M0C8	SOIL	MS	7782-49-2	Se	1.71E+02		% recovery	8.43E+00	8.43E+00	6.00E-01	0.2478 L		4.90E-01	0.85	201.8	10/24/11 21:24	1297218	46DQ	MNE7H1A0
J1M0C8	SOIL	MSD	7440-22-4	Ag	1.76E+02		% recovery	1.12E+00	1.12E+00	4.70E-01	0.246 L		3.83E-01	0.87	203.3	10/24/11 21:28	1297218	46DQ	MNE7H1A0
J1M0C8	SOIL	MSD	7440-38-2	As	1.78E+02		% recovery	4.39E+00	4.39E+00	8.60E-01	0.246 L		7.06E-01	0.88	202.8	10/24/11 21:28	1297218	46DQ	MNE7H1A0
J1M0C8	SOIL	MSD	7440-39-3	Ba	1.95E+02		% recovery	9.15E-01	9.15E-01	5.20E-01	0.246 L		4.26E-01	1.35	144.2	10/24/11 21:28	1297218	46DQ	MNE7H1A0
J1M0C8	SOIL	MSD	7440-41-7	Beryllium	1.82E+02		% recovery	1.22E-01	1.22E-01	1.70E+00	0.246 L		1.36E+00	0.9	203	10/24/11 21:28	1297218	46DQ	MNE7H1A0
J1M0C8	SOIL	MSD	7440-43-9	Cadmium	1.78E+02		% recovery	1.79E+00	1.79E+00	9.70E-01	0.246 L		8.00E-01	0.87	203.1	10/24/11 21:28	1297218	46DQ	MNE7H1A0
J1M0C8	SOIL	MSD	7440-47-3	Chromium	1.92E+02		% recovery	1.02E+00	1.02E+00	2.30E+00	0.246 L		1.90E+00	1.32	145.7	10/24/11 21:28	1297218	46DQ	MNE7H1A0
J1M0C8	SOIL	MSD	7439-92-1	Lead	1.76E+02		% recovery	3.54E+00	3.54E+00	1.50E+00	0.246 L		1.19E+00	0.88	200.3	10/24/11 21:28	1297218	46DQ	MNE7H1A0
J1M0C8	SOIL	MSD	7782-49-2	Se	1.73E+02		% recovery	8.50E+00	8.50E+00	1.40E+00	0.246 L		1.17E+00	0.85	203.3	10/24/11 21:28	1297218	46DQ	MNE7H1A0

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): 1297217

Lab Sample Numbers or SDG: **J01304**

Method/Test/Parameter: **Cr+6 in SOLID / RL-WC-004**

Review Item	Yes (✓)	No (✓)	N/A (✓)	2nd Level Review (✓)
A. Initial Calibration 1. Performed at required frequency with required number of levels?	✓			✓
2. Correlation coefficient within QC limits?	✓			✓
3. Initial calibration verification (ICV) analyzed immediately after calibration and results within QC limits?	✓			✓
4. Initial calibration blank (ICB) analyzed immediately after ICV and concentrations of all parameters ≤ reporting limit?	✓			✓
B. Continuing Calibration 1. CCV analyzed at required frequency and all parameters within QC limits?	✓			✓
2. CCB analyzed at required frequency and all results ≤ reporting limit?	✓			✓
C. Sample Analysis 1. Were any samples with concentrations above the linear range for any parameter diluted and reanalyzed?	✓			✓
2. Were all sample holding times met?	✓			✓
D. QC Samples 1. All results for the preparation blank below limits?	✓			✓
2. MS or MS/MSD recoveries within QC limits and %RPD (for MSD) acceptable?	✓			✓
3. LCS percent recovery within QC limits and %RPD (for LCSD) acceptable?	✓			✓
4. Analytical spikes within QC limits where applicable?	✓			✓
5. ICP only: One serial dilution performed per SDG?			✓	✓
6. ICP only: CRDL standard (CRI or CRA) analyzed at required frequency?			✓	✓
7. ICP only: Interference check samples (ICSA, ICSAB) and HICAL analyzed at the required frequencies and within QC limits?			✓	✓

Review Item	Yes (✓)	No (✓)	N/A (✓)	2nd Level Review (✓)
E. Other 1. Are all nonconformances included and noted?	✓			✓
2. Is the correct date and time of analysis shown?	✓			✓
3. Did the analyst sign and date the front page of the analytical run?	✓			✓
4. Correct methodology used?	✓			✓
5. Transcriptions checked?	✓			✓
6. Calculations checked at minimum frequency?	✓			✓
7. Units checked?	✓			✓

Comments on any "No" response:

Analyst: [illegible] Date: 10-25-11

Second-Level Review: H. Rahavi Date: 10-25-11

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-074-326	Page 1 of 3

Collector Q Stowe	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator KESSNER, JH
Project Designation 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location 100-D-100 Excavation Area 40' bgs		SAF No. RC-074
Ice Chest No. N/A	Field Logbook No. EL-1607-12	COA 00D1002600	Method of Shipment Hand Deliver
Shipped To TestAmerica Incorporated, Richland	Offsite Property No. N/A		Bill of Lading/Air Bill No. N/A

Price Code ~~8L~~ 2A DN 10/24/11 Data Turnaround ~~21 Days~~ 24 Hr DN 10/24/11

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

J01304

J1J240451
Due 10-25-11

SAMPLE ANALYSIS

Preservation				Cool 4C	Cool 4C	Cool 4c							
Type of Container				G/P	G/P	G/P							
No. of Container(s)				1	1	1	DN 10/24/11						
Volume				125mL	125mL	125ml							
				See item (1) in Special Instructions.	Chromium Hex - 7196 - Quick Turn {Hexavalent Chromium}	TCLP ICP Metals							
Sample No.	Matrix *	Sample Date	Sample Time										
J1M0C8 MNE7H	SOIL	10-24-11	1222	X	X	X							
J1M0C9 MNE7J	SOIL	10-24-11	1216	X	X	X							
J1M0D0 MNE7K	SOIL	10-24-11	1230	X	X	X							
J1M0D1 MNE7L	SOIL	10-24-11	1238	X	X	X							
J1M0D2 MNE7M	SOIL	10-24-11	1226	X	X	X							

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From Quincy Stowe	Date/Time 10/24/11 1315	Received By/Stored In D Newman	Date/Time 10/24/11 1315
Relinquished By/Removed From D. Newman	Date/Time 10/24/11 1610	Received By/Stored In A. Freier	Date/Time 10-24-11 1610
Relinquished By/Removed From A. Freier	Date/Time 10-24-11 1635	Received By/Stored In [illegible]	Date/Time 1635 10/24/11
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

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

Tranship remaining material to Denver for TCLP ICP metals analysis following analysis at Richland.

DN 10/24/11

REVIEWED BY
DATE 10-24-11

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

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-074-326	Page 2 of 3

Collector Q Stowe	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator KESSNER, JH
Price Code ~~8L~~ 2A 10/24/11	Data Turnaround ~~21 Days~~ 24 Hr 10/24/11		
Project Designation 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location 100-D-100 Excavation Area 40' bgs		SAF No. RC-074
Ice Chest No. N/A	Field Logbook No. EL-1607-12	COA 00D1002600	Method of Shipment 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

Cool 4 Deg C

J01304

J1J240451
Due 10-25-11

Preservation	Cool 4C	Cool 4C	Cool 4C									
Type of Container	G/P	G/P	G/P									
No. of Container(s)	1	1	Ø	D.N. 10/24/11								
Volume	125mL	125mL	125ml									
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196 - Quick Turn (Hexavalent Chromium)	TCLP ICP Metals									

Sample No.	Matrix *	Sample Date	Sample Time										
J1M0D3 MNEMN	SOIL	10-24-11	1220	X	X	X							
J1M0D4 MNEMP	SOIL	10-24-11	1232	X	X	X							
J1M0D5 MNEMQ	SOIL	10-24-11	1236	X	X	X							
J1M0D6 MNEMR	SOIL	10-24-11	1224	X	X	X							
J1M0D7 MNEMT	SOIL	10-24-11	1234	X	X	X							

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Quincy Stowe	10/24/11 1315	D. Newman	10/24/11 1315
D. Newman	10/24/11 1610	A. Freier	10-24-11 1610
A. Freier (WCH)	10-24-11 1635	Lucas Velazquez (TAL)	10/24/11 1635

SPECIAL INSTRUCTIONS

(1) Metals by ICP - 6010 - Quick Turn (Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver)

Tranship remaining material to Denver for TCLP Analysis following Analysis at Richland

DN 10/24/11

REVIEWED BY
DATE 10-24-11

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

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-074-326	Page 3 of 3
Collector: Q Stowe	Company Contact: Joan Kessner; Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH	Price Code: ~~8L~~ 24 DN 10/24/11; Data Turnaround: ~~21 Days~~ 24 Hr DN 10/24/11
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location: 100-D-100 Excavation Area 40' bgs	SAF No.: RC-074	
Ice Chest No.: N/A	Field Logbook No.: EL-1607-12; COA: 00D1002600	Method of Shipment: 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

Cool 4 Deg C

J01304

J1J240451
Due 10-25-11

Preservation	Cool 4C	Cool 4C	Cool 4C								
Type of Container	G/P	G/P	G/P								
No. of Container(s)	1	1	Ø								
Volume	125mL	125mL	125ml	DN 10/24/11							
SAMPLE ANALYSIS	See item (1) in Special Instructions	Chromium Hex - 7196 - Quick Turn (Hexavalent Chromium)	TCLP ICP Metals								

Sample No.	Matrix *	Sample Date	Sample Time										
J1M0D8 MNE7V	SOIL	10-24-11	1218	X	X	X							
J1M0D9 MNE7W	SOIL	10-24-11	1228	X	X	X							
J1M0F0 MNE7X	SOIL	10-24-11	1214	X	X	X							
J1M0F1 MNE7D	SOIL	10-24-11	1212	X	X	X							
J1M0F2 MNE71	SOIL	10-24-11	1210	X	X	X							

CHAIN OF POSSESSION	Sign/Print Names	
Relinquished By/Removed From: Quincy Stowe — Date/Time: 10/24/11 1315	Received By/Stored In: D. Newman — Date/Time: 10/24/11 1315	
Relinquished By/Removed From: D. Newman — Date/Time: 10/24/11 1610	Received By/Stored In: A. Freier — Date/Time: 10-24-11 1610	
Relinquished By/Removed From: WCH A. Freier — Date/Time: 10-24-11 1635	Received By/Stored In: THAP Lucas Velazquez — Date/Time: 1635 10/24/11	
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

(1) Metals by ICP - 6010 - Quick Turn (Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver)

Tranship remaining material to Denver for TCLP ICP metals analysis following analysis at Richland.

DN 10/24/11

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

RECEIVED BY
DATE 10-24-11

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

WCH-EE-011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 10-24-11 / 1635 Container GM Screen Result: (Airlock) .06 Initials [ ]
Sample GM Screen Result (Sample Receiving) .06 Initials [ ]

Client: WCH SDG #: J01304 NA [ ] SAF #: RL074 NA [ ]

Lot Number: J1J240451

Chain of Custody # RL-074-326

Shipping Container ID: hand delivered NA [ ] 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: 0°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): 15
7. Containers received: ~~15~~ 10-24-11 30 x 125 mLP
8. Sample holding times exceeded? NA [ ] Yes [ ] No [ ]
9. Samples have:
   ____ tape
   ____ custody seals
   ____ hazard labels
   ____ appropriate sample labels
10. Matrix:
    ____ A (FLT, Wipe, Solid, Soil)
    ____ S (Air, Niosh 7400)
    ____ I (Water)
    ____ T (Biological, Ni-63)
11. Samples:
    ____ are in good condition
    ____ are broken
    ____ are leaking
    ____ 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, then document sample ID, initial pH, amount of HNO_3 added and pH after addition on table overleaf)

    RPL ID # of preservative used :
13. Were any anomalies identified in sample receipt? Yes [ ] No [ ]
14. Description of anomalies (include sample numbers): NA [ ]

LS-023, Rev. 15, 07/11 See over for additional information.

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15. Sample Location, Sample Collector Listed on COC? * Yes [✓] No [ ]
*For documentation only. No corrective action needed.

16. Additional Information: _____

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

Sample Custodian: [illegible] 1635 Date: 10-24-11

Client Informed on _____ by _____ Person contacted _____

[✓] No action necessary; process as is

Project Manager [illegible] Date 10/25/11

SAMPLE ID	Initial pH	Acid Amt	Final pH	SAMPLE ID	Initial pH	Acid Amt	Final pH

10-24-11 10-24-11

JTJ240451 PW 10/25/11

LS-023, Rev. 15, 07/11 See over for additional information.

10/24/2011 6:44:17 PM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC ,
Washington Closure Hanford LLC

DW Alkaline Digestion by method 3060A
EA Chromium, Hexavalent (7196A)

AnalyDueDate: 10/25/2011

5I CLIENT: HANFORD

Balance Id:

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

Batch: 1297217 **SOIL** **mg/kg** **PM, Quote: RW2, 88144**

SEQ Batch, Test: None All Tests: , 46DQ, 1297217 DWEA,

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MNE7H-1-AC													
J1J240451-1-SAMP													
10/24/2011 12:22			AmtRec: 2X125MLP		#Containers: 2				Scr:		Alpha:		Beta:
2 MNE7H-1-AL-S													
J1J240451-1-MS													
10/24/2011 12:22			AmtRec: 2X125MLP		#Containers: 2				Scr:		Alpha:		Beta:
3 MNE7H-1-AM-D													
J1J240451-1-MSD													
10/24/2011 12:22			AmtRec: 2X125MLP		#Containers: 2				Scr:		Alpha:		Beta:
4 MNE7H-1-AN-X													
J1J240451-1-DUP													
10/24/2011 12:22			AmtRec: 2X125MLP		#Containers: 2				Scr:		Alpha:		Beta:
5 MNE7J-1-AC													
J1J240451-2-SAMP													
10/24/2011 12:16			AmtRec: 2X125MLP		#Containers: 2				Scr:		Alpha:		Beta:
6 MNE7K-1-AC													
J1J240451-3-SAMP													
10/24/2011 12:30			AmtRec: 2X125MLP		#Containers: 2				Scr:		Alpha:		Beta:
7 MNE7L-1-AC													
J1J240451-4-SAMP													
10/24/2011 12:38			AmtRec: 2X125MLP		#Containers: 2				Scr:		Alpha:		Beta:

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10/24/2011 6:44:18 PM

Sample Preparation/Analysis

Balance Id:

127642, Washington Closure Hanford LLC
Washington Closure Hanford LLC

DW Alkaline Digestion by method 3060A
EA Chromium, Hexavalent (7196A)
5I CLIENT: HANFORD

Pipet #:

AnalyDueDate: 10/25/2011

Sep1 DT/Tm Tech:

Batch: 1297217 SOIL mg/kg PM, Quote: RW2, 88144

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MNE7M-1-AC J1J240451-5-SAMP 10/24/2011 12:26			AmtRec: 2X125MLP		#Containers: 2				Scr:		Alpha:		Beta:
9 MNE7N-1-AC J1J240451-6-SAMP 10/24/2011 12:20			AmtRec: 2X125MLP		#Containers: 2				Scr:		Alpha:		Beta:
10 MNE7P-1-AC J1J240451-7-SAMP 10/24/2011 12:32			AmtRec: 2X125MLP		#Containers: 2				Scr:		Alpha:		Beta:
11 MNE7Q-1-AC J1J240451-8-SAMP 10/24/2011 12:36			AmtRec: 2X125MLP		#Containers: 2				Scr:		Alpha:		Beta:
12 MNE7R-1-AC J1J240451-9-SAMP 10/24/2011 12:24			AmtRec: 2X125MLP		#Containers: 2				Scr:		Alpha:		Beta:
13 MNE7T-1-AC J1J240451-10-SAMP 10/24/2011 12:34			AmtRec: 2X125MLP		#Containers: 2				Scr:		Alpha:		Beta:
14 MNE7V-1-AC J1J240451-11-SAMP 10/24/2011 12:18			AmtRec: 2X125MLP		#Containers: 2				Scr:		Alpha:		Beta:

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10/24/2011 6:44:18 PM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Washington Closure Hanford LLC

DW Alkaline Digestion by method 3060A
EA Chromium, Hexavalent (7196A)

AnalyDueDate: 10/25/2011

5I CLIENT: HANFORD

Batch: 1297217 SOIL mg/kg
SEQ Batch, Test: None

PM, Quote: RW2, 88144

Balance Id:
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech:

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MNE7W-1-AC J1J240451-12-SAMP 10/24/2011 12:28			AmtRec: 2X125MLP		#Containers: 2				Scr:		Alpha:		Beta:
16 MNE7X-1-AC J1J240451-13-SAMP 10/24/2011 12:14			AmtRec: 2X125MLP		#Containers: 2				Scr:		Alpha:		Beta:
17 MNE70-1-AC J1J240451-14-SAMP 10/24/2011 12:12			AmtRec: 2X125MLP		#Containers: 2				Scr:		Alpha:		Beta:
18 MNE71-1-AC J1J240451-15-SAMP 10/24/2011 12:10			AmtRec: 2X125MLP		#Containers: 2				Scr:		Alpha:		Beta:
19 MNE74-1-AA-B J1J240000-217-BLK 10/24/2011 18:44 pd			AmtRec:		#Containers: 1				Scr:		Alpha:		Beta:
20 MNE74-1-AC-C J1J240000-217-LCS 10/24/2011 18:44 pd			AmtRec:		#Containers: 1				Scr:		Alpha:		Beta:

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10/24/2011 6:44:19 PM

Sample Preparation/Analysis

DW Alkaline Digestion by method 3060A
EA Chromium, Hexavalent (7196A)
5I CLIENT: HANFORD

Balance Id:

Pipet #: _____

AnalyDueDate: 10/25/2011

Sep1 DT/Tm Tech:

Batch: 1297217 mg/kg

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech:

Work Ord, Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

Comments:

All Clients for Batch:
127642, Washington Closure Hanford LLC Washington Closure Hanford LLC, RW2, 88144

MNE7H1AC-SAMP Constituent List:

MNE7H1AL-MS Constituent List:

MNE7H1AM-MSD:

MNE741AA-BLK:

MNE741AC-LCS:

MNE7H1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MNE7H1AL-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MNE7H1AM-MSD:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MNE741AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MNE741AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

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ANALYTICAL REPORT

RECEIVED NOV 2011

Job Number: 280-22030-1

SDG Number: J01304

Job Description: SAF# RC-074

For:
Washington Closure Hanford
2620 Fermi Avenue
Richland, WA 99354

Attention: Joan H Kessner

Approved for release.
Kae E Yoder
Project Manager II
11/1/2011 2:31 PM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
11/01/2011

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, 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

ACCREDITED IN ACCORDANCE WITH nelac

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CASE NARRATIVE

Client: Washington Closure Hanford

Project: WASHINGTON CLOSURE HANFORD

Report Number: 280-22030-1

SDG #: J01304
SAF#: RC-074

Date SDG Closed: October 26, 2011
Data Deliverable: 7 Day / Summary

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1M0C8	280-22030-1	1311-6010-7470	1311-6010B-7470A
J1M0C9	280-22030-2	1311-6010-7470	1311-6010B-7470A
J1M0D0	280-22030-3	1311-6010-7470	1311-6010B-7470A
J1M0D1	280-22030-4	1311-6010-7470	1311-6010B-7470A
J1M0D2	280-22030-5	1311-6010-7470	1311-6010B-7470A
J1M0D3	280-22030-6	1311-6010-7470	1311-6010B-7470A
J1M0D4	280-22030-7	1311-6010-7470	1311-6010B-7470A
J1M0D5	280-22030-8	1311-6010-7470	1311-6010B-7470A
J1M0D6	280-22030-9	1311-6010-7470	1311-6010B-7470A
J1M0D7	280-22030-10	1311-6010-7470	1311-6010B-7470A
J1M0D8	280-22030-11	1311-6010-7470	1311-6010B-7470A
J1M0D9	280-22030-12	1311-6010-7470	1311-6010B-7470A
J1M0F0	280-22030-13	1311-6010-7470	1311-6010B-7470A
J1M0F1	280-22030-14	1311-6010-7470	1311-6010B-7470A
J1M0F2	280-22030-15	1311-6010-7470	1311-6010B-7470A

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 10/26/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 4.7 C.

Samples were received at TestAmerica Denver without a custody seal on the associated cooler or sample containers. The client was notified on 10/27/2011.

Samples listed on the chains-of-custody were logged for TCLP Metals 1311/6010B/7470A analysis with a 7 day turnaround time, as instructed by the client.

Due to a laboratory accident in Sample Receiving, most of sample J1M0D3 was lost. 8.74 grams of uncompromised sample remained. Sufficient volume remained for the laboratory to proceed with the requested TCLP Metals 1311/6010B/7470A analysis. The client was notified on 10/27/2011.

TCLP METALS - SW846 1311/6010B/7470A
Due to a laboratory accident, insufficient sample was available to perform the leaching procedure with the required 100g for sample J1M0D3 (8.74g available). The volume of leaching fluid was adjusted proportionally to maintain a 20:1 ratio of leaching fluid to weight of sample.

Low levels of Barium are present in the method blank associated with batch 280-93527. Because the concentration in the method blank is not present at a level greater than half the reporting limit, corrective action is deemed unnecessary.

No other anomalies were encountered.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-22030-1
Sdg Number: J01304

Lab Section	Qualifier	Description
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: 280-22030-1
Sdg Number: J01304

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
TCLP Metals (ICP)	TAL DEN	SW846 6010B	
TCLP Extraction			SW846 1311
Preparation, Total Metals			SW846 3010A
TCLP Mercury	TAL DEN	SW846 7470A	
TCLP Extraction			SW846 1311
Preparation, Mercury			SW846 7470A

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: 280-22030-1
Sdg Number: J01304

Method	Analyst	Analyst ID
SW846 6010B	Bowen, Heidi E	HEB
SW846 6010B	Harre, John K	JKH
SW846 7470A	Rawlings, Brendon L	BLR

SAMPLE SUMMARY

Client: Washington Closure Hanford

Job Number: 280-22030-1
Sdg Number: J01304

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-22030-1	J1M0C8	Solid	10/24/2011 1222	10/26/2011 0900
280-22030-2	J1M0C9	Solid	10/24/2011 1216	10/26/2011 0900
280-22030-3	J1M0D0	Solid	10/24/2011 1230	10/26/2011 0900
280-22030-4	J1M0D1	Solid	10/24/2011 1238	10/26/2011 0900
280-22030-5	J1M0D2	Solid	10/24/2011 1226	10/26/2011 0900
280-22030-6	J1M0D3	Solid	10/24/2011 1220	10/26/2011 0900
280-22030-7	J1M0D4	Solid	10/24/2011 1232	10/26/2011 0900
280-22030-8	J1M0D5	Solid	10/24/2011 1236	10/26/2011 0900
280-22030-9	J1M0D6	Solid	10/24/2011 1224	10/26/2011 0900
280-22030-10	J1M0D7	Solid	10/24/2011 1234	10/26/2011 0900
280-22030-11	J1M0D8	Solid	10/24/2011 1218	10/26/2011 0900
280-22030-12	J1M0D9	Solid	10/24/2011 1228	10/26/2011 0900
280-22030-13	J1M0F0	Solid	10/24/2011 1214	10/26/2011 0900
280-22030-14	J1M0F1	Solid	10/24/2011 1212	10/26/2011 0900
280-22030-15	J1M0F2	Solid	10/24/2011 1210	10/26/2011 0900

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-22030-1
Sdg Number: J01304

Client Sample ID: **J1M0C8**

Lab Sample ID: 280-22030-1
Client Matrix: Solid

Date Sampled: 10/24/2011 1222
Date Received: 10/26/2011 0900

6010B TCLP Metals (ICP)-TCLP

Analysis Method:	6010B	Analysis Batch:	280-93916	Instrument ID:	MT_025
Prep Method:	3010A	Prep Batch:	280-93527	Lab File ID:	25b102911.asc
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	10 mL
Analysis Date:	10/29/2011 1956			Final Weight/Volume:	50 mL
Prep Date:	10/28/2011 1400				
Leach Date:	10/26/2011 1840				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Arsenic		0.023	B	0.022	0.50
Barium		0.54	B	0.0020	1.0
Cadmium		0.0020	U	0.0020	0.10
Chromium		3.6		0.0030	0.50
Lead		0.013	U	0.013	0.50
Selenium		0.024	U	0.024	0.10
Silver		0.0050	B	0.0040	0.50

7470A TCLP Mercury-TCLP

Analysis Method:	7470A	Analysis Batch:	280-93947	Instrument ID:	MT_033
Prep Method:	7470A	Prep Batch:	280-93517	Lab File ID:	111028ad.txt
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	30 mL
Analysis Date:	10/28/2011 2227			Final Weight/Volume:	30 mL
Prep Date:	10/28/2011 1345				
Leach Date:	10/26/2011 1840				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Mercury		0.000030	U	0.000030	0.0020

Client: Washington Closure Hanford

Job Number: 280-22030-1
Sdg Number: J01304

Client Sample ID: **J1M0C9**

Lab Sample ID: 280-22030-2
Client Matrix: Solid

Date Sampled: 10/24/2011 1216
Date Received: 10/26/2011 0900

6010B TCLP Metals (ICP)-TCLP

Analysis Method:	6010B	Analysis Batch:	280-93916	Instrument ID:	MT_025
Prep Method:	3010A	Prep Batch:	280-93527	Lab File ID:	25b102911.asc
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	10 mL
Analysis Date:	10/29/2011 1958			Final Weight/Volume:	50 mL
Prep Date:	10/28/2011 1400				
Leach Date:	10/26/2011 1840				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Arsenic		0.15	B	0.022	0.50
Barium		0.28	B	0.0020	1.0
Cadmium		0.0020	U	0.0020	0.10
Chromium		37.4		0.0030	0.50
Lead		0.013	U	0.013	0.50
Selenium		0.024	U	0.024	0.10
Silver		0.0041	B	0.0040	0.50

7470A TCLP Mercury-TCLP

Analysis Method:	7470A	Analysis Batch:	280-93947	Instrument ID:	MT_033
Prep Method:	7470A	Prep Batch:	280-93517	Lab File ID:	111028ad.txt
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	30 mL
Analysis Date:	10/28/2011 2230			Final Weight/Volume:	30 mL
Prep Date:	10/28/2011 1345				
Leach Date:	10/26/2011 1840				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Mercury		0.000030	U	0.000030	0.0020

Client: Washington Closure Hanford

Job Number: 280-22030-1
Sdg Number: J01304

Client Sample ID: **J1M0D0**

Lab Sample ID: 280-22030-3
Client Matrix: Solid

Date Sampled: 10/24/2011 1230
Date Received: 10/26/2011 0900

6010B TCLP Metals (ICP)-TCLP

Analysis Method:	6010B	Analysis Batch:	280-94119	Instrument ID:	MT_025
Prep Method:	3010A	Prep Batch:	280-93527	Lab File ID:	25A2103111.asc
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	10 mL
Analysis Date:	10/31/2011 1751			Final Weight/Volume:	50 mL
Prep Date:	10/28/2011 1400				
Leach Date:	10/26/2011 1840				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Arsenic		0.022	U	0.022	0.50
Barium		0.49	B	0.0020	1.0
Cadmium		0.0020	U	0.0020	0.10
Chromium		2.7		0.0030	0.50
Lead		0.017	B	0.013	0.50
Selenium		0.024	U	0.024	0.10
Silver		0.0040	U	0.0040	0.50

7470A TCLP Mercury-TCLP

Analysis Method:	7470A	Analysis Batch:	280-93947	Instrument ID:	MT_033
Prep Method:	7470A	Prep Batch:	280-93517	Lab File ID:	111028ad.txt
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	30 mL
Analysis Date:	10/28/2011 2232			Final Weight/Volume:	30 mL
Prep Date:	10/28/2011 1345				
Leach Date:	10/26/2011 1840				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Mercury		0.000030	U	0.000030	0.0020

Client: Washington Closure Hanford

Job Number: 280-22030-1
Sdg Number: J01304

Client Sample ID: **J1M0D1**

Lab Sample ID: 280-22030-4
Client Matrix: Solid

Date Sampled: 10/24/2011 1238
Date Received: 10/26/2011 0900

6010B TCLP Metals (ICP)-TCLP

Analysis Method:	6010B	Analysis Batch:	280-93916	Instrument ID:	MT_025
Prep Method:	3010A	Prep Batch:	280-93527	Lab File ID:	25b102911.asc
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	10 mL
Analysis Date:	10/29/2011 2003			Final Weight/Volume:	50 mL
Prep Date:	10/28/2011 1400				
Leach Date:	10/26/2011 1840				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Arsenic		0.022	U	0.022	0.50
Barium		0.28	B	0.0020	1.0
Cadmium		0.0020	U	0.0020	0.10
Chromium		1.6		0.0030	0.50
Lead		0.020	B	0.013	0.50
Selenium		0.024	U	0.024	0.10
Silver		0.0040	U	0.0040	0.50

7470A TCLP Mercury-TCLP

Analysis Method:	7470A	Analysis Batch:	280-93947	Instrument ID:	MT_033
Prep Method:	7470A	Prep Batch:	280-93517	Lab File ID:	111028ad.txt
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	30 mL
Analysis Date:	10/28/2011 2234			Final Weight/Volume:	30 mL
Prep Date:	10/28/2011 1345				
Leach Date:	10/26/2011 1840				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Mercury		0.000030	U	0.000030	0.0020

Client: Washington Closure Hanford

Job Number: 280-22030-1
Sdg Number: J01304

Client Sample ID: **J1M0D2**

Lab Sample ID: 280-22030-5
Client Matrix: Solid

Date Sampled: 10/24/2011 1226
Date Received: 10/26/2011 0900

6010B TCLP Metals (ICP)-TCLP

Analysis Method:	6010B	Analysis Batch:	280-93916	Instrument ID:	MT_025
Prep Method:	3010A	Prep Batch:	280-93527	Lab File ID:	25b102911.asc
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	10 mL
Analysis Date:	10/29/2011 2006			Final Weight/Volume:	50 mL
Prep Date:	10/28/2011 1400				
Leach Date:	10/26/2011 1840				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Arsenic		0.022	B	0.022	0.50
Barium		0.44	B	0.0020	1.0
Cadmium		0.0020	U	0.0020	0.10
Chromium		0.0066	B	0.0030	0.50
Lead		0.013	U	0.013	0.50
Selenium		0.024	U	0.024	0.10
Silver		0.0040	U	0.0040	0.50

7470A TCLP Mercury-TCLP

Analysis Method:	7470A	Analysis Batch:	280-93947	Instrument ID:	MT_033
Prep Method:	7470A	Prep Batch:	280-93517	Lab File ID:	111028ad.txt
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	30 mL
Analysis Date:	10/28/2011 2236			Final Weight/Volume:	30 mL
Prep Date:	10/28/2011 1345				
Leach Date:	10/26/2011 1840				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Mercury		0.000030	U	0.000030	0.0020

Client: Washington Closure Hanford

Job Number: 280-22030-1
Sdg Number: J01304

Client Sample ID: **J1M0D3**

Lab Sample ID: 280-22030-6
Client Matrix: Solid

Date Sampled: 10/24/2011 1220
Date Received: 10/26/2011 0900

6010B TCLP Metals (ICP)-TCLP

Analysis Method:	6010B	Analysis Batch:	280-93916	Instrument ID:	MT_025
Prep Method:	3010A	Prep Batch:	280-93527	Lab File ID:	25b102911.asc
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	10 mL
Analysis Date:	10/29/2011 2009			Final Weight/Volume:	50 mL
Prep Date:	10/28/2011 1400				
Leach Date:	10/26/2011 1840				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Arsenic		0.13	B	0.022	0.50
Barium		0.47	B	0.0020	1.0
Cadmium		0.0020	U	0.0020	0.10
Chromium		32.2		0.0030	0.50
Lead		0.013	U	0.013	0.50
Selenium		0.024	U	0.024	0.10
Silver		0.0040	U	0.0040	0.50

7470A TCLP Mercury-TCLP

Analysis Method:	7470A	Analysis Batch:	280-93947	Instrument ID:	MT_033
Prep Method:	7470A	Prep Batch:	280-93517	Lab File ID:	111028ad.txt
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	30 mL
Analysis Date:	10/28/2011 2239			Final Weight/Volume:	30 mL
Prep Date:	10/28/2011 1345				
Leach Date:	10/26/2011 1840				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Mercury		0.000030	U	0.000030	0.0020

Client: Washington Closure Hanford

Job Number: 280-22030-1
Sdg Number: J01304

Client Sample ID: **J1M0D4**

Lab Sample ID: 280-22030-7
Client Matrix: Solid

Date Sampled: 10/24/2011 1232
Date Received: 10/26/2011 0900

6010B TCLP Metals (ICP)-TCLP

Analysis Method:	6010B	Analysis Batch:	280-93916	Instrument ID:	MT_025
Prep Method:	3010A	Prep Batch:	280-93527	Lab File ID:	25b102911.asc
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	10 mL
Analysis Date:	10/29/2011 2011			Final Weight/Volume:	50 mL
Prep Date:	10/28/2011 1400				
Leach Date:	10/26/2011 1840				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Arsenic		0.022	U	0.022	0.50
Barium		0.82	B	0.0020	1.0
Cadmium		0.0020	U	0.0020	0.10
Chromium		0.011	B	0.0030	0.50
Lead		0.013	U	0.013	0.50
Selenium		0.024	U	0.024	0.10
Silver		0.0040	U	0.0040	0.50

7470A TCLP Mercury-TCLP

Analysis Method:	7470A	Analysis Batch:	280-93947	Instrument ID:	MT_033
Prep Method:	7470A	Prep Batch:	280-93517	Lab File ID:	111028ad.txt
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	30 mL
Analysis Date:	10/28/2011 2246			Final Weight/Volume:	30 mL
Prep Date:	10/28/2011 1345				
Leach Date:	10/26/2011 1840				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Mercury		0.000030	U	0.000030	0.0020

Client: Washington Closure Hanford

Job Number: 280-22030-1
Sdg Number: J01304

Client Sample ID: **J1M0D5**

Lab Sample ID: 280-22030-8
Client Matrix: Solid

Date Sampled: 10/24/2011 1236
Date Received: 10/26/2011 0900

6010B TCLP Metals (ICP)-TCLP

Analysis Method:	6010B	Analysis Batch:	280-93916	Instrument ID:	MT_025
Prep Method:	3010A	Prep Batch:	280-93527	Lab File ID:	25b102911.asc
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	10 mL
Analysis Date:	10/29/2011 2014			Final Weight/Volume:	50 mL
Prep Date:	10/28/2011 1400				
Leach Date:	10/26/2011 1840				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Arsenic		0.022	U	0.022	0.50
Barium		0.30	B	0.0020	1.0
Cadmium		0.0020	U	0.0020	0.10
Chromium		0.35	B	0.0030	0.50
Lead		0.013	U	0.013	0.50
Selenium		0.024	U	0.024	0.10
Silver		0.0054	B	0.0040	0.50

7470A TCLP Mercury-TCLP

Analysis Method:	7470A	Analysis Batch:	280-93947	Instrument ID:	MT_033
Prep Method:	7470A	Prep Batch:	280-93517	Lab File ID:	111028ad.txt
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	30 mL
Analysis Date:	10/28/2011 2248			Final Weight/Volume:	30 mL
Prep Date:	10/28/2011 1345				
Leach Date:	10/26/2011 1840				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Mercury		0.000030	U	0.000030	0.0020

Client: Washington Closure Hanford

Job Number: 280-22030-1
Sdg Number: J01304

Client Sample ID: **J1M0D6**

Lab Sample ID: 280-22030-9
Client Matrix: Solid

Date Sampled: 10/24/2011 1224
Date Received: 10/26/2011 0900

6010B TCLP Metals (ICP)-TCLP

Analysis Method:	6010B	Analysis Batch:	280-93916	Instrument ID:	MT_025
Prep Method:	3010A	Prep Batch:	280-93527	Lab File ID:	25b102911.asc
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	10 mL
Analysis Date:	10/29/2011 2026			Final Weight/Volume:	50 mL
Prep Date:	10/28/2011 1400				
Leach Date:	10/26/2011 1840				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Arsenic		0.022	U	0.022	0.50
Barium		0.63	B	0.0020	1.0
Cadmium		0.0020	U	0.0020	0.10
Chromium		1.4		0.0030	0.50
Lead		0.016	B	0.013	0.50
Selenium		0.024	U	0.024	0.10
Silver		0.0051	B	0.0040	0.50

7470A TCLP Mercury-TCLP

Analysis Method:	7470A	Analysis Batch:	280-93947	Instrument ID:	MT_033
Prep Method:	7470A	Prep Batch:	280-93517	Lab File ID:	111028ad.txt
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	30 mL
Analysis Date:	10/28/2011 2250			Final Weight/Volume:	30 mL
Prep Date:	10/28/2011 1345				
Leach Date:	10/26/2011 1840				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Mercury		0.000030	U	0.000030	0.0020

Client: Washington Closure Hanford

Job Number: 280-22030-1
Sdg Number: J01304

Client Sample ID: **J1M0D7**

Lab Sample ID: 280-22030-10
Client Matrix: Solid

Date Sampled: 10/24/2011 1234
Date Received: 10/26/2011 0900

6010B TCLP Metals (ICP)-TCLP

Analysis Method:	6010B	Analysis Batch:	280-93916	Instrument ID:	MT_025
Prep Method:	3010A	Prep Batch:	280-93527	Lab File ID:	25b102911.asc
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	10 mL
Analysis Date:	10/29/2011 2029			Final Weight/Volume:	50 mL
Prep Date:	10/28/2011 1400				
Leach Date:	10/26/2011 1840				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Arsenic		0.026	B	0.022	0.50
Barium		0.34	B	0.0020	1.0
Cadmium		0.0020	U	0.0020	0.10
Chromium		2.6		0.0030	0.50
Lead		0.014	B	0.013	0.50
Selenium		0.024	U	0.024	0.10
Silver		0.0040	U	0.0040	0.50

7470A TCLP Mercury-TCLP

Analysis Method:	7470A	Analysis Batch:	280-93947	Instrument ID:	MT_033
Prep Method:	7470A	Prep Batch:	280-93517	Lab File ID:	111028ad.txt
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	30 mL
Analysis Date:	10/28/2011 2252			Final Weight/Volume:	30 mL
Prep Date:	10/28/2011 1345				
Leach Date:	10/26/2011 1840				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Mercury		0.000030	U	0.000030	0.0020

Client: Washington Closure Hanford

Job Number: 280-22030-1
Sdg Number: J01304

Client Sample ID: **J1M0D8**

Lab Sample ID: 280-22030-11
Client Matrix: Solid

Date Sampled: 10/24/2011 1218
Date Received: 10/26/2011 0900

6010B TCLP Metals (ICP)-TCLP

Analysis Method:	6010B	Analysis Batch:	280-93916	Instrument ID:	MT_025
Prep Method:	3010A	Prep Batch:	280-93527	Lab File ID:	25b102911.asc
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	10 mL
Analysis Date:	10/29/2011 2031			Final Weight/Volume:	50 mL
Prep Date:	10/28/2011 1400				
Leach Date:	10/26/2011 1840				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Arsenic		0.060	B	0.022	0.50
Barium		0.36	B	0.0020	1.0
Cadmium		0.0020	U	0.0020	0.10
Chromium		14.4		0.0030	0.50
Lead		0.013	U	0.013	0.50
Selenium		0.024	U	0.024	0.10
Silver		0.0040	U	0.0040	0.50

7470A TCLP Mercury-TCLP

Analysis Method:	7470A	Analysis Batch:	280-93947	Instrument ID:	MT_033
Prep Method:	7470A	Prep Batch:	280-93517	Lab File ID:	111028ad.txt
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	30 mL
Analysis Date:	10/28/2011 2255			Final Weight/Volume:	30 mL
Prep Date:	10/28/2011 1345				
Leach Date:	10/26/2011 1840				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Mercury		0.000030	U	0.000030	0.0020

Client: Washington Closure Hanford

Job Number: 280-22030-1
Sdg Number: J01304

Client Sample ID: **J1M0D9**

Lab Sample ID: 280-22030-12
Client Matrix: Solid

Date Sampled: 10/24/2011 1228
Date Received: 10/26/2011 0900

6010B TCLP Metals (ICP)-TCLP

Analysis Method:	6010B	Analysis Batch:	280-93916	Instrument ID:	MT_025
Prep Method:	3010A	Prep Batch:	280-93527	Lab File ID:	25b102911.asc
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	10 mL
Analysis Date:	10/29/2011 2034			Final Weight/Volume:	50 mL
Prep Date:	10/28/2011 1400				
Leach Date:	10/26/2011 1840				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Arsenic		0.022	U	0.022	0.50
Barium		0.48	B	0.0020	1.0
Cadmium		0.0020	U	0.0020	0.10
Chromium		0.37	B	0.0030	0.50
Lead		0.013	U	0.013	0.50
Selenium		0.024	U	0.024	0.10
Silver		0.0040	U	0.0040	0.50

7470A TCLP Mercury-TCLP

Analysis Method:	7470A	Analysis Batch:	280-93947	Instrument ID:	MT_033
Prep Method:	7470A	Prep Batch:	280-93517	Lab File ID:	111028ad.txt
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	30 mL
Analysis Date:	10/28/2011 2257			Final Weight/Volume:	30 mL
Prep Date:	10/28/2011 1345				
Leach Date:	10/26/2011 1840				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Mercury		0.000030	U	0.000030	0.0020

Client: Washington Closure Hanford

Job Number: 280-22030-1
Sdg Number: J01304

Client Sample ID: **J1M0F0**

Lab Sample ID: 280-22030-13
Client Matrix: Solid

Date Sampled: 10/24/2011 1214
Date Received: 10/26/2011 0900

6010B TCLP Metals (ICP)-TCLP

Analysis Method:	6010B	Analysis Batch:	280-93916	Instrument ID:	MT_025
Prep Method:	3010A	Prep Batch:	280-93527	Lab File ID:	25b102911.asc
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	10 mL
Analysis Date:	10/29/2011 2037			Final Weight/Volume:	50 mL
Prep Date:	10/28/2011 1400				
Leach Date:	10/26/2011 1840				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Arsenic		0.056	B	0.022	0.50
Barium		0.51	B	0.0020	1.0
Cadmium		0.0020	U	0.0020	0.10
Chromium		11.4		0.0030	0.50
Lead		0.013	U	0.013	0.50
Selenium		0.024	U	0.024	0.10
Silver		0.0040	U	0.0040	0.50

7470A TCLP Mercury-TCLP

Analysis Method:	7470A	Analysis Batch:	280-93947	Instrument ID:	MT_033
Prep Method:	7470A	Prep Batch:	280-93517	Lab File ID:	111028ad.txt
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	30 mL
Analysis Date:	10/28/2011 2259			Final Weight/Volume:	30 mL
Prep Date:	10/28/2011 1345				
Leach Date:	10/26/2011 1840				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Mercury		0.000030	U	0.000030	0.0020

Client: Washington Closure Hanford

Job Number: 280-22030-1
Sdg Number: J01304

Client Sample ID: **J1M0F1**

Lab Sample ID: 280-22030-14
Client Matrix: Solid

Date Sampled: 10/24/2011 1212
Date Received: 10/26/2011 0900

6010B TCLP Metals (ICP)-TCLP

Analysis Method:	6010B	Analysis Batch:	280-93916	Instrument ID:	MT_025
Prep Method:	3010A	Prep Batch:	280-93527	Lab File ID:	25b102911.asc
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	10 mL
Analysis Date:	10/29/2011 2039			Final Weight/Volume:	50 mL
Prep Date:	10/28/2011 1400				
Leach Date:	10/26/2011 1840				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Arsenic		0.022	U	0.022	0.50
Barium		0.54	B	0.0020	1.0
Cadmium		0.0023	B	0.0020	0.10
Chromium		0.41	B	0.0030	0.50
Lead		0.013	U	0.013	0.50
Selenium		0.024	U	0.024	0.10
Silver		0.0047	B	0.0040	0.50

7470A TCLP Mercury-TCLP

Analysis Method:	7470A	Analysis Batch:	280-93947	Instrument ID:	MT_033
Prep Method:	7470A	Prep Batch:	280-93517	Lab File ID:	111028ad.txt
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	30 mL
Analysis Date:	10/28/2011 2302			Final Weight/Volume:	30 mL
Prep Date:	10/28/2011 1345				
Leach Date:	10/26/2011 1840				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Mercury		0.000030	U	0.000030	0.0020

Client: Washington Closure Hanford

Job Number: 280-22030-1
Sdg Number: J01304

Client Sample ID: **J1M0F2**

Lab Sample ID: 280-22030-15
Client Matrix: Solid

Date Sampled: 10/24/2011 1210
Date Received: 10/26/2011 0900

6010B TCLP Metals (ICP)-TCLP

Analysis Method:	6010B	Analysis Batch:	280-93916	Instrument ID:	MT_025
Prep Method:	3010A	Prep Batch:	280-93527	Lab File ID:	25b102911.asc
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	10 mL
Analysis Date:	10/29/2011 2042			Final Weight/Volume:	50 mL
Prep Date:	10/28/2011 1400				
Leach Date:	10/26/2011 1840				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Arsenic		0.022	U	0.022	0.50
Barium		0.49	B	0.0020	1.0
Cadmium		0.0029	B	0.0020	0.10
Chromium		0.0062	B	0.0030	0.50
Lead		0.013	U	0.013	0.50
Selenium		0.024	U	0.024	0.10
Silver		0.0040	U	0.0040	0.50

7470A TCLP Mercury-TCLP

Analysis Method:	7470A	Analysis Batch:	280-93947	Instrument ID:	MT_033
Prep Method:	7470A	Prep Batch:	280-93517	Lab File ID:	111028ad.txt
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	30 mL
Analysis Date:	10/28/2011 2304			Final Weight/Volume:	30 mL
Prep Date:	10/28/2011 1345				
Leach Date:	10/26/2011 1840				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Mercury		0.000030	U	0.000030	0.0020

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-22030-1
Sdg Number: J01304

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-93285					
LCS 280-93285/2-B	Lab Control Sample	P	Solid	1311	
LCS 280-93285/2-C	Lab Control Sample	P	Solid	1311	
LB 280-93285/1-B	TCLP SPLPE Leachate Blank	P	Solid	1311	
LB 280-93285/1-C	TCLP SPLPE Leachate Blank	P	Solid	1311	
280-22030-1	J1M0C8	P	Solid	1311	
280-22030-2	J1M0C9	P	Solid	1311	
280-22030-3	J1M0D0	P	Solid	1311	
280-22030-4	J1M0D1	P	Solid	1311	
280-22030-5	J1M0D2	P	Solid	1311	
280-22030-6	J1M0D3	P	Solid	1311	
280-22030-7	J1M0D4	P	Solid	1311	
280-22030-8	J1M0D5	P	Solid	1311	
280-22030-9	J1M0D6	P	Solid	1311	
280-22030-10	J1M0D7	P	Solid	1311	
280-22030-11	J1M0D8	P	Solid	1311	
280-22030-12	J1M0D9	P	Solid	1311	
280-22030-13	J1M0F0	P	Solid	1311	
280-22030-14	J1M0F1	P	Solid	1311	
280-22030-15	J1M0F2	P	Solid	1311	
280-22030-15DU	Duplicate	P	Solid	1311	
280-22030-15MS	Matrix Spike	P	Solid	1311	
Prep Batch: 280-93517					
LCS 280-93285/2-B	Lab Control Sample	P	Solid	7470A	280-93285
LB 280-93285/1-B	TCLP SPLPE Leachate Blank	P	Solid	7470A	280-93285
280-22030-1	J1M0C8	P	Solid	7470A	280-93285
280-22030-2	J1M0C9	P	Solid	7470A	280-93285
280-22030-3	J1M0D0	P	Solid	7470A	280-93285
280-22030-4	J1M0D1	P	Solid	7470A	280-93285
280-22030-5	J1M0D2	P	Solid	7470A	280-93285
280-22030-6	J1M0D3	P	Solid	7470A	280-93285
280-22030-7	J1M0D4	P	Solid	7470A	280-93285
280-22030-8	J1M0D5	P	Solid	7470A	280-93285
280-22030-9	J1M0D6	P	Solid	7470A	280-93285
280-22030-10	J1M0D7	P	Solid	7470A	280-93285
280-22030-11	J1M0D8	P	Solid	7470A	280-93285
280-22030-12	J1M0D9	P	Solid	7470A	280-93285
280-22030-13	J1M0F0	P	Solid	7470A	280-93285
280-22030-14	J1M0F1	P	Solid	7470A	280-93285
280-22030-15	J1M0F2	P	Solid	7470A	280-93285
280-22030-15DU	Duplicate	P	Solid	7470A	280-93285
280-22030-15MS	Matrix Spike	P	Solid	7470A	280-93285

Client: Washington Closure Hanford

Job Number: 280-22030-1
Sdg Number: J01304

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-93527					
LCS 280-93285/2-C	Lab Control Sample	P	Solid	3010A	280-93285
LB 280-93285/1-C	TCLP SPLPE Leachate Blank	P	Solid	3010A	280-93285
280-22030-1	J1M0C8	P	Solid	3010A	280-93285
280-22030-2	J1M0C9	P	Solid	3010A	280-93285
280-22030-3	J1M0D0	P	Solid	3010A	280-93285
280-22030-4	J1M0D1	P	Solid	3010A	280-93285
280-22030-5	J1M0D2	P	Solid	3010A	280-93285
280-22030-6	J1M0D3	P	Solid	3010A	280-93285
280-22030-7	J1M0D4	P	Solid	3010A	280-93285
280-22030-8	J1M0D5	P	Solid	3010A	280-93285
280-22030-9	J1M0D6	P	Solid	3010A	280-93285
280-22030-10	J1M0D7	P	Solid	3010A	280-93285
280-22030-11	J1M0D8	P	Solid	3010A	280-93285
280-22030-12	J1M0D9	P	Solid	3010A	280-93285
280-22030-13	J1M0F0	P	Solid	3010A	280-93285
280-22030-14	J1M0F1	P	Solid	3010A	280-93285
280-22030-15	J1M0F2	P	Solid	3010A	280-93285
280-22030-15DU	Duplicate	P	Solid	3010A	280-93285
280-22030-15MS	Matrix Spike	P	Solid	3010A	280-93285
Analysis Batch:280-93916					
LCS 280-93285/2-C	Lab Control Sample	P	Solid	6010B	280-93527
LB 280-93285/1-C	TCLP SPLPE Leachate Blank	P	Solid	6010B	280-93527
280-22030-1	J1M0C8	P	Solid	6010B	280-93527
280-22030-2	J1M0C9	P	Solid	6010B	280-93527
280-22030-4	J1M0D1	P	Solid	6010B	280-93527
280-22030-5	J1M0D2	P	Solid	6010B	280-93527
280-22030-6	J1M0D3	P	Solid	6010B	280-93527
280-22030-7	J1M0D4	P	Solid	6010B	280-93527
280-22030-8	J1M0D5	P	Solid	6010B	280-93527
280-22030-9	J1M0D6	P	Solid	6010B	280-93527
280-22030-10	J1M0D7	P	Solid	6010B	280-93527
280-22030-11	J1M0D8	P	Solid	6010B	280-93527
280-22030-12	J1M0D9	P	Solid	6010B	280-93527
280-22030-13	J1M0F0	P	Solid	6010B	280-93527
280-22030-14	J1M0F1	P	Solid	6010B	280-93527
280-22030-15	J1M0F2	P	Solid	6010B	280-93527
280-22030-15DU	Duplicate	P	Solid	6010B	280-93527
280-22030-15MS	Matrix Spike	P	Solid	6010B	280-93527

Client: Washington Closure Hanford

Job Number: 280-22030-1
Sdg Number: J01304

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-93947					
LCS 280-93285/2-B	Lab Control Sample	P	Solid	7470A	280-93517
LB 280-93285/1-B	TCLP SPLPE Leachate Blank	P	Solid	7470A	280-93517
280-22030-1	J1M0C8	P	Solid	7470A	280-93517
280-22030-2	J1M0C9	P	Solid	7470A	280-93517
280-22030-3	J1M0D0	P	Solid	7470A	280-93517
280-22030-4	J1M0D1	P	Solid	7470A	280-93517
280-22030-5	J1M0D2	P	Solid	7470A	280-93517
280-22030-6	J1M0D3	P	Solid	7470A	280-93517
280-22030-7	J1M0D4	P	Solid	7470A	280-93517
280-22030-8	J1M0D5	P	Solid	7470A	280-93517
280-22030-9	J1M0D6	P	Solid	7470A	280-93517
280-22030-10	J1M0D7	P	Solid	7470A	280-93517
280-22030-11	J1M0D8	P	Solid	7470A	280-93517
280-22030-12	J1M0D9	P	Solid	7470A	280-93517
280-22030-13	J1M0F0	P	Solid	7470A	280-93517
280-22030-14	J1M0F1	P	Solid	7470A	280-93517
280-22030-15	J1M0F2	P	Solid	7470A	280-93517
280-22030-15DU	Duplicate	P	Solid	7470A	280-93517
280-22030-15MS	Matrix Spike	P	Solid	7470A	280-93517
Analysis Batch:280-94119					
280-22030-3	J1M0D0	P	Solid	6010B	280-93527

Report Basis
P = TCLP

Client: Washington Closure Hanford

Job Number: 280-22030-1
Sdg Number: J01304

TCLP SPLPE Leachate Blank - Batch: 280-93527

Method: 6010B
Preparation: 3010A
TCLP

Lab Sample ID:	LB 280-93285/1-C	Analysis Batch:	280-93916	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-93527	Lab File ID:	25b102911.asc
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	10 mL
Analysis Date:	10/29/2011 1951	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	10/28/2011 1400				
Leach Date:	10/26/2011 1840				

Analyte	Result	Qual	MDL	RL
Arsenic	0.022	U	0.022	0.50
Barium	0.00755	B	0.0020	1.0
Cadmium	0.0020	U	0.0020	0.10
Chromium	0.0030	U	0.0030	0.50
Lead	0.013	U	0.013	0.50
Selenium	0.024	U	0.024	0.10
Silver	0.0040	U	0.0040	0.50

Lab Control Sample - Batch: 280-93527

Method: 6010B
Preparation: 3010A
TCLP

Lab Sample ID:	LCS 280-93285/2-C	Analysis Batch:	280-93916	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-93527	Lab File ID:	25b102911.asc
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	10 mL
Analysis Date:	10/29/2011 1953	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	10/28/2011 1400				
Leach Date:	10/26/2011 1840				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	4.00	4.20	105	80 - 120	
Barium	12.0	12.59	105	80 - 120	
Cadmium	1.10	1.20	109	80 - 120	
Chromium	5.20	5.45	105	80 - 120	
Lead	5.50	5.72	104	80 - 120	
Selenium	3.00	3.11	104	80 - 120	
Silver	1.05	1.08	103	80 - 120	

Client: Washington Closure Hanford

Job Number: 280-22030-1
Sdg Number: J01304

Matrix Spike - Batch: 280-93527

Method: 6010B
Preparation: 3010A
TCLP

Lab Sample ID:	280-22030-15	Analysis Batch:	280-93916	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-93527	Lab File ID:	25b102911.asc
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	10 mL
Analysis Date:	10/29/2011 2050	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	10/28/2011 1400				
Leach Date:	10/26/2011 1840				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	0.022	U	4.00	4.22	106	80 - 120	
Barium	0.49	B	12.0	13.03	104	80 - 120	
Cadmium	0.0029	B	1.10	1.20	108	80 - 120	
Chromium	0.0062	B	5.20	5.42	104	80 - 120	
Lead	0.013	U	5.50	5.73	104	80 - 120	
Selenium	0.024	U	3.00	3.11	104	80 - 120	
Silver	0.0040	U	1.05	1.07	102	80 - 120	

Duplicate - Batch: 280-93527

Method: 6010B
Preparation: 3010A
TCLP

Lab Sample ID:	280-22030-15	Analysis Batch:	280-93916	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-93527	Lab File ID:	25b102911.asc
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	10 mL
Analysis Date:	10/29/2011 2047	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	10/28/2011 1400				
Leach Date:	10/26/2011 1840				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Arsenic	0.022	U	0.022	NC	20	U
Barium	0.49	B	0.467	5	20	B
Cadmium	0.0029	B	0.00270	7	20	B
Chromium	0.0062	B	0.00605	2	20	B
Lead	0.013	U	0.0146	NC	20	B
Selenium	0.024	U	0.024	NC	20	U
Silver	0.0040	U	0.00405	NC	20	B

Client: Washington Closure Hanford

Job Number: 280-22030-1
Sdg Number: J01304

TCLP SPLPE Leachate Blank - Batch: 280-93517

Method: 7470A
Preparation: 7470A
TCLP

Lab Sample ID:	LB 280-93285/1-B	Analysis Batch:	280-93947	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-93517	Lab File ID:	111028ad.txt
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	30 mL
Analysis Date:	10/28/2011 2223	Units:	mg/L	Final Weight/Volume:	30 mL
Prep Date:	10/28/2011 1345				
Leach Date:	10/26/2011 1840				

Analyte	Result	Qual	MDL	RL
Mercury	0.000030	U	0.000030	0.0020

Lab Control Sample - Batch: 280-93517

Method: 7470A
Preparation: 7470A
TCLP

Lab Sample ID:	LCS 280-93285/2-B	Analysis Batch:	280-93947	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-93517	Lab File ID:	111028ad.txt
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	30 mL
Analysis Date:	10/28/2011 2225	Units:	mg/L	Final Weight/Volume:	30 mL
Prep Date:	10/28/2011 1345				
Leach Date:	10/26/2011 1840				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00500	0.00505	101	90 - 116	

Matrix Spike - Batch: 280-93517

Method: 7470A
Preparation: 7470A
TCLP

Lab Sample ID:	280-22030-15	Analysis Batch:	280-93947	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-93517	Lab File ID:	111028ad.txt
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	30 mL
Analysis Date:	10/28/2011 2306	Units:	mg/L	Final Weight/Volume:	30 mL
Prep Date:	10/28/2011 1345				
Leach Date:	10/26/2011 1840				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.000030	U	0.00500	0.00456	91	90 - 116	

Client: Washington Closure Hanford

Job Number: 280-22030-1
Sdg Number: J01304

Duplicate - Batch: 280-93517

Method: 7470A
Preparation: 7470A
TCLP

Lab Sample ID:	280-22030-15	Analysis Batch:	280-93947	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-93517	Lab File ID:	111028ad.txt
Dilution:	1.0	Leach Batch:	280-93285	Initial Weight/Volume:	30 mL
Analysis Date:	10/28/2011 2313	Units:	mg/L	Final Weight/Volume:	30 mL
Prep Date:	10/28/2011 1345				
Leach Date:	10/26/2011 1840				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.000030	U	0.000030	NC	20	U

4.7 IRI SC 10/26

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-074-326	Page 2 of 3

Collector Q Stowe	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator KESSNER, JH
Price Code ~~8L~~ 2A 10/24/11	Data Turnaround ~~21 Days~~ 24 Hr 10/24/11		
Project Designation 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location 100-D-100 Excavation Area 40' bgs		SAF No. RC-074
Ice Chest No. N/A	Field Logbook No. EL-1607-12	COA 00D1002600	Method of Shipment 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

Cool 4 Deg C

SDG#: J01304

Preservation	Cool 4C	Cool 4C	Cool 4C								
Type of Container	G/P	G/P	G/P								
No. of Container(s)	1	1	Ø	DN 10/24/11							
Volume	125mL	125mL	125ml								
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196 - Quick Turn (Hexavalent Chromium)	TCLP ICP Metals								

Sample No.	Matrix *	Sample Date	Sample Time										
J1M0D3	SOIL	10-24-11	1220	X	X	X							
J1M0D4	SOIL	10-24-11	1232	X	X	X							
J1M0D5	SOIL	10-24-11	1236	X	X	X							
J1M0D6	SOIL	10-24-11	1224	X	X	X							
J1M0D7	SOIL	10-24-11	1234	X	X	X							

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Quincy Stowe	10/24/11 1315	D. Newman	10/24/11 1315
D. Newman	10/24/11 1610	A. Freier	10-24-11 1610
A. Freier (WCH)	10-24-11 1635	Lucas Velazquez (TAL)	10/24/11 1635
Carl Krupe (TAL)	10-25-11 1330	[illegible]	10/26/11 [illegible]

SPECIAL INSTRUCTIONS

(1) Metals by ICP - 6010 - Quick Turn (Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver)

Tranship remaining material to Denver for TCLP Analysis following Analysis at Richland

DN 10/24/11

REVIEWED BY [illegible] DATE 10-24-11

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

4-7 IRI SC 10/26

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-074-326	Page 1 of 3

Collector Q Stowe	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator KESSNER, JH
Price Code ~~8L~~ 2A 2A 10/24/11	Data Turnaround ~~21 Days~~ 24 Hr 2A 10/24/11		
Project Designation 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location 100-D-100 Excavation Area 40' bgs		SAF No. RC-074
Ice Chest No. N/A	Field Logbook No. EL-1607-12	COA 00D1002600	Method of Shipment 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

Cool 4 Deg C

SDG#: J01304

Preservation	Cool 4C	Cool 4C	Cool 4c								
Type of Container	G/P	G/P	G/P								
No. of Container(s)	1	1	Ø	DN 10/24/11							
Volume	125mL	125mL	125ml								
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196 - Quick Turn (Hexavalent Chromium)	TCLP ICP Metals								

Sample No.	Matrix *	Sample Date	Sample Time										
J1M0C8	SOIL	10-24-11	1222	X	X	X							
J1M0C9	SOIL	10-24-11	1216	X	X	X							
J1M0D0	SOIL	10-24-11	1230	X	X	X							
J1M0D1	SOIL	10-24-11	1238	X	X	X							
J1M0D2	SOIL	10-24-11	1226	X	X	X							

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By/Stored In	Date/Time
Relinquished By/Removed From: Quincy Stowe	10/24/11 1315	D Newman	10/24/11 1315
Relinquished By/Removed From: D. Newman	10/24/11 1610	Received By/Stored In: A. Freier	10-24-11 1610
Relinquished By/Removed From: A. Freier (WCH)	10-24-11 1635	Received By/Stored In: Lucas Lekarczyk (TACK)	10/24/11 1635
Relinquished By/Removed From: Carl Rya Pomeranz (TALK)	10-25-11 1330	Received By/Stored In:	10/26/11 900
Relinquished By/Removed From		Received By/Stored In	
Relinquished By/Removed From		Received By/Stored In	

SPECIAL INSTRUCTIONS

(1) Metals by ICP - 6010 - Quick Turn (Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver)

Tranship remaining material to Denver for TCLP ICP metals analysis following analysis at Richland.

DN 10/24/11

REVIEWED BY DATE 10-24-11

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

4.7 IRISC 10/26

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-074-326	Page 3 of 3
Collector: Q Stowe	Company Contact: Joan Kessner; Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH	Price Code: ~~8L~~ 24 DN 10/24/11; Data Turnaround: ~~21 Days~~ 24 Hr DN 10/24/11
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location: 100-D-100 Excavation Area 40' bgs	SAF No.: RC-074	
Ice Chest No.: N/A	Field Logbook No.: EL-1607-12; COA: 00D1002600	Method of Shipment: 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

Cool 4 Deg C

6DGH: J01304

Preservation	Cool 4C	Cool 4C	Cool 4C								
Type of Container	G/P	G/P	G/P								
No. of Container(s)	1	1	Ø								
Volume	125mL	125mL	125ml								
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196 - Quick Turn (Hexavalent Chromium)	TCLP ICP Metals DN 10/24/11								

Sample No.	Matrix *	Sample Date	Sample Time										
J1M0D8	SOIL	10-24-11	1218	X	X	X							
J1M0D9	SOIL	10-24-11	1228	X	X	X							
J1M0F0	SOIL	10-24-11	1214	X	X	X							
J1M0F1	SOIL	10-24-11	1212	X	X	X							
J1M0F2	SOIL	10-24-11	1210	X	X	X							

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Quincy Stowe	10/24/11 1315	D. Newman	10/24/11 1315
D. Newman	10/24/11 1610	A. Freier	10-24-11 1610
A. Freier	WCH 10-24-11 1635	[illegible]	THP 1635 10/24/11
[illegible]	TALP 1320 10-25-11	[illegible]	10/26/11 800

SPECIAL INSTRUCTIONS

(1) Metals by ICP - 6010 - Quick Turn (Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver)

Tranship remaining material to Denver for TCLP ICP metals analysis following analysis at Richland.

DN 10/24/11

REVIEWED BY [signature] DATE 10-24-11

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
THE LEADER IN ENVIRONMENTAL TESTING

Project 28002142 -Solid

Analytical Due:

Report Due: 11/2/11 (Rush 5d TAT)

Sample Check-in List

Date/Time Received: 10/26/11 900 **GM Screen Result** 12 **microR/hr**

Client: Washington Closure Hanford **SDG #:** J01304 NA[ ] **SAF #:** RC-074 NA [ ]

Job Number: 22030 **Chain of Custody #** RC-074-326

Shipping Container ID: N/A **Air Bill #** 7976645622 29

1. Custody Seals on shipping container intact? NA [ ] Yes [ ] No [✓]
2. Custody Seals dated and signed? NA [✓] Yes [ ] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature °C: 4.7 NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 15
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   - ✓ Tape
   - ✓ Custody Seals
   - ✓ Hazard Lables
   - ✓ Appropriate Sample Lables
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 HNO_3 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): 1 Metal jar was dropped lid came off only 8.8 grams did not come out of the jar, no custody seals

Sample Custodian: [signature] **Date:** 10/26/11

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on 10/26/11 by MTT Person Contacted Joan Kessner

[X] No action necessary; process as is.

Project Manager [signature] Date 10/27/11

From: (509) 375-3131 Origin ID: PSCA
Shipping Dept.
TESTAMERICA LABORATORIES
2800 GEORGE WASHINGTON WAY

RICHLAND, WA 99354

FedEx Express

J11201108050225

Ship Date: 25OCT11
ActWgt: 19.0 LB
CAD: 1033413/INET3210

Delivery Address Bar Code

Ref #
Invoice #
PO #
Dept #

SHIP TO: (303) 736-0100 BILL SENDER

SAMPLE RECEIVING DENVER_WCH
TESTAMERICA DENVER (WCH)
4955 YARROW ST

ARVADA, CO 80002

WED - 26 OCT A1
PRIORITY OVERNIGHT

TRK# 0201 7976 6456 2229

XH WHHA

80002
CO-US
DEN

50FG1/A013/F5F4

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3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic valueof the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.