0099983

SAF-RC-075
100-D/DR Burial Grounds & Remaining Sites – Soil Full Protocol
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt H4-21 KW 10/4/11
INITIAL/DATE

COMMENTS:

SDG J01276 SAF RC-075

Rad only Chem only ☑ Rad & Chem

☑ Complete Partial

Waste Site: 118-D-2:1 Burial Ground – Group A, Trench 1, 2, 3 & 6

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NOV 01 2011
EDMC

Analytical Data Package Prepared For

Washington Closure Hanford

RECEIVED
SEP 2011

Radiochemical Analysis By

TestAmerica

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

Assigned Laboratory Code: TARL

Data Package Contains 128 ***Pages***

Report No.: 48632

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.
J01276	RC-075	J1KV47	J1I130506-1	MME0K1AD	9MME0K10	1257087
		J1KV47	J1I130506-1	MME0K1AH	9MME0K10	1257088
		J1KV47	J1I130506-1	MME0K1AG	9MME0K10	1257089
		J1KV47	J1I130506-1	MME0K1AE	9MME0K10	1257090
		J1KV47	J1I130506-1	MME0K1AJ	9MME0K10	1257094
		J1KV47	J1I130506-1	MME0K1AC	9MME0K10	1257096
		J1KV47	J1I130506-1	MME0K1AF	9MME0K10	1257097
		J1KV47	J1I130506-1	MME0K1AA	9MME0K10	1258059
		J1KV48	J1I130506-2	MME0R1AD	9MME0R10	1257087
		J1KV48	J1I130506-2	MME0R1AH	9MME0R10	1257088
		J1KV48	J1I130506-2	MME0R1AG	9MME0R10	1257089
		J1KV48	J1I130506-2	MME0R1AE	9MME0R10	1257090
		J1KV48	J1I130506-2	MME0R1AJ	9MME0R10	1257094
		J1KV48	J1I130506-2	MME0R1AC	9MME0R10	1257096
		J1KV48	J1I130506-2	MME0R1AF	9MME0R10	1257097
		J1KV48	J1I130506-2	MME0R1AA	9MME0R10	1258059
		J1KV49	J1I130506-3	MME0T1AD	9MME0T10	1257087
		J1KV49	J1I130506-3	MME0T1AH	9MME0T10	1257088
		J1KV49	J1I130506-3	MME0T1AG	9MME0T10	1257089
		J1KV49	J1I130506-3	MME0T1AE	9MME0T10	1257090
		J1KV49	J1I130506-3	MME0T1AJ	9MME0T10	1257094
		J1KV49	J1I130506-3	MME0T1AC	9MME0T10	1257096
		J1KV49	J1I130506-3	MME0T1AF	9MME0T10	1257097
		J1KV49	J1I130506-3	MME0T1AA	9MME0T10	1258059
		J1KV50	J1I130506-4	MME0V1AD	9MME0V10	1257087
		J1KV50	J1I130506-4	MME0V1AH	9MME0V10	1257088

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SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
J01276	RC-075	J1KV50	J1I130506-4	MME0V1AG	9MME0V10	1257089
		J1KV50	J1I130506-4	MME0V1AE	9MME0V10	1257090
		J1KV50	J1I130506-4	MME0V1AJ	9MME0V10	1257094
		J1KV50	J1I130506-4	MME0V1AC	9MME0V10	1257096
		J1KV50	J1I130506-4	MME0V1AF	9MME0V10	1257097
		J1KV50	J1I130506-4	MME0V1AA	9MME0V10	1258059
		J1KV51	J1I130506-5	MME0W1AD	9MME0W10	1257087
		J1KV51	J1I130506-5	MME0W1AH	9MME0W10	1257088
		J1KV51	J1I130506-5	MME0W1AG	9MME0W10	1257089
		J1KV51	J1I130506-5	MME0W1AE	9MME0W10	1257090
		J1KV51	J1I130506-5	MME0W1AJ	9MME0W10	1257094
		J1KV51	J1I130506-5	MME0W1AC	9MME0W10	1257096
		J1KV51	J1I130506-5	MME0W1AF	9MME0W10	1257097
		J1KV51	J1I130506-5	MME0W1AA	9MME0W10	1258059
		J1KV52	J1I130506-6	MME0X1AD	9MME0X10	1257087
		J1KV52	J1I130506-6	MME0X1AH	9MME0X10	1257088
		J1KV52	J1I130506-6	MME0X1AG	9MME0X10	1257089
		J1KV52	J1I130506-6	MME0X1AE	9MME0X10	1257090
		J1KV52	J1I130506-6	MME0X1AJ	9MME0X10	1257094
		J1KV52	J1I130506-6	MME0X1AC	9MME0X10	1257096
		J1KV52	J1I130506-6	MME0X1AF	9MME0X10	1257097
		J1KV52	J1I130506-6	MME0X1AA	9MME0X10	1258059
		J1KV53	J1I130506-7	MME001AD	9MME0010	1257087
		J1KV53	J1I130506-7	MME001AH	9MME0010	1257088
		J1KV53	J1I130506-7	MME001AG	9MME0010	1257089
		J1KV53	J1I130506-7	MME001AE	9MME0010	1257090
		J1KV53	J1I130506-7	MME001AJ	9MME0010	1257094
		J1KV53	J1I130506-7	MME002AC	9MME0020	1257096
		J1KV53	J1I130506-7	MME002AF	9MME0020	1257097
		J1KV53	J1I130506-7	MME001AA	9MME0010	1258059
		J1KV54	J1I130506-8	MME011AD	9MME0110	1257087
		J1KV54	J1I130506-8	MME011AH	9MME0110	1257088
		J1KV54	J1I130506-8	MME011AG	9MME0110	1257089
		J1KV54	J1I130506-8	MME011AE	9MME0110	1257090
		J1KV54	J1I130506-8	MME011AJ	9MME0110	1257094
		J1KV54	J1I130506-8	MME011AC	9MME0110	1257096
		J1KV54	J1I130506-8	MME011AF	9MME0110	1257097
		J1KV54	J1I130506-8	MME011AA	9MME0110	1258059

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SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
J01276	RC-075	J1KV55	J1I130506-9	MME031AD	9MME0310	1257087
		J1KV55	J1I130506-9	MME031AH	9MME0310	1257088
		J1KV55	J1I130506-9	MME031AG	9MME0310	1257089
		J1KV55	J1I130506-9	MME031AE	9MME0310	1257090
		J1KV55	J1I130506-9	MME031AJ	9MME0310	1257094
		J1KV55	J1I130506-9	MME031AC	9MME0310	1257096
		J1KV55	J1I130506-9	MME031AF	9MME0310	1257097
		J1KV55	J1I130506-9	MME031AA	9MME0310	1258059
		J1KV56	J1I130506-10	MME041AD	9MME0410	1257087
		J1KV56	J1I130506-10	MME041AH	9MME0410	1257088
		J1KV56	J1I130506-10	MME041AG	9MME0410	1257089
		J1KV56	J1I130506-10	MME041AE	9MME0410	1257090
		J1KV56	J1I130506-10	MME041AJ	9MME0410	1257094
		J1KV56	J1I130506-10	MME041AC	9MME0410	1257096
		J1KV56	J1I130506-10	MME041AF	9MME0410	1257097
		J1KV56	J1I130506-10	MME041AA	9MME0410	1258059
	RC-075	J1KV57	J1I130506-11	MME091AD	9MME0910	1257087
		J1KV57	J1I130506-11	MME091AH	9MME0910	1257088
		J1KV57	J1I130506-11	MME091AG	9MME0910	1257089
		J1KV57	J1I130506-11	MME091AE	9MME0910	1257090
		J1KV57	J1I130506-11	MME091AJ	9MME0910	1257094
		J1KV57	J1I130506-11	MME091AC	9MME0910	1257096
		J1KV57	J1I130506-11	MME091AF	9MME0910	1257097
		J1KV57	J1I130506-11	MME091AA	9MME0910	1258059
		J1KV58	J1I130506-12	MME1D1AD	9MME1D10	1257087
		J1KV58	J1I130506-12	MME1D1AH	9MME1D10	1257088
		J1KV58	J1I130506-12	MME1D1AG	9MME1D10	1257089
		J1KV58	J1I130506-12	MME1D1AE	9MME1D10	1257090
		J1KV58	J1I130506-12	MME1D1AJ	9MME1D10	1257094
		J1KV58	J1I130506-12	MME1D1AC	9MME1D10	1257096
		J1KV58	J1I130506-12	MME1D1AF	9MME1D10	1257097
		J1KV58	J1I130506-12	MME1D1AA	9MME1D10	1258059
		J1KV59	J1I130506-13	MME1G1AD	9MME1G10	1257087
		J1KV59	J1I130506-13	MME1G1AH	9MME1G10	1257088
		J1KV59	J1I130506-13	MME1G1AG	9MME1G10	1257089
		J1KV59	J1I130506-13	MME1G1AE	9MME1G10	1257090
		J1KV59	J1I130506-13	MME1G1AJ	9MME1G10	1257094
		J1KV59	J1I130506-13	MME1G1AC	9MME1G10	1257096

Report No.: 48632

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SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
J01276	RC-075	J1KV59	J1I130506-13	MME1G1AF	9MME1G10	1257097
		J1KV59	J1I130506-13	MME1G1AA	9MME1G10	1258059

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Washington Hanford Closure
2620 Fermi Avenue
Richland, WA 99354

TestAmerica Laboratories, Inc.

September 30, 2011

Attention: Joan Kessner

SAF Number	:	RC-075
Date SDG Closed	:	September 13, 2011
Number of Samples	:	Thirteen (13)
Sample Type	:	Soil
SDG Number	:	J01276
Data Deliverable	:	21– Day / Summary

CASE NARRATIVE

I. Introduction

On September 13, 2011, thirteen soil samples were received at TestAmerica for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID number to correspond with the Washington Closure Hanford (WCH) specific ID:

WCH ID#	TARL ID#	MATRIX	DATE OF RECEIPT
J1KV47	MME0K	SOIL	9/13/11
J1KV48	MME0R	SOIL	9/13/11
J1KV49	MME0T	SOIL	9/13/11
J1KV50	MME0V	SOIL	9/13/11
J1KV51	MME0W	SOIL	9/13/11
J1KV52	MME0X	SOIL	9/13/11
J1KV53	MME00	SOIL	9/13/11
J1KV54	MME01	SOIL	9/13/11
J1KV55	MME03	SOIL	9/13/11
J1KV56	MME04	SOIL	9/13/11
J1KV57	MME09	SOIL	9/13/11
J1KV58	MME1D	SOIL	9/13/11
J1KV59	MME1G	SOIL	9/13/11

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:

Alpha Spectroscopy
Plutonium-238, -239/240 by method RL-ALP-002
Uranium 234, 235 and 238 by method RL-ALP-015
Gas Proportional Counting
Strontium-90 by method RL-GPC-003
Gamma Spectroscopy
Gamma Spec by method RL-GAM-001
Liquid Scintillation Counting
Tritium by method RL-LSC-005
Carbon-14 by method RL-LSC-008
Nickel-63 by method RL-LCS-017
Chemical Analysis
Hexavalent Chromium by EPA method 7196A

IV. Quality Control

The analytical results for each analysis performed includes a minimum of one laboratory control sample (LCS), one method (reagent) blank, and one duplicate sample analysis. Any exceptions have been noted in the "Comments" section.

QC and sample results are reported in the same units.

V. Comments

Alpha Spectroscopy
Plutonium-238, -239/240 by method RL-ALP-002:
Sample J1KV53 tracer yield was not within the acceptance limits on the original count. The sample was re-counted for an acceptable yield. Except as note; the LCS, batch blank, samples and sample duplicate (J1KV47) results are within contractual requirements.

Uranium 234, 235 and 238 by method RL-ALP-015:
Sample J1KV53 tracer yield was not within the acceptance limits on the original count. The sample was re-counted for an acceptable yield. Except as noted; the LCS, batch blank, samples and sample duplicate (J1KV48) results are within contractual requirements.

Gas Proportional Counting
Strontium-90 by method RL-GPC-003:
The LCS, batch blank, samples and sample duplicate (J1KV53) results are within contractual requirements.

Gamma Spectroscopy

Gamma Spec by method RL-GAM-001:

The CRDL was not met for some of the analytes. Except as noted, the LCS, batch blank, samples and sample duplicate (J1KV52) results are within contractual requirements.

Liquid Scintillation Counting

Tritium by method RL-LSC-005:

The LCS, batch blank, samples and sample duplicate (J1KV51) results are within contractual requirements.

Carbon-14 by method RL-LSC-008:

The LCS, batch blank, samples and sample duplicate (J1KV49) results are within contractual requirements.

Nickel-63 by method RL-LCS-017:

The LCS, batch blank, samples and sample duplicate (J1KV50) results are within contractual requirements.

Chemical Analysis

Hexavalent Chromium by EPA method 7196A

The LCS, batch blank, samples, sample duplicate (J1KV47) and sample matrix spike (J1KV47) 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

Date: 30-Sep-11

TestAmerica TARL

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

Report No. : 48632 **SDG No:** J01276

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1257097	PUISO_PLATE_AEA								
	J1KV47								
	MME0K1AF	PU-238	0.00E+00 +- 6.7E-02	U	pCi/g	98%	1.26E-01	1.00E+00	
		PU239/40	3.37E-02 +- 6.8E-02	U	pCi/g	98%	1.26E-01	1.00E+00	
	J1KV47 DUP								
	MME0K1AK	PU-238	0.00E+00 +- 6.5E-02	U	pCi/g	100%	1.23E-01	1.00E+00	
		PU239/40	0.00E+00 +- 6.5E-02	U	pCi/g	100%	1.23E-01	1.00E+00	200.0
	J1KV48								
	MME0R1AF	PU-238	0.00E+00 +- 6.5E-02	U	pCi/g	89%	1.21E-01	1.00E+00	
		PU239/40	0.00E+00 +- 6.5E-02	U	pCi/g	89%	1.21E-01	1.00E+00	
	J1KV49								
	MME0T1AF	PU-238	0.00E+00 +- 7.2E-02	U	pCi/g	94%	1.35E-01	1.00E+00	
		PU239/40	3.61E-02 +- 7.3E-02	U	pCi/g	94%	1.35E-01	1.00E+00	
	J1KV50								
	MME0V1AF	PU-238	0.00E+00 +- 8.1E-02	U	pCi/g	80%	1.52E-01	1.00E+00	
		PU239/40	0.00E+00 +- 8.1E-02	U	pCi/g	80%	1.52E-01	1.00E+00	
	J1KV51								
	MME0W1AF	PU-238	0.00E+00 +- 5.5E-02	U	pCi/g	100%	1.02E-01	1.00E+00	
		PU239/40	0.00E+00 +- 5.5E-02	U	pCi/g	100%	1.02E-01	1.00E+00	
	J1KV52								
	MME0X1AF	PU-238	0.00E+00 +- 7.3E-02	U	pCi/g	97%	1.37E-01	1.00E+00	
		PU239/40	-1.83E-03 +- 7.3E-02	U	pCi/g	97%	1.37E-01	1.00E+00	
	J1KV53								
	MME002AF	PU-238	-1.53E-03 +- 6.1E-02	U	pCi/g	100%	1.14E-01	1.00E+00	
		PU239/40	-3.05E-03 +- 6.1E-02	U	pCi/g	100%	1.27E-01	1.00E+00	
	J1KV54								
	MME011AF	PU-238	-4.21E-03 +- 5.6E-02	U	pCi/g	100%	1.26E-01	1.00E+00	
		PU239/40	2.65E-02 +- 5.6E-02	U	pCi/g	100%	1.05E-01	1.00E+00	
	J1KV55								
	MME031AF	PU-238	-1.64E-03 +- 6.6E-02	U	pCi/g	92%	1.23E-01	1.00E+00	
		PU239/40	-3.29E-03 +- 6.6E-02	U	pCi/g	92%	1.37E-01	1.00E+00	
	J1KV56								
	MME041AF	PU-238	0.00E+00 +- 6.4E-02	U	pCi/g	100%	1.20E-01	1.00E+00	
		PU239/40	0.00E+00 +- 6.4E-02	U	pCi/g	100%	1.20E-01	1.00E+00	
	J1KV57								
	MME091AF	PU-238	-4.00E-03 +- 5.3E-02	U	pCi/g	100%	1.20E-01	1.00E+00	
		PU239/40	2.52E-02 +- 5.3E-02	U	pCi/g	100%	9.94E-02	1.00E+00	
	J1KV58								
	MME1D1AF	PU-238	0.00E+00 +- 7.4E-02	U	pCi/g	88%	1.38E-01	1.00E+00	

TestAmerica

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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.

Sample Results Summary

Date: 30-Sep-11

TestAmerica TARL

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

Report No. : 48632

SDG No: J01276

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1257097 PUISO_PLATE_AEA									
J1KV58									
	MME1D1AF	PU239/40	-1.85E-03 +- 7.4E-02	U	pCi/g	88%	1.38E-01	1.00E+00	
J1KV59									
	MME1G1AF	PU-238	-2.96E-03 +- 5.9E-02	U	pCi/g	97%	1.24E-01	1.00E+00	
		PU239/40	-4.43E-03 +- 5.9E-02	U	pCi/g	97%	1.33E-01	1.00E+00	
1257096 UISO_IE_PLATE_AEA									
J1KV47									
	MME0K1AC	U-234	3.30E-01 +- 2.1E-01		pCi/g	87%	1.48E-01	1.00E+00	
		U-235	4.65E-02 +- 8.1E-02	U	pCi/g	87%	1.54E-01	1.00E+00	
		U-238	2.74E-01 +- 1.9E-01		pCi/g	87%	1.48E-01	1.00E+00	
J1KV48									
	MME0R1AC	U-234	2.17E-01 +- 2.0E-01	U	pCi/g	60%	2.37E-01	1.00E+00	
		U-235	3.55E-02 +- 7.9E-02	U	pCi/g	60%	1.65E-01	1.00E+00	
		U-238	2.62E-01 +- 2.2E-01		pCi/g	60%	2.15E-01	1.00E+00	
J1KV48 DUP									
	MME0R1AK	U-234	1.86E-01 +- 1.6E-01		pCi/g	76%	1.16E-01	1.00E+00	15.3
		U-235	0.00E+00 +- 6.2E-02	U	pCi/g	76%	1.16E-01	1.00E+00	200.0
		U-238	2.17E-01 +- 1.7E-01		pCi/g	76%	1.16E-01	1.00E+00	18.9
J1KV49									
	MME0T1AC	U-234	2.95E-01 +- 1.9E-01		pCi/g	85%	1.01E-01	1.00E+00	
		U-235	2.68E-02 +- 5.4E-02	U	pCi/g	85%	1.01E-01	1.00E+00	
		U-238	2.95E-01 +- 1.9E-01		pCi/g	85%	1.01E-01	1.00E+00	
J1KV50									
	MME0V1AC	U-234	3.71E-01 +- 2.1E-01		pCi/g	99%	9.32E-02	1.00E+00	
		U-235	-2.49E-03 +- 5.0E-02	U	pCi/g	99%	1.04E-01	1.00E+00	
		U-238	2.47E-01 +- 1.6E-01		pCi/g	99%	9.32E-02	1.00E+00	
J1KV51									
	MME0W1AC	U-234	1.46E-01 +- 1.4E-01		pCi/g	74%	1.10E-01	1.00E+00	
		U-235	0.00E+00 +- 5.9E-02	U	pCi/g	74%	1.10E-01	1.00E+00	
		U-238	1.41E-01 +- 1.4E-01		pCi/g	74%	1.41E-01	1.00E+00	
J1KV52									
	MME0X1AC	U-234	9.94E-02 +- 1.2E-01	U	pCi/g	67%	1.43E-01	1.00E+00	
		U-235	0.00E+00 +- 6.9E-02	U	pCi/g	67%	1.29E-01	1.00E+00	
		U-238	2.71E-01 +- 2.0E-01		pCi/g	67%	1.43E-01	1.00E+00	
J1KV53									
	MME002AC	U-234	6.30E-02 +- 2.1E-01	U	pCi/g	23%	5.94E-01	1.00E+00	
		U-235	-3.69E-02 +- 2.1E-01	U	pCi/g	23%	5.74E-01	1.00E+00	
		U-238	2.84E-01 +- 3.8E-01	U	pCi/g	23%	5.53E-01	1.00E+00	

TestAmerica

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Sample Results Summary

TestAmerica TARL

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

Date: 30-Sep-11

Report No. : 48632

SDG No: J01276

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1257096 UISO_IE_PLATE_AEA									
J1KV54									
	MME011AC	U-234	2.14E-01 +- 1.7E-01		pCi/g	91%	1.24E-01	1.00E+00	
		U-235	2.97E-02 +- 6.2E-02	U	pCi/g	91%	1.12E-01	1.00E+00	
		U-238	3.64E-01 +- 2.3E-01		pCi/g	91%	1.51E-01	1.00E+00	
J1KV55									
	MME031AC	U-234	3.09E-01 +- 3.1E-01	U	pCi/g	36%	3.80E-01	1.00E+00	
		U-235	4.37E-02 +- 1.4E-01	U	pCi/g	36%	3.67E-01	1.00E+00	
		U-238	4.50E-01 +- 3.8E-01		pCi/g	36%	3.53E-01	1.00E+00	
J1KV56									
	MME041AC	U-234	1.66E-01 +- 1.4E-01		pCi/g	92%	1.59E-01	1.00E+00	
		U-235	-1.29E-03 +- 5.2E-02	U	pCi/g	92%	9.68E-02	1.00E+00	
		U-238	2.75E-01 +- 1.8E-01		pCi/g	92%	1.41E-01	1.00E+00	
J1KV57									
	MME091AC	U-234	2.43E-01 +- 1.8E-01		pCi/g	77%	1.14E-01	1.00E+00	
		U-235	0.00E+00 +- 6.1E-02	U	pCi/g	77%	1.14E-01	1.00E+00	
		U-238	6.07E-02 +- 8.7E-02	U	pCi/g	77%	1.14E-01	1.00E+00	
J1KV58									
	MME1D1AC	U-234	1.33E-01 +- 1.2E-01		pCi/g	86%	1.00E-01	1.00E+00	
		U-235	0.00E+00 +- 5.3E-02	U	pCi/g	86%	1.00E-01	1.00E+00	
		U-238	2.67E-01 +- 1.8E-01		pCi/g	86%	1.00E-01	1.00E+00	
J1KV59									
	MME1G1AC	U-234	1.48E-01 +- 1.3E-01		pCi/g	98%	9.36E-02	1.00E+00	
		U-235	-2.50E-03 +- 5.0E-02	U	pCi/g	98%	1.04E-01	1.00E+00	
		U-238	2.48E-01 +- 1.7E-01		pCi/g	98%	9.36E-02	1.00E+00	
1257088 GAMMA_GS									
J1KV47									
	MME0K1AH	AMERICIUM 241	-3.30E-02 +- 1.8E-01	U	pCi/g		2.99E-01		
		CO-60	-7.19E-03 +- 2.0E-02	U	pCi/g		3.35E-02	5.00E-02	
		CS-137	4.02E-03 +- 2.0E-02	U	pCi/g		3.48E-02	1.00E-01	
		EU-152	-4.39E-02 +- 5.2E-02	U	pCi/g		8.42E-02	1.00E-01	
		EU-154	4.24E-03 +- 6.6E-02	U	pCi/g		1.16E-01	1.00E-01	
		EU-155	6.96E-02 +- 5.8E-02	U	pCi/g		1.01E-01	1.00E-01	
J1KV48									
	MME0R1AH	AMERICIUM 241	8.33E-03 +- 7.4E-02	U	pCi/g		1.24E-01		
		CO-60	-3.24E-04 +- 1.6E-02	U	pCi/g		2.85E-02	5.00E-02	
		CS-137	1.56E-02 +- 1.7E-02	U	pCi/g		3.03E-02	1.00E-01	
		EU-152	2.66E-03 +- 6.8E-02	U	pCi/g		7.86E-02	1.00E-01	
		EU-154	-2.89E-02 +- 5.4E-02	U	pCi/g		9.04E-02	1.00E-01	

TestAmerica

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Sample Results Summary

Date: 30-Sep-11

TestAmerica TARL

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

Report No. : 48632 **SDG No:** J01276

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1257088 GAMMA_GS									
J1KV48									
	MME0R1AH	EU-155	-2.33E-03 +- 5.5E-02	U	pCi/g		9.25E-02	1.00E-01	
J1KV49									
	MME0T1AH	AMERICIUM 241	-1.98E-02 +- 4.6E-02	U	pCi/g		7.63E-02		
		CO-60	-1.58E-02 +- 2.3E-02	U	pCi/g		3.69E-02	5.00E-02	
		CS-137	2.14E-02 +- 2.5E-02	U	pCi/g		4.58E-02	1.00E-01	
		EU-152	3.64E-02 +- 8.2E-02	U	pCi/g		1.15E-01	1.00E-01	
		EU-154	-2.61E-02 +- 7.5E-02	U	pCi/g		1.28E-01	1.00E-01	
		EU-155	3.01E-03 +- 6.4E-02	U	pCi/g		1.08E-01	1.00E-01	
J1KV50									
	MME0V1AH	AMERICIUM 241	-4.88E-02 +- 1.1E-01	U	pCi/g		1.84E-01		
		CO-60	1.74E-02 +- 1.7E-02	U	pCi/g		3.21E-02	5.00E-02	
		CS-137	-1.12E-02 +- 1.7E-02	U	pCi/g		2.75E-02	1.00E-01	
		EU-152	3.69E-02 +- 4.0E-02	U	pCi/g		7.01E-02	1.00E-01	
		EU-154	-1.92E-02 +- 5.3E-02	U	pCi/g		9.08E-02	1.00E-01	
		EU-155	2.66E-02 +- 4.7E-02	U	pCi/g		8.01E-02	1.00E-01	
J1KV51									
	MME0W1AH	AMERICIUM 241	5.22E-02 +- 1.6E-01	U	pCi/g		2.70E-01		
		CO-60	1.97E-02 +- 1.7E-02	U	pCi/g		3.29E-02	5.00E-02	
		CS-137	-3.05E-03 +- 1.7E-02	U	pCi/g		2.85E-02	1.00E-01	
		EU-152	-3.03E-02 +- 4.3E-02	U	pCi/g		7.14E-02	1.00E-01	
		EU-154	-1.76E-02 +- 5.8E-02	U	pCi/g		9.89E-02	1.00E-01	
		EU-155	1.92E-02 +- 5.3E-02	U	pCi/g		8.90E-02	1.00E-01	
J1KV52									
	MME0X1AH	AMERICIUM 241	6.77E-02 +- 8.4E-02	U	pCi/g		1.45E-01		
		CO-60	6.00E-03 +- 1.2E-02	U	pCi/g		2.31E-02	5.00E-02	
		CS-137	-4.18E-03 +- 1.5E-02	U	pCi/g		2.44E-02	1.00E-01	
		EU-152	-2.16E-02 +- 3.1E-02	U	pCi/g		5.03E-02	1.00E-01	
		EU-154	2.13E-02 +- 4.3E-02	U	pCi/g		7.88E-02	1.00E-01	
		EU-155	5.59E-03 +- 3.6E-02	U	pCi/g		6.17E-02	1.00E-01	
J1KV52 DUP									
	MME0X1AK	AMERICIUM 241	-1.65E-02 +- 3.7E-02	U	pCi/g		6.21E-02		329.1
		CO-60	6.77E-04 +- 2.1E-02	U	pCi/g		3.67E-02	5.00E-02	159.5
		CS-137	-9.31E-03 +- 2.2E-02	U	pCi/g		3.76E-02	1.00E-01	-76.1
		EU-152	-5.23E-02 +- 6.6E-02	U	pCi/g		9.26E-02	1.00E-01	-83.2
		EU-154	4.13E-02 +- 6.8E-02	U	pCi/g		1.25E-01	1.00E-01	64.2
		EU-155	1.62E-02 +- 5.5E-02	U	pCi/g		9.20E-02	1.00E-01	97.2
J1KV53									

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Sample Results Summary

TestAmerica TARL

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

Date: 30-Sep-11

Report No. : 48632

SDG No: J01276

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1257088 GAMMA_GS									
J1KV53									
	MME001AH	AMERICIUM 241	-4.17E-02 +- 6.7E-02	U	pCi/g		1.13E-01		
		CO-60	7.42E-03 +- 2.1E-02	U	pCi/g		4.00E-02	5.00E-02	
		CS-137	9.89E-05 +- 2.1E-02	U	pCi/g		3.72E-02	1.00E-01	
		EU-152	-1.03E-02 +- 5.3E-02	U	pCi/g		8.34E-02	1.00E-01	
		EU-154	2.21E-03 +- 6.4E-02	U	pCi/g		1.16E-01	1.00E-01	
		EU-155	-1.33E-02 +- 5.1E-02	U	pCi/g		8.64E-02	1.00E-01	
J1KV54									
	MME011AH	AMERICIUM 241	-4.05E-02 +- 7.5E-02	U	pCi/g		1.26E-01		
		CO-60	8.48E-04 +- 1.8E-02	U	pCi/g		3.24E-02	5.00E-02	
		CS-137	3.27E-04 +- 1.7E-02	U	pCi/g		2.87E-02	1.00E-01	
		EU-152	-7.20E-02 +- 1.4E-01	U	pCi/g		8.20E-02	1.00E-01	
		EU-154	-5.29E-02 +- 5.3E-02	U	pCi/g		8.52E-02	1.00E-01	
		EU-155	-1.16E-02 +- 5.5E-02	U	pCi/g		9.27E-02	1.00E-01	
J1KV55									
	MME031AH	AMERICIUM 241	1.83E-02 +- 7.5E-02	U	pCi/g		1.29E-01		
		CO-60	6.88E-03 +- 1.7E-02	U	pCi/g		3.05E-02	5.00E-02	
		CS-137	1.39E-02 +- 1.7E-02	U	pCi/g		2.98E-02	1.00E-01	
		EU-152	-8.21E-02 +- 9.6E-02	U	pCi/g		7.68E-02	1.00E-01	
		EU-154	-2.13E-02 +- 5.2E-02	U	pCi/g		8.92E-02	1.00E-01	
		EU-155	2.94E-02 +- 5.5E-02	U	pCi/g		9.46E-02	1.00E-01	
J1KV56									
	MME041AH	AMERICIUM 241	-3.28E-02 +- 1.7E-01	U	pCi/g		2.90E-01		
		CO-60	-1.45E-03 +- 1.9E-02	U	pCi/g		3.33E-02	5.00E-02	
		CS-137	3.37E-01 +- 6.0E-02		pCi/g		3.15E-02	1.00E-01	
		EU-152	9.82E-03 +- 4.8E-02	U	pCi/g		8.30E-02	1.00E-01	
		EU-154	-1.74E-02 +- 5.9E-02	U	pCi/g		9.95E-02	1.00E-01	
		EU-155	3.79E-02 +- 5.9E-02	U	pCi/g		9.84E-02	1.00E-01	
J1KV57									
	MME091AH	AMERICIUM 241	1.01E-02 +- 3.5E-02	U	pCi/g		5.83E-02		
		CO-60	1.34E-02 +- 2.0E-02	U	pCi/g		3.81E-02	5.00E-02	
		CS-137	1.98E-02 +- 2.2E-02	U	pCi/g		3.91E-02	1.00E-01	
		EU-152	-1.68E-02 +- 5.1E-02	U	pCi/g		8.69E-02	1.00E-01	
		EU-154	1.38E-03 +- 6.0E-02	U	pCi/g		1.06E-01	1.00E-01	
		EU-155	2.89E-02 +- 5.0E-02	U	pCi/g		8.66E-02	1.00E-01	
J1KV58									
	MME1D1AH	AMERICIUM 241	2.58E-02 +- 8.8E-02	U	pCi/g		1.50E-01		
		CO-60	4.28E-03 +- 1.4E-02	U	pCi/g		2.52E-02	5.00E-02	

TestAmerica

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Sample Results Summary

TestAmerica TARL

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

Date: 30-Sep-11

Report No. : 48632

SDG No: J01276

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1257088 GAMMA_GS									
J1KV58									
	MME1D1AH	CS-137	1.65E-02 +- 1.3E-02	U	pCi/g		2.48E-02	1.00E-01	
		EU-152	-8.59E-03 +- 3.3E-02	U	pCi/g		5.43E-02	1.00E-01	
		EU-154	-1.37E-02 +- 4.4E-02	U	pCi/g		7.66E-02	1.00E-01	
		EU-155	-2.47E-03 +- 3.7E-02	U	pCi/g		6.23E-02	1.00E-01	
J1KV59									
	MME1G1AH	AMERICIUM 241	-3.13E-02 +- 3.7E-02	U	pCi/g		6.08E-02		
		CO-60	4.56E-03 +- 2.0E-02	U	pCi/g		3.71E-02	5.00E-02	
		CS-137	9.27E-03 +- 2.1E-02	U	pCi/g		3.74E-02	1.00E-01	
		EU-152	-1.65E-02 +- 6.0E-02	U	pCi/g		9.11E-02	1.00E-01	
		EU-154	1.14E-02 +- 6.7E-02	U	pCi/g		1.20E-01	1.00E-01	
		EU-155	1.91E-02 +- 5.3E-02	U	pCi/g		9.00E-02	1.00E-01	
1257087 SRTOT_SEP_PRECIP_GPC									
J1KV47									
	MME0K1AD	STRONTIUM	4.65E-02 +- 6.8E-02	U	pCi/g	67%	1.46E-01		
J1KV48									
	MME0R1AD	STRONTIUM	6.23E-02 +- 7.9E-02	U	pCi/g	61%	1.67E-01		
J1KV49									
	MME0T1AD	STRONTIUM	3.73E-02 +- 6.6E-02	U	pCi/g	68%	1.46E-01		
J1KV50									
	MME0V1AD	STRONTIUM	7.83E-02 +- 8.3E-02	U	pCi/g	67%	1.70E-01		
J1KV51									
	MME0W1AD	STRONTIUM	1.74E-01 +- 1.1E-01	U	pCi/g	59%	1.89E-01		
J1KV52									
	MME0X1AD	STRONTIUM	4.33E-02 +- 7.7E-02	U	pCi/g	61%	1.70E-01		
J1KV53									
	MME001AD	STRONTIUM	-8.45E-03 +- 6.0E-02	U	pCi/g	67%	1.47E-01		
J1KV53 DUP									
	MME001AK	STRONTIUM	5.89E-02 +- 7.0E-02	U	pCi/g	65%	1.47E-01		267.0
J1KV54									
	MME011AD	STRONTIUM	7.36E-02 +- 8.2E-02	U	pCi/g	56%	1.70E-01		
J1KV55									
	MME031AD	STRONTIUM	5.02E-02 +- 1.5E-01	U	pCi/g	28%	3.36E-01		
J1KV56									
	MME041AD	STRONTIUM	1.02E-01 +- 8.9E-02	U	pCi/g	63%	1.75E-01		
J1KV57									
	MME091AD	STRONTIUM	2.57E-02 +- 7.3E-02	U	pCi/g	62%	1.67E-01		
J1KV58									

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.

Sample Results Summary

Date: 30-Sep-11

TestAmerica TARL

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

Report No. : 48632 **SDG No:** J01276

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1257087 SRTOT_SEP_PRECIP_GPC									
	J1KV58								
	MME1D1AD	STRONTIUM	4.73E-02 +- 7.4E-02	U	pCi/g	63%	1.60E-01		
	J1KV59								
	MME1G1AD	STRONTIUM	4.15E-02 +- 8.1E-02	U	pCi/g	56%	1.80E-01		
1257089 906.0_H3_LSC									
	J1KV47								
	MME0K1AG	H-3	7.56E-03 +- 1.7E-02	U	pCi/g	100%	3.86E-02	4.00E+02	
	J1KV48								
	MME0R1AG	H-3	1.73E-02 +- 1.7E-02	U	pCi/g	100%	3.83E-02	4.00E+02	
	J1KV49								
	MME0T1AG	H-3	4.20E-03 +- 1.6E-02	U	pCi/g	100%	3.68E-02	4.00E+02	
	J1KV50								
	MME0V1AG	H-3	5.79E-02 +- 1.9E-02		pCi/g	100%	3.76E-02	4.00E+02	
	J1KV51								
	MME0W1AG	H-3	6.04E-02 +- 1.8E-02		pCi/g	100%	3.68E-02	4.00E+02	
	J1KV51 DUP								
	MME0W1AK	H-3	1.29E-01 +- 2.3E-02		pCi/g	100%	4.20E-02	4.00E+02	72.5
	J1KV52								
	MME0X1AG	H-3	9.27E-02 +- 1.7E-02		pCi/g	100%	3.16E-02	4.00E+02	
	J1KV53								
	MME001AG	H-3	1.10E-01 +- 2.0E-02		pCi/g	100%	3.62E-02	4.00E+02	
	J1KV54								
	MME011AG	H-3	7.15E-04 +- 1.8E-02	U	pCi/g	100%	4.08E-02	4.00E+02	
	J1KV55								
	MME031AG	H-3	7.29E-03 +- 1.4E-02	U	pCi/g	100%	3.20E-02	4.00E+02	
	J1KV56								
	MME041AG	H-3	1.47E-01 +- 2.3E-02		pCi/g	100%	3.88E-02	4.00E+02	
	J1KV57								
	MME091AG	H-3	4.76E-02 +- 1.7E-02		pCi/g	100%	3.55E-02	4.00E+02	
	J1KV58								
	MME1D1AG	H-3	2.29E-02 +- 1.8E-02	U	pCi/g	100%	4.16E-02	4.00E+02	
	J1KV59								
	MME1G1AG	H-3	-1.91E-03 +- 1.4E-02	U	pCi/g	100%	3.14E-02	4.00E+02	
1257090 NI63_LSC									
	J1KV47								
	MME0K1AE	NI-63	-4.21E-01 +- 5.9E+00	U	pCi/g	99%	1.28E+01	3.00E+01	
	J1KV48								
	MME0R1AE	NI-63	-2.51E+00 +- 6.3E+00	U	pCi/g	100%	1.61E+01	3.00E+01	
	J1KV49								

TestAmerica

rptSTLRchSaSummary2 V5.2.15 A2002

RPD - Relative Percent Difference.

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Sample Results Summary

TestAmerica TARL

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

Date: 30-Sep-11

Report No. : 48632

SDG No: J01276

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1257090 NI63_LSC									
J1KV49									
	MME0T1AE	NI-63	-1.30E+00 +- 5.8E+00	U	pCi/g	99%	1.26E+01	3.00E+01	
J1KV50									
	MME0V1AE	NI-63	2.05E+00 +- 6.1E+00	U	pCi/g	100%	1.27E+01	3.00E+01	
J1KV50 DUP									
	MME0V1AK	NI-63	1.19E+00 +- 6.1E+00	U	pCi/g	98%	1.29E+01	3.00E+01	53.2
J1KV51									
	MME0W1AE	NI-63	-3.22E-01 +- 5.9E+00	U	pCi/g	100%	1.25E+01	3.00E+01	
J1KV52									
	MME0X1AE	NI-63	-3.08E+00 +- 5.8E+00	U	pCi/g	97%	1.28E+01	3.00E+01	
J1KV53									
	MME001AE	NI-63	1.20E+00 +- 6.0E+00	U	pCi/g	100%	1.28E+01	3.00E+01	
J1KV54									
	MME011AE	NI-63	1.38E+00 +- 6.0E+00	U	pCi/g	100%	1.24E+01	3.00E+01	
J1KV55									
	MME031AE	NI-63	-1.92E+00 +- 6.0E+00	U	pCi/g	98%	1.31E+01	3.00E+01	
J1KV56									
	MME041AE	NI-63	-2.58E+00 +- 5.8E+00	U	pCi/g	100%	1.32E+01	3.00E+01	
J1KV57									
	MME091AE	NI-63	-3.26E-01 +- 5.9E+00	U	pCi/g	100%	1.27E+01	3.00E+01	
J1KV58									
	MME1D1AE	NI-63	-1.51E+00 +- 6.1E+00	U	pCi/g	95%	1.31E+01	3.00E+01	
J1KV59									
	MME1G1AE	NI-63	6.46E+00 +- 6.4E+00	U	pCi/g	100%	1.25E+01	3.00E+01	
1257094 C14_CHEM_LSC									
J1KV47									
	MME0K1AJ	C-14	-3.81E-02 +- 2.0E-01	U	pCi/g	100%	4.57E-01	5.00E+01	
J1KV48									
	MME0R1AJ	C-14	3.93E-02 +- 2.1E-01	U	pCi/g	100%	4.57E-01	5.00E+01	
J1KV49									
	MME0T1AJ	C-14	8.83E-02 +- 2.1E-01	U	pCi/g	100%	4.59E-01	5.00E+01	
J1KV49 DUP									
	MME0T1AK	C-14	5.85E-02 +- 2.1E-01	U	pCi/g	100%	4.59E-01	5.00E+01	40.7
J1KV50									
	MME0V1AJ	C-14	1.44E-02 +- 2.0E-01	U	pCi/g	100%	4.56E-01	5.00E+01	
J1KV51									
	MME0W1AJ	C-14	1.11E-01 +- 2.1E-01	U	pCi/g	100%	4.56E-01	5.00E+01	
J1KV52									
	MME0X1AJ	C-14	9.97E-01 +- 2.6E-01		pCi/g	100%	4.57E-01	5.00E+01	

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.

Sample Results Summary

TestAmerica TARL

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

Date: 30-Sep-11

Report No. : 48632

SDG No: J01276

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1257094 C14_CHEM_LSC									
J1KV53									
	MME001AJ	C-14	9.24E-02 +- 2.1E-01	U	pCi/g	100%	4.58E-01	5.00E+01	
J1KV54									
	MME011AJ	C-14	2.97E-02 +- 2.0E-01	U	pCi/g	100%	4.57E-01	5.00E+01	
J1KV55									
	MME031AJ	C-14	8.14E-02 +- 2.1E-01	U	pCi/g	100%	4.57E-01	5.00E+01	
J1KV56									
	MME041AJ	C-14	8.31E-02 +- 2.1E-01	U	pCi/g	100%	4.56E-01	5.00E+01	
J1KV57									
	MME091AJ	C-14	4.55E-01 +- 2.3E-01	U	pCi/g	100%	4.58E-01	5.00E+01	
J1KV58									
	MME1D1AJ	C-14	1.60E-01 +- 2.1E-01	U	pCi/g	100%	4.57E-01	5.00E+01	
J1KV59									
	MME1G1AJ	C-14	2.25E-01 +- 2.2E-01	U	pCi/g	100%	4.59E-01	5.00E+01	
1258059 7196_CR6									
J1KV47									
	MME0K1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	MME0K1AM	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	3.50E-01	0.0
J1KV48									
	MME0R1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
J1KV49									
	MME0T1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
J1KV50									
	MME0V1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
J1KV51									
	MME0W1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
J1KV52									
	MME0X1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
J1KV53									
	MME001AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
J1KV54									
	MME011AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
J1KV55									
	MME031AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
J1KV56									
	MME041AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
J1KV57									
	MME091AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
J1KV58									

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.

Sample Results Summary

Date: 30-Sep-11

TestAmerica TARL

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

Report No. : 48632

SDG No: J01276

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1258059	7196_CR6								
	J1KV58								
	MME1D1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1KV59								
	MME1G1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	

No. of Results: 224

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

Date: 30-Sep-11

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Report No. : 48632 **SDG No.:** J01276

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
PUISO_PLATE_AEA								
1257097 BLANK QC,								
MME8W1AA	PU-238	0.00E+00 +- 6.6E-02	U	pCi/g	100%			1.24E-01
	PU239/40	0.00E+00 +- 6.6E-02	U	pCi/g	100%			1.24E-01
1257097 LCS,								
MME8W1AC	PU239/40	6.80E+00 +- 1.7E+00		pCi/g	100%	102%	0.0	1.22E-01
UISO_IE_PLATE_AEA								
1257096 BLANK QC,								
MME8V1AA	U-234	5.02E-02 +- 7.2E-02	U	pCi/g	87%			9.41E-02
	U-235	0.00E+00 +- 5.0E-02	U	pCi/g	87%			9.41E-02
	U-238	-5.03E-03 +- 5.0E-02	U	pCi/g	87%			1.20E-01
1257096 LCS,								
MME8V1AC	U-234	3.86E+00 +- 1.1E+00		pCi/g	67%	119%	0.2	1.42E-01
	U-238	3.69E+00 +- 1.1E+00		pCi/g	67%	109%	0.1	1.27E-01
GAMMA_GS								
1257088 BLANK QC,								
MME8P1AA	AMERICIUM 241	-1.20E-02 +- 4.0E-02	U	pCi/g				6.81E-02
	CO-60	1.07E-03 +- 1.3E-02	U	pCi/g				2.51E-02
	CS-137	-7.87E-03 +- 1.4E-02	U	pCi/g				2.25E-02
	EU-152	-1.15E-03 +- 3.6E-02	U	pCi/g				6.41E-02
	EU-154	-3.47E-02 +- 4.3E-02	U	pCi/g				7.09E-02
	EU-155	-6.94E-03 +- 2.8E-02	U	pCi/g				4.84E-02
1257088 LCS,								
MME8P1AC	CS-137	1.07E+00 +- 1.5E-01		pCi/g		100%	0.0	3.04E-02
SRTOT_SEP_PRECIP_GPC								
1257087 BLANK QC,								
MME8N1AA	STRONTIUM	-1.91E-02 +- 4.6E-02	U	pCi/g	91%			1.15E-01
1257087 LCS,								
MME8N1AC	STRONTIUM	9.28E-01 +- 2.7E-01		pCi/g	89%	83%	-0.2	1.14E-01
906.0_H3_LSC								
1257089 BLANK QC,								
MME8Q1AA	H-3	4.75E-03 +- 1.6E-02	U	pCi/g	100%			3.63E-02
1257089 LCS,								
MME8Q1AC	H-3	2.57E-01 +- 2.3E-02		pCi/g	100%	104%	0.0	3.20E-02
NI63_LSC								
1257090 BLANK QC,								
MME8R1AA	NI-63	-1.25E-01 +- 6.5E+00	U	pCi/g	92%			1.40E+01
1257090 LCS,								
MME8R1AC	NI-63	4.83E+02 +- 4.9E+01		pCi/g	97%	78%	-0.2	1.27E+01
C14_CHEM_LSC								
1257094 BLANK QC,								
MME8T1AA	C-14	2.25E-03 +- 5.2E-03	U	pCi/g	100%			1.15E-02
1257094 LCS,								

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

rptSTLRchQcSummary V5.2.15 A2002

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

Date: 30-Sep-11

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Report No. : 48632

SDG No.: J01276

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
MME8T1AC	C-14	7.27E+00 +- 5.2E-01		pCi/g	100%	99%	0.0	4.61E-01
7196_CR6								
1258059 MATRIX SPIKE, J1KV47								
MME0K1AL	HEXCHROME	8.81E+00 +- 0.0E+00		mg/kg	N/A	87%	-0.1	1.55E-01
1258059 LCS,								
MMF2P1AC	HEXCHROME	1.98E+01 +- 0.0E+00		mg/kg	N/A	99%	0.0	1.55E-01
1258059 BLANK QC,								
MMF2P1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A			1.55E-01

No. of Results: 26

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: 30-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 9:15:00 AM
Lot-Sample No.:	J1I130506-1	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV47	**COC No. :**	RC-075-256	**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: 1257087	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MME0K1AD		**Report DB ID:**	9MME0K10				
STRONTIUM	***4.65E-02***	U	6.7E-02	6.8E-02	1.46E-01	pCi/g	67%	*0.32*	9/28/11 09:52 p		6.0	GPC32A
						6.74E-02		*(1.4)*			g	
Batch: 1257088	GAMMA_GS			**Work Order:**	MME0K1AH		**Report DB ID:**	9MME0K10				
AMERICIUM 241	***-3.30E-02***	U	1.8E-01	1.8E-01	2.99E-01	pCi/g		*-0.11*	9/16/11 10:23 p		330.6	GER13$1
								-0.36			g	
CO-60	***-7.19E-03***	U	2.0E-02	2.0E-02	3.35E-02	pCi/g		*-0.21*	9/16/11 10:23 p		330.6	GER13$1
							5.00E-02	*-0.73*			g	
CS-137	***4.02E-03***	U	2.0E-02	2.0E-02	3.48E-02	pCi/g		*0.12*	9/16/11 10:23 p		330.6	GER13$1
							1.00E-01	*0.4*			g	
EU-152	***-4.39E-02***	U	5.2E-02	5.2E-02	8.42E-02	pCi/g		*-0.52*	9/16/11 10:23 p		330.6	GER13$1
							1.00E-01	*-(1.7)*			g	
EU-154	***4.24E-03***	U	6.6E-02	6.6E-02	1.16E-01	pCi/g		*0.04*	9/16/11 10:23 p		330.6	GER13$1
							1.00E-01	*0.13*			g	
EU-155	***6.96E-02***	U	5.8E-02	5.8E-02	1.01E-01	pCi/g		*0.69*	9/16/11 10:23 p		330.6	GER13$1
							1.00E-01	*(2.4)*			g	
Batch: 1257089	906.0_H3_LSC			**Work Order:**	MME0K1AG		**Report DB ID:**	9MME0K10				
H-3	***7.56E-03***	U	1.6E-02	1.7E-02	3.86E-02	pCi/g	100%	*0.2*	9/23/11 11:41 p		102.7	LSC6
						1.84E-02	4.00E+02	*0.88*			g	
Batch: 1257090	NI63_LSC			**Work Order:**	MME0K1AE		**Report DB ID:**	9MME0K10				
NI-63	***-4.21E-01***	U	5.1E+00	5.9E+00	1.28E+01	pCi/g	99%	*-0.03*	9/27/11 12:30 a		0.25	LSC3
						5.99E+00	3.00E+01	*-0.14*			g	

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: 30-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 9:15:00 AM
Lot-Sample No.:	J1I130506-1	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV47	**COC No. :**	RC-075-256	**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: 1257094	C14_CHEM_LSC			**Work Order:**	MME0K1AJ		**Report DB ID:** 9MME0K10					
C-14	***-3.81E-02***	U	1.8E-01	2.0E-01	4.57E-01	pCi/g	100%	*-0.08*	9/23/11 01:55 p		5.026	LSC4
						2.15E-01	5.00E+01	*-0.38*			g	
Batch: 1257096	UISO_IE_PLATE_AEA			**Work Order:**	MME0K1AC		**Report DB ID:** 9MME0K10					
U-234	***3.30E-01***		2.0E-01	2.1E-01	1.48E-01	pCi/g	87%	*(2.2)*	9/28/11 11:40 a		0.99	ALP3
						3.60E-02	1.00E+00	*(3.2)*			g	
U-235	***4.65E-02***	U	8.0E-02	8.1E-02	1.54E-01	pCi/g	87%	*0.3*	9/28/11 11:40 a		0.99	ALP3
						3.88E-02	1.00E+00	*(1.2)*			g	
U-238	***2.74E-01***		1.8E-01	1.9E-01	1.48E-01	pCi/g	87%	*(1.8)*	9/28/11 11:40 a		0.99	ALP3
						3.60E-02	1.00E+00	*(2.9)*			g	
							Ratio U-234/238 = 1.2					
Batch: 1257097	PUISO_PLATE_AEA			**Work Order:**	MME0K1AF		**Report DB ID:** 9MME0K10					
PU-238	***0.00E+00***	U	0.0E+00	6.7E-02	1.26E-01	pCi/g	98%	*0.*	9/27/11 08:07 p		1.02	ALP44
						1.75E-02	1.00E+00	*0.*			g	
PU239/40	***3.37E-02***	U	6.7E-02	6.8E-02	1.26E-01	pCi/g	98%	*0.27*	9/27/11 08:07 p		1.02	ALP44
						1.75E-02	1.00E+00	*0.99*			g	
Batch: 1258059	7196_CR6			**Work Order:**	MME0K1AA		**Report DB ID:** 9MME0K10					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	9/15/11 11:10 a		2.5009	
							1.55E-01	*N/A*			g	

No. of Results: 16 **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: 30-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 7:50:00 AM
Lot-Sample No.:	J1I130506-2	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV48	**COC No. :**	RC-075-256	**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: 1257087	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MME0R1AD		**Report DB ID:**	9MME0R10				
STRONTIUM	***6.23E-02***	U	7.7E-02	7.9E-02	1.67E-01	pCi/g	61%	*0.37*	9/28/11 09:52 p		6.01	GPC32B
						7.75E-02		*(1.6)*			g	
Batch: 1257088	GAMMA_GS			**Work Order:**	MME0R1AH		**Report DB ID:**	9MME0R10				
AMERICIUM 241	***8.33E-03***	U	7.4E-02	7.4E-02	1.24E-01	pCi/g		*0.07*	9/16/11 10:24 p		349.9	GER10$1
								0.22			g	
CO-60	***-3.24E-04***	U	1.6E-02	1.6E-02	2.85E-02	pCi/g		*-0.01*	9/16/11 10:24 p		349.9	GER10$1
							5.00E-02	*-0.04*			g	
CS-137	***1.56E-02***	U	1.7E-02	1.7E-02	3.03E-02	pCi/g		*0.51*	9/16/11 10:24 p		349.9	GER10$1
							1.00E-01	*(1.8)*			g	
EU-152	***2.66E-03***	U	6.8E-02	6.8E-02	7.86E-02	pCi/g		*0.03*	9/16/11 10:24 p		349.9	GER10$1
							1.00E-01	*0.08*			g	
EU-154	***-2.89E-02***	U	5.4E-02	5.4E-02	9.04E-02	pCi/g		*-0.32*	9/16/11 10:24 p		349.9	GER10$1
							1.00E-01	*-(1.1)*			g	
EU-155	***-2.33E-03***	U	5.5E-02	5.5E-02	9.25E-02	pCi/g		*-0.03*	9/16/11 10:24 p		349.9	GER10$1
							1.00E-01	*-0.09*			g	
Batch: 1257089	906.0_H3_LSC			**Work Order:**	MME0R1AG		**Report DB ID:**	9MME0R10				
H-3	***1.73E-02***	U	1.6E-02	1.7E-02	3.83E-02	pCi/g	100%	*0.45*	9/24/11 01:04 a		104.1	LSC6
						1.82E-02	4.00E+02	*(2.)*			g	
Batch: 1257090	NI63_LSC			**Work Order:**	MME0R1AE		**Report DB ID:**	9MME0R10				
NI-63	***-2.51E+00***	U	5.5E+00	6.3E+00	1.61E+01	pCi/g	100%	*-0.16*	9/27/11 12:53 a		0.25	LSC3
						7.56E+00	3.00E+01	*-0.8*			g	

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.
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FORM I

SAMPLE RESULTS

Date: 30-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 7:50:00 AM
Lot-Sample No.:	J1I130506-2	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV48	**COC No. :**	RC-075-256	**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: 1257094	C14_CHEM_LSC			**Work Order:**	MME0R1AJ		**Report DB ID:**	9MME0R10				
C-14	***3.93E-02***	U	1.9E-01	2.1E-01	4.57E-01	pCi/g	100%	*0.09*	9/23/11 02:18 p		5.026	LSC4
						2.15E-01	5.00E+01	*0.38*			g	
Batch: 1257096	UISO_IE_PLATE_AEA			**Work Order:**	MME0R1AC		**Report DB ID:**	9MME0R10				
U-234	***2.17E-01***	U	1.9E-01	2.0E-01	2.37E-01	pCi/g	60%	*0.92*	9/28/11 11:40 a		1.02	ALP4
						6.50E-02	1.00E+00	*(2.2)*			g	
U-235	***3.55E-02***	U	7.9E-02	7.9E-02	1.65E-01	pCi/g	60%	*0.22*	9/28/11 11:40 a		1.02	ALP4
						2.91E-02	1.00E+00	*0.89*			g	
U-238	***2.62E-01***		2.1E-01	2.2E-01	2.15E-01	pCi/g	60%	*(1.2)*	9/28/11 11:40 a		1.02	ALP4
						5.44E-02	1.00E+00	*(2.4)*			g	
							Ratio U-234/238 = 0.8					
Batch: 1257097	PUISO_PLATE_AEA			**Work Order:**	MME0R1AF		**Report DB ID:**	9MME0R10				
PU-238	***0.00E+00***	U	0.0E+00	6.5E-02	1.21E-01	pCi/g	89%	*0.*	9/27/11 08:08 p		1.01	ALP121
						1.68E-02	1.00E+00	*0.*			g	
PU239/40	***0.00E+00***	U	0.0E+00	6.5E-02	1.21E-01	pCi/g	89%	*0.*	9/27/11 08:08 p		1.01	ALP121
						1.68E-02	1.00E+00	*0.*			g	
Batch: 1258059	7196_CR6			**Work Order:**	MME0R1AA		**Report DB ID:**	9MME0R10				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	9/15/11 11:10 a		2.5053	
							1.55E-01	*N/A*			g	

No. of Results: 16 **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.
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FORM I

SAMPLE RESULTS

Date: 30-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 7:55:00 AM
Lot-Sample No.:	J1I130506-3	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV49	**COC No. :**	RC-075-256	**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: 1257087	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MME0T1AD		**Report DB ID:**	9MME0T10				
STRONTIUM	***3.73E-02***	U	6.5E-02	6.6E-02	1.46E-01	pCi/g	68%	*0.26*	9/28/11 09:52 p		6.0	GPC32C
						6.73E-02		*(1.1)*			g	
Batch: 1257088	GAMMA_GS			**Work Order:**	MME0T1AH		**Report DB ID:**	9MME0T10				
AMERICIUM 241	***-1.98E-02***	U	4.6E-02	4.6E-02	7.63E-02	pCi/g		*-0.26*	9/16/11 10:24 p		337.5	GER14$1
								-0.87			g	
CO-60	***-1.58E-02***	U	2.3E-02	2.3E-02	3.69E-02	pCi/g		*-0.43*	9/16/11 10:24 p		337.5	GER14$1
							5.00E-02	*-(1.4)*			g	
CS-137	***2.14E-02***	U	2.5E-02	2.5E-02	4.58E-02	pCi/g		*0.47*	9/16/11 10:24 p		337.5	GER14$1
							1.00E-01	*(1.7)*			g	
EU-152	***3.64E-02***	U	8.2E-02	8.2E-02	1.15E-01	pCi/g		*0.32*	9/16/11 10:24 p		337.5	GER14$1
							1.00E-01	*0.89*			g	
EU-154	***-2.61E-02***	U	7.5E-02	7.5E-02	1.28E-01	pCi/g		*-0.2*	9/16/11 10:24 p		337.5	GER14$1
							1.00E-01	*-0.69*			g	
EU-155	***3.01E-03***	U	6.4E-02	6.4E-02	1.08E-01	pCi/g		*0.03*	9/16/11 10:24 p		337.5	GER14$1
							1.00E-01	*0.09*			g	
Batch: 1257089	906.0_H3_LSC			**Work Order:**	MME0T1AG		**Report DB ID:**	9MME0T10				
H-3	***4.20E-03***	U	1.5E-02	1.6E-02	3.68E-02	pCi/g	100%	*0.11*	9/24/11 02:27 a		106.6	LSC6
						1.75E-02	4.00E+02	*0.52*			g	
Batch: 1257090	NI63_LSC			**Work Order:**	MME0T1AE		**Report DB ID:**	9MME0T10				
NI-63	***-1.30E+00***	U	5.0E+00	5.8E+00	1.26E+01	pCi/g	99%	*-0.1*	9/27/11 01:16 a		0.25	LSC3
						5.89E+00	3.00E+01	*-0.44*			g	

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: 30-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 7:55:00 AM
Lot-Sample No.:	J1I130506-3	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV49	**COC No. :**	RC-075-256	**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: 1257094	C14_CHEM_LSC			**Work Order:**	MME0T1AJ		**Report DB ID:**	9MME0T10				
C-14	***8.83E-02***	U	1.9E-01	2.1E-01	4.59E-01	pCi/g	100%	*0.19*	9/23/11 02:40 p		5.006	LSC4
						2.16E-01	5.00E+01	*0.85*			g	
Batch: 1257096	UISO_IE_PLATE_AEA			**Work Order:**	MME0T1AC		**Report DB ID:**	9MME0T10				
U-234	***2.95E-01***		1.8E-01	1.9E-01	1.01E-01	pCi/g	85%	*(2.9)*	9/28/11 11:41 a		0.99	ALP9
						1.40E-02	1.00E+00	*(3.1)*			g	
U-235	***2.68E-02***	U	5.4E-02	5.4E-02	1.01E-01	pCi/g	85%	*0.27*	9/28/11 11:41 a		0.99	ALP9
						1.40E-02	1.00E+00	*0.99*			g	
U-238	***2.95E-01***		1.8E-01	1.9E-01	1.01E-01	pCi/g	85%	*(2.9)*	9/28/11 11:41 a		0.99	ALP9
						1.40E-02	1.00E+00	*(3.1)*			g	
							Ratio U-234/238 = 1.0					
Batch: 1257097	PUISO_PLATE_AEA			**Work Order:**	MME0T1AF		**Report DB ID:**	9MME0T10				
PU-238	***0.00E+00***	U	0.0E+00	7.2E-02	1.35E-01	pCi/g	94%	*0.*	9/27/11 08:08 p		1.03	ALP123
						1.88E-02	1.00E+00	*0.*			g	
PU239/40	***3.61E-02***	U	7.2E-02	7.3E-02	1.35E-01	pCi/g	94%	*0.27*	9/27/11 08:08 p		1.03	ALP123
						1.88E-02	1.00E+00	*0.99*			g	
Batch: 1258059	7196_CR6			**Work Order:**	MME0T1AA		**Report DB ID:**	9MME0T10				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	9/15/11 11:10 a		2.5009	
							1.55E-01	*N/A*			g	

No. of Results: 16 **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.
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FORM I

SAMPLE RESULTS

Date: 30-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 8:05:00 AM
Lot-Sample No.:	J1I130506-4	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV50	**COC No. :**	RC-075-256	**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: 1257087	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MME0V1AD		**Report DB ID:**	9MME0V10				
STRONTIUM	***7.83E-02***	U	8.0E-02	8.3E-02	1.70E-01	pCi/g	67%	*0.46*	9/28/11 09:52 p		6.0	GPC32D
						7.97E-02		*(1.9)*			g	
Batch: 1257088	GAMMA_GS			**Work Order:**	MME0V1AH		**Report DB ID:**	9MME0V10				
AMERICIUM 241	***-4.88E-02***	U	1.1E-01	1.1E-01	1.84E-01	pCi/g		*-0.26*	9/16/11 10:25 p		309.9	GER11$1
								-0.91			g	
CO-60	***1.74E-02***	U	1.7E-02	1.7E-02	3.21E-02	pCi/g		*0.54*	9/16/11 10:25 p		309.9	GER11$1
							5.00E-02	*(2.1)*			g	
CS-137	***-1.12E-02***	U	1.7E-02	1.7E-02	2.75E-02	pCi/g		*-0.41*	9/16/11 10:25 p		309.9	GER11$1
							1.00E-01	*-(1.3)*			g	
EU-152	***3.69E-02***	U	4.0E-02	4.0E-02	7.01E-02	pCi/g		*0.53*	9/16/11 10:25 p		309.9	GER11$1
							1.00E-01	*(1.9)*			g	
EU-154	***-1.92E-02***	U	5.3E-02	5.3E-02	9.08E-02	pCi/g		*-0.21*	9/16/11 10:25 p		309.9	GER11$1
							1.00E-01	*-0.73*			g	
EU-155	***2.66E-02***	U	4.7E-02	4.7E-02	8.01E-02	pCi/g		*0.33*	9/16/11 10:25 p		309.9	GER11$1
							1.00E-01	*(1.1)*			g	
Batch: 1257089	906.0_H3_LSC			**Work Order:**	MME0V1AG		**Report DB ID:**	9MME0V10				
H-3	***5.79E-02***		1.8E-02	1.9E-02	3.76E-02	pCi/g	100%	*(1.5)*	9/24/11 03:50 a		115.6	LSC6
						1.79E-02	4.00E+02	*(6.2)*			g	
Batch: 1257090	NI63_LSC			**Work Order:**	MME0V1AE		**Report DB ID:**	9MME0V10				
NI-63	***2.05E+00***	U	5.2E+00	6.1E+00	1.27E+01	pCi/g	100%	*0.16*	9/27/11 01:39 a		0.25	LSC3
						5.94E+00	3.00E+01	*0.68*			g	

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: 30-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 8:05:00 AM
Lot-Sample No.:	J1I130506-4	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV50	**COC No. :**	RC-075-256	**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: 1257094	C14_CHEM_LSC			**Work Order:**	MME0V1AJ		**Report DB ID:**	9MME0V10				
C-14	***1.44E-02***	U	1.9E-01	2.0E-01	4.56E-01	pCi/g	100%	*0.03*	9/23/11 03:25 p		5.035	LSC4
						2.15E-01	5.00E+01	*0.14*			g	
Batch: 1257096	UISO_IE_PLATE_AEA			**Work Order:**	MME0V1AC		**Report DB ID:**	9MME0V10				
U-234	***3.71E-01***		1.9E-01	2.1E-01	9.32E-02	pCi/g	99%	*(4.)*	9/28/11 11:41 a		0.99	ALP10
						1.29E-02	1.00E+00	*(3.6)*			g	
U-235	***-2.49E-03***	U	5.0E-02	5.0E-02	1.04E-01	pCi/g	99%	*-0.02*	9/28/11 11:41 a		0.99	ALP10
						1.83E-02	1.00E+00	*-0.1*			g	
U-238	***2.47E-01***		1.6E-01	1.6E-01	9.32E-02	pCi/g	99%	*(2.7)*	9/28/11 11:41 a		0.99	ALP10
						1.29E-02	1.00E+00	*(3.)*			g	
							Ratio U-234/238 = 1.5					
Batch: 1257097	PUISO_PLATE_AEA			**Work Order:**	MME0V1AF		**Report DB ID:**	9MME0V10				
PU-238	***0.00E+00***	U	0.0E+00	8.1E-02	1.52E-01	pCi/g	80%	*0.*	9/27/11 08:09 p		1.03	ALP124
						2.11E-02	1.00E+00	*0.*			g	
PU239/40	***0.00E+00***	U	0.0E+00	8.1E-02	1.52E-01	pCi/g	80%	*0.*	9/27/11 08:09 p		1.03	ALP124
						2.11E-02	1.00E+00	*0.*			g	
Batch: 1258059	7196_CR6			**Work Order:**	MME0V1AA		**Report DB ID:**	9MME0V10				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	9/15/11 11:10 a		2.5095	
							1.55E-01	*N/A*			g	

No. of Results: 16 **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: 30-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 8:07:00 AM
Lot-Sample No.:	J1I130506-5	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV51	**COC No. :**	RC-075-256	**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: 1257087	SRTOT_SEP_PRECIP_GPC			**Work Order:** MME0W1AD			**Report DB ID:** 9MME0W10					
STRONTIUM	***1.74E-01***	U	9.8E-02	1.1E-01	1.89E-01	pCi/g	59%	*0.92*	9/28/11 09:52 p		6.01	GPC26A
						8.84E-02		*(3.2)*			g	
Batch: 1257088	GAMMA_GS			**Work Order:** MME0W1AH			**Report DB ID:** 9MME0W10					
AMERICIUM 241	***5.22E-02***	U	1.6E-01	1.6E-01	2.70E-01	pCi/g		*0.19*	9/17/11 02:27 a		364.0	GER13$1
								0.67			g	
CO-60	***1.97E-02***	U	1.7E-02	1.7E-02	3.29E-02	pCi/g		*0.6*	9/17/11 02:27 a		364.0	GER13$1
							5.00E-02	*(2.3)*			g	
CS-137	***-3.05E-03***	U	1.7E-02	1.7E-02	2.85E-02	pCi/g		*-0.11*	9/17/11 02:27 a		364.0	GER13$1
							1.00E-01	*-0.36*			g	
EU-152	***-3.03E-02***	U	4.3E-02	4.3E-02	7.14E-02	pCi/g		*-0.42*	9/17/11 02:27 a		364.0	GER13$1
							1.00E-01	*-(1.4)*			g	
EU-154	***-1.76E-02***	U	5.8E-02	5.8E-02	9.89E-02	pCi/g		*-0.18*	9/17/11 02:27 a		364.0	GER13$1
							1.00E-01	*-0.61*			g	
EU-155	***1.92E-02***	U	5.3E-02	5.3E-02	8.90E-02	pCi/g		*0.22*	9/17/11 02:27 a		364.0	GER13$1
							1.00E-01	*0.73*			g	
Batch: 1257089	906.0_H3_LSC			**Work Order:** MME0W1AG			**Report DB ID:** 9MME0W10					
H-3	***6.04E-02***		1.7E-02	1.8E-02	3.68E-02	pCi/g	100%	*(1.6)*	9/24/11 05:13 a		108.1	LSC6
						1.75E-02	4.00E+02	*(6.5)*			g	
Batch: 1257090	NI63_LSC			**Work Order:** MME0W1AE			**Report DB ID:** 9MME0W10					
NI-63	***-3.22E-01***	U	5.0E+00	5.9E+00	1.25E+01	pCi/g	100%	*-0.03*	9/27/11 02:25 a		0.25	LSC3
						5.86E+00	3.00E+01	*-0.11*			g	

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: 30-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 8:07:00 AM
Lot-Sample No.:	J1I130506-5	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV51	**COC No. :**	RC-075-256	**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: 1257094	C14_CHEM_LSC			**Work Order:**	MME0W1AJ		**Report DB ID:**	9MME0W10				
C-14	***1.11E-01***	U	1.9E-01	2.1E-01	4.56E-01	pCi/g	100%	*0.24*	9/23/11 03:48 p		5.03	LSC4
						2.15E-01	5.00E+01	*(1.1)*			g	
Batch: 1257096	UISO_IE_PLATE_AEA			**Work Order:**	MME0W1AC		**Report DB ID:**	9MME0W10				
U-234	***1.46E-01***		1.3E-01	1.4E-01	1.10E-01	pCi/g	74%	*(1.3)*	9/28/11 11:41 a		1.01	ALP11
						1.53E-02	1.00E+00	*(2.2)*			g	
U-235	***0.00E+00***	U	0.0E+00	5.9E-02	1.10E-01	pCi/g	74%	*0.*	9/28/11 11:41 a		1.01	ALP11
						1.53E-02	1.00E+00	*0.*			g	
U-238	***1.41E-01***		1.3E-01	1.4E-01	1.41E-01	pCi/g	74%	*(1.)*	9/28/11 11:41 a		1.01	ALP11
						3.06E-02	1.00E+00	*(2.1)*			g	
							Ratio U-234/238 = 1.0					
Batch: 1257097	PUISO_PLATE_AEA			**Work Order:**	MME0W1AF		**Report DB ID:**	9MME0W10				
PU-238	***0.00E+00***	U	0.0E+00	5.5E-02	1.02E-01	pCi/g	100%	*0.*	9/27/11 08:09 p		1.05	ALP125
						1.42E-02	1.00E+00	*0.*			g	
PU239/40	***0.00E+00***	U	0.0E+00	5.5E-02	1.02E-01	pCi/g	100%	*0.*	9/27/11 08:09 p		1.05	ALP125
						1.42E-02	1.00E+00	*0.*			g	
Batch: 1258059	7196_CR6			**Work Order:**	MME0W1AA		**Report DB ID:**	9MME0W10				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	9/15/11 11:10 a		2.503	
							1.55E-01	*N/A*			g	

No. of Results: 16 **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.
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FORM I

SAMPLE RESULTS

Date: 30-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 8:10:00 AM
Lot-Sample No.:	J1I130506-6	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV52	**COC No. :**	RC-075-256	**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: 1257087	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MME0X1AD		**Report DB ID:**	9MME0X10				
STRONTIUM	***4.33E-02***	U	7.6E-02	7.7E-02	1.70E-01	pCi/g	61%	*0.26*	9/28/11 09:52 p		6.0	GPC26B
						7.91E-02		*(1.1)*			g	
Batch: 1257088	GAMMA_GS			**Work Order:**	MME0X1AH		**Report DB ID:**	9MME0X10				
AMERICIUM 241	***6.77E-02***	U	8.4E-02	8.4E-02	1.45E-01	pCi/g		*0.47*	9/17/11 02:27 a		354.3	GER11$1
								(1.6)			g	
CO-60	***6.00E-03***	U	1.2E-02	1.2E-02	2.31E-02	pCi/g		*0.26*	9/17/11 02:27 a		354.3	GER11$1
							5.00E-02	*0.98*			g	
CS-137	***-4.18E-03***	U	1.5E-02	1.5E-02	2.44E-02	pCi/g		*-0.17*	9/17/11 02:27 a		354.3	GER11$1
							1.00E-01	*-0.57*			g	
EU-152	***-2.16E-02***	U	3.1E-02	3.1E-02	5.03E-02	pCi/g		*-0.43*	9/17/11 02:27 a		354.3	GER11$1
							1.00E-01	*-(1.4)*			g	
EU-154	***2.13E-02***	U	4.3E-02	4.3E-02	7.88E-02	pCi/g		*0.27*	9/17/11 02:27 a		354.3	GER11$1
							1.00E-01	*0.99*			g	
EU-155	***5.59E-03***	U	3.6E-02	3.6E-02	6.17E-02	pCi/g		*0.09*	9/17/11 02:27 a		354.3	GER11$1
							1.00E-01	*0.31*			g	
Batch: 1257089	906.0_H3_LSC			**Work Order:**	MME0X1AG		**Report DB ID:**	9MME0X10				
H-3	***9.27E-02***		1.6E-02	1.7E-02	3.16E-02	pCi/g	100%	*(2.9)*	9/24/11 07:58 a		132.0	LSC6
						1.51E-02	4.00E+02	*(10.6)*			g	
Batch: 1257090	NI63_LSC			**Work Order:**	MME0X1AE		**Report DB ID:**	9MME0X10				
NI-63	***-3.08E+00***	U	5.0E+00	5.8E+00	1.28E+01	pCi/g	97%	*-0.24*	9/27/11 02:48 a		0.25	LSC3
						6.00E+00	3.00E+01	*-(1.1)*			g	

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.
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FORM I

SAMPLE RESULTS

Date: 30-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 8:10:00 AM
Lot-Sample No.:	J1I130506-6	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV52	**COC No. :**	RC-075-256	**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: 1257094	C14_CHEM_LSC			**Work Order:**	MME0X1AJ		**Report DB ID:**	9MME0X10				
C-14	***9.97E-01***		2.3E-01	2.6E-01	4.57E-01	pCi/g	100%	*(2.2)*	9/23/11 04:10 p		5.027	LSC4
						2.15E-01	5.00E+01	*(7.7)*			g	
Batch: 1257096	UISO_IE_PLATE_AEA			**Work Order:**	MME0X1AC		**Report DB ID:**	9MME0X10				
U-234	***9.94E-02***	U	1.2E-01	1.2E-01	1.43E-01	pCi/g	67%	*0.69*	9/28/11 11:41 a		1.0	ALP12
						2.53E-02	1.00E+00	*(1.6)*			g	
U-235	***0.00E+00***	U	0.0E+00	6.9E-02	1.29E-01	pCi/g	67%	*0.*	9/28/11 11:41 a		1.0	ALP12
						1.79E-02	1.00E+00	*0.*			g	
U-238	***2.71E-01***		1.9E-01	2.0E-01	1.43E-01	pCi/g	67%	*(1.9)*	9/28/11 11:41 a		1.0	ALP12
						2.53E-02	1.00E+00	*(2.7)*			g	
							Ratio U-234/238 = 0.4					
Batch: 1257097	PUISO_PLATE_AEA			**Work Order:**	MME0X1AF		**Report DB ID:**	9MME0X10				
PU-238	***0.00E+00***	U	0.0E+00	7.3E-02	1.37E-01	pCi/g	97%	*0.*	9/27/11 08:10 p		1.03	ALP128
						1.90E-02	1.00E+00	*0.*			g	
PU239/40	***-1.83E-03***	U	7.3E-02	7.3E-02	1.37E-01	pCi/g	97%	*-0.01*	9/27/11 08:10 p		1.03	ALP128
						1.90E-02	1.00E+00	*-0.05*			g	
Batch: 1258059	7196_CR6			**Work Order:**	MME0X1AA		**Report DB ID:**	9MME0X10				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	9/15/11 11:10 a		2.5009	
							1.55E-01	*N/A*			g	

No. of Results: 16 **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.
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FORM I

SAMPLE RESULTS

Date: 30-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 8:15:00 AM
Lot-Sample No.:	J1I130506-7	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV53	**COC No. :**	RC-075-256	**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: 1257087	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MME001AD		**Report DB ID:** 9MME0010					
STRONTIUM	***-8.45E-03***	U	6.0E-02	6.0E-02	1.47E-01	pCi/g	67%	*-0.06*	9/28/11 09:52 p		6.02	GPC26C
						6.82E-02		*-0.28*			g	
Batch: 1257088	GAMMA_GS			**Work Order:**	MME001AH		**Report DB ID:** 9MME0010					
AMERICIUM 241	***-4.17E-02***	U	6.7E-02	6.7E-02	1.13E-01	pCi/g		*-0.37*	9/17/11 02:28 a		332.7	GER7$1
								-(1.2)			g	
CO-60	***7.42E-03***	U	2.1E-02	2.1E-02	4.00E-02	pCi/g		*0.19*	9/17/11 02:28 a		332.7	GER7$1
							5.00E-02	*0.69*			g	
CS-137	***9.89E-05***	U	2.1E-02	2.1E-02	3.72E-02	pCi/g		*0.*	9/17/11 02:28 a		332.7	GER7$1
							1.00E-01	*0.01*			g	
EU-152	***-1.03E-02***	U	5.3E-02	5.3E-02	8.34E-02	pCi/g		*-0.12*	9/17/11 02:28 a		332.7	GER7$1
							1.00E-01	*-0.39*			g	
EU-154	***2.21E-03***	U	6.4E-02	6.4E-02	1.16E-01	pCi/g		*0.02*	9/17/11 02:28 a		332.7	GER7$1
							1.00E-01	*0.07*			g	
EU-155	***-1.33E-02***	U	5.1E-02	5.1E-02	8.64E-02	pCi/g		*-0.15*	9/17/11 02:28 a		332.7	GER7$1
							1.00E-01	*-0.52*			g	
Batch: 1257089	906.0_H3_LSC			**Work Order:**	MME001AG		**Report DB ID:** 9MME0010					
H-3	***1.10E-01***		1.9E-02	2.0E-02	3.62E-02	pCi/g	100%	*(3.)*	9/24/11 09:21 a		111.2	LSC6
						1.72E-02	4.00E+02	*(11.)*			g	
Batch: 1257090	NI63_LSC			**Work Order:**	MME001AE		**Report DB ID:** 9MME0010					
NI-63	***1.20E+00***	U	5.1E+00	6.0E+00	1.28E+01	pCi/g	100%	*0.09*	9/27/11 03:11 a		0.25	LSC3
						5.98E+00	3.00E+01	*0.4*			g	

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.
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FORM I

SAMPLE RESULTS

Date: 30-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 8:15:00 AM
Lot-Sample No.:	J1I130506-7	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV53	**COC No. :**	RC-075-256	**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: 1257094	C14_CHEM_LSC			**Work Order:**	MME001AJ		**Report DB ID:** 9MME0010					
C-14	***9.24E-02***	U	1.9E-01	2.1E-01	4.58E-01	pCi/g	100%	*0.2*	9/23/11 04:33 p		5.014	LSC4
						2.16E-01	5.00E+01	*0.89*			g	
Batch: 1257096	UISO_IE_PLATE_AEA			**Work Order:**	MME002AC		**Report DB ID:** 9MME0020					
U-234	***6.30E-02***	U	2.1E-01	2.1E-01	5.94E-01	pCi/g	23%	*0.11*	9/29/11 08:18 p		1.01	ALP3
						1.55E-01	1.00E+00	*0.59*			g	
U-235	***-3.69E-02***	U	2.1E-01	2.1E-01	5.74E-01	pCi/g	23%	*-0.06*	9/29/11 08:18 p		1.01	ALP3
						1.45E-01	1.00E+00	*-0.35*			g	
U-238	***2.84E-01***	U	3.6E-01	3.8E-01	5.53E-01	pCi/g	23%	*0.51*	9/29/11 08:18 p		1.01	ALP3
						1.34E-01	1.00E+00	*(1.5)*			g	
							Ratio U-234/238 = 0.2					
Batch: 1257097	PUISO_PLATE_AEA			**Work Order:**	MME002AF		**Report DB ID:** 9MME0020					
PU-238	***-1.53E-03***	U	6.1E-02	6.1E-02	1.14E-01	pCi/g	100%	*-0.01*	9/28/11 10:41 p		1.02	ALP39
						1.59E-02	1.00E+00	*-0.05*			g	
PU239/40	***-3.05E-03***	U	6.1E-02	6.1E-02	1.27E-01	pCi/g	100%	*-0.02*	9/28/11 10:41 p		1.02	ALP39
						2.24E-02	1.00E+00	*-0.1*			g	
Batch: 1258059	7196_CR6			**Work Order:**	MME001AA		**Report DB ID:** 9MME0010					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	9/15/11 11:10 a		2.5032	
							1.55E-01	*N/A*			g	

No. of Results: 16 **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: 30-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 8:20:00 AM
Lot-Sample No.:	J1I130506-8	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV54	**COC No. :**	RC-075-256	**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: 1257087	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MME011AD		**Report DB ID:**	9MME0110				
STRONTIUM	***7.36E-02***	U	8.0E-02	8.2E-02	1.70E-01	pCi/g	56%	*0.43*	9/28/11 09:52 p		6.03	GPC27A
						7.89E-02		*(1.8)*			g	
Batch: 1257088	GAMMA_GS			**Work Order:**	MME011AH		**Report DB ID:**	9MME0110				
AMERICIUM 241	***-4.05E-02***	U	7.5E-02	7.5E-02	1.26E-01	pCi/g		*-0.32*	9/17/11 02:28 a		342.4	GER10$1
								-(1.1)			g	
CO-60	***8.48E-04***	U	1.8E-02	1.8E-02	3.24E-02	pCi/g		*0.03*	9/17/11 02:28 a		342.4	GER10$1
							5.00E-02	*0.09*			g	
CS-137	***3.27E-04***	U	1.7E-02	1.7E-02	2.87E-02	pCi/g		*0.01*	9/17/11 02:28 a		342.4	GER10$1
							1.00E-01	*0.04*			g	
EU-152	***-7.20E-02***	U	1.4E-01	1.4E-01	8.20E-02	pCi/g		*-0.88*	9/17/11 02:28 a		342.4	GER10$1
							1.00E-01	*-(1.)*			g	
EU-154	***-5.29E-02***	U	5.3E-02	5.3E-02	8.52E-02	pCi/g		*-0.62*	9/17/11 02:28 a		342.4	GER10$1
							1.00E-01	*-(2.)*			g	
EU-155	***-1.16E-02***	U	5.5E-02	5.5E-02	9.27E-02	pCi/g		*-0.13*	9/17/11 02:28 a		342.4	GER10$1
							1.00E-01	*-0.42*			g	
Batch: 1257089	906.0_H3_LSC			**Work Order:**	MME011AG		**Report DB ID:**	9MME0110				
H-3	***7.15E-04***	U	1.7E-02	1.8E-02	4.08E-02	pCi/g	100%	*0.02*	9/24/11 10:44 a		96.3	LSC6
						1.94E-02	4.00E+02	*0.08*			g	
Batch: 1257090	NI63_LSC			**Work Order:**	MME011AE		**Report DB ID:**	9MME0110				
NI-63	***1.38E+00***	U	5.1E+00	6.0E+00	1.24E+01	pCi/g	100%	*0.11*	9/27/11 03:34 a		0.25	LSC3
						5.84E+00	3.00E+01	*0.46*			g	

TestAmerica
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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: 30-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 8:20:00 AM
Lot-Sample No.:	J1I130506-8	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV54	**COC No. :**	RC-075-256	**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: 1257094	C14_CHEM_LSC			**Work Order:**	MME011AJ		**Report DB ID:** 9MME0110					
C-14	***2.97E-02***	U	1.9E-01	2.0E-01	4.57E-01	pCi/g	100%	*0.07*	9/23/11 04:55 p		5.028	LSC4
						2.15E-01	5.00E+01	*0.29*			g	
Batch: 1257096	UISO_IE_PLATE_AEA			**Work Order:**	MME011AC		**Report DB ID:** 9MME0110					
U-234	***2.14E-01***		1.6E-01	1.7E-01	1.24E-01	pCi/g	91%	*(1.7)*	9/28/11 11:42 a		1.0	ALP84
						2.03E-02	1.00E+00	*(2.5)*			g	
U-235	***2.97E-02***	U	6.2E-02	6.2E-02	1.12E-01	pCi/g	91%	*0.26*	9/28/11 11:42 a		1.0	ALP84
						1.44E-02	1.00E+00	*0.95*			g	
U-238	***3.64E-01***		2.1E-01	2.3E-01	1.51E-01	pCi/g	91%	*(2.4)*	9/28/11 11:42 a		1.0	ALP84
						3.37E-02	1.00E+00	*(3.2)*			g	
							Ratio U-234/238 = 0.6					
Batch: 1257097	PUISO_PLATE_AEA			**Work Order:**	MME011AF		**Report DB ID:** 9MME0110					
PU-238	***-4.21E-03***	U	5.6E-02	5.6E-02	1.26E-01	pCi/g	100%	*-0.03*	9/27/11 08:07 p		1.02	ALP38
						2.52E-02	1.00E+00	*-0.15*			g	
PU239/40	***2.65E-02***	U	5.6E-02	5.6E-02	1.05E-01	pCi/g	100%	*0.25*	9/27/11 08:07 p		1.02	ALP38
						1.46E-02	1.00E+00	*0.94*			g	
Batch: 1258059	7196_CR6			**Work Order:**	MME011AA		**Report DB ID:** 9MME0110					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	9/15/11 11:10 a		2.5044	
							1.55E-01	*N/A*			g	

No. of Results: 16 **Comments:**

TestAmerica
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V5.2.15 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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FORM I

SAMPLE RESULTS

Date: 30-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 8:30:00 AM
Lot-Sample No.:	J1I130506-9	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV55	**COC No. :**	RC-075-256	**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: 1257087	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MME031AD		**Report DB ID:**	9MME0310				
STRONTIUM	***5.02E-02***	U	1.5E-01	1.5E-01	3.36E-01	pCi/g	28%	*0.15*	9/28/11 09:52 p		6.01	GPC27B
						1.56E-01		*0.68*			g	
Batch: 1257088	GAMMA_GS			**Work Order:**	MME031AH		**Report DB ID:**	9MME0310				
AMERICIUM 241	***1.83E-02***	U	7.5E-02	7.5E-02	1.29E-01	pCi/g		*0.14*	9/17/11 07:02 p		360.7	GER10$1
								0.49			g	
CO-60	***6.88E-03***	U	1.7E-02	1.7E-02	3.05E-02	pCi/g		*0.23*	9/17/11 07:02 p		360.7	GER10$1
							5.00E-02	*0.82*			g	
CS-137	***1.39E-02***	U	1.7E-02	1.7E-02	2.98E-02	pCi/g		*0.47*	9/17/11 07:02 p		360.7	GER10$1
							1.00E-01	*(1.7)*			g	
EU-152	***-8.21E-02***	U	9.6E-02	9.6E-02	7.68E-02	pCi/g		*-(1.1)*	9/17/11 07:02 p		360.7	GER10$1
							1.00E-01	*-(1.7)*			g	
EU-154	***-2.13E-02***	U	5.2E-02	5.2E-02	8.92E-02	pCi/g		*-0.24*	9/17/11 07:02 p		360.7	GER10$1
							1.00E-01	*-0.81*			g	
EU-155	***2.94E-02***	U	5.5E-02	5.5E-02	9.46E-02	pCi/g		*0.31*	9/17/11 07:02 p		360.7	GER10$1
							1.00E-01	*(1.1)*			g	
Batch: 1257089	906.0_H3_LSC			**Work Order:**	MME031AG		**Report DB ID:**	9MME0310				
H-3	***7.29E-03***	U	1.3E-02	1.4E-02	3.20E-02	pCi/g	100%	*0.23*	9/24/11 12:07 p		124.0	LSC6
						1.52E-02	4.00E+02	*(1.)*			g	
Batch: 1257090	NI63_LSC			**Work Order:**	MME031AE		**Report DB ID:**	9MME0310				
NI-63	***-1.92E+00***	U	5.1E+00	6.0E+00	1.31E+01	pCi/g	98%	*-0.15*	9/27/11 03:57 a		0.25	LSC3
						6.15E+00	3.00E+01	*-0.64*			g	

TestAmerica
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FORM I

SAMPLE RESULTS

Date: 30-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 8:30:00 AM
Lot-Sample No.:	J1I130506-9	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV55	**COC No. :**	RC-075-256	**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: 1257094	C14_CHEM_LSC			**Work Order:**	MME031AJ		**Report DB ID:**	9MME0310				
C-14	***8.14E-02***	U	1.9E-01	2.1E-01	4.57E-01	pCi/g	100%	*0.18*	9/23/11 05:18 p		5.023	LSC4
						2.15E-01	5.00E+01	*0.78*			g	
Batch: 1257096	UISO_IE_PLATE_AEA			**Work Order:**	MME031AC		**Report DB ID:**	9MME0310				
U-234	***3.09E-01***	U	3.0E-01	3.1E-01	3.80E-01	pCi/g	36%	*0.81*	9/28/11 01:21 p		1.02	ALP3
						9.90E-02	1.00E+00	*(2.)*			g	
U-235	***4.37E-02***	U	1.4E-01	1.4E-01	3.67E-01	pCi/g	36%	*0.12*	9/28/11 01:21 p		1.02	ALP3
						9.26E-02	1.00E+00	*0.64*			g	
U-238	***4.50E-01***		3.6E-01	3.8E-01	3.53E-01	pCi/g	36%	*(1.3)*	9/28/11 01:21 p		1.02	ALP3
						8.57E-02	1.00E+00	*(2.4)*			g	
							Ratio U-234/238 = 0.7					
Batch: 1257097	PUISO_PLATE_AEA			**Work Order:**	MME031AF		**Report DB ID:**	9MME0310				
PU-238	***-1.64E-03***	U	6.6E-02	6.6E-02	1.23E-01	pCi/g	92%	*-0.01*	9/27/11 09:45 p		1.03	ALP39
						1.71E-02	1.00E+00	*-0.05*			g	
PU239/40	***-3.29E-03***	U	6.6E-02	6.6E-02	1.37E-01	pCi/g	92%	*-0.02*	9/27/11 09:45 p		1.03	ALP39
						2.42E-02	1.00E+00	*-0.1*			g	
Batch: 1258059	7196_CR6			**Work Order:**	MME031AA		**Report DB ID:**	9MME0310				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	9/15/11 11:10 a		2.5043	
							1.55E-01	*N/A*			g	

No. of Results: 16 **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.
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FORM I

SAMPLE RESULTS

Date: 30-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 8:35:00 AM
Lot-Sample No.:	J1I130506-10	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV56	**COC No. :**	RC-075-256	**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: 1257087	SRTOT_SEP_PRECIP_GPC			**Work Order:** MME041AD			**Report DB ID:** 9MME0410					
STRONTIUM	***1.02E-01***	U	8.5E-02	8.9E-02	1.75E-01	pCi/g	63%	*0.59*	9/28/11 09:52 p		6.01	GPC27C
						8.17E-02		*(2.3)*			g	
Batch: 1257088	GAMMA_GS			**Work Order:** MME041AH			**Report DB ID:** 9MME0410					
AMERICIUM 241	***-3.28E-02***	U	1.7E-01	1.7E-01	2.90E-01	pCi/g		*-0.11*	9/19/11 01:21 a		363.2	GER13$1
								-0.39			g	
CO-60	***-1.45E-03***	U	1.9E-02	1.9E-02	3.33E-02	pCi/g		*-0.04*	9/19/11 01:21 a		363.2	GER13$1
							5.00E-02	*-0.15*			g	
CS-137	***3.37E-01***		6.0E-02	6.0E-02	3.15E-02	pCi/g		*(10.7)*	9/19/11 01:21 a		363.2	GER13$1
							1.00E-01	*(11.3)*			g	
EU-152	***9.82E-03***	U	4.8E-02	4.8E-02	8.30E-02	pCi/g		*0.12*	9/19/11 01:21 a		363.2	GER13$1
							1.00E-01	*0.41*			g	
EU-154	***-1.74E-02***	U	5.9E-02	5.9E-02	9.95E-02	pCi/g		*-0.17*	9/19/11 01:21 a		363.2	GER13$1
							1.00E-01	*-0.59*			g	
EU-155	***3.79E-02***	U	5.9E-02	5.9E-02	9.84E-02	pCi/g		*0.39*	9/19/11 01:21 a		363.2	GER13$1
							1.00E-01	*(1.3)*			g	
Batch: 1257089	906.0_H3_LSC			**Work Order:** MME041AG			**Report DB ID:** 9MME0410					
H-3	***1.47E-01***		2.1E-02	2.3E-02	3.88E-02	pCi/g	100%	*(3.8)*	9/24/11 01:30 p		101.3	LSC6
						1.85E-02	4.00E+02	*(13.1)*			g	
Batch: 1257090	NI63_LSC			**Work Order:** MME041AE			**Report DB ID:** 9MME0410					
NI-63	***-2.58E+00***	U	5.0E+00	5.8E+00	1.32E+01	pCi/g	100%	*-0.2*	9/27/11 04:20 a		0.25	LSC3
						6.18E+00	3.00E+01	*-0.89*			g	

TestAmerica
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V5.2.15 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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FORM I

SAMPLE RESULTS

Date: 30-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 8:35:00 AM
Lot-Sample No.:	J1I130506-10	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV56	**COC No. :**	RC-075-256	**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: 1257094	C14_CHEM_LSC			**Work Order:**	MME041AJ		**Report DB ID:** 9MME0410					
C-14	***8.31E-02***	U	1.9E-01	2.1E-01	4.56E-01	pCi/g	100%	*0.18*	9/23/11 05:40 p		5.031	LSC4
						2.15E-01	5.00E+01	*0.8*			g	
Batch: 1257096	UISO_IE_PLATE_AEA			**Work Order:**	MME041AC		**Report DB ID:** 9MME0410					
U-234	***1.66E-01***		1.4E-01	1.4E-01	1.59E-01	pCi/g	92%	*(1.)*	9/28/11 01:22 p		1.01	ALP4
						4.46E-02	1.00E+00	*(2.4)*			g	
U-235	***-1.29E-03***	U	5.2E-02	5.2E-02	9.68E-02	pCi/g	92%	*-0.01*	9/28/11 01:22 p		1.01	ALP4
						1.34E-02	1.00E+00	*-0.05*			g	
U-238	***2.75E-01***		1.7E-01	1.8E-01	1.41E-01	pCi/g	92%	*(1.9)*	9/28/11 01:22 p		1.01	ALP4
						3.56E-02	1.00E+00	*(3.)*			g	
							Ratio U-234/238 = 0.6					
Batch: 1257097	PUISO_PLATE_AEA			**Work Order:**	MME041AF		**Report DB ID:** 9MME0410					
PU-238	***0.00E+00***	U	0.0E+00	6.4E-02	1.20E-01	pCi/g	100%	*0.*	9/27/11 09:45 p		1.0	ALP40
						1.66E-02	1.00E+00	*0.*			g	
PU239/40	***0.00E+00***	U	0.0E+00	6.4E-02	1.20E-01	pCi/g	100%	*0.*	9/27/11 09:45 p		1.0	ALP40
						1.66E-02	1.00E+00	*0.*			g	
Batch: 1258059	7196_CR6			**Work Order:**	MME041AA		**Report DB ID:** 9MME0410					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	9/15/11 11:10 a		2.5024	
							1.55E-01	*N/A*			g	

No. of Results: 16 **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: 30-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 8:40:00 AM
Lot-Sample No.:	J1I130506-11	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV57	**COC No. :**	RC-075-256	**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: 1257087	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MME091AD		**Report DB ID:**	9MME0910				
STRONTIUM	***2.57E-02***	U	7.3E-02	7.3E-02	1.67E-01	pCi/g	62%	*0.15*	9/28/11 09:52 p		6.02	GPC28B
						7.74E-02		*0.7*			g	
Batch: 1257088	GAMMA_GS			**Work Order:**	MME091AH		**Report DB ID:**	9MME0910				
AMERICIUM 241	***1.01E-02***	U	3.5E-02	3.5E-02	5.83E-02	pCi/g		*0.17*	9/19/11 01:21 a		346.0	GER15$1
								0.58			g	
CO-60	***1.34E-02***	U	2.0E-02	2.0E-02	3.81E-02	pCi/g		*0.35*	9/19/11 01:21 a		346.0	GER15$1
							5.00E-02	*(1.3)*			g	
CS-137	***1.98E-02***	U	2.2E-02	2.2E-02	3.91E-02	pCi/g		*0.51*	9/19/11 01:21 a		346.0	GER15$1
							1.00E-01	*(1.8)*			g	
EU-152	***-1.68E-02***	U	5.1E-02	5.1E-02	8.69E-02	pCi/g		*-0.19*	9/19/11 01:21 a		346.0	GER15$1
							1.00E-01	*-0.66*			g	
EU-154	***1.38E-03***	U	6.0E-02	6.0E-02	1.06E-01	pCi/g		*0.01*	9/19/11 01:21 a		346.0	GER15$1
							1.00E-01	*0.05*			g	
EU-155	***2.89E-02***	U	5.0E-02	5.0E-02	8.66E-02	pCi/g		*0.33*	9/19/11 01:21 a		346.0	GER15$1
							1.00E-01	*(1.2)*			g	
Batch: 1257089	906.0_H3_LSC			**Work Order:**	MME091AG		**Report DB ID:**	9MME0910				
H-3	***4.76E-02***		1.6E-02	1.7E-02	3.55E-02	pCi/g	100%	*(1.3)*	9/24/11 04:15 p		112.8	LSC6
						1.69E-02	4.00E+02	*(5.5)*			g	
Batch: 1257090	NI63_LSC			**Work Order:**	MME091AE		**Report DB ID:**	9MME0910				
NI-63	***-3.26E-01***	U	5.0E+00	5.9E+00	1.27E+01	pCi/g	100%	*-0.03*	9/27/11 05:06 a		0.25	LSC3
						5.95E+00	3.00E+01	*-0.11*			g	

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: 30-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 8:40:00 AM
Lot-Sample No.:	J1I130506-11	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV57	**COC No. :**	RC-075-256	**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: 1257094	C14_CHEM_LSC			**Work Order:**	MME091AJ		**Report DB ID:** 9MME0910					
C-14	***4.55E-01***	U	2.1E-01	2.3E-01	4.58E-01	pCi/g	100%	*0.99*	9/24/11 08:47 a		5.009	LSC4
						2.16E-01	5.00E+01	*(4.)*			g	
Batch: 1257096	UISO_IE_PLATE_AEA			**Work Order:**	MME091AC		**Report DB ID:** 9MME0910					
U-234	***2.43E-01***		1.7E-01	1.8E-01	1.14E-01	pCi/g	77%	*(2.1)*	9/28/11 01:22 p		1.0	ALP8
						1.58E-02	1.00E+00	*(2.7)*			g	
U-235	***0.00E+00***	U	0.0E+00	6.1E-02	1.14E-01	pCi/g	77%	*0.*	9/28/11 01:22 p		1.0	ALP8
						1.58E-02	1.00E+00	*0.*			g	
U-238	***6.07E-02***	U	8.6E-02	8.7E-02	1.14E-01	pCi/g	77%	*0.53*	9/28/11 01:22 p		1.0	ALP8
						1.58E-02	1.00E+00	*(1.4)*			g	
							Ratio U-234/238 = 4.0					
Batch: 1257097	PUISO_PLATE_AEA			**Work Order:**	MME091AF		**Report DB ID:** 9MME0910					
PU-238	***-4.00E-03***	U	5.3E-02	5.3E-02	1.20E-01	pCi/g	100%	*-0.03*	9/27/11 09:46 p		1.03	ALP41
						2.40E-02	1.00E+00	*-0.15*			g	
PU239/40	***2.52E-02***	U	5.3E-02	5.3E-02	9.94E-02	pCi/g	100%	*0.25*	9/27/11 09:46 p		1.03	ALP41
						1.38E-02	1.00E+00	*0.94*			g	
Batch: 1258059	7196_CR6			**Work Order:**	MME091AA		**Report DB ID:** 9MME0910					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	9/15/11 11:10 a		2.5068	
							1.55E-01	*N/A*			g	

No. of Results: 16 **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: 30-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 10:20:00 AM
Lot-Sample No.:	J1I130506-12	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV58	**COC No. :**	RC-075-256	**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: 1257087	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MME1D1AD		**Report DB ID:**	9MME1D10				
STRONTIUM	***4.73E-02***	U	7.3E-02	7.4E-02	1.60E-01	pCi/g	63%	*0.3*	9/28/11 09:52 p		6.01	GPC28C
						7.43E-02		*(1.3)*			g	
Batch: 1257088	GAMMA_GS			**Work Order:**	MME1D1AH		**Report DB ID:**	9MME1D10				
AMERICIUM 241	***2.58E-02***	U	8.8E-02	8.8E-02	1.50E-01	pCi/g		*0.17*	9/19/11 01:22 a		379.6	GER11$1
								0.59			g	
CO-60	***4.28E-03***	U	1.4E-02	1.4E-02	2.52E-02	pCi/g		*0.17*	9/19/11 01:22 a		379.6	GER11$1
							5.00E-02	*0.62*			g	
CS-137	***1.65E-02***	U	1.3E-02	1.3E-02	2.48E-02	pCi/g		*0.67*	9/19/11 01:22 a		379.6	GER11$1
							1.00E-01	*(2.5)*			g	
EU-152	***-8.59E-03***	U	3.3E-02	3.3E-02	5.43E-02	pCi/g		*-0.16*	9/19/11 01:22 a		379.6	GER11$1
							1.00E-01	*-0.53*			g	
EU-154	***-1.37E-02***	U	4.4E-02	4.4E-02	7.66E-02	pCi/g		*-0.18*	9/19/11 01:22 a		379.6	GER11$1
							1.00E-01	*-0.62*			g	
EU-155	***-2.47E-03***	U	3.7E-02	3.7E-02	6.23E-02	pCi/g		*-0.04*	9/19/11 01:22 a		379.6	GER11$1
							1.00E-01	*-0.14*			g	
Batch: 1257089	906.0_H3_LSC			**Work Order:**	MME1D1AG		**Report DB ID:**	9MME1D10				
H-3	***2.29E-02***	U	1.7E-02	1.8E-02	4.16E-02	pCi/g	100%	*0.55*	9/24/11 05:38 p		104.8	LSC6
						1.98E-02	4.00E+02	*(2.5)*			g	
Batch: 1257090	NI63_LSC			**Work Order:**	MME1D1AE		**Report DB ID:**	9MME1D10				
NI-63	***-1.51E+00***	U	5.2E+00	6.1E+00	1.31E+01	pCi/g	95%	*-0.12*	9/27/11 05:29 a		0.25	LSC3
						6.14E+00	3.00E+01	*-0.5*			g	

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: 30-Sep-11

Lab Name:	TestAmerica	SDG:	J01276	Collection Date:	9/12/2011 10:20:00 AM
Lot-Sample No.:	J1I130506-12	Report No. :	48632	Received Date:	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV58	COC No. :	RC-075-256	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: 1257094	C14_CHEM_LSC			Work Order:	MME1D1AJ		Report DB ID: 9MME1D10					
C-14	***1.60E-01***	U	1.9E-01	2.1E-01	4.57E-01	pCi/g	100%	*0.35*	9/24/11 09:09 a		5.022	LSC4
						2.15E-01	5.00E+01	*(1.5)*			g	
Batch: 1257096	UISO_IE_PLATE_AEA			Work Order:	MME1D1AC		Report DB ID: 9MME1D10					
U-234	***1.33E-01***		1.2E-01	1.2E-01	1.00E-01	pCi/g	86%	*(1.3)*	9/28/11 01:22 p		0.99	ALP9
						1.39E-02	1.00E+00	*(2.2)*			g	
U-235	***0.00E+00***	U	0.0E+00	5.3E-02	1.00E-01	pCi/g	86%	*0.*	9/28/11 01:22 p		0.99	ALP9
						1.39E-02	1.00E+00	*0.*			g	
U-238	***2.67E-01***		1.7E-01	1.8E-01	1.00E-01	pCi/g	86%	*(2.7)*	9/28/11 01:22 p		0.99	ALP9
						1.39E-02	1.00E+00	*(3.)*			g	
							Ratio U-234/238 = 0.5					
Batch: 1257097	PUISO_PLATE_AEA			Work Order:	MME1D1AF		Report DB ID: 9MME1D10					
PU-238	***0.00E+00***	U	0.0E+00	7.4E-02	1.38E-01	pCi/g	88%	*0.*	9/27/11 09:46 p		1.02	ALP42
						1.92E-02	1.00E+00	*0.*			g	
PU239/40	***-1.85E-03***	U	7.4E-02	7.4E-02	1.38E-01	pCi/g	88%	*-0.01*	9/27/11 09:46 p		1.02	ALP42
						1.92E-02	1.00E+00	*-0.05*			g	
Batch: 1258059	7196_CR6			Work Order:	MME1D1AA		Report DB ID: 9MME1D10					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	9/15/11 11:10 a		2.5083	
							1.55E-01	*N/A*			g	

No. of Results: 16 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: 30-Sep-11

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 7:50:00 AM
Lot-Sample No.:	J1I130506-13	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV59	**COC No. :**	RC-075-256	**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: 1257087	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MME1G1AD		**Report DB ID:**	9MME1G10				
STRONTIUM	***4.15E-02***	U	8.0E-02	8.1E-02	1.80E-01	pCi/g	56%	*0.23*	9/28/11 09:52 p		6.01	GPC28D
						8.33E-02		*(1.)*			g	
Batch: 1257088	GAMMA_GS			**Work Order:**	MME1G1AH		**Report DB ID:**	9MME1G10				
AMERICIUM 241	***-3.13E-02***	U	3.7E-02	3.7E-02	6.08E-02	pCi/g		*-0.52*	9/19/11 01:22 a		360.4	GER14$1
								-(1.7)			g	
CO-60	***4.56E-03***	U	2.0E-02	2.0E-02	3.71E-02	pCi/g		*0.12*	9/19/11 01:22 a		360.4	GER14$1
							5.00E-02	*0.45*			g	
CS-137	***9.27E-03***	U	2.1E-02	2.1E-02	3.74E-02	pCi/g		*0.25*	9/19/11 01:22 a		360.4	GER14$1
							1.00E-01	*0.88*			g	
EU-152	***-1.65E-02***	U	6.0E-02	6.0E-02	9.11E-02	pCi/g		*-0.18*	9/19/11 01:22 a		360.4	GER14$1
							1.00E-01	*-0.55*			g	
EU-154	***1.14E-02***	U	6.7E-02	6.7E-02	1.20E-01	pCi/g		*0.09*	9/19/11 01:22 a		360.4	GER14$1
							1.00E-01	*0.34*			g	
EU-155	***1.91E-02***	U	5.3E-02	5.3E-02	9.00E-02	pCi/g		*0.21*	9/19/11 01:22 a		360.4	GER14$1
							1.00E-01	*0.72*			g	
Batch: 1257089	906.0_H3_LSC			**Work Order:**	MME1G1AG		**Report DB ID:**	9MME1G10				
H-3	***-1.91E-03***	U	1.3E-02	1.4E-02	3.14E-02	pCi/g	100%	*-0.06*	9/24/11 07:01 p		132.1	LSC6
						1.49E-02	4.00E+02	*-0.28*			g	
Batch: 1257090	NI63_LSC			**Work Order:**	MME1G1AE		**Report DB ID:**	9MME1G10				
NI-63	***6.46E+00***	U	5.4E+00	6.4E+00	1.25E+01	pCi/g	100%	*0.52*	9/27/11 05:52 a		0.25	LSC3
						5.88E+00	3.00E+01	*(2.)*			g	

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: 30-Sep-11

Lab Name:	TestAmerica	SDG:	J01276	Collection Date:	9/12/2011 7:50:00 AM
Lot-Sample No.:	J1I130506-13	Report No. :	48632	Received Date:	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV59	COC No. :	RC-075-256	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: 1257094	C14_CHEM_LSC			Work Order:	MME1G1AJ		Report DB ID: 9MME1G10					
C-14	***2.25E-01***	U	2.0E-01	2.2E-01	4.59E-01	pCi/g	100%	*0.49*	9/24/11 09:32 a		5.006	LSC4
						2.16E-01	5.00E+01	*(2.1)*			g	
Batch: 1257096	UISO_IE_PLATE_AEA			Work Order:	MME1G1AC		Report DB ID: 9MME1G10					
U-234	***1.48E-01***		1.2E-01	1.3E-01	9.36E-02	pCi/g	98%	*(1.6)*	9/28/11 01:22 p		1.0	ALP10
						1.30E-02	1.00E+00	*(2.4)*			g	
U-235	***-2.50E-03***	U	5.0E-02	5.0E-02	1.04E-01	pCi/g	98%	*-0.02*	9/28/11 01:22 p		1.0	ALP10
						1.84E-02	1.00E+00	*-0.1*			g	
U-238	***2.48E-01***		1.6E-01	1.7E-01	9.36E-02	pCi/g	98%	*(2.7)*	9/28/11 01:22 p		1.0	ALP10
						1.30E-02	1.00E+00	*(3.)*			g	
							Ratio U-234/238 = 0.6					
Batch: 1257097	PUISO_PLATE_AEA			Work Order:	MME1G1AF		Report DB ID: 9MME1G10					
PU-238	***-2.96E-03***	U	5.9E-02	5.9E-02	1.24E-01	pCi/g	97%	*-0.02*	9/27/11 09:46 p		0.99	ALP43
						2.18E-02	1.00E+00	*-0.1*			g	
PU239/40	***-4.43E-03***	U	5.9E-02	5.9E-02	1.33E-01	pCi/g	97%	*-0.03*	9/27/11 09:46 p		0.99	ALP43
						2.66E-02	1.00E+00	*-0.15*			g	
Batch: 1258059	7196_CR6			Work Order:	MME1G1AA		Report DB ID: 9MME1G10					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	9/15/11 11:10 a		2.5048	
							1.55E-01	*N/A*			g	

No. of Results: 16 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 II

Date: 30-Sep-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 9:15:00 AM
Lot-Sample No.:	J1I130506-1	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV47	**COC No. :**	RC-075-256	**Matrix:**	SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1258059	7196_CR6			**Work Order:** MME0K1AM		**Report DB ID:** MME0K1ER			**Orig Sa DB ID:** 9MME0K10			
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1.	9/15/11 11:10 a		2.5032	
	1.55E-01	U	**RPD** 0.0			3.50E-01		N/A			g	

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

TestAmerica
rptSTLRchDupV5.2
.15 A2002

RPD - Relative Percent Difference.
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

Date: 30-Sep-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 9:15:00 AM
Lot-Sample No.:	J1I130506-1	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV47 DUP	**COC No. :**	RC-075-256	**Matrix:**	SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1257097	PUISO_PLATE_AEA			**Work Order:** MME0K1AK		**Report DB ID:** MME0K1KR			**Orig Sa DB ID:** 9MME0K10			
PU-238	0.00E+00	U	0.0E+00	6.5E-02	1.23E-01	pCi/g	100%	0.	9/27/11 08:07 p		1.02	ALP46
	0.00E+00	U	**RPD**			1.00E+00		0.			g	
PU239/40	0.00E+00	U	0.0E+00	6.5E-02	1.23E-01	pCi/g	100%	0.	9/27/11 08:07 p		1.02	ALP46
	3.37E-02	U	**RPD**	**200.0**		1.00E+00		0.			g	

No. of Results: 2 **Comments:**

TestAmerica rptSTLRchDupV5.2.15 A2002

RPD - Relative Percent Difference.

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

Date: 30-Sep-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 7:50:00 AM
Lot-Sample No.:	J1I130506-2	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV48 DUP	**COC No. :**	RC-075-256	**Matrix:**	SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1257096	UISO_IE_PLATE_AEA			**Work Order:** MME0R1AK		**Report DB ID:** MME0R1KR			**Orig Sa DB ID:** 9MME0R10			
U-234	1.86E-01		1.5E-01	1.6E-01	1.16E-01	pCi/g	76%	(1.6)	9/28/11 11:40 a		0.99	ALP8
	2.17E-01	U	**RPD**	**15.3**		1.00E+00		(2.4)			g	
U-235	0.00E+00	U	0.0E+00	6.2E-02	1.16E-01	pCi/g	76%	0.	9/28/11 11:40 a		0.99	ALP8
	3.55E-02	U	**RPD**	**200.0**		1.00E+00		0.			g	
U-238	2.17E-01		1.6E-01	1.7E-01	1.16E-01	pCi/g	76%	(1.9)	9/28/11 11:40 a		0.99	ALP8
	2.62E-01		**RPD**	**18.9**		1.00E+00		(2.5)			g	

Ratio U-234/238 = 0.9 *Alpha Spec Result Sum = 4.0E-01*

No. of Results: 3 **Comments:**

TestAmerica Laboratories, Inc.

50

TestAmerica
rptSTLRchDupV5.2
.15 A2002

RPD - Relative Percent Difference.
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

Date: 30-Sep-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 7:55:00 AM
Lot-Sample No.:	J1I130506-3	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV49 DUP	**COC No. :**	RC-075-256	**Matrix:**	SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1257094	C14_CHEM_LSC			Work Order: MME0T1AK		Report DB ID: MME0T1KR			Orig Sa DB ID: 9MME0T10			
C-14	5.85E-02	U	1.9E-01	2.1E-01	4.59E-01	pCi/g	100%	0.13	9/23/11 03:03 p		5.004	LSC4
	8.83E-02	U	RPD 40.7			5.00E+01		0.56			g	

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

TestAmerica
rptSTLRchDupV5.2
.15 A2002

RPD - Relative Percent Difference.
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

Date: 30-Sep-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 8:05:00 AM
Lot-Sample No.:	J1I130506-4	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV50 DUP	**COC No. :**	RC-075-256	**Matrix:**	SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1257090	NI63_LSC			Work Order:	MME0V1AK	Report DB ID:	MME0V1KR		Orig Sa DB ID: 9MME0V10			
NI-63	1.19E+00	U	5.2E+00	6.1E+00	1.29E+01	pCi/g	98%	0.09	9/27/11 02:02 a		0.25	LSC3
	2.05E+00	U	RPD	53.2		3.00E+01		0.39			g	

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

TestAmerica
rptSTLRchDupV5.2
.15 A2002

RPD - Relative Percent Difference.
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

Date: 30-Sep-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 8:07:00 AM
Lot-Sample No.:	J1I130506-5	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV51 DUP	**COC No. :**	RC-075-256	**Matrix:**	SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1257089	906.0_H3_LSC			**Work Order:** MME0W1AK		**Report DB ID:** MME0W1KR			**Orig Sa DB ID:** 9MME0W10			
H-3	1.29E-01		2.2E-02	2.3E-02	4.20E-02	pCi/g	100%	(3.1)	9/24/11 06:36 a		92.5	LSC6
	6.04E-02		**RPD**	**72.5**		4.00E+02		(11.)			g	

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

TestAmerica RPD - Relative Percent Difference.

rptSTLRchDupV5.2 .15 A2002 MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.

FORM II

Date: 30-Sep-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 8:10:00 AM
Lot-Sample No.:	J1I130506-6	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV52 DUP	**COC No. :**	RC-075-256	**Matrix:**	SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1257088	GAMMA_GS			**Work Order:**	MME0X1AK	**Report DB ID:**	MME0X1KR		**Orig Sa DB ID:** 9MME0X10			
AMERICIUM 241	-1.65E-02	U	3.7E-02	3.7E-02	6.21E-02	pCi/g		-0.27	9/17/11 02:28 a		353.3	GER14$1
	6.77E-02	U	**RPD**	**329.1**				-0.89			g	
CO-60	6.77E-04	U	2.1E-02	2.1E-02	3.67E-02	pCi/g		0.02	9/17/11 02:28 a		353.3	GER14$1
	6.00E-03	U	**RPD**	**159.5**		5.00E-02		0.07			g	
CS-137	-9.31E-03	U	2.2E-02	2.2E-02	3.76E-02	pCi/g		-0.25	9/17/11 02:28 a		353.3	GER14$1
	-4.18E-03	U	**RPD**	**-76.1**		1.00E-01		-0.84			g	
EU-152	-5.23E-02	U	6.6E-02	6.6E-02	9.26E-02	pCi/g		-0.56	9/17/11 02:28 a		353.3	GER14$1
	-2.16E-02	U	**RPD**	**-83.2**		1.00E-01		-(1.6)			g	
EU-154	4.13E-02	U	6.8E-02	6.8E-02	1.25E-01	pCi/g		0.33	9/17/11 02:28 a		353.3	GER14$1
	2.13E-02	U	**RPD**	**64.2**		1.00E-01		(1.2)			g	
EU-155	1.62E-02	U	5.5E-02	5.5E-02	9.20E-02	pCi/g		0.18	9/17/11 02:28 a		353.3	GER14$1
	5.59E-03	U	**RPD**	**97.2**		1.00E-01		0.59			g	

No. of Results: 6 **Comments:**

TestAmerica
rptSTLRchDupV5.2
.15 A2002

RPD - Relative Percent Difference.
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

Date: 30-Sep-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	J01276	**Collection Date:**	9/12/2011 8:15:00 AM
Lot-Sample No.:	J1I130506-7	**Report No. :**	48632	**Received Date:**	9/13/2011 12:40:00 PM
Client Sample ID:	J1KV53 DUP	**COC No. :**	RC-075-256	**Matrix:**	SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1257087	SRTOT_SEP_PRECIP_GPC			**Work Order:** MME001AK		**Report DB ID:** MME001KR			**Orig Sa DB ID:** 9MME0010			
STRONTIUM	5.89E-02	U	6.9E-02	7.0E-02	1.47E-01	pCi/g	65%	0.4	9/28/11 09:52 p		6.0	GPC26D
	-8.45E-03	U	**RPD**	**267.0**				(1.7)			g	

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

TestAmerica
rptSTLRchDupV5.2
.15 A2002

RPD - Relative Percent Difference.
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: 30-Sep-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: J01276

Report No. : 48632

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: 1258059	7196_CR6			**Work Order:**	MMF2P1AA		**Report DB ID:**	MMF2P1AB				
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1.	9/15/11 11:10 a		2.5	
						1.55E-01		N/A			g	
Batch: 1257094	C14_CHEM_LSC			**Work Order:**	MME8T1AA		**Report DB ID:**	MME8T1AB				
C-14	2.25E-03	U	4.8E-03	5.2E-03	1.15E-02	pCi/g	100%	0.2	9/24/11 09:54 a		200.0	LSC4
					5.41E-03	5.00E+01		0.86			g	
Batch: 1257097	PUISO_PLATE_AEA			**Work Order:**	MME8W1AA		**Report DB ID:**	MME8W1AB				
PU-238	0.00E+00	U	0.0E+00	6.6E-02	1.24E-01	pCi/g	100%	0.	9/27/11 09:46 p		1.02	ALP44
					1.72E-02	1.00E+00		0.			g	
PU239/40	0.00E+00	U	0.0E+00	6.6E-02	1.24E-01	pCi/g	100%	0.	9/27/11 09:46 p		1.02	ALP44
					1.72E-02	1.00E+00		0.			g	
Batch: 1257096	UISO_IE_PLATE_AEA			**Work Order:**	MME8V1AA		**Report DB ID:**	MME8V1AB				
U-234	5.02E-02	U	7.1E-02	7.2E-02	9.41E-02	pCi/g	87%	0.53	9/28/11 01:22 p		1.01	ALP11
					1.31E-02	1.00E+00		(1.4)			g	
U-235	0.00E+00	U	0.0E+00	5.0E-02	9.41E-02	pCi/g	87%	0.	9/28/11 01:22 p		1.01	ALP11
					1.31E-02	1.00E+00		0.			g	
U-238	-5.03E-03	U	5.0E-02	5.0E-02	1.20E-01	pCi/g	87%	-0.04	9/28/11 01:22 p		1.01	ALP11
					2.61E-02	1.00E+00		-0.2			g	
							Ratio U-234/238 = -10.0					
Batch: 1257090	NI63_LSC			**Work Order:**	MME8R1AA		**Report DB ID:**	MME8R1AB				
NI-63	-1.25E-01	U	5.5E+00	6.5E+00	1.40E+01	pCi/g	92%	-0.01	9/27/11 06:15 a		0.25	LSC3
					6.57E+00	3.00E+01		-0.04			g	
Batch: 1257089	906.0_H3_LSC			**Work Order:**	MME8Q1AA		**Report DB ID:**	MME8Q1AB				

TestAmerica
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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

BLANK RESULTS

Date: 30-Sep-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: J01276

Report No. : 48632

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
H-3	4.75E-03	U	1.5E-02	1.6E-02	3.63E-02	pCi/g	100%	0.13	9/24/11 08:23 p		97.1	LSC6
					1.73E-02	4.00E+02		0.59			g	
Batch: 1257088	GAMMA_GS			**Work Order:**	MME8P1AA		**Report DB ID:**	MME8P1AB				
AMERICIUM 241	-1.20E-02	U	4.0E-02	4.0E-02	6.81E-02	pCi/g		-0.18	9/19/11 01:22 a		348.0	GER7$1
								-0.6			g	
CO-60	1.07E-03	U	1.3E-02	1.3E-02	2.51E-02	pCi/g		0.04	9/19/11 01:22 a		348.0	GER7$1
						5.00E-02		0.16			g	
CS-137	-7.87E-03	U	1.4E-02	1.4E-02	2.25E-02	pCi/g		-0.35	9/19/11 01:22 a		348.0	GER7$1
						1.00E-01		-(1.2)			g	
EU-152	-1.15E-03	U	3.6E-02	3.6E-02	6.41E-02	pCi/g		-0.02	9/19/11 01:22 a		348.0	GER7$1
						1.00E-01		-0.06			g	
EU-154	-3.47E-02	U	4.3E-02	4.3E-02	7.09E-02	pCi/g		-0.49	9/19/11 01:22 a		348.0	GER7$1
						1.00E-01		-(1.6)			g	
EU-155	-6.94E-03	U	2.8E-02	2.8E-02	4.84E-02	pCi/g		-0.14	9/19/11 01:22 a		348.0	GER7$1
						1.00E-01		-0.5			g	
Batch: 1257087	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MME8N1AA		**Report DB ID:**	MME8N1AB				
STRONTIUM	-1.91E-02	U	4.5E-02	4.6E-02	1.15E-01	pCi/g	91%	-0.17	9/28/11 10:46 p		6.02	GPC26C
					5.31E-02			-0.84			g	

No. of Results: 16 **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: 30-Sep-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: J01276

Report No. : 48632

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: 1258059	7196_CR6			**Work Order:**	MMF2P1AC		**Report DB ID:**	MMF2P1AS					
HEXCHROME	1.98E+01			0.0E+00	1.55E-01	mg/kg	N/A	2.00E+01		99%	9/15/11 11:10 a	2.5	
							Rec Limits:	80	120	0.0		g	
Batch: 1257094	C14_CHEM_LSC			**Work Order:**	MME8T1AC		**Report DB ID:**	MME8T1CS					
C-14	7.27E+00		4.2E-01	5.2E-01	4.61E-01	pCi/g	100%	7.32E+00	1.2E-01	99%	9/24/11 10:17 a	5.0	LSC4
							Rec Limits:	70	130	0.0		g	
Batch: 1257097	PUISO_PLATE_AEA			**Work Order:**	MME8W1AC		**Report DB ID:**	MME8W1CS					
PU239/40	6.80E+00		9.4E-01	1.7E+00	1.22E-01	pCi/g	100%	6.65E+00	2.0E-01	102%	9/27/11 09:46 p	1.02	ALP46
							Rec Limits:	70	130	0.0		g	
Batch: 1257096	UISO_IE_PLATE_AEA			**Work Order:**	MME8V1AC		**Report DB ID:**	MME8V1CS					
U-234	3.86E+00		7.2E-01	1.1E+00	1.42E-01	pCi/g	67%	3.23E+00	1.0E-01	119%	9/28/11 01:22 p	1.01	ALP12
							Rec Limits:	70	130	0.2		g	
U-238	3.69E+00		7.1E-01	1.1E+00	1.27E-01	pCi/g	67%	3.38E+00	1.0E-01	109%	9/28/11 01:22 p	1.01	ALP12
							Rec Limits:	70	130	0.1		g	
Batch: 1257090	NI63_LSC			**Work Order:**	MME8R1AC		**Report DB ID:**	MME8R1CS					
NI-63	4.83E+02		1.8E+01	4.9E+01	1.27E+01	pCi/g	97%	6.18E+02	7.0E+00	78%	9/27/11 06:38 a	0.25	LSC3
							Rec Limits:	70	130	-0.2		g	
Batch: 1257089	906.0_H3_LSC			**Work Order:**	MME8Q1AC		**Report DB ID:**	MME8Q1CS					
H-3	2.57E-01		2.1E-02	2.3E-02	3.20E-02	pCi/g	100%	2.47E-01	7.4E-03	104%	9/24/11 09:46 p	110.2	LSC6
							Rec Limits:	70	130	0.0		g	
Batch: 1257088	GAMMA_GS			**Work Order:**	MME8P1AC		**Report DB ID:**	MME8P1CS					
CS-137	1.07E+00		1.5E-01	1.5E-01	3.04E-02	pCi/g		1.07E+00	1.1E-02	100%	9/19/11 01:22 a	350.1	GER10$1
							Rec Limits:	70	130	0.0		g	

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

rptSTLRchLcs
V5.2.15 A2002

FORM II

LCS RESULTS

Date: 30-Sep-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: J01276

Report No. : 48632

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: 1257087	SRTOT_SEP_PRECIP_GPC			Work Order:	MME8N1AC		Report DB ID:	MME8N1CS					
STRONTIUM	9.28E-01		1.2E-01	2.7E-01	1.14E-01	pCi/g	89%	1.12E+00	1.3E-02	83%	9/28/11 10:46 p	6.01	GPC26D
							Rec Limits:	70	130	-0.2		g	

No. of Results: 9 Comments:

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

rptSTLRchLcs
V5.2.15 A2002

FORM II

MATRIX SPIKE RESULTS

Date: 30-Sep-11

Lab Name: TestAmerica **SDG:** J01276

Lot-Sample No.: J1I130506-1, J1KV47 **Report No. :** 48632 **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: 1258059	Work Order: MME0K1AL			Report DB ID: MME0K1CW			Orig Sa DB ID: 9MME0K10					
HEXCHROME	8.81E+00			0.0E+00	1.55E-01	mg/kg	N/A	87.32%	1.01E+01	9/15/11 11:10 a	2.5026	7196_CR6
	1.55E-01										g	

Number of Results: 1

Comments:

TestAmerica Laboratories, Inc.

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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.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

9/29/2011 10:26:54 AM

Lot No., Due Date: J1I130506; 10/04/2011
Client, Site: 127642; S00X235B00 HANFORD
QC Batch No., Method Test: 1257097; RPUISO Pulso by ALP
SDG, Matrix: J01276; SOIL

	Yes	No	N/A
1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	✓		
2.2 Are the QC appropriate for the analysis included in the batch?	✓		
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	✓		
2.4 Does the Worksheets include a Tracer Vial label for each sample?	✓		
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	✓		
3.2 Is the LCS result, yield, and MDA within contract limits?	✓		
3.3 Are the MS/MSD results, yields, and MDA within contract limits?			✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	✓		
3.5 Are the sample yields and MDAs within contract limits?	✓		
4.0 Raw Data			
4.1 Were results calculated in the correct units?	✓		
4.2 Were analysis volumes entered correctly?	✓		
4.3 Were Yields entered correctly?		✓	
4.4 Were spectra reviewed/meet contractual requirements?	✓		
4.5 Were raw counts reviewed for anomalies?	✓		
5.0 Other			
5.1 Are all nonconformances included and noted?	✓		
5.2 Are all required forms filled out?	✓		
5.3 Was the correct methodology used?	✓		
5.4 Was transcription checked?	✓		
5.5 Were all calculations checked at a minimum frequency?			✓
5.6 Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:
Please see NCM #10-19287

First Level [signature] **Date** 9-29-11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 12 57097

Review Item	Yes (√)	No (√)	NA (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?	✓	✓	
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Non-conformances included and noted?	✓		
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: SRDL = 1.0 pCi/g
See NCM #: 10-19287

Second Level Review: [signature] Date: 9/29/11

LS-038B, Rev. 10, 9/07

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-19287**
NCM Initiated By: John Norton
Date Opened: 09/29/2011
Date Closed:

Classification: **Anomaly**
Status: **PMREVIEW**
Production Area: Counting
Tests: None
Lot #'s (Sample #'s): J11130506 (7),
QC Batches: None.,

Nonconformance: Tracer yield out of limits
Subcategory: Unknown

Problem Description / Root Cause

Name	Date	Description
John Norton	09/29/2011	The tracer yield from this sample was high at 117%.

Corrective Action

Name	Date	Corrective Action
John Norton	09/29/2011	The sample was re-counted for an acceptable yield.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note

Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 9/29/2011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

9/30/2011 9:49:20 AM

Lot No., Due Date: J1I130506; 10/04/2011
Client, Site: 127642; S00X235B00 HANFORD
QC Batch No., Method Test: 1257096; RUISO Uiso by ALP
SDG, Matrix: J01276; SOIL

	Yes	No	N/A
1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	✓		
2.2 Are the QC appropriate for the analysis included in the batch?	✓		
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	✓		
2.4 Does the Worksheets include a Tracer Vial label for each sample?	✓		
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	✓		
3.2 Is the LCS result, yield, and MDA within contract limits?	✓		
3.3 Are the MS/MSD results, yields, and MDA within contract limits?			✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	✓		
3.5 Are the sample yields and MDAs within contract limits?	✓		
4.0 Raw Data			
4.1 Were results calculated in the correct units?	✓		
4.2 Were analysis volumes entered correctly?	✓		
4.3 Were Yields entered correctly?		✓	
4.4 Were spectra reviewed/meet contractual requirements?	✓		
4.5 Were raw counts reviewed for anomalies?	✓		
5.0 Other			
5.1 Are all nonconformances included and noted?	✓		
5.2 Are all required forms filled out?	✓		
5.3 Was the correct methodology used?	✓		
5.4 Was transcription checked?	✓		
5.5 Were all calculations checked at a minimum frequency?			✓
5.6 Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:
Please see NCM #10-19305

First Level [signature] **Date** 9-30-11

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 1257096

Review Item	Yes (√)	No (√)	NA (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?	✓	✓	
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Non-conformances included and noted?	✓		
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: SRDL = 1.0 pci/g
See NCM #: 10-19300

Second Level Review: [signature] Date: 9/30/11

LS-038B, Rev. 10, 9/07

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-19305**
NCM Initiated By: John Norton
Date Opened: 09/30/2011
Date Closed:

Classification: **Anomaly**
Status: **PMREVIEW**
Production Area: Counting
Tests: None
Lot #'s (Sample #'s): J1I130506 (7),
QC Batches: None.,

Nonconformance: Tracer yield out of limits
Subcategory: Unknown

Problem Description / Root Cause

Name	Date	Description
John Norton	09/30/2011	This sample produced a low tracer yield of 18%.

Corrective Action

Name	Date	Corrective Action
John Norton	09/30/2011	The sample was re-counted for an acceptable yield of 23%.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 9/30/2011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

9/30/2011 7:37:40 AM

Lot No., Due Date: J1I130506; 10/04/2011
Client, Site: 127642; S00X235B00 HANFORD
QC Batch No., Method Test: 1257087; RSRTOT SrTot by GPC
SDG, Matrix: J01276; SOIL

1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	Yes ✓	No	N/A
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	Yes ✓	No	N/A
2.2 Are the QC appropriate for the analysis included in the batch?	Yes ✓	No	N/A
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	Yes ✓	No	N/A
2.4 Does the Worksheets include a Tracer Vial label for each sample?	Yes ✓	No	N/A
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	Yes ✓	No	N/A
3.2 Is the LCS result, yield, and MDA within contract limits?	Yes ✓	No	N/A
3.3 Are the MS/MSD results, yields, and MDA within contract limits?	Yes	No	N/A ✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	Yes ✓	No	N/A
3.5 Are the sample yields and MDAs within contract limits?	Yes ✓	No	N/A
4.0 Raw Data			
4.1 Were results calculated in the correct units?	Yes ✓	No	N/A
4.2 Were analysis volumes entered correctly?	Yes ✓	No	N/A
4.3 Were Yields entered correctly?	Yes ✓	No	N/A
4.4 Were spectra reviewed/meet contractual requirements?	Yes	No	N/A ✓
4.5 Were raw counts reviewed for anomalies?	Yes ✓	No	N/A
5.0 Other			
5.1 Are all nonconformances included and noted?	Yes	No	N/A ✓
5.2 Are all required forms filled out?	Yes ✓	No	N/A
5.3 Was the correct methodology used?	Yes ✓	No	N/A
5.4 Was transcription checked?	Yes ✓	No	N/A
5.5 Were all calculations checked at a minimum frequency?	Yes ✓	No	N/A
5.6 Are worksheet entries complete and correct?	Yes ✓	No	N/A

6.0 Comments on any No response:

First Level John Thornton **Date** 9-30-11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1257087

Review Item	Yes (√)	No (√)	NA (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Non-conformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: CRDL= 1.0pCi/g

Second Level Review: Rhonda Wyer Date: 9/30/14

LS-038B, Rev. 10, 9/07

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

9/30/2011 7:26:22 AM

Lot No., Due Date: J1I130506; 10/04/2011
Client, Site: 127642; S00X235B00 HANFORD
QC Batch No., Method Test: 1257088; RGAMMA Gamma by GER
SDG, Matrix: J01276; SOIL

	Yes	No	N/A
1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	✓		
2.2 Are the QC appropriate for the analysis included in the batch?	✓		
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	✓		
2.4 Does the Worksheets include a Tracer Vial label for each sample?			✓
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	✓		
3.2 Is the LCS result, yield, and MDA within contract limits?	✓		
3.3 Are the MS/MSD results, yields, and MDA within contract limits?			✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	✓		
3.5 Are the sample yields and MDAs within contract limits?	✓		
4.0 Raw Data			
4.1 Were results calculated in the correct units?	✓		
4.2 Were analysis volumes entered correctly?	✓		
4.3 Were Yields entered correctly?	✓		
4.4 Were spectra reviewed/meet contractual requirements?	✓		
4.5 Were raw counts reviewed for anomalies?	✓		
5.0 Other			
5.1 Are all nonconformances included and noted?	✓		
5.2 Are all required forms filled out?	✓		
5.3 Was the correct methodology used?	✓		
5.4 Was transcription checked?	✓		
5.5 Were all calculations checked at a minimum frequency?			✓
5.6 Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:
Please see NCM #10-19296

First Level John Norton **Date** 9-30-11

TestAmerica Richland
QAS_RADCALCv4.8.44

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1257088

Review Item	Yes (√)	No (√)	NA (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?			✓
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓	✓	
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Non-conformances included and noted?	✓		
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: CRDL = 0.1 pci/g
See NCM #: 10-19296

Second Level Review: Amanda Wyar Date: 9/30/11

LS-038B, Rev. 10, 9/07

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-19296**
NCM Initiated By: John Norton
Date Opened: 09/30/2011
Date Closed:

Classification: **Anomaly**
Status: **PMREVIEW**
Production Area: Counting
Tests: Gamma by GER
Lot #'s (Sample #'s): J1I130506 (1,10,11,12,13,2,3,4,5,6,7,8,9),
QC Batches: 1257088,

Nonconformance: MDA not met
Subcategory: Data accepted

Problem Description / Root Cause

Name	Date	Description
John Norton	09/30/2011	Some of these samples did not meet the CRDL.

Corrective Action

Name	Date	Corrective Action
John Norton	09/30/2011	Due to the priority nature of the samples the data will be presented to the client, the samples can be re-counted for a longer time frame at client request.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 9/30/2011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

9/26/2011 3:48:51 PM

Lot No., Due Date: J1I130506; 10/04/2011
Client, Site: 127642; S00X235B00 HANFORD
QC Batch No., Method Test: 1257089; RTRITIUM H-3 by LSC
SDG, Matrix: J01276; SOIL

1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	Yes ✓	No	N/A
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	Yes ✓	No	N/A
2.2 Are the QC appropriate for the analysis included in the batch?	Yes ✓	No	N/A
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	Yes ✓	No	N/A
2.4 Does the Worksheets include a Tracer Vial label for each sample?	Yes	No	N/A ✓
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	Yes ✓	No	N/A
3.2 Is the LCS result, yield, and MDA within contract limits?	Yes ✓	No	N/A
3.3 Are the MS/MSD results, yields, and MDA within contract limits?	Yes	No	N/A ✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	Yes ✓	No	N/A
3.5 Are the sample yields and MDAs within contract limits?	Yes ✓	No	N/A
4.0 Raw Data			
4.1 Were results calculated in the correct units?	Yes ✓	No	N/A
4.2 Were analysis volumes entered correctly?	Yes ✓	No	N/A
4.3 Were Yields entered correctly?	Yes ✓	No	N/A
4.4 Were spectra reviewed/meet contractual requirements?	Yes	No	N/A ✓
4.5 Were raw counts reviewed for anomalies?	Yes ✓	No	N/A
5.0 Other			
5.1 Are all nonconformances included and noted?	Yes	No	N/A ✓
5.2 Are all required forms filled out?	Yes ✓	No	N/A
5.3 Was the correct methodology used?	Yes ✓	No	N/A
5.4 Was transcription checked?	Yes ✓	No	N/A
5.5 Were all calculations checked at a minimum frequency?	Yes	No	N/A ✓
5.6 Are worksheet entries complete and correct?	Yes ✓	No	N/A

6.0 Comments on any No response:

First Level John Vostrom **Date** 9-26-11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1257089

Review Item	Yes (√)	No (√)	NA (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?			✓
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Non-conformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: Sandra Seger Date: 9/27/11

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

9/30/2011 7:34:10 AM

Lot No., Due Date: J1I130506; 10/04/2011
Client, Site: 127642; S00X235B00 HANFORD
QC Batch No., Method Test: 1257094; RC14 C-14 by LSC
SDG, Matrix: J01276; SOIL

1.0 COC

1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	Yes ✓	No	N/A

2.0 QC Batch

2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	Yes ✓	No	N/A
2.2 Are the QC appropriate for the analysis included in the batch?	Yes ✓	No	N/A
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	Yes ✓	No	N/A
2.4 Does the Worksheets include a Tracer Vial label for each sample?	Yes	No	N/A ✓

3.0 QC & Samples

3.1 Is the blank results, yield, and MDA within contract limits?	Yes ✓	No	N/A
3.2 Is the LCS result, yield, and MDA within contract limits?	Yes ✓	No	N/A
3.3 Are the MS/MSD results, yields, and MDA within contract limits?	Yes	No	N/A ✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	Yes ✓	No	N/A
3.5 Are the sample yields and MDAs within contract limits?	Yes ✓	No	N/A

4.0 Raw Data

4.1 Were results calculated in the correct units?	Yes ✓	No	N/A
4.2 Were analysis volumes entered correctly?	Yes ✓	No	N/A
4.3 Were Yields entered correctly?	Yes ✓	No	N/A
4.4 Were spectra reviewed/meet contractual requirements?	Yes	No	N/A ✓
4.5 Were raw counts reviewed for anomalies?	Yes ✓	No	N/A

5.0 Other

5.1 Are all nonconformances included and noted?	Yes	No	N/A ✓
5.2 Are all required forms filled out?	Yes ✓	No	N/A
5.3 Was the correct methodology used?	Yes ✓	No	N/A
5.4 Was transcription checked?	Yes ✓	No	N/A
5.5 Were all calculations checked at a minimum frequency?	Yes	No	N/A ✓
5.6 Are worksheet entries complete and correct?	Yes ✓	No	N/A

6.0 Comments on any No response:

First Level John Vostrus **Date** 9-30-11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1257094

Review Item	Yes (√)	No (√)	NA (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?			✓
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Non-conformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?		✓	
6. Were units checked?	✓		

Comments on any "No" response: CRDL= 50.0 pci/g

Second Level Review: Rhonda Wear Date: 9/30/11

LS-038B, Rev. 10, 9/07

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

9/29/2011 11:07:59 AM

Lot No., Due Date: J1I130506; 10/04/2011
Client, Site: 127642; S00X235B00 HANFORD
QC Batch No., Method Test: 1257090; RNI63 NI-63 by LSC
SDG, Matrix: J01276; SOIL

1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	Yes ✓	No	N/A
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	Yes ✓	No	N/A
2.2 Are the QC appropriate for the analysis included in the batch?	Yes ✓	No	N/A
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	Yes ✓	No	N/A
2.4 Does the Worksheets include a Tracer Vial label for each sample?	Yes	No	N/A ✓
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	Yes ✓	No	N/A
3.2 Is the LCS result, yield, and MDA within contract limits?	Yes ✓	No	N/A
3.3 Are the MS/MSD results, yields, and MDA within contract limits?	Yes	No	N/A ✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	Yes ✓	No	N/A
3.5 Are the sample yields and MDAs within contract limits?	Yes ✓	No	N/A
4.0 Raw Data			
4.1 Were results calculated in the correct units?	Yes ✓	No	N/A
4.2 Were analysis volumes entered correctly?	Yes ✓	No	N/A
4.3 Were Yields entered correctly?	Yes ✓	No	N/A
4.4 Were spectra reviewed/meet contractual requirements?	Yes	No	N/A ✓
4.5 Were raw counts reviewed for anomalies?	Yes ✓	No	N/A
5.0 Other			
5.1 Are all nonconformances included and noted?	Yes	No	N/A ✓
5.2 Are all required forms filled out?	Yes ✓	No	N/A
5.3 Was the correct methodology used?	Yes ✓	No	N/A
5.4 Was transcription checked?	Yes ✓	No	N/A
5.5 Were all calculations checked at a minimum frequency?	Yes	No	N/A ✓
5.6 Are worksheet entries complete and correct?	Yes ✓	No	N/A

6.0 Comments on any No response:

First Level John Roth **Date** 9-29-11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1257090

Review Item	Yes (√)	No (√)	NA (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Non-conformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?		✓	
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?		✓	

Comments on any "No" response: CRDL = 30 pCi/g

Second Level Review: Rhonda L. Geer Date: 9/09/11

LS-038B, Rev. 10, 9/07

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): 1258059

Lab Sample Numbers or SDG: **J01276**

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: M.R. Date: 9-19-11

Second-Level Review: Date: 9/19/11

TestAmerica Laboratories, Inc.

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-075-256	Page 1 of 6

Collector: Q Stowe	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location: 118-D-2:1 Burial Ground- Group A, Trench 1,2,3 & 6		SAF No.: RC-075
Ice Chest No.: NA	Field Logbook No.: EL-1607-12	COA: R118D22000	Method of Shipment: Hand deliver
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA		Bill of Lading/Air Bill No.: NA

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Rad < DOT

Special Handling and/or Storage

Cool 4 Deg. C

J1I130506

J01276

J1I130506

Due 10-4-11

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None	None	None
Type of Container	G/P	G/P	G	aG	aG	aG	G/P	G/P	G/P	G/P
No. of Container(s)	1	1	1	1	1	1	1	0	0	0
Volume	60mL	60mL	120mL	125mL	120mL	125mL	1000mL	1000mL	1000mL	1000mL
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D+	PAHs - 8310	PCBs - 8082	Chloro-Herbicides - EPA8151	See item (2) in Special Instructions.	Carbon-14; Tritium - H3	Nickel-63; Strontium-89,90 -- Total Sr	Isotopic Plutonium

RCF 27384

Sample No.	Matrix *	Sample Date	Sample Time									
J1KV47 MMEOK	SOIL	9/12/11	0915		X					X	X	X	X
J1KV48 MMEOR	SOIL	9/12/11	0750		X					X	X	X	X
J1KV49 MMEOT	SOIL	9/12/11	0755		X					X	X	X	X
J1KV50 MMEOV	SOIL	9/12/11	0805		X					X	X	X	X
J1KV51 MMEOW	SOIL	9/12/11	0807		X					X	X	X	X

80

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From: Quincy Stowe	Date/Time: 9/12/11 1400	Received By/Stored In: D. Newman	Date/Time: 9/12/11 1400
Relinquished By/Removed From: D. Newman	Date/Time: 9/12/11 1540	Received By/Stored In: Bingham	Date/Time: 10/0442 9-12-11 1540
Relinquished By/Removed From: Bingham WOH	Date/Time: 10/0442 9-13-11 1240	Received By/Stored In: TALL	Date/Time: 9-13-11 1240
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) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV) {Mercury}

(2) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}

REVIEWED BY AJ DATE 9-13-11

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

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

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-075-256	Page 2 of 6

Collector: C Stowe	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location: 118-D-2:1 Burial Ground- Group A, Trench 1,2,3 & 6		SAF No.: RC-075
Ice Chest No.: NA	Field Logbook No.: EL-1607-12	COA: R118D22000	Method of Shipment: Hand deliver
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA		Bill of Lading/Air Bill No.: NA

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Rad < DOT

Special Handling and/or Storage

~~Cool 4 Deg. C~~ 9.12.11

None CMB

Preservation	None										
Type of Container	G/P										
No. of Container(s)	0										
Volume	1000mL										
SAMPLE ANALYSIS	Isotopic Uranium										

J01276
JI130506
Due 10-4-11

RCF 27384

Sample No.	Matrix *	Sample Date	Sample Time	Isotopic Uranium									
J1KV47 MMEOK	SOIL	9/12/11	0915	X									
J1KV48 MMEOR	SOIL	9/12/11	0750	X									
J1KV49 MMEOT	SOIL	9/12/11	0755	X									
J1KV50 MMEOV	SOIL	9/12/11	0805	X									
J1KV51 MMEOW	SOIL	9/12/11	0807	X									

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Chancy Stowe	9/12/11 1400	D. Newman	9/12/11 1400
D. Newman	9/12/11 1540	Birnam	1060#2 9.12.11 1540
Birnam WCH	1060#2 9.13.11 1240	J Bock	TALL 9-13-11 1240

SPECIAL INSTRUCTIONS

REVIEWED BY AJ
DATE 9-13-11

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-075-256	Page 3 of 6

Collector: Q Stowe	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location: 118-D-2:1 Burial Ground- Group A, Trench 1,2,3 & 6		SAF No.: RC-075
Ice Chest No.: NA	Field Logbook No.: EL-1607-12	COA: R118D22000	Method of Shipment: Hand deliver
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA		Bill of Lading/Air Bill No.: NA

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Rad < DOT

Special Handling and/or Storage

Cool 4 Deg. C

J01276

J1I130506

Due 10-4-11

SAMPLE ANALYSIS

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None	None	None
Type of Container	G/P	G/P	G	aG	aG	aG	G/P	G/P	G/P	G/P
No. of Container(s)	1	1	1	1	1	1	1	0	0	0
Volume	60mL	60mL	120mL	125mL	120mL	125mL	1000mL	1000mL	1000mL	1000mL
	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D+	PAHs - 8310	PCBs - 8082	Chloro-Herbicides - EPA8151	See item (2) in Special Instructions.	Carbon-14; Tritium - H3	Nickel-63; Strontium-89,90 -- Total Sr	Isotopic Plutonium
						RCF 27384				

Sample No.	Matrix *	Sample Date	Sample Time								
J1KV52 MMEOX	SOIL	9/12/11	0810		X				X	X	X	X
J1KV53 MMEOO	SOIL	9/12/11	0815		X				X	X	X	X
J1KV54 MMEO1	SOIL	9/12/11	0820		X				X	X	X	X
J1KV55 MMEO3	SOIL	9/12/11	0830		X				X	X	X	X
J1KV56 MMEO4	SOIL	9/12/11	0835		X				X	X	X	X

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Quincy Stowe	9/12/11 1400	D. Newman Denni Newman	9/12/11 1400
D. Newman Denni Newman	9/12/11 1540	Cynthia Bingham	1060A2 9-12-11 1540
Cynthia Bingham	1060A2 9-13-11 1240	J. Beck	9-13-11 1240

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV) {Mercury}

(2) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}

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

REVIEWED BY AJ DATE 9-13-11

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

WCH-EE-011

9-12-11

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-075-256	Page 3 of 6

Collector: Q Stowe	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location: 118-D-2:1 Burial Ground- Group A, Trench 1,2,3 & 6		SAF No.: RC-075
Ice Chest No.: NA	Field Logbook No.: EL-1607-12	COA: R118D22000	Method of Shipment: Hand deliver
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA		Bill of Lading/Air Bill No.: NA

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Rad < DOT

Special Handling and/or Storage

~~Cool 4 Deg. C~~ 9.12.11
None CMB

J01276
JII130506
Due 10-4-11

SAMPLE ANALYSIS

Preservation	None												
Type of Container	G/P												
No. of Container(s)	0												
Volume	1000mL												
	Isotopic Uranium									RCF	27384		

Sample No.	Matrix *	Sample Date	Sample Time	Isotopic Uranium									
J1KV52 mmE0X	SOIL	9/12/11	0810	X									
J1KV53 mmE00	SOIL	9/12/11	0815	X									
J1KV54 mmE01	SOIL	9/12/11	0820	X									
J1KV55 mmE03	SOIL	9/12/11	0830	X									
J1KV56 mmE04	SOIL	9/12/11	0835	X									

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Quincy Stowe	9/12/11 1400	D. Newman Denn Newman	9/12/11 1400
D. Newman Denn Newman	9/12/11 1540	[illegible] Burham	1060#2 9.12.11 1540
[illegible] Burham WD4	10608 9/13/11 1240	J. Bock J. Bock TALS	9-13-11 1240

SPECIAL INSTRUCTIONS

REVIEWED BY AJ
DATE 9-13-11

Matrix *
S=Soil
SE=Sediment
SO=Solid
SJ=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-075-256	Page 5 of 6

Collector: Q Stowe	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location: 118-D-2:1 Burial Ground- Group A, Trench 1,2,3 & 6		SAF No.: RC-075
Ice Chest No.: NA	Field Logbook No.: EL-1607-12	COA: R118D22000	Method of Shipment: Hand deliver
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA		Bill of Lading/Air Bill No.: NA

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Rad < DOT

Special Handling and/or Storage

Cool 4 Deg. C

J01276

J1I130506
Due 10-4-11

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None	None	None
Type of Container	G/P	G/P	G	aG	aG	aG	G/P	G/P	G/P	G/P
No. of Container(s)	1	1	1	1	1	1	1	0	0	0
Volume	60mL	60mL	120mL	125mL	120mL	125mL	1000mL	1000mL	1000mL	1000mL
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D+	PAHs - 8310	PCBs - 8082	Chloro-Herbicides - EPA8151	See item (2) in Special Instructions.	Carbon-14; Tritium - H3	Nickel-63; Strontium-89,90 – Total Sr	Isotopic Plutonium

RCF 27384

Sample No.	Matrix *	Sample Date	Sample Time								
J1KV57 MME09	SOIL	9/12/11	0840		X				X	X	X	X
J1KV58 MME1D	SOIL	9/12/11	1020		X				X	X	X	X
J1KV59 MME1G	SOIL	9/12/11	0750		X				X	X	X	X

CHAIN OF POSSESSION	Date/Time	Sign/Print Names	Date/Time
Relinquished By/Removed From: Quincy Stowe	9/12/11 1400	Received By/Stored In: D. Newman	9/12/11 1400
Relinquished By/Removed From: D. Newman	9/12/11 1540	Received By/Stored In: Cynthia Bingham	1060442 09.12.11 1540
Relinquished By/Removed From: Cynthia Bingham	1060442 9.13.11 1240	Received By/Stored In: J. Lock	TALK 9-13-11 1240
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) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV) {Mercury}

(2) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}

REVIEWED BY AJ
DATE 9-13-11

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-075-256	Page 6 of 6
Collector: Q Stone	Company Contact: Joan Kessner; Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH	Price Code: 8L; Data Turnaround: 21 Days
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location: 118-D-2:1 Burial Ground- Group A, Trench 1,2,3 & 6	SAF No.: RC-075	
Ice Chest No.: NA	Field Logbook No.: EL-1607-12; COA: R118D22000	Method of Shipment: Hand deliver	
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA	Bill of Lading/Air Bill No.: NA	

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Rad < DOT

Special Handling and/or Storage

~~Cool 4 Deg. C~~ 9.12.11 CMB

None

J01276
J1I130506
DUE 10-4-11

SAMPLE ANALYSIS

	Preservation	Type of Container	No. of Container(s)	Volume
	None	G/P	0	1000mL
Isotopic Uranium				

RCF 27384

Sample No.	Matrix *	Sample Date	Sample Time	Isotopic Uranium
J1KV57 MME09	SOIL	9/12/11	0840	X
J1KV58 MMEID	SOIL	9/12/11	1020	X
J1KV59 MMEIG	SOIL	9/12/11	0750	X

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By/Stored In	Date/Time
Relinquished By/Removed From: Quincy Stone	9/12/11 1400	D Newman Denni Newman	9/12/11 1400
Relinquished By/Removed From: D. Newman Denni Newman	9/12/11 1540	Received By/Stored In: Burgham	Date/Time 1060112 1540
Relinquished By/Removed From: Burgham	Date/Time 1060112 9.13.11 1240	Received By/Stored In: J Bock	Date/Time 9-13-11 1240
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

REVIEWED BY DATE 9-13-11

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

WCH

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 9-13-11 | 1240 GM Screen Result: (Airlock) .06 Initials[ ]
(Sample Receiving) .04 Initials[ ]

Client: WCH SDG #: J01276 NA [ ] SAF #: RC-075 NA [ ]

Lot Number: J1I130506

Chain of Custody # RC-075-256

Shipping Container ID: hand deliv. 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: 3 °C 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): 13
7. Containers received: 13 x 10mLag ; 13 x LP
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 [ ]

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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: J. Beck / 1240 Date: 9-13-11

Client Informed on _____ by _____ Person contacted _____

[✓] No action necessary, process as is

Project Manager Rhonda Wyer Date 9/14/11

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

J. Beck 9-13-11

J. Beck 9-13-11

See over for additional information.

9/19/2011 5:37:53 PM

Sample Preparation/Analysis

Balance Id:1120373922

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

6A Pu Prp PRP003/PRP005, Sep ALP002(ALP015)
SO Plutonium-238,239/40 by Alpha Spec
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 10/04/2011 JO127C

Sep1 DT/Tm Tech:

Batch: 1257097 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,SannohS

TestAmerica Laboratories, Inc.

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MME0K-1-AF J1I130506-1-SAMP 09/12/2011 09:15	AmtRec: 1X60MLAG;1XLP	1.02g,in #Containers: 2	PUTC12446 08/02/11,pd 01/01/10,r	50 Min		Scr:	Alpha:	Beta:
2 MME0K-1-AK-X J1I130506-1-DUP 09/12/2011 09:15	AmtRec: 1X60MLAG;1XLP	1.02g,in #Containers: 2	PUTC12447 08/02/11,pd 01/01/10,r			Scr:	Alpha:	Beta:
3 MME0R-1-AF J1I130506-2-SAMP 09/12/2011 07:50	AmtRec: 1X60MLAG;1XLP	1.01g,in #Containers: 2	PUTC12448 08/02/11,pd 01/01/10,r			Scr:	Alpha:	Beta:
4 MME0T-1-AF J1I130506-3-SAMP 09/12/2011 07:55	AmtRec: 1X60MLAG;1XLP	1.03g,in #Containers: 2	PUTC12449 08/02/11,pd 01/01/10,r			Scr:	Alpha:	Beta:
5 MME0V-1-AF J1I130506-4-SAMP 09/12/2011 08:05	AmtRec: 1X60MLAG;1XLP	1.03g,in #Containers: 2	PUTC12450 08/02/11,pd 01/01/10,r			Scr:	Alpha:	Beta:
6 MME0W-1-AF J1I130506-5-SAMP 09/12/2011 08:07	AmtRec: 1X60MLAG;1XLP	1.05g,in #Containers: 2	PUTC12451 08/02/11,pd 01/01/10,r			Scr:	Alpha:	Beta:
7 MME0X-1-AF J1I130506-6-SAMP 09/12/2011 08:10	AmtRec: 1X60MLAG;1XLP	1.03g,in #Containers: 2	PUTC12452 08/02/11,pd 01/01/10,r			Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

9/19/2011 5:37:54 PM

Sample Preparation/Analysis

Balance Id:1120373922

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

6A Pu Prp PRP003/PRP005, Sep ALP002(ALP015)
SO Plutonium-238,239/40 by Alpha Spec
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 10/04/2011

Sep1 DT/Tm Tech:

Batch: 1257097 SOIL pCi/g PM, Quote: RW2, 27038

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,SannohS

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MME00-1-AF J1I130506-7-SAMP 09/12/2011 08:15	AmtRec: 1X60MLAG;1XLP	1.02g,in	PUTC12453 08/02/11,pd 01/01/10,r #Containers: 2	50min		Scr:	Alpha:	Beta:
9 MME01-1-AF J1I130506-8-SAMP 09/12/2011 08:20	AmtRec: 1X60MLAG;1XLP	1.02g,in	PUTC12454 08/02/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
10 MME03-1-AF J1I130506-9-SAMP 09/12/2011 08:30	AmtRec: 1X60MLAG;1XLP	1.03g,in	PUTC12455 08/02/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha: 2.12E+01pCi/g	Beta: 9.40E+00pCi/g
11 MME04-1-AF J1I130506-10-SAMP 09/12/2011 08:35	AmtRec: 1X60MLAG;1XLP	1.00g,in	PUTC12456 08/02/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
12 MME09-1-AF J1I130506-11-SAMP 09/12/2011 08:40	AmtRec: 1X60MLAG;1XLP	1.03g,in	PUTC12457 08/02/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
13 MME1D-1-AF J1I130506-12-SAMP 09/12/2011 10:20	AmtRec: 1X60MLAG;1XLP	1.02g,in	PUTC12458 08/02/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
14 MME1G-1-AF J1I130506-13-SAMP 09/12/2011 07:50	AmtRec: 1X60MLAG;1XLP	0.99g,in	PUTC12459 08/02/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:

9/19/2011 5:37:55 PM

Sample Preparation/Analysis

6A Pu Prp PRP003/PRP005, Sep ALP002(ALP015)
SO Plutonium-238,239/40 by Alpha Spec
5I CLIENT: HANFORD

Balance Id:1120373922
Pipet #: _____

AnalyDueDate: 10/04/2011

Sep1 DT/Tm Tech:

Batch: 1257097 pCi/g
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,SannohS

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MME8W-1-AA-B J1I140000-97-BLK 09/14/2011 11:01 pd		1.02g,in AmtRec:	PUTC12460 08/02/11,pd 01/01/10,r #Containers: 1	50 min		Scr:	Alpha:	Beta:
16 MME8W-1-AC-C J1I140000-97-LCS 09/14/2011 11:01 pd		1.02g,in AmtRec:	PUSK0879 08/02/11,pd 01/01/10,r #Containers: 1			Scr:	Alpha:	Beta:

Comments:

All Clients for Batch:
127642, Washington Closure Hanford LLC Bechtel Hanford, Inc. , RW2, 27038

MME0K1AF-SAMP Constituent List:

PU-238	RDL:1	pCi/g	LCL:	UCL:	RPD:	PU-239	RDL:1	pCi/g	LCL:70	UCL:130	RPD:35
Pu-242	RDL:	pCi/g	LCL:20	UCL:105	RPD:35						

MME8W1AA-BLK:

PU-238	RDL:1	pCi/g	LCL:	UCL:	RPD:	PU-239	RDL:1	pCi/g	LCL:	UCL:	RPD:
Pu-242	RDL:	pCi/g	LCL:20	UCL:105	RPD:35						

MME8W1AC-LCS:

PU-239	RDL:1	pCi/g	LCL:70	UCL:130	RPD:35	Pu-242	RDL:	pCi/g	LCL:20	UCL:105	RPD:35

MME0K1AF-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

MME8W1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

MME8W1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

90

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

RE-COUNT REQUEST

DUE DATE 10-4

CUSTOMER WCH

ANALAYSIS PU

MATRIX SOIL

LOT NUMBER JIF130506

SAMPLE DELIVERY GROUP

OLD BATCH NUMBER 1257097

NEW BATCH NUMBER

LAB SAMPLE ID	CLIENT ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1) MMEC01AF		HIGH TRACER
2)		
3)		
4)		
5)		
6)		
7)		
8)		
9)		
10)		
11)		
12)		
13)		
14)		
15)		
16)		
17)		
18)		
19)		
20)		

RC-126, 12/07, Rev 5

9/28/2011 3:22:25 PM

Sample Preparation/Analysis

Balance Id:1120373922

127642, Washington Closure Hanford LLC , 6A Pu Prp PRP003/PRP005, Sep ALP002(ALP015)

Bechtel Hanford, Inc. SO Plutonium-238,239/40 by Alpha Spec

Pipet #: _____

AnalyDueDate: 10/04/2011 5I CLIENT: HANFORD

Sep1 DT/Tm Tech:

Batch: 1257097 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,SannohS

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MME0K-1-AF J1I130506-1-SAMP 09/12/2011 09:15	AmtRec: 1X60MLAG;1XLP	1.02g,in	PUTC12446 08/02/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
2 MME0K-1-AK-X J1I130506-1-DUP 09/12/2011 09:15	AmtRec: 1X60MLAG;1XLP	1.02g,in	PUTC12447 08/02/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
3 MME0R-1-AF J1I130506-2-SAMP 09/12/2011 07:50	AmtRec: 1X60MLAG;1XLP	1.01g,in	PUTC12448 08/02/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
4 MME0T-1-AF J1I130506-3-SAMP 09/12/2011 07:55	AmtRec: 1X60MLAG;1XLP	1.03g,in	PUTC12449 08/02/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
5 MME0V-1-AF J1I130506-4-SAMP 09/12/2011 08:05	AmtRec: 1X60MLAG;1XLP	1.03g,in	PUTC12450 08/02/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
6 MME0W-1-AF J1I130506-5-SAMP 09/12/2011 08:07	AmtRec: 1X60MLAG;1XLP	1.05g,in	PUTC12451 08/02/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
7 MME0X-1-AF J1I130506-6-SAMP 09/12/2011 08:10	AmtRec: 1X60MLAG;1XLP	1.03g,in	PUTC12452 08/02/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

9/28/2011 3:22:26 PM

Sample Preparation/Analysis

Balance Id:1120373922

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

6A Pu Prp PRP003/PRP005, Sep ALP002(ALP015)
SO Plutonium-238,239/40 by Alpha Spec
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 10/04/2011

Sep1 DT/Tm Tech:

Batch: 1257097 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,SannohS

TestAmerica Laboratories, Inc.

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MME00-1-AF J1I130506-7-SAMP 09/12/2011 08:15		1.02g,in AmtRec: 1X60MLAG;1XLP	PUTC12453 08/02/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
39 9 MME00-2-AF J1I130506-7-SAMP 09/12/2011 08:15		1.02 AmtRec: 1X60MLAG;1XLP	PUTC 12453 #Containers: 2	50		Scr:	Alpha:	Beta:
10 MME01-1-AF J1I130506-8-SAMP 09/12/2011 08:20		1.02g,in AmtRec: 1X60MLAG;1XLP	PUTC12454 08/02/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
11 MME03-1-AF J1I130506-9-SAMP 09/12/2011 08:30		1.03g,in AmtRec: 1X60MLAG;1XLP	PUTC12455 08/02/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
12 MME04-1-AF J1I130506-10-SAMP 09/12/2011 08:35		1.00g,in AmtRec: 1X60MLAG;1XLP	PUTC12456 08/02/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
13 MME09-1-AF J1I130506-11-SAMP 09/12/2011 08:40		1.03g,in AmtRec: 1X60MLAG;1XLP	PUTC12457 08/02/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
14 MME1D-1-AF J1I130506-12-SAMP 09/12/2011 10:20		1.02g,in AmtRec: 1X60MLAG;1XLP	PUTC12458 08/02/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:

9/28/2011 3:22:26 PM

Sample Preparation/Analysis

Balance Id:1120373922

127642, Washington Closure Hanford LLC , Bechtel Hanford, Inc.

6A Pu Prp PRP003/PRP005, Sep ALP002(ALP015)
SO Plutonium-238,239/40 by Alpha Spec
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 10/04/2011

Sep1 DT/Tm Tech:

Batch: 1257097 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,SannohS

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MME1G-1-AF J1I130506-13-SAMP 09/12/2011 07:50	AmtRec: 1X60MLAG;1XLP	0.99g,in	PUTC12459 08/02/11,pd #Containers: 2	Scr:	Alpha:	Beta:		
16 MME8W-1-AA-B J1I140000-97-BLK 09/14/2011 11:01 pd	AmtRec:	1.02g,in	PUTC12460 08/02/11,pd #Containers: 1	Scr:	Alpha:	Beta:		
17 MME8W-1-AC-C J1I140000-97-LCS 09/14/2011 11:01 pd	AmtRec:	1.02g,in	PUSK0879 08/02/11,pd #Containers: 1	Scr:	Alpha:	Beta:		

Comments:

All Clients for Batch:
127642, Washington Closure Hanford LLC Bechtel Hanford, Inc. , RW2, 27038

MME0K1AF-SAMP Constituent List:

PU-238	RDL:1	pCi/g	LCL:	UCL:	RPD:	PU-239	RDL:1	pCi/g	LCL:70	UCL:130	RPD:35
Pu-242	RDL:	pCi/g	LCL:20	UCL:105	RPD:35						

MME8W1AA-BLK:

PU-238	RDL:1	pCi/g	LCL:	UCL:	RPD:	PU-239	RDL:1	pCi/g	LCL:	UCL:	RPD:
Pu-242	RDL:	pCi/g	LCL:20	UCL:105	RPD:35						

MME8W1AC-LCS:

PU-239	RDL:1	pCi/g	LCL:70	UCL:130	RPD:35	Pu-242	RDL:	pCi/g	LCL:20	UCL:105	RPD:35

MME0K1AF-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

MME8W1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

MME8W1AC-LCS:

TestAmerica Laboratories, Inc.

Sample Preparation/Analysis

6A Pu Prp PRP003/PRP005, Sep ALP002(ALP015)
SO Plutonium-238,239/40 by Alpha Spec
5I CLIENT: HANFORD

Balance Id:1120373922

Pipet #: _____

AnalyDueDate: 10/04/2011

Sep1 DT/Tm Tech:

Batch: 1257097 pCi/g

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,SannohS

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

9/29/2011 10:25:07 AM

ICOC Fraction Transfer/Status Report

ByDate: 9/29/2010, 10/4/2011, Batch: '1257097', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1257097						
AC		**Rev1C**	**SannohS**	9/19/2011 5:08:37 PM		
SC			MaucieriS	IsBatched	9/14/2011 11:03:18 AM	ICOC_RADCALC v4.8.49
SC			SannohS	InPrep	9/19/2011 5:08:37 PM	RL-PRP-003 Revision 2
SC			WoodT	InPrep2	9/20/2011 4:39:03 AM	RL-PRP-003 REVISION 2
SC			WoodT	Prep1C	9/20/2011 4:40:46 AM	RL-PRP-003 REVISION 2
SC			BouslaughP	Prep1C	9/20/2011 10:20:53 AM	RL-PRP-003 REVISION 2
SC			JorgensonD	Sep1C	9/26/2011 2:54:15 PM	RL-ALP-001 REVISION 3
SC			LuksicS	Sep2C	9/27/2011 6:32:02 PM	RL-ALP-016 REVISION 1
SC			DawkinsO	InCnt1	9/27/2011 7:43:08 PM	RL-CI-008 REVISION 1
SC			ClarkR	CalcC	9/28/2011 9:45:33 AM	RL-CI-008 REVISION 1
SC			DawkinsO	InCnt1	9/28/2011 10:18:33 PM	RL-CI-008 REVISION 1
SC			BlackCL	CalcC	9/29/2011 6:57:04 AM	RL-CI-008 REVISION 1
SC			nortonj	Rev1C	9/29/2011 10:24:44 AM	RL-DR-001 Rev 2
AC			**WoodT**	9/20/2011 4:39:03		
AC			**WoodT**	9/20/2011 4:40:46		
AC			**BouslaughP**	9/20/2011 10:20:53		
AC			**JorgensonD**	9/26/2011 2:54:15 PM		
AC			**LuksicS**	9/27/2011 6:32:02 PM		
AC			**DawkinsO**	9/27/2011 7:43:08 PM		
AC			**ClarkR**	9/28/2011 9:45:33		
AC			**DawkinsO**	9/28/2011 10:18:33		
AC			**BlackCL**	9/29/2011 6:57:04		
AC			**nortonj**	9/29/2011 10:24:44		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 11

ICOCFractions v4.8.44

9/19/2011 5:03:18 PM

Sample Preparation/Analysis

Balance Id:1120373922

127642, Washington Closure Hanford LLC , Bechtel Hanford, Inc.

7S Uiso Prp PRP003/PRP005, Sep ALP009(ALP015)
SR Uranium-234,235,238 by Alpha Spec
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 10/04/2011

Sep1 DT/Tm Tech:

Batch: 1257096 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 1257087 CHTH, 1257088 AXTA, 1257089 ATS6, 1257090 AFS4, 1257094 5SS3, 1257096 7SSR, 1257097 6ASO, 1258059 DWEA,

Prep Tech: ,SannohS

TestAmerica Laboratories, Inc.

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MME0K-1-AC J1I130506-1-SAMP 09/12/2011 09:15	AmtRec: 1X60MLAG;1XLP	0.99g,in	UITC26938 07/27/11,pd 06/15/01,r	50 min	#Containers: 2	Scr:	Alpha:	Beta:
2 MME0R-1-AC J1I130506-2-SAMP 09/12/2011 07:50	AmtRec: 1X60MLAG;1XLP	1.02g,in	UITC26939 07/27/11,pd 06/15/01,r		#Containers: 2	Scr:	Alpha:	Beta:
3 MME0R-1-AK-X J1I130506-2-DUP 09/12/2011 07:50	AmtRec: 1X60MLAG;1XLP	0.99g,in	UITC26940 07/27/11,pd 06/15/01,r		#Containers: 2	Scr:	Alpha:	Beta:
4 MME0T-1-AC J1I130506-3-SAMP 09/12/2011 07:55	AmtRec: 1X60MLAG;1XLP	0.99g,in	UITC26941 07/27/11,pd 06/15/01,r		#Containers: 2	Scr:	Alpha:	Beta:
5 MME0V-1-AC J1I130506-4-SAMP 09/12/2011 08:05	AmtRec: 1X60MLAG;1XLP	0.99g,in	UITC26942 07/27/11,pd 06/15/01,r		#Containers: 2	Scr:	Alpha:	Beta:
6 MME0W-1-AC J1I130506-5-SAMP 09/12/2011 08:07	AmtRec: 1X60MLAG;1XLP	1.01g,in	UITC26943 07/27/11,pd 06/15/01,r		#Containers: 2	Scr:	Alpha:	Beta:
7 MME0X-1-AC J1I130506-6-SAMP 09/12/2011 08:10	AmtRec: 1X60MLAG;1XLP	1.00g,in	UITC26944 07/27/11,pd 06/15/01,r		#Containers: 2	Scr:	Alpha:	Beta:

9/19/2011 5:03:19 PM

Sample Preparation/Analysis

Balance Id:1120373922

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

7S Uiso Prp PRP003/PRP005, Sep ALP009(ALP015)
SR Uranium-234,235,238 by Alpha Spec
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 10/04/2011

Sep1 DT/Tm Tech:

Batch: 1257096 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,SannohS

TestAmerica Laboratories, Inc.

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MME00-1-AC J1I130506-7-SAMP 09/12/2011 08:15		1.01g,in AmtRec: 1X60MLAG;1XLP	UITC26945 07/27/11,pd #Containers: 2	50min		Scr:	Alpha:	Beta:
9 MME01-1-AC J1I130506-8-SAMP 09/12/2011 08:20		1.00g,in AmtRec: 1X60MLAG;1XLP	UITC26946 07/27/11,pd #Containers: 2			Scr:	Alpha:	Beta:
10 MME03-1-AC J1I130506-9-SAMP 09/12/2011 08:30		1.02g,in AmtRec: 1X60MLAG;1XLP	UITC26947 07/27/11,pd #Containers: 2			Scr:	Alpha: 2.12E+01pCi/g	Beta: 9.40E+00pCi/g
11 MME04-1-AC J1I130506-10-SAMP 09/12/2011 08:35		1.01g,in AmtRec: 1X60MLAG;1XLP	UITC26948 07/27/11,pd #Containers: 2			Scr:	Alpha:	Beta:
12 MME09-1-AC J1I130506-11-SAMP 09/12/2011 08:40		1.00g,in AmtRec: 1X60MLAG;1XLP	UITC26949 07/27/11,pd #Containers: 2			Scr:	Alpha:	Beta:
13 MME1D-1-AC J1I130506-12-SAMP 09/12/2011 10:20		0.99g,in AmtRec: 1X60MLAG;1XLP	UITC26950 07/27/11,pd #Containers: 2			Scr:	Alpha:	Beta:
14 MME1G-1-AC J1I130506-13-SAMP 09/12/2011 07:50		1.00g,in AmtRec: 1X60MLAG;1XLP	UITC26951 07/27/11,pd #Containers: 2			Scr:	Alpha:	Beta:

9/19/2011 5:03:20 PM

Sample Preparation/Analysis

7S Uiso Prp PRP003/PRP005, Sep ALP009(ALP015)
SR Uranium-234,235,238 by Alpha Spec
5I CLIENT: HANFORD

Balance Id:1120373922
Pipet #: _____
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,SannohS

AnalyDueDate: 10/04/2011

Batch: 1257096 pCi/g
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MME8V-1-AA-B J1I140000-96-BLK 09/14/2011 11:01 pd		1.01g,in AmtRec:	UITC26952 07/27/11,pd 06/15/01,r #Containers: 1	50 min		Scr:	Alpha:	Beta:
16 MME8V-1-AC-C J1I140000-96-LCS 09/14/2011 11:01 pd		1.01g,in AmtRec:	UISH1450 09/13/11,pd 06/15/01,r #Containers: 1			Scr:	Alpha:	Beta:

Comments:

All Clients for Batch:
127642, Washington Closure Hanford LLC Bechtel Hanford, Inc. , RW2, 27038

MME0K1AC-SAMP Constituent List:

U-232	RDL:	pCi/g	LCL:20	UCL:105	RPD:35	U-234	RDL:1	pCi/g	LCL:	UCL:	RPD:
U-235	RDL:1	pCi/g	LCL:	UCL:	RPD:	U-238	RDL:1	pCi/g	LCL:	UCL:	RPD:

MME8V1AA-BLK:

U-232	RDL:	pCi/g	LCL:20	UCL:105	RPD:35	U-234	RDL:1	pCi/g	LCL:	UCL:	RPD:
U-235	RDL:1	pCi/g	LCL:	UCL:	RPD:	U-238	RDL:1	pCi/g	LCL:	UCL:	RPD:

MME8V1AC-LCS:

U-232	RDL:	pCi/g	LCL:20	UCL:105	RPD:35	Uranium	RDL:	pCi/g	LCL:70	UCL:130	RPD:35

MME0K1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MME8V1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MME8V1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

RE-COUNT REQUEST

DUE DATE 10-4

CUSTOMER WCH

ANALAYSIS U,90

MATRIX SOIL

LOT NUMBER J1F130506

SAMPLE DELIVERY GROUP J01276

OLD BATCH NUMBER 1257096

NEW BATCH NUMBER

LAB SAMPLE ID	CLIENT ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1) MAEQQ1AC		LOW TRACER YIELD
2)		
3)		
4)		
5)		
6)		
7)		
8)		
9)		
10)		
11)		
12)		
13)		
14)		
15)		
16)		
17)		
18)		
19)		
20)		

RC-126, 12/07, Rev 5

9/29/2011 3:03:47 PM

Sample Preparation/Analysis

Balance Id:1120373922

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

7S Uiso Prp PRP003/PRP005, Sep ALP009(ALP015)
SR Uranium-234,235,238 by Alpha Spec
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 10/04/2011

Sep1 DT/Tm Tech:

Batch: 1257096 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,SannohS

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MME0K-1-AC J1I130506-1-SAMP 09/12/2011 09:15		0.99g,in AmtRec: 1X60MLAG;1XLP	UITC26938 07/27/11,pd 06/15/01,r #Containers: 2				Scr: Alpha: Beta:	
2 MME0R-1-AC J1I130506-2-SAMP 09/12/2011 07:50		1.02g,in AmtRec: 1X60MLAG;1XLP	UITC26939 07/27/11,pd 06/15/01,r #Containers: 2				Scr: Alpha: Beta:	
3 MME0R-1-AK-X J1I130506-2-DUP 09/12/2011 07:50		0.99g,in AmtRec: 1X60MLAG;1XLP	UITC26940 07/27/11,pd 06/15/01,r #Containers: 2				Scr: Alpha: Beta:	
4 MME0T-1-AC J1I130506-3-SAMP 09/12/2011 07:55		0.99g,in AmtRec: 1X60MLAG;1XLP	UITC26941 07/27/11,pd 06/15/01,r #Containers: 2				Scr: Alpha: Beta:	
5 MME0V-1-AC J1I130506-4-SAMP 09/12/2011 08:05		0.99g,in AmtRec: 1X60MLAG;1XLP	UITC26942 07/27/11,pd 06/15/01,r #Containers: 2				Scr: Alpha: Beta:	
6 MME0W-1-AC J1I130506-5-SAMP 09/12/2011 08:07		1.01g,in AmtRec: 1X60MLAG;1XLP	UITC26943 07/27/11,pd 06/15/01,r #Containers: 2				Scr: Alpha: Beta:	
7 MME0X-1-AC J1I130506-6-SAMP 09/12/2011 08:10		1.00g,in AmtRec: 1X60MLAG;1XLP	UITC26944 07/27/11,pd 06/15/01,r #Containers: 2				Scr: Alpha: Beta:	

9/29/2011 3:03:47 PM

Sample Preparation/Analysis

Balance Id:1120373922

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

7S Uiso Prp PRP003/PRP005, Sep ALP009(ALP015)
SR Uranium-234,235,238 by Alpha Spec
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 10/04/2011

Sep1 DT/Tm Tech:

Batch: 1257096 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,SannohS

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
6 MME00-1-AC J1I130506-7-SAMP 09/12/2011 08:15		1.01g,in AmtRec: 1X60MLAG;1XLP	UITC26945 07/27/11,pd 06/15/01,r #Containers: 2			Scr:	Alpha:	Beta:
9 MME00-2-AC J1I130506-7-SAMP 09/12/2011 08:15		1.01 AmtRec: 1X60MLAG;1XLP	UITC 26945 #Containers: 2	50		Scr:	Alpha:	Beta:
10 MME01-1-AC J1I130506-8-SAMP 09/12/2011 08:20		1.00g,in AmtRec: 1X60MLAG;1XLP	UITC26946 07/27/11,pd 06/15/01,r #Containers: 2			Scr:	Alpha:	Beta:
11 MME03-1-AC J1I130506-9-SAMP 09/12/2011 08:30		1.02g,in AmtRec: 1X60MLAG;1XLP	UITC26947 07/27/11,pd 06/15/01,r #Containers: 2			Scr:	Alpha:	Beta:
12 MME04-1-AC J1I130506-10-SAMP 09/12/2011 08:35		1.01g,in AmtRec: 1X60MLAG;1XLP	UITC26948 07/27/11,pd 06/15/01,r #Containers: 2			Scr:	Alpha:	Beta:
13 MME09-1-AC J1I130506-11-SAMP 09/12/2011 08:40		1.00g,in AmtRec: 1X60MLAG;1XLP	UITC26949 07/27/11,pd 06/15/01,r #Containers: 2			Scr:	Alpha:	Beta:
14 MME1D-1-AC J1I130506-12-SAMP 09/12/2011 10:20		0.99g,in AmtRec: 1X60MLAG;1XLP	UITC26950 07/27/11,pd 06/15/01,r #Containers: 2			Scr:	Alpha:	Beta:

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9/29/2011 3:03:48 PM

Sample Preparation/Analysis

Balance Id:1120373922

127642, Washington Closure Hanford LLC , Bechtel Hanford, Inc.

7S Uiso Prp PRP003/PRP005, Sep ALP009(ALP015)
SR Uranium-234,235,238 by Alpha Spec
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 10/04/2011

Sep1 DT/Tm Tech:

Batch: 1257096 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,SannohS

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MME1G-1-AC J1I130506-13-SAMP 09/12/2011 07:50		1.00g,in AmtRec: 1X60MLAG;1XLP	UITC26951 07/27/11,pd 06/15/01,r #Containers: 2			Scr:	Alpha:	Beta:
16 MME8V-1-AA-B J1I140000-96-BLK 09/14/2011 11:01 pd		1.01g,in AmtRec:	UITC26952 07/27/11,pd 06/15/01,r #Containers: 1			Scr:	Alpha:	Beta:
17 MME8V-1-AC-C J1I140000-96-LCS 09/14/2011 11:01 pd		1.01g,in AmtRec:	UISH1450 09/13/11,pd 06/15/01,r #Containers: 1			Scr:	Alpha:	Beta:

Comments:

All Clients for Batch:
127642, Washington Closure Hanford LLC Bechtel Hanford, Inc. , RW2, 27038

MME0K1AC-SAMP Constituent List:

U-232	RDL:	pCi/g	LCL:20	UCL:105	RPD:35	U-234	RDL:1	pCi/g	LCL:	UCL:	RPD:
U-235	RDL:1	pCi/g	LCL:	UCL:	RPD:	U-238	RDL:1	pCi/g	LCL:	UCL:	RPD:

MME8V1AA-BLK:

U-232	RDL:	pCi/g	LCL:20	UCL:105	RPD:35	U-234	RDL:1	pCi/g	LCL:	UCL:	RPD:
U-235	RDL:1	pCi/g	LCL:	UCL:	RPD:	U-238	RDL:1	pCi/g	LCL:	UCL:	RPD:

MME8V1AC-LCS:

U-232	RDL:	pCi/g	LCL:20	UCL:105	RPD:35	Uranium	RDL:	pCi/g	LCL:70	UCL:130	RPD:35

MME0K1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MME8V1AA-BLK:

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Sample Preparation/Analysis

7S Ulso Prp PRP003/PRP005, Sep ALP009(ALP015)
SR Uranium-234,235,238 by Alpha Spec
5I CLIENT: HANFORD

Balance Id:1120373922

Pipet #: _____

AnalyDueDate: 10/04/2011

Sep1 DT/Tm Tech:

Batch: 1257096 pCi/g

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,SannohS

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

MME8V1AC-LCS:

Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

9/30/2011 9:57:17 AM

ICOC Fraction Transfer/Status Report

ByDate: 9/30/2010, 10/5/2011, Batch: '1257096', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting				Comments
1257096							
AC		Rev1C	**SannohS**	9/19/2011 4:21:05 PM			
SC			MaucieriS	IsBatched	9/14/2011 11:03:14 AM		ICOC_RADCALC v4.8.49
SC			SannohS	InPrep	9/19/2011 4:21:05 PM		RL-PRP-003 Revision 2
SC			WoodT	InPrep2	9/20/2011 4:38:17 AM		RL-PRP-003 REVISION 2
SC			WoodT	Prep1C	9/20/2011 4:41:28 AM		RL-PRP-003 REVISION 2
SC			JorgensonD	Sep1C	9/20/2011 1:57:40 PM		RL-ALP-004 REVISION 2
SC			NyeM	Sep2C	9/28/2011 9:48:46 AM		RL-ALP-015 REVISION 2
SC			ClarkR	InCnt1	9/28/2011 10:00:43 AM		RL-CI-008 REVISION 1
SC			DawkinsO	CalcC	9/28/2011 4:10:06 PM		RL-CI-008 REVISION 1
SC			DawkinsO	InCnt1	9/29/2011 7:54:19 PM		RL-CI-008 REVISION 1
SC			DawkinsO	CalcC	9/30/2011 2:13:27 AM		RL-CI-008 REVISION 1
SC			nortonj	Rev1C	9/30/2011 9:45:30 AM		RL-DR-001 Rev 2
AC			**WoodT**	9/20/2011 4:38:17			
AC			**WoodT**	9/20/2011 4:41:28			
AC			**JorgensonD**	9/20/2011 1:57:40 PM			
AC			**NyeM**	9/28/2011 9:48:46			
AC			**ClarkR**	9/28/2011 10:00:43			
AC			**DawkinsO**	9/28/2011 4:10:06 PM			
AC			**DawkinsO**	9/29/2011 7:54:19 PM			
AC			**DawkinsO**	9/30/2011 2:13:27			
AC			**nortonj**	9/30/2011 9:45:30			

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 10

ICOCFractions v4.8.44

9/16/2011 1:09:32 PM

Sample Preparation/Analysis

Balance Id:1120373922

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

CH Sr-Total Prp PRP003, Sep GPC003
TH Total Strontium by GPC
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 10/04/2011

Sep1 DT/Tm Tech: 11:10 9/28/11 APA

Batch: 1257087 SOIL pCi/g PM, Quote: RW2, 27038

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,SannohS

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MME0K-1-AD J1I130506-1-SAMP 09/12/2011 09:15		6.00g,in AmtRec: 1X60MLAG;1XLP #Containers: 2	SRTA21555 07/28/11	1.5	SD Mix	1.4715g -1.4042g 67.3mg ✓ Scr: Alpha: Beta:		32A	2217	9/28/11 OHD
2 MME0R-1-AD J1I130506-2-SAMP 09/12/2011 07:50		6.01g,in AmtRec: 1X60MLAG;1XLP #Containers: 2	SRTA21556 07/28/11			1.4457g -1.3850g 60.7mg ✓ Scr: Alpha: Beta:		32B		
3 MME0T-1-AD J1I130506-3-SAMP 09/12/2011 07:55		6.00g,in AmtRec: 1X60MLAG;1XLP #Containers: 2	SRTA21557 07/28/11			1.4582g -1.3902g 68.0mg ✓ Scr: Alpha: Beta:		32C		
4 MME0V-1-AD J1I130506-4-SAMP 09/12/2011 08:05		6.00g,in AmtRec: 1X60MLAG;1XLP #Containers: 2	SRTA21558 07/28/11			1.4549g -1.3881g 66.8mg ✓ Scr: Alpha: Beta:		32D		
5 MME0W-1-AD J1I130506-5-SAMP 09/12/2011 08:07		6.01g,in AmtRec: 1X60MLAG;1XLP #Containers: 2	SRTA21559 07/28/11			1.4591g -1.4006g 58.5mg ✓ Scr: Alpha: Beta:		26A		
6 MME0X-1-AD J1I130506-6-SAMP 09/12/2011 08:10		6.00g,in AmtRec: 1X60MLAG;1XLP #Containers: 2	SRTA21560 07/28/11			1.4465g -1.3852g 61.3mg ✓ Scr: Alpha: Beta:		26B		
7 MME00-1-AD J1I130506-7-SAMP 09/12/2011 08:15		6.02g,in AmtRec: 1X60MLAG;1XLP #Containers: 2	SRTA21561 07/28/11			1.4512g -1.3843g 66.9mg ✓ Scr: Alpha: Beta:		26C		

TestAmerica Laboratories, Inc.

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9/16/2011 1:09:34 PM

Sample Preparation/Analysis

Balance Id:1120373922

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

CH Sr-Total Prp PRP003, Sep GPC003
TH Total Strontium by GPC
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 10/04/2011

Sep1 DT/Tm Tech:

Batch: 1257087 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,SannohS

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MME00-1-AK-X J1I130506-7-DUP 09/12/2011 08:15		6.00g,in AmtRec: 1X60MLAG;1XLP	SRTA21562 07/28/11 #Containers: 2	1.5	1.4711g -1.4061g 65.0mg	50 Min	26D Scr:	2217 Alpha:	9/28/11 OD Beta:	
9 MME01-1-AD J1I130506-8-SAMP 09/12/2011 08:20		6.03g,in AmtRec: 1X60MLAG;1XLP	SRTA21563 07/28/11 #Containers: 2		1.4287g -1.3730g 55.7mg		27A Scr:	Alpha:	Beta:	
10 MME03-1-AD J1I130506-9-SAMP 09/12/2011 08:30		6.01g,in AmtRec: 1X60MLAG;1XLP	RTA21564 #Containers: 2		1.4535g -1.3956g 57.9 mg		27b Scr:	Alpha: 2.12E+01pCi/g	Beta: 9.40E+00pCi/g	
11 MME04-1-AD J1I130506-10-SAMP 09/12/2011 08:35		6.01g,in AmtRec: 1X60MLAG;1XLP	SRTA2155 01/18/00 #Containers: 2		1.4510g -1.3884g 62.6mg		27C Scr:	Alpha:	Beta:	
12 MME09-1-AD J1I130506-11-SAMP 09/12/2011 08:40		6.02g,in AmtRec: 1X60MLAG;1XLP	SRTA21566 07/28/11 #Containers: 2		1.4710g -1.4087g 62.3mg		28B Scr:	Alpha:	Beta:	
13 MME1D-1-AD J1I130506-12-SAMP 09/12/2011 10:20		6.01g,in AmtRec: 1X60MLAG;1XLP	SRTA21567 07/28/11 #Containers: 2		1.4462g -1.3834g 62.8mg		28C Scr:	Alpha:	Beta:	
14 MME1G-1-AD J1I130506-13-SAMP 09/12/2011 07:50		6.01g,in AmtRec: 1X60MLAG;1XLP	SRTA21568 07/28/11 #Containers: 2		1.4516g -1.3960g 55.6mg		28D Scr:	Alpha:	Beta:	

TestAmerica Laboratories, Inc.

9/16/2011 1:09:35 PM

Sample Preparation/Analysis

CH Sr-Total Prp PRP003, Sep GPC003
TH Total Strontium by GPC
5I CLIENT: HANFORD

Balance Id:1120373922
Pipet #: _____
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,SannohS

AnalyDueDate: 10/04/2011

Batch: 1257087 pCi/g
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MME8N-1-AA-B J1I140000-87-BLK 09/14/2011 11:01 pd		6.02g,in AmtRec:	SRTA21569 07/28/11 #Containers: 1	1.5	1.4736g -1.3831g 90.5mg ✓	50min	26C Scr:	2311 Alpha:	9/28/11 GD Beta:	
16 MME8N-1-AC-C J1I140000-87-LCS 09/14/2011 11:01 pd		6.01g,in AmtRec:	STSB1666 09/07/11 #Containers: 1		1.4636g -1.3750g 88.6mg ✓		26D Scr:	↓ Alpha:	↓ Beta:	

Comments:

All Clients for Batch:
127642, Washington Closure Hanford LLC Bechtel Hanford, Inc. , RW2, 27038

MME0K1AD-SAMP Constituent List:
Sr-90 RDL:1 pCi/g LCL:70 UCL:130 RPD:35
MME8N1AA-BLK:
Sr-90 RDL:1 pCi/g LCL: UCL: RPD:
MME8N1AC-LCS:
Sr-90 RDL:1 pCi/g LCL:70 UCL:130 RPD:35

MME0K1AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MME8N1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MME8N1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

9/30/2011 7:36:15 AM

ICOC Fraction Transfer/Status Report

ByDate: 9/30/2010, 10/5/2011, Batch: '1257087', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1257087						
AC		Rev1C	SannohS	9/16/2011 11:34:30		
SC			MaucieriS	IsBatched	9/14/2011 11:02:53 AM	ICOC_RADCALC v4.8.49
SC			SannohS	InPrep	9/16/2011 11:34:30 AM	RL-PRP-003 Revision 2
SC			WoodT	InPrep2	9/20/2011 4:38:23 AM	RL-PRP-003 REVISION 2
SC			WoodT	Prep1C	9/20/2011 4:41:23 AM	RL-PRP-003 REVISION 2
SC			BouslaughP	Prep1C	9/20/2011 12:27:50 PM	RL-PRP-003 REVISION 2
SC			AshworthA	Sep2C	9/28/2011 1:35:31 PM	RL-GPC-003 REVISION 1
SC			ClarkR	InCnt1	9/28/2011 2:06:43 PM	RL-CI-006 REVISION 1
SC			BlackCL	CalcC	9/29/2011 5:42:29 AM	RL-CI-006 REVISION 1
SC			nortonj	Rev1C	9/30/2011 7:36:05 AM	RL-DR-001 Rev 2
AC			WoodT	9/20/2011 4:38:23		
AC			WoodT	9/20/2011 4:41:23		
AC			BouslaughP	9/20/2011 12:27:50		
AC			AshworthA	9/28/2011 1:35:31 PM		
AC			ClarkR	9/28/2011 2:06:43 PM		
AC			BlackCL	9/29/2011 5:42:29		
AC			nortonj	9/30/2011 7:36:05		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 8

ICOCFractions v4.8.44

9/16/2011 2:14:36 PM

Sample Preparation/Analysis

Balance Id:1120421763

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

AX Gamma Prp PRP003/GAM001
TA Gamma by HPGE
5I CLIENT: HANFORD

Pipet #:

AnalyDueDate: 10/04/2011

Sep1 DT/Tm Tech:

Batch: 1257088 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 1257087 CHTH, 1257088 AXTA, 1257089 ATS6, 1257090 AFS4, 1257094 5SS3, 1257096 7SSR, 1257097 6ASO, 1258059 DWEA,

Prep Tech: ,SannohS

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MME0K-1-AH J1I130506-1-SAMP 09/12/2011 09:15			330.60g,in AmtRec: 1X60MLAG;1XLP	330.60g #Containers: 2	S 200		200.	G13 Scr:	0143 Alpha:	9/14/11	Beta:
2 MME0R-1-AH J1I130506-2-SAMP 09/12/2011 07:50			349.90g,in AmtRec: 1X60MLAG;1XLP	349.90g #Containers: 2				G10 Scr:	0144 Alpha:		Beta:
3 MME0T-1-AH J1I130506-3-SAMP 09/12/2011 07:55			337.50g,in AmtRec: 1X60MLAG;1XLP	337.50g #Containers: 2				G14 Scr:	0145 Alpha:		Beta:
4 MME0V-1-AH J1I130506-4-SAMP 09/12/2011 08:05			309.90g,in AmtRec: 1X60MLAG;1XLP	309.90g #Containers: 2				G11 Scr:	0146 Alpha:		Beta:
5 MME0W-1-AH J1I130506-5-SAMP 09/12/2011 08:07			364.00g,in AmtRec: 1X60MLAG;1XLP	364.00g #Containers: 2				G13 Scr:	0547 Alpha:	9/14/11	Beta:
6 MME0X-1-AH J1I130506-6-SAMP 09/12/2011 08:10			354.30g,in AmtRec: 1X60MLAG;1XLP	354.30g #Containers: 2				G11 Scr:	0547 Alpha:		Beta:
7 MME0X-1-AK-X J1I130506-6-DUP 09/12/2011 08:10			353.30g,in AmtRec: 1X60MLAG;1XLP	353.30g #Containers: 2				G14 Scr:	0547 Alpha:		Beta:

TestAmerica Laboratories, Inc.

9/16/2011 2:14:37 PM

Sample Preparation/Analysis

Balance Id:1120421763

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

AX Gamma Prp PRP003/GAM001
TA Gamma by HPGE
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 10/04/2011

Sep1 DT/Tm Tech:

Batch: 1257088 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,SannohS

TestAmerica Laboratories, Inc.

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MME00-1-AH J1I130506-7-SAMP 09/12/2011 08:15			332.70g,in AmtRec: 1X60MLAG;1XLP	332.70g #Containers: 2		5200	200	G7 Scr:	0848 Alpha:	9/17/11 Beta:	
9 MME01-1-AH J1I130506-8-SAMP 09/12/2011 08:20			342.40g,in AmtRec: 1X60MLAG;1XLP	342.40g #Containers: 2				G10 Scr:	0848 Alpha:	Beta:	
10 MME03-1-AH J1I130506-9-SAMP 09/12/2011 08:30			360.70g,in AmtRec: 1X60MLAG;1XLP	360.70g #Containers: 2				G10 Scr:	2222 Alpha: 2.12E+01pCi/g	9/17/11 000 Beta: 9.40E+00pCi/g	
11 MME04-1-AH J1I130506-10-SAMP 09/12/2011 08:35			363.20g,in AmtRec: 1X60MLAG;1XLP	363.20g #Containers: 2				G13 Scr:	0441 Alpha:	9/19/11 Beta:	
12 MME09-1-AH J1I130506-11-SAMP 09/12/2011 08:40			346.00g,in AmtRec: 1X60MLAG;1XLP	346.00g #Containers: 2				G15 Scr:	0441 Alpha:	Beta:	
13 MME1D-1-AH J1I130506-12-SAMP 09/12/2011 10:20			379.60g,in AmtRec: 1X60MLAG;1XLP	379.60g #Containers: 2				G11 Scr:	0442 Alpha:	Beta:	
14 MME1G-1-AH J1I130506-13-SAMP 09/12/2011 07:50			360.40g,in AmtRec: 1X60MLAG;1XLP	360.40g #Containers: 2				G14 Scr:	0442 Alpha:	Beta:	

9/16/2011 2:14:37 PM

Sample Preparation/Analysis

Balance Id:1120421763

AX Gamma Prp PRP003/GAM001
TA Gamma by HPGE
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 10/04/2011

Sep1 DT/Tm Tech:

Batch: 1257088 pCi/g
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,SannohS

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MME8P-1-AA-B J1I140000-88-BLK 09/14/2011 11:01 pd			348.00g,in AmtRec:	348.00g #Containers: 1		5100	200	G7 Scr:	0442 Alpha:	9/15/11 Beta:	
16 MME8P-1-AC-C J1I140000-88-LCS 09/14/2011 11:01 pd			350.10g,in AmtRec:	350.10g #Containers: 1	qc20009 08/04/09,pd 09/01/09,r			G10 Scr:	0442 Alpha:	Beta:	

Comments:

All Clients for Batch:
127642, Washington Closure Hanford LLC Bechtel Hanford, Inc. , RW2, 27038

MME0K1AH-SAMP Constituent List:

Co-60	RDL:5.00E-02	pCi/g	LCL:	UCL:	RPD:	Cs-137	RDL:1.00E-01	pCi/g	LCL:70	UCL:130	RPD:35
Cs-137DA	RDL:1.00E-01	pCi/g	LCL:70	UCL:130	RPD:35	Eu-152	RDL:1.00E-01	pCi/g	LCL:	UCL:	RPD:
Eu-154	RDL:1.00E-01	pCi/g	LCL:	UCL:	RPD:	Eu-155	RDL:1.00E-01	pCi/g	LCL:	UCL:	RPD:

MME8P1AA-BLK:

Co-60	RDL:5.00E-02	pCi/g	LCL:	UCL:	RPD:	Cs-137	RDL:1.00E-01	pCi/g	LCL:	UCL:	RPD:
Cs-137DA	RDL:1.00E-01	pCi/g	LCL:	UCL:	RPD:	Eu-152	RDL:1.00E-01	pCi/g	LCL:	UCL:	RPD:
Eu-154	RDL:1.00E-01	pCi/g	LCL:	UCL:	RPD:	Eu-155	RDL:1.00E-01	pCi/g	LCL:	UCL:	RPD:

MME8P1AC-LCS:

Cs-137	RDL:0.1	pCi/g	LCL:70	UCL:130	RPD:35	Cs-137DA	RDL:0.1	pCi/g	LCL:70	UCL:130	RPD:35
K-40	RDL:--	pCi/g	LCL:70	UCL:130	RPD:35	Ra-226	RDL:0.1	pCi/g	LCL:70	UCL:130	RPD:35
RA-228	RDL:0.2	pCi/g	LCL:70	UCL:130	RPD:35	RA-228DA	RDL:0.2	pCi/g	LCL:70	UCL:130	RPD:35
U-238	RDL:	pCi/g	LCL:70	UCL:130	RPD:35						

MME0K1AH-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

MME8P1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

MME8P1AC-LCS:

TestAmerica Laboratories, Inc.

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9/16/2011 2:14:38 PM

Sample Preparation/Analysis

AX Gamma Prp PRP003/GAM001
TA Gamma by HPGE
5I CLIENT: HANFORD

Balance Id:1120421763

Pipet #: _____

AnalyDueDate: 10/04/2011

Sep1 DT/Tm Tech:

Batch: 1257088 pCi/g

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,SannohS

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

Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

9/30/2011 7:25:05 AM

ICOC Fraction Transfer/Status Report

ByDate: 9/30/2010, 10/5/2011, Batch: '1257088', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1257088						
AC		**Rev1C**	**SannohS**	9/16/2011 8:07:49		
SC			MaucieriS	IsBatched	9/14/2011 11:02:57 AM	ICOC_RADCALC v4.8.49
SC			SannohS	InPrep	9/16/2011 8:07:49 AM	RL-GAM-001 REVISION 1
SC			ClarkR	InCnt1	9/16/2011 2:27:58 PM	RL-CI-007 REVISION 1
SC			ClarkR	CalcC	9/19/2011 7:35:47 AM	RL-CI-007 REVISION 1
SC			norton|	Rev1C	9/30/2011 7:24:44 AM	RL-DR-001 Rev 2
AC			**ClarkR**	9/16/2011 2:27:58 PM		
AC			**ClarkR**	9/19/2011 7:35:47		
AC			**norton|**	9/30/2011 7:24:44		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

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Grp Rec Cnt: 4

ICOCFractions v4.8.44

6,127

9/14/2011 11:01:36 AM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

AT H-3 Prp/Sep LSC002
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

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

AnalyDueDate: 10/04/2011

Batch: 1257089 SOIL
SEQ Batch, Test: None

PRIORITY

PM, Quote: RW2, 27038

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MME0K-1-AG J1I130506-1-SAMP 09/12/2011 09:15		AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
2 MME0R-1-AG J1I130506-2-SAMP 09/12/2011 07:50		AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
3 MME0T-1-AG J1I130506-3-SAMP 09/12/2011 07:55		AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
4 MME0V-1-AG J1I130506-4-SAMP 09/12/2011 08:05		AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
5 MME0W-1-AG J1I130506-5-SAMP 09/12/2011 08:07		AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
6 MME0W-1-AK-X J1I130506-5-DUP 09/12/2011 08:07		AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
7 MME0X-1-AG J1I130506-6-SAMP 09/12/2011 08:10		AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

9/14/2011 11:01:36 AM

Sample Preparation/Analysis

Balance Id:

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

AT H-3 Prp/Sep LSC002
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

Pipet #:

AnalyDueDate: 10/04/2011

Sep1 DT/Tm Tech:

Batch: 1257089 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MME00-1-AG J1I130506-7-SAMP 09/12/2011 08:15		AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
9 MME01-1-AG J1I130506-8-SAMP 09/12/2011 08:20		AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
10 MME03-1-AG J1I130506-9-SAMP 09/12/2011 08:30		AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha: 2.12E+01pCi/g	Beta: 9.40E+00pCi/g
11 MME04-1-AG J1I130506-10-SAMP 09/12/2011 08:35		AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
12 MME09-1-AG J1I130506-11-SAMP 09/12/2011 08:40		AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
13 MME1D-1-AG J1I130506-12-SAMP 09/12/2011 10:20		AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
14 MME1G-1-AG J1I130506-13-SAMP 09/12/2011 07:50		AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:

9/14/2011 11:01:37 AM

Sample Preparation/Analysis

AT H-3 Prp/Sep LSC002
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

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

AnalyDueDate: 10/04/2011

Batch: 1257089 pCi/g
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MME8Q-1-AA-B J1I140000-89-BLK 09/14/2011 11:01 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
16 MME8Q-1-AC-C J1I140000-89-LCS 09/14/2011 11:01 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
17 MME8Q-1-AD-BN J1I140000-89-IBLK 09/14/2011 11:01 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
18 MME8Q-1-AE-BN J1I140000-89-IBLK 09/14/2011 11:01 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

All Clients for Batch:
127642, Washington Closure Hanford LLC Bechtel Hanford, Inc. , RW2, 27038

MME0K1AG-SAMP Constituent List:
H-3 RDL:400 pCi/g LCL:70 UCL:130 RPD:35
MME8Q1AA-BLK:

MME8Q1AC-LCS:

MME8Q1AD-IBLK:

Sample Preparation/Analysis

AT H-3 Prp/Sep LSC002
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

Balance Id:

Pipet #: _____

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

AnalyDueDate: 10/04/2011

Batch: 1257089 **pCi/g**

SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

MME8Q1AE-IBLK:

MME0K1AG-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

MME8Q1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

MME8Q1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

MME8Q1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

MME8Q1AE-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

9/26/2011 3:47:56 PM

ICOC Fraction Transfer/Status Report

ByDate: 9/26/2010, 10/1/2011, Batch: '1257089', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1257089						
AC		**Rev1C**	**DefordP**	9/23/2011 8:46:32		
SC			MaucieriS	IsBatched	9/14/2011 11:03:01 AM	ICOC_RADCALC v4.8.49
SC			DefordP	Sep1C	9/23/2011 8:46:32 AM	RL-LSC-002 REVISION 1
SC			DawkinsO	InCnt1	9/23/2011 3:53:55 PM	RL-CI-005 REVISION 1
SC			ClarkR	CalcC	9/26/2011 11:15:14 AM	RL-CI-005 REVISION 1
SC			nortonj	Rev1C	9/26/2011 3:47:43 PM	RL-DR-001 Rev 2
AC			**DawkinsO**	9/23/2011 3:53:55 PM		
AC			**ClarkR**	9/26/2011 11:15:14		
AC			**nortonj**	9/26/2011 3:47:43 PM		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.44

51,96

9/14/2011 11:01:39 AM

Sample Preparation/Analysis

Balance Id:

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

27642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

5S C-14 Prp/Sep LSC008
S3 Carbon-14 by Liquid Scint
CLIENT: HANFORD

PRIORITY

AnalyDueDate: 10/04/2011

Batch: 1257094 SOIL

PM, Quote: RW2, 27038

SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MME0K-1-AJ J1I130506-1-SAMP 09/12/2011 09:15		5.026g AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
2 MME0R-1-AJ J1I130506-2-SAMP 09/12/2011 07:50		5.026g AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
3 MME0T-1-AJ J1I130506-3-SAMP 09/12/2011 07:55		5.004g AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
4 MME0T-1-AK-X J1I130506-3-DUP 09/12/2011 07:55		5.004g AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
5 MME0V-1-AJ J1I130506-4-SAMP 09/12/2011 08:05		5.035g AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
6 MME0W-1-AJ J1I130506-5-SAMP 09/12/2011 08:07		5.030g AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
7 MME0X-1-AJ J1I130506-6-SAMP 09/12/2011 08:10		5.027g AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

9/14/2011 11:01:39 AM

Sample Preparation/Analysis

Balance Id:

127642, Washington Closure Hanford LLC , 5S C-14 Prp/Sep LSC008

Bechtel Hanford, Inc. S3 Carbon-14 by Liquid Scint

Pipet #: _____

AnalyDueDate: 10/04/2011 5I CLIENT: HANFORD

Sep1 DT/Tm Tech:

Batch: 1257094 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MME00-1-AJ J1I130506-7-SAMP 09/12/2011 08:15		5.014g AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
9 MME01-1-AJ J1I130506-8-SAMP 09/12/2011 08:20		5.028g AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
10 MME03-1-AJ J1I130506-9-SAMP 09/12/2011 08:30		5.023g AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha: 2.12E+01pCi/g	Beta: 9.40E+00pCi/g
11 MME04-1-AJ J1I130506-10-SAMP 09/12/2011 08:35		5.031g AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
12 MME09-1-AJ J1I130506-11-SAMP 09/12/2011 08:40		5.009g AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
13 MME1D-1-AJ J1I130506-12-SAMP 09/12/2011 10:20		5.022g AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:
14 MME1G-1-AJ J1I130506-13-SAMP 09/12/2011 07:50		5.006g AmtRec: 1X60MLAG;1XLP	#Containers: 2			Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

9/14/2011 11:01:40 AM

Sample Preparation/Analysis

5S C-14 Prp/Sep LSC008
S3 Carbon-14 by Liquid Scint
5I CLIENT: HANFORD

Balance Id:

Pipet #:

AnalyDueDate: 10/04/2011

Sep1 DT/Tm Tech:

Batch: 1257094 pCi/g

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MME8T-1-AA-B J1I140000-94-BLK 09/14/2011 11:01 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
16 MME8T-1-AC-C J1I140000-94-LCS 09/14/2011 11:01 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
17 MME8T-1-AD-BN J1I140000-94-IBLK 09/14/2011 11:01 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
18 MME8T-1-AE-BN J1I140000-94-IBLK 09/14/2011 11:01 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

All Clients for Batch:
127642, Washington Closure Hanford LLC Bechtel Hanford, Inc. , RW2, 27038

MME0K1AJ-SAMP Constituent List:
C-14 RDL:50 pCi/g LCL:70 UCL:130 RPD:35
MME8T1AA-BLK:

MME8T1AC-LCS:

MME8T1AD-IBLK:

Sample Preparation/Analysis

5S C-14 Prp/Sep LSC008
S3 Carbon-14 by Liquid Scint
5I CLIENT: HANFORD

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

AnalyDueDate: 10/04/2011

Batch: 1257094 pCi/g
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

MME8T1AE-IBLK:

MME0K1AJ-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MME8T1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MME8T1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MME8T1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MME8T1AE-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

9/30/2011 7:28:43 AM

ICOC Fraction Transfer/Status Report

ByDate: 9/30/2010, 10/5/2011, Batch: '1257094', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus		Accepting		Comments
1257094						
AC		Rev1C	DefordP	9/22/2011 11:15:11		
SC			MaucieriS	IsBatched	9/14/2011 11:03:10 AM	ICOC_RADCALC v4.8.49
SC			DefordP	Sep1C	9/22/2011 11:15:11 AM	RL-LSC-008 REVISION 1
SC			ClarkR	InCnt1	9/22/2011 3:17:06 PM	RL-CI-005 REVISION 1
SC			ClarkR	CalcC	9/24/2011 11:57:37 AM	RL-CI-005 REVISION 1
SC			norton|	Rev1C	9/30/2011 7:28:30 AM	RL-DR-001 Rev 2
AC			ClarkR	9/22/2011 3:17:06 PM		
AC			ClarkR	9/24/2011 11:57:37		
AC			norton|	9/30/2011 7:28:30		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 4

ICOCFractions v4.8.44

9/15/2011 10:47:38 AM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

Balance Id:
Pipet #:

AnalyDueDate: 10/04/2011

Sep1 DT/Tm Tech:

Batch: 1258059 SOIL mg/kg PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MME0K-1-AA J1I130506-1-SAMP 09/12/2011 09:15		2.5009 AmtRec: 1X60MLAG;1XLP	#Containers: 2					Scr:	Alpha:	Beta:
2 MME0K-1-AL-S J1I130506-1-MS 09/12/2011 09:15		2.5026 AmtRec: 1X60MLAG;1XLP	#Containers: 2					Scr:	Alpha:	Beta:
3 MME0K-1-AM-X J1I130506-1-DUP 09/12/2011 09:15		2.5032 /PbCrO4: 2.5019 AmtRec: 1X60MLAG;1XLP	#Containers: 2					Scr:	Alpha:	Beta:
4 MME0R-1-AA J1I130506-2-SAMP 09/12/2011 07:50		2505 3 H.R 2.5058 AmtRec: 1X60MLAG;1XLP	#Containers: 2					Scr:	Alpha:	Beta:
5 MME0T-1-AA J1I130506-3-SAMP 09/12/2011 07:55		2.5009 AmtRec: 1X60MLAG;1XLP	#Containers: 2					Scr:	Alpha:	Beta:
6 MME0V-1-AA J1I130506-4-SAMP 09/12/2011 08:05		2.5095 AmtRec: 1X60MLAG;1XLP	#Containers: 2					Scr:	Alpha:	Beta:
7 MME0W-1-AA J1I130506-5-SAMP 09/12/2011 08:07		2.5030 AmtRec: 1X60MLAG;1XLP	#Containers: 2					Scr:	Alpha:	Beta:

9/15/2011 10:47:39 AM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

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

AnalyDueDate: 10/04/2011

Batch: 1258059 SOIL mg/kg PM, Quote: RW2, 27038
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MME0X-1-AA J1I130506-6-SAMP 09/12/2011 08:10		2.5009 AmtRec: 1X60MLAG;1XLP		#Containers: 2				Scr:	Alpha:	Beta:
9 MME00-1-AA J1I130506-7-SAMP 09/12/2011 08:15		2.5032 AmtRec: 1X60MLAG;1XLP		#Containers: 2				Scr:	Alpha:	Beta:
10 MME01-1-AA J1I130506-8-SAMP 09/12/2011 08:20		2.5044 AmtRec: 1X60MLAG;1XLP		#Containers: 2				Scr:	Alpha:	Beta:
11 MME03-1-AA J1I130506-9-SAMP 09/12/2011 08:30		2.5043 AmtRec: 1X60MLAG;1XLP		#Containers: 2				Scr:	Alpha: 2.12E+01pCi/g	Beta: 9.40E+00pCi/g
12 MME04-1-AA J1I130506-10-SAMP 09/12/2011 08:35		2.5024 AmtRec: 1X60MLAG;1XLP		#Containers: 2				Scr:	Alpha:	Beta:
13 MME09-1-AA J1I130506-11-SAMP 09/12/2011 08:40		2.5068 AmtRec: 1X60MLAG;1XLP		#Containers: 2				Scr:	Alpha:	Beta:
14 MME1D-1-AA J1I130506-12-SAMP 09/12/2011 10:20		2.5083 AmtRec: 1X60MLAG;1XLP		#Containers: 2				Scr:	Alpha:	Beta:

Testamerica Laboratories, Inc.

9/15/2011 10:47:39 AM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC , Bechtel Hanford, Inc.

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

AnalyDueDate: 10/04/2011

Batch: 1258059 SOIL mg/kg PM, Quote: RW2, 27038
SEQ Batch, Test: None

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

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MME1G-1-AA J1I130506-13-SAMP 09/12/2011 07:50		2.5058 H.R 9/15/11 AmtRec: 1X60MLAG;1XLP	#Containers: 2					Scr:	Alpha:	Beta:
16 MMF2P-1-AA-B J1I150000-59-BLK 09/15/2011 09:12 pd		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:
17 MMF2P-1-AC-C J1I150000-59-LCS 09/15/2011 09:12 pd		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:

Comments:

All Clients for Batch:
127642, Washington Closure Hanford LLC Bechtel Hanford, Inc. , RW2, 27038

MME0K1AA-SAMP Constituent List:
HEXCHROME RDL:0.1548 mg/kg LCL:80 UCL:120 RPD:20
MME0K1AL-MS Constituent List:

MMF2P1AA-BLK:

MMF2P1AC-LCS:

MME0K1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MME0K1AL-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MMF2P1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

9/15/2011 10:47:40 AM

Sample Preparation/Analysis

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

Balance Id:

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

AnalyDueDate: 10/04/2011

Batch: 1258059 mg/kg
SEQ Batch, Test: None

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

MMF2P1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-20242-1

SDG Number: J01276

Job Description: SAF# RC-075

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

Attention: Joan H Kessner

RECEIVED
SEP 2011

Approved for release.
Kae E Yoder
Project Manager II
9/30/2011 2:37 PM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
09/30/2011

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: 280-20242-1

SDG #: J01276
SAF#: RC-075

Date SDG Closed: September 14, 2011
Data Deliverable: 21 Day / Summary

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1KV47	280-20242-1	6010/7471/WTPH-D+/8310/8082/8151	6010B/7471A/NWTPH-Dx/8310/8082/8151A
J1KV48	280-20242-2	6010/7471/WTPH-D+/8310/8082/8151	6010B/7471A/NWTPH-Dx/8310/8082/8151A
J1KV49	280-20242-3	6010/7471/WTPH-D+/8310/8082/8151	6010B/7471A/NWTPH-Dx/8310/8082/8151A
J1KV50	280-20242-4	6010/7471/WTPH-D+/8310/8082/8151	6010B/7471A/NWTPH-Dx/8310/8082/8151A
J1KV51	280-20242-5	6010/7471/WTPH-D+/8310/8082/8151	6010B/7471A/NWTPH-Dx/8310/8082/8151A
J1KV52	280-20242-6	6010/7471/WTPH-D+/8310/8082/8151	6010B/7471A/NWTPH-Dx/8310/8082/8151A
J1KV53	280-20242-7	6010/7471/WTPH-D+/8310/8082/8151	6010B/7471A/NWTPH-Dx/8310/8082/8151A
J1KV54	280-20242-8	6010/7471/WTPH-D+/8310/8082/8151	6010B/7471A/NWTPH-Dx/8310/8082/8151A
J1KV55	280-20242-9	6010/7471/WTPH-D+/8310/8082/8151	6010B/7471A/NWTPH-Dx/8310/8082/8151A
J1KV56	280-20242-10	6010/7471/WTPH-D+/8310/8082/8151	6010B/7471A/NWTPH-Dx/8310/8082/8151A
J1KV57	280-20242-11	6010/7471/WTPH-D+/8310/8082/8151	6010B/7471A/NWTPH-Dx/8310/8082/8151A
J1KV58	280-20242-12	6010/7471/WTPH-D+/8310/8082/8151	6010B/7471A/NWTPH-Dx/8310/8082/8151A
J1KV59	280-20242-13	6010/7471/WTPH-D+/8310/8082/8151	6010B/7471A/NWTPH-Dx/8310/8082/8151A

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.

This report includes reporting limits (RLs) less than TestAmerica Denver's practical quantitation limits. These reporting limits are being used specifically at the client's request to meet the needs of this project. Please note that data are not normally reported to these levels without qualification, since they are inherently less reliable and potentially less defensible than required by the current NELAC standards.

The results, RLs and MDLs included in this report have been adjusted for dry weight, as appropriate.

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 9/14/2011; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 3.8 C, 3.6 C, 4.8 C and 3.4 C.

GC SEMIVOLATILES - SW846 8082 - PCBs
The laboratory noted that a Sulfuric Acid clean-up was performed on sample J1KV57 to reduce matrix interferences.

Sample J1KV57 exhibited surrogate recoveries outside the control limits. The laboratory noted that this anomaly is due to obvious matrix interference; therefore, corrective action is deemed unnecessary.

The MS aliquot of the MS/MSD performed on sample J1KV50 exhibited a percent recovery outside the control limits for Aroclor 1016, and the associated sample result has been flagged "N". In addition, the RPD limit was exceeded for Aroclor 1016, and surrogate Tetrachloro-m-xylene was recovered outside control limits in the MS. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

GC SEMIVOLATILES - SW846 8151A - HERBICIDEs
In some cases, the RPD between the primary and confirmation columns exceeded 40% 2,4-DB. The lower of the two values have been reported, as matrix interference is evident. Associated results have been flagged with an "X".

Low levels of 2,4-DB are present in the method blank associated with batch 280-86708. Because the concentration in the method blank is not present at a level greater than half the reporting limit, corrective action is deemed unnecessary. Associated sample results present above the MDL and/or RL have been flagged with a "B".

The MS/MSD performed on sample J1KV59 exhibited percent recoveries outside the control limits for Dinoseb, and the associated sample result has been flagged "N". The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

GC SEMIVOLATILES - NWTPH-Dx - DRO
No anomalies were encountered.

HPLC - SW846 8310 - PAHs
No anomalies were encountered.

TOTAL METALS - SW846 6010B/7471A
Serial dilution of a digestate in batch 280-86260 indicates that physical and chemical interferences are present for several elements. Results have been flagged with an "X".

Low levels of Chromium are present in the method blank associated with batch 280-86260. Because the concentration in the method blank is not present at a level greater than half the reporting limit, corrective action is deemed unnecessary.

It can be noted that the sample amount was greater than four times the spike amount for Aluminum, Iron and Manganese in the Matrix Spike performed on sample J1KV47; therefore, control limits are not applicable.

Silicon was recovered outside the control limits in the Matrix Spike performed on sample J1KV47, and the associated sample result has been flagged "N". There is no indication that the analytical system was operating out of control, and method accuracy has been verified by the acceptable LCS analysis data; therefore, corrective action is deemed unnecessary.

The duplicate analysis of sample J1KV47 exhibited RPD data outside the control limits for Arsenic, Silicon and Sodium, and the associated sample results have been flagged "M". There is no indication that the analytical system was operating out of control, and method accuracy has been verified by the acceptable LCS analysis data; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Lab Section	Qualifier	Description
GC Semi VOA		
	B	Analyte was found in the associated method blank as well as in the sample.
	U	Analyzed for but not detected.
	X	More than 40% difference between columns, lower result reported.
	N	MS, MSD: Spike recovery exceeds upper or lower control limits.
	*	MS/MSD RPD exceeded the control limit
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	*	Surrogate exceeds the control limit
Metals		
	U	Analyzed for but not detected.
	B	Estimated result. Result is less than the RL, but greater than MDL
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	N	Recovery exceeds upper or lower control limits
	M	Sample duplicate precision not met.
	X	Serial dilution in the analytical batch indicates that physical and chemical interferences are present.
HPLC/IC		
	U	Analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL DEN	SW846 8082	
Ultrasonic Extraction			SW846 3550C
Herbicides (GC)	TAL DEN	SW846 8151A	
Extraction (Herbicides)			SW846 8151A
Northwest - Semi-Volatile Petroleum Products (GC)	TAL DEN	NWTPH NWTPH-Dx	
Ultrasonic Extraction			SW846 3550C
PAHs (HPLC)	TAL DEN	SW846 8310	
Ultrasonic Extraction			SW846 3550C
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Metals			SW846 3050B
Mercury (CVAA)	TAL DEN	SW846 7471A	
Preparation, Mercury			SW846 7471A
ASTM D-2216	TAL DEN	ASTM D-2216	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

ASTM = ASTM International

NWTPH = Northwest Total Petroleum Hydrocarbon

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: 280-20242-1
Sdg Number: J01276

Method	Analyst	Analyst ID
SW846 8082	Jackson, Todd D	TDJ
SW846 8151A	Wells, David	DW
NWTPH NWTPH-Dx	Birdsell, Matthew R	MRB
SW846 6010B	Bowen, Heidi E	HEB
SW846 7471A	Bowen, Heidi E	HEB
ASTM D-2216	Berry III, Paul B	PBB
SW846 8310	Fiedler, Heather K	HKF

SAMPLE SUMMARY

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-20242-1	J1KV47	Solid	09/12/2011 0915	09/14/2011 0900
280-20242-2	J1KV48	Solid	09/12/2011 0750	09/14/2011 0900
280-20242-3	J1KV49	Solid	09/12/2011 0755	09/14/2011 0900
280-20242-4	J1KV50	Solid	09/12/2011 0805	09/14/2011 0900
280-20242-5	J1KV51	Solid	09/12/2011 0807	09/14/2011 0900
280-20242-6	J1KV52	Solid	09/12/2011 0810	09/14/2011 0900
280-20242-7	J1KV53	Solid	09/12/2011 0815	09/14/2011 0900
280-20242-8	J1KV54	Solid	09/12/2011 0820	09/14/2011 0900
280-20242-9	J1KV55	Solid	09/12/2011 0830	09/14/2011 0900
280-20242-10	J1KV56	Solid	09/12/2011 0835	09/14/2011 0900
280-20242-11	J1KV57	Solid	09/12/2011 0840	09/14/2011 0900
280-20242-12	J1KV58	Solid	09/12/2011 1020	09/14/2011 0900
280-20242-13	J1KV59	Solid	09/12/2011 0750	09/14/2011 0900

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV47**

Lab Sample ID: 280-20242-1
Client Matrix: Solid
% Moisture: 1.2

Date Sampled: 09/12/2011 0915
Date Received: 09/14/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-87452	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-87077	Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	09/22/2011 1401			Injection Volume:	1 uL
Prep Date:	09/21/2011 1050			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	10
Aroclor 1221		8.0	U	8.0	16
Aroclor 1232		2.0	U	2.0	10
Aroclor 1242		4.6	U	4.6	10
Aroclor 1248		4.6	U	4.6	10
Aroclor 1254		2.6	U	2.6	10
Aroclor 1260		2.6	U	2.6	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	113		59 - 130
Tetrachloro-m-xylene	98		53 - 128

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV48**

Lab Sample ID: 280-20242-2
Client Matrix: Solid
% Moisture: 1.3

Date Sampled: 09/12/2011 0750
Date Received: 09/14/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-87452	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-87077	Initial Weight/Volume:	31.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	09/22/2011 1433			Injection Volume:	1 uL
Prep Date:	09/21/2011 1050			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.7
Aroclor 1221		7.8	U	7.8	16
Aroclor 1232		1.9	U	1.9	9.7
Aroclor 1242		4.5	U	4.5	9.7
Aroclor 1248		4.5	U	4.5	9.7
Aroclor 1254		2.5	U	2.5	9.7
Aroclor 1260		2.5	U	2.5	9.7

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	113		59 - 130
Tetrachloro-m-xylene	99		53 - 128

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV49**

Lab Sample ID: 280-20242-3
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 09/12/2011 0755
Date Received: 09/14/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-87452	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-87077	Initial Weight/Volume:	31.2 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	09/22/2011 1505			Injection Volume:	1 uL
Prep Date:	09/21/2011 1050			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.7
Aroclor 1221		7.8	U	7.8	16
Aroclor 1232		1.9	U	1.9	9.7
Aroclor 1242		4.5	U	4.5	9.7
Aroclor 1248		4.5	U	4.5	9.7
Aroclor 1254		2.5	U	2.5	9.7
Aroclor 1260		2.5	U	2.5	9.7

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	108		59 - 130
Tetrachloro-m-xylene	102		53 - 128

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV50**

Lab Sample ID: 280-20242-4
Client Matrix: Solid
% Moisture: 2.8

Date Sampled: 09/12/2011 0805
Date Received: 09/14/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-87452	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-87077	Initial Weight/Volume:	31.2 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	09/22/2011 1537			Injection Volume:	1 uL
Prep Date:	09/21/2011 1050			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U N	2.7	9.9
Aroclor 1221		7.9	U	7.9	16
Aroclor 1232		2.0	U	2.0	9.9
Aroclor 1242		4.6	U	4.6	9.9
Aroclor 1248		4.6	U	4.6	9.9
Aroclor 1254		2.6	U	2.6	9.9
Aroclor 1260		2.6	U	2.6	9.9

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	108		59 - 130
Tetrachloro-m-xylene	99		53 - 128

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV51**

Lab Sample ID: 280-20242-5
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 09/12/2011 0807
Date Received: 09/14/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-87452	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-87077	Initial Weight/Volume:	31.9 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	09/22/2011 1712			Injection Volume:	1 uL
Prep Date:	09/21/2011 1050			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.6	U	2.6	9.5
Aroclor 1221		7.6	U	7.6	16
Aroclor 1232		1.9	U	1.9	9.5
Aroclor 1242		4.4	U	4.4	9.5
Aroclor 1248		4.4	U	4.4	9.5
Aroclor 1254		2.5	U	2.5	9.5
Aroclor 1260		2.5	U	2.5	9.5

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	111		59 - 130
Tetrachloro-m-xylene	100		53 - 128

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV52**

Lab Sample ID: 280-20242-6
Client Matrix: Solid
% Moisture: 1.2

Date Sampled: 09/12/2011 0810
Date Received: 09/14/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-87452	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-87077	Initial Weight/Volume:	31.5 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	09/22/2011 1744			Injection Volume:	1 uL
Prep Date:	09/21/2011 1050			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.6
Aroclor 1221		7.7	U	7.7	16
Aroclor 1232		1.9	U	1.9	9.6
Aroclor 1242		4.5	U	4.5	9.6
Aroclor 1248		4.5	U	4.5	9.6
Aroclor 1254		2.5	U	2.5	9.6
Aroclor 1260		2.5	U	2.5	9.6

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	112		59 - 130
Tetrachloro-m-xylene	97		53 - 128

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV53**

Lab Sample ID: 280-20242-7
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 09/12/2011 0815
Date Received: 09/14/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-87452	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-87077	Initial Weight/Volume:	30.3 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	09/22/2011 1848			Injection Volume:	1 uL
Prep Date:	09/21/2011 1050			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	10
Aroclor 1221		8.0	U	8.0	16
Aroclor 1232		2.0	U	2.0	10
Aroclor 1242		4.7	U	4.7	10
Aroclor 1248		4.7	U	4.7	10
Aroclor 1254		2.6	U	2.6	10
Aroclor 1260		2.6	U	2.6	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	107		59 - 130
Tetrachloro-m-xylene	93		53 - 128

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV54**

Lab Sample ID: 280-20242-8
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 09/12/2011 0820
Date Received: 09/14/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-87452	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-87077	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	09/22/2011 1920			Injection Volume:	1 uL
Prep Date:	09/21/2011 1050			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	10
Aroclor 1221		8.0	U	8.0	16
Aroclor 1232		2.0	U	2.0	10
Aroclor 1242		4.6	U	4.6	10
Aroclor 1248		4.6	U	4.6	10
Aroclor 1254		2.6	U	2.6	10
Aroclor 1260		2.6	U	2.6	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	110		59 - 130
Tetrachloro-m-xylene	95		53 - 128

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV55**

Lab Sample ID: 280-20242-9
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 09/12/2011 0830
Date Received: 09/14/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-87452	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-87077	Initial Weight/Volume:	32.2 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	09/22/2011 1951			Injection Volume:	1 uL
Prep Date:	09/21/2011 1050			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.6	U	2.6	9.4
Aroclor 1221		7.6	U	7.6	16
Aroclor 1232		1.9	U	1.9	9.4
Aroclor 1242		4.4	U	4.4	9.4
Aroclor 1248		4.4	U	4.4	9.4
Aroclor 1254		2.4	U	2.4	9.4
Aroclor 1260		2.4	U	2.4	9.4

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	106		59 - 130
Tetrachloro-m-xylene	99		53 - 128

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV56**

Lab Sample ID: 280-20242-10
Client Matrix: Solid
% Moisture: 7.6

Date Sampled: 09/12/2011 0835
Date Received: 09/14/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-87452	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-87077	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	09/22/2011 2023			Injection Volume:	1 uL
Prep Date:	09/21/2011 1050			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		3.0	U	3.0	11
Aroclor 1221		8.6	U	8.6	18
Aroclor 1232		2.1	U	2.1	11
Aroclor 1242		5.0	U	5.0	11
Aroclor 1248		5.0	U	5.0	11
Aroclor 1254		2.8	U	2.8	11
Aroclor 1260		2.8	U	2.8	11

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	111		59 - 130
Tetrachloro-m-xylene	100		53 - 128

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV57**

Lab Sample ID: 280-20242-11
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 09/12/2011 0840
Date Received: 09/14/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-87452	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-87077	Initial Weight/Volume:	32.3 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	09/22/2011 2055			Injection Volume:	1 uL
Prep Date:	09/21/2011 1050			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.6	U	2.6	9.4
Aroclor 1221		7.5	U	7.5	15
Aroclor 1232		1.9	U	1.9	9.4
Aroclor 1242		4.4	U	4.4	9.4
Aroclor 1248		4.4	U	4.4	9.4
Aroclor 1254		2.4	U	2.4	9.4
Aroclor 1260		2.4	U	2.4	9.4

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	52	*	59 - 130
Tetrachloro-m-xylene	46	*	53 - 128

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV58**

Lab Sample ID: 280-20242-12
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 09/12/2011 1020
Date Received: 09/14/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-87452	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-87077	Initial Weight/Volume:	31.1 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	09/22/2011 2127			Injection Volume:	1 uL
Prep Date:	09/21/2011 1050			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.8
Aroclor 1221		7.8	U	7.8	16
Aroclor 1232		2.0	U	2.0	9.8
Aroclor 1242		4.5	U	4.5	9.8
Aroclor 1248		4.5	U	4.5	9.8
Aroclor 1254		2.5	U	2.5	9.8
Aroclor 1260		2.5	U	2.5	9.8

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	107		59 - 130
Tetrachloro-m-xylene	100		53 - 128

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV59**

Lab Sample ID: 280-20242-13
Client Matrix: Solid
% Moisture: 1.3

Date Sampled: 09/12/2011 0750
Date Received: 09/14/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-87452	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-87077	Initial Weight/Volume:	32.0 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	09/22/2011 2158			Injection Volume:	1 uL
Prep Date:	09/21/2011 1050			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.6	U	2.6	9.5
Aroclor 1221		7.6	U	7.6	16
Aroclor 1232		1.9	U	1.9	9.5
Aroclor 1242		4.4	U	4.4	9.5
Aroclor 1248		4.4	U	4.4	9.5
Aroclor 1254		2.5	U	2.5	9.5
Aroclor 1260		2.5	U	2.5	9.5

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	111		59 - 130
Tetrachloro-m-xylene	88		53 - 128

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV47**

Lab Sample ID: 280-20242-1
Client Matrix: Solid
% Moisture: 1.2

Date Sampled: 09/12/2011 0915
Date Received: 09/14/2011 0900

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	280-87081	Instrument ID:	GCS_M
Prep Method:	8151A	Prep Batch:	280-86708	Initial Weight/Volume:	50.8 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	09/21/2011 0153			Injection Volume:	1 uL
Prep Date:	09/19/2011 1055			Result Type:	PRIMARY

Analyte DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4,5-T	2.3	U	2.3	20
2,4-Dichlorophenoxyacetic acid	14	U	14	80
2,4-DB	4.3	J B X	2.8	80
Dalapon	1.4	U	1.4	40
Dicamba	1.4	U	1.4	40
Dichlorprop	3.2	U	3.2	80
Dinoseb	1.4	U	1.4	12
MCPA	2000	U	2000	8000
2,4,5-TP (Silvex)	1.4	U	1.4	20
MCPP	2000	U	2000	8000

Surrogate	%Rec	Qualifier	Acceptance Limits
DCAA	87		31 - 105

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV48**

Lab Sample ID: 280-20242-2
Client Matrix: Solid
% Moisture: 1.3

Date Sampled: 09/12/2011 0750
Date Received: 09/14/2011 0900

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	280-87081	Instrument ID:	GCS_M
Prep Method:	8151A	Prep Batch:	280-86708	Initial Weight/Volume:	50.8 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	09/21/2011 0215			Injection Volume:	1 uL
Prep Date:	09/19/2011 1055			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4,5-T		2.3	U	2.3	20
2,4-Dichlorophenoxyacetic acid		14	U	14	80
2,4-DB		15	J B X	2.8	80
Dalapon		1.4	U	1.4	40
Dicamba		1.4	U	1.4	40
Dichlorprop		3.2	U	3.2	80
Dinoseb		1.4	U	1.4	12
MCPA		2000	U	2000	8000
2,4,5-TP (Silvex)		1.4	U	1.4	20
MCPP		2000	U	2000	8000

Surrogate	%Rec	Qualifier	Acceptance Limits
DCAA	82		31 - 105

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV49**

Lab Sample ID: 280-20242-3
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 09/12/2011 0755
Date Received: 09/14/2011 0900

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	280-87081	Instrument ID:	GCS_M
Prep Method:	8151A	Prep Batch:	280-86708	Initial Weight/Volume:	50.2 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	09/21/2011 0237			Injection Volume:	1 uL
Prep Date:	09/19/2011 1055			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4,5-T		2.3	U	2.3	20
2,4-Dichlorophenoxyacetic acid		14	U	14	80
2,4-DB		2.8	U	2.8	80
Dalapon		1.4	U	1.4	40
Dicamba		1.4	U	1.4	40
Dichlorprop		3.2	U	3.2	80
Dinoseb		1.4	U	1.4	12
MCPA		2000	U	2000	8000
2,4,5-TP (Silvex)		1.4	U	1.4	20
MCPP		2000	U	2000	8000

Surrogate	%Rec	Qualifier	Acceptance Limits
DCAA	79		31 - 105

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV50**

Lab Sample ID: 280-20242-4
Client Matrix: Solid
% Moisture: 2.8

Date Sampled: 09/12/2011 0805
Date Received: 09/14/2011 0900

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	280-87081	Instrument ID:	GCS_M
Prep Method:	8151A	Prep Batch:	280-86708	Initial Weight/Volume:	50.2 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	09/21/2011 0258			Injection Volume:	1 uL
Prep Date:	09/19/2011 1055			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4,5-T		2.4	U	2.4	21
2,4-Dichlorophenoxyacetic acid		14	U	14	82
2,4-DB		7.8	J B X	2.9	82
Dalapon		1.4	U	1.4	41
Dicamba		1.4	U	1.4	41
Dichlorprop		3.3	U	3.3	82
Dinoseb		1.4	U	1.4	12
MCPA		2100	U	2100	8200
2,4,5-TP (Silvex)		1.4	U	1.4	21
MCPP		2100	U	2100	8200

Surrogate	%Rec	Qualifier	Acceptance Limits
DCAA	66		31 - 105

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV51**

Lab Sample ID: 280-20242-5
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 09/12/2011 0807
Date Received: 09/14/2011 0900

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	280-87081	Instrument ID:	GCS_M
Prep Method:	8151A	Prep Batch:	280-86708	Initial Weight/Volume:	50.9 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	09/21/2011 0320			Injection Volume:	1 uL
Prep Date:	09/19/2011 1055			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4,5-T		2.3	U	2.3	20
2,4-Dichlorophenoxyacetic acid		14	U	14	79
2,4-DB		16	J B	2.8	79
Dalapon		1.4	U	1.4	40
Dicamba		1.4	U	1.4	40
Dichlorprop		3.2	U	3.2	79
Dinoseb		1.4	U	1.4	12
MCPA		2000	U	2000	7900
2,4,5-TP (Silvex)		1.4	U	1.4	20
MCPP		2000	U	2000	7900

Surrogate	%Rec	Qualifier	Acceptance Limits
DCAA	83		31 - 105

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV52**

Lab Sample ID: 280-20242-6
Client Matrix: Solid
% Moisture: 1.2

Date Sampled: 09/12/2011 0810
Date Received: 09/14/2011 0900

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	280-87081	Instrument ID:	GCS_M
Prep Method:	8151A	Prep Batch:	280-86708	Initial Weight/Volume:	50.7 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	09/21/2011 0341			Injection Volume:	1 uL
Prep Date:	09/19/2011 1055			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4,5-T		2.3	U	2.3	20
2,4-Dichlorophenoxyacetic acid		14	U	14	80
2,4-DB		8.7	J B	2.8	80
Dalapon		1.4	U	1.4	40
Dicamba		1.4	U	1.4	40
Dichlorprop		3.2	U	3.2	80
Dinoseb		1.4	U	1.4	12
MCPA		2000	U	2000	8000
2,4,5-TP (Silvex)		1.4	U	1.4	20
MCPP		2000	U	2000	8000

Surrogate	%Rec	Qualifier	Acceptance Limits
DCAA	69		31 - 105

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV53**

Lab Sample ID: 280-20242-7
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 09/12/2011 0815
Date Received: 09/14/2011 0900

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	280-87081	Instrument ID:	GCS_M
Prep Method:	8151A	Prep Batch:	280-86708	Initial Weight/Volume:	50.1 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	09/21/2011 0403			Injection Volume:	1 uL
Prep Date:	09/19/2011 1055			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4,5-T		2.3	U	2.3	20
2,4-Dichlorophenoxyacetic acid		14	U	14	81
2,4-DB		14	J B X	2.8	81
Dalapon		1.4	U	1.4	40
Dicamba		1.4	U	1.4	40
Dichlorprop		3.2	U	3.2	81
Dinoseb		1.4	U	1.4	12
MCPA		2000	U	2000	8100
2,4,5-TP (Silvex)		1.4	U	1.4	20
MCPP		2000	U	2000	8100

Surrogate	%Rec	Qualifier	Acceptance Limits
DCAA	78		31 - 105

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV54**

Lab Sample ID: 280-20242-8
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 09/12/2011 0820
Date Received: 09/14/2011 0900

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	280-87081	Instrument ID:	GCS_M
Prep Method:	8151A	Prep Batch:	280-86708	Initial Weight/Volume:	50.0 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	09/21/2011 0445			Injection Volume:	1 uL
Prep Date:	09/19/2011 1055			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4,5-T		2.3	U	2.3	20
2,4-Dichlorophenoxyacetic acid		14	U	14	81
2,4-DB		2.8	U	2.8	81
Dalapon		1.4	U	1.4	40
Dicamba		1.4	U	1.4	40
Dichlorprop		3.2	U	3.2	81
Dinoseb		1.4	U	1.4	12
MCPA		2000	U	2000	8100
2,4,5-TP (Silvex)		1.4	U	1.4	20
MCPP		2000	U	2000	8100

Surrogate	%Rec	Qualifier	Acceptance Limits
DCAA	65		31 - 105

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV55**

Lab Sample ID: 280-20242-9
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 09/12/2011 0830
Date Received: 09/14/2011 0900

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	280-87081	Instrument ID:	GCS_M
Prep Method:	8151A	Prep Batch:	280-86708	Initial Weight/Volume:	51.3 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	09/21/2011 0507			Injection Volume:	1 uL
Prep Date:	09/19/2011 1055			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4,5-T		2.3	U	2.3	20
2,4-Dichlorophenoxyacetic acid		14	U	14	79
2,4-DB		4.8	J B X	2.8	79
Dalapon		1.4	U	1.4	39
Dicamba		1.4	U	1.4	39
Dichlorprop		3.2	U	3.2	79
Dinoseb		1.4	U	1.4	12
MCPA		2000	U	2000	7900
2,4,5-TP (Silvex)		1.4	U	1.4	20
MCPP		2000	U	2000	7900

Surrogate	%Rec	Qualifier	Acceptance Limits
DCAA	75		31 - 105

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV56**

Lab Sample ID: 280-20242-10
Client Matrix: Solid

% Moisture: 7.6

Date Sampled: 09/12/2011 0835
Date Received: 09/14/2011 0900

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	280-87081	Instrument ID:	GCS_M
Prep Method:	8151A	Prep Batch:	280-86708	Initial Weight/Volume:	50.7 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	09/21/2011 0530			Injection Volume:	1 uL
Prep Date:	09/19/2011 1055			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4,5-T		2.5	U	2.5	21
2,4-Dichlorophenoxyacetic acid		15	U	15	85
2,4-DB		4.9	J B X	3.0	85
Dalapon		1.5	U	1.5	43
Dicamba		1.5	U	1.5	43
Dichlorprop		3.4	U	3.4	85
Dinoseb		1.5	U	1.5	13
MCPA		2100	U	2100	8500
2,4,5-TP (Silvex)		1.5	U	1.5	21
MCPP		2100	U	2100	8500

Surrogate	%Rec	Qualifier	Acceptance Limits
DCAA	95		31 - 105

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV57**

Lab Sample ID: 280-20242-11
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 09/12/2011 0840
Date Received: 09/14/2011 0900

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	280-87081	Instrument ID:	GCS_M
Prep Method:	8151A	Prep Batch:	280-86708	Initial Weight/Volume:	50.0 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	09/21/2011 0554			Injection Volume:	1 uL
Prep Date:	09/19/2011 1055			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4,5-T		2.3	U	2.3	20
2,4-Dichlorophenoxyacetic acid		14	U	14	81
2,4-DB		26	J B X	2.8	81
Dalapon		1.4	U	1.4	40
Dicamba		1.4	U	1.4	40
Dichlorprop		3.2	U	3.2	81
Dinoseb		1.4	U	1.4	12
MCPA		2000	U	2000	8100
2,4,5-TP (Silvex)		1.4	U	1.4	20
MCPP		2000	U	2000	8100

Surrogate	%Rec	Qualifier	Acceptance Limits
DCAA	74		31 - 105

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV58**

Lab Sample ID: 280-20242-12
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 09/12/2011 1020
Date Received: 09/14/2011 0900

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	280-87081	Instrument ID:	GCS_M
Prep Method:	8151A	Prep Batch:	280-86708	Initial Weight/Volume:	50.1 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	09/21/2011 0617			Injection Volume:	1 uL
Prep Date:	09/19/2011 1055			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4,5-T		2.3	U	2.3	20
2,4-Dichlorophenoxyacetic acid		14	U	14	81
2,4-DB		6.9	J B X	2.8	81
Dalapon		1.4	U	1.4	40
Dicamba		1.4	U	1.4	40
Dichlorprop		3.2	U	3.2	81
Dinoseb		1.4	U	1.4	12
MCPA		2000	U	2000	8100
2,4,5-TP (Silvex)		1.4	U	1.4	20
MCPP		2000	U	2000	8100

Surrogate	%Rec	Qualifier	Acceptance Limits
DCAA	91		31 - 105

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV59**

Lab Sample ID: 280-20242-13
Client Matrix: Solid
% Moisture: 1.3

Date Sampled: 09/12/2011 0750
Date Received: 09/14/2011 0900

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	280-87081	Instrument ID:	GCS_M
Prep Method:	8151A	Prep Batch:	280-86708	Initial Weight/Volume:	51.2 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	09/21/2011 0639			Injection Volume:	1 uL
Prep Date:	09/19/2011 1055			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4,5-T		2.3	U	2.3	20
2,4-Dichlorophenoxyacetic acid		14	U	14	79
2,4-DB		2.8	U	2.8	79
Dalapon		1.4	U	1.4	40
Dicamba		1.4	U	1.4	40
Dichlorprop		3.2	U	3.2	79
Dinoseb		1.4	U N	1.4	12
MCPA		2000	U	2000	7900
2,4,5-TP (Silvex)		1.4	U	1.4	20
MCPP		2000	U	2000	7900

Surrogate	%Rec	Qualifier	Acceptance Limits
DCAA	68		31 - 105

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV47**

Lab Sample ID: 280-20242-1
Client Matrix: Solid
% Moisture: 1.2

Date Sampled: 09/12/2011 0915
Date Received: 09/14/2011 0900

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-88226	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-86976	Lab File ID:	009F0901.D
Dilution:	1.0			Initial Weight/Volume:	30.3 g
Analysis Date:	09/26/2011 1320			Final Weight/Volume:	1000 uL
Prep Date:	09/20/2011 1640			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		2100	J	1000	4000
C10-C28		1000	J	680	4000

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	104		49 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV48**

Lab Sample ID: 280-20242-2
Client Matrix: Solid
% Moisture: 1.3

Date Sampled: 09/12/2011 0750
Date Received: 09/14/2011 0900

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-88226	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-86976	Lab File ID:	010F1001.D
Dilution:	1.0			Initial Weight/Volume:	31.7 g
Analysis Date:	09/26/2011 1354			Final Weight/Volume:	1000 uL
Prep Date:	09/20/2011 1640			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1200	J	960	3800
C10-C28		990	J	650	3800

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	101		49 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV49**

Lab Sample ID: 280-20242-3
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 09/12/2011 0755
Date Received: 09/14/2011 0900

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-88226	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-86976	Lab File ID:	011F1101.D
Dilution:	1.0			Initial Weight/Volume:	32.4 g
Analysis Date:	09/26/2011 1428			Final Weight/Volume:	1000 uL
Prep Date:	09/20/2011 1640			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		980	J	930	3700
C10-C28		880	J	630	3700

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	87		49 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV50**

Lab Sample ID: 280-20242-4
Client Matrix: Solid
% Moisture: 2.8

Date Sampled: 09/12/2011 0805
Date Received: 09/14/2011 0900

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-88226	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-86976	Lab File ID:	012F1201.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Analysis Date:	09/26/2011 1502			Final Weight/Volume:	1000 uL
Prep Date:	09/20/2011 1640			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1000	U	1000	4000
C10-C28		680	U	680	4000

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	84		49 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV51**

Lab Sample ID: 280-20242-5
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 09/12/2011 0807
Date Received: 09/14/2011 0900

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-88226	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-86976	Lab File ID:	013F1301.D
Dilution:	1.0			Initial Weight/Volume:	31.5 g
Analysis Date:	09/26/2011 1536			Final Weight/Volume:	1000 uL
Prep Date:	09/20/2011 1640			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1100	J	960	3800
C10-C28		940	J	650	3800

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	96		49 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV52**

Lab Sample ID: 280-20242-6
Client Matrix: Solid
% Moisture: 1.2

Date Sampled: 09/12/2011 0810
Date Received: 09/14/2011 0900

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-88226	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-86976	Lab File ID:	014F1401.D
Dilution:	1.0			Initial Weight/Volume:	31.8 g
Analysis Date:	09/26/2011 1610			Final Weight/Volume:	1000 uL
Prep Date:	09/20/2011 1640			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		950	U	950	3800
C10-C28		650	U	650	3800

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	88		49 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV53**

Lab Sample ID: 280-20242-7
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 09/12/2011 0815
Date Received: 09/14/2011 0900

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-88226	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-86976	Lab File ID:	015F1501.D
Dilution:	1.0			Initial Weight/Volume:	31.5 g
Analysis Date:	09/26/2011 1644			Final Weight/Volume:	1000 uL
Prep Date:	09/20/2011 1640			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		960	U	960	3800
C10-C28		650	U	650	3800

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	93		49 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV54**

Lab Sample ID: 280-20242-8
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 09/12/2011 0820
Date Received: 09/14/2011 0900

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-88226	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-86976	Lab File ID:	019F1901.D
Dilution:	1.0			Initial Weight/Volume:	31.9 g
Analysis Date:	09/26/2011 1859			Final Weight/Volume:	1000 uL
Prep Date:	09/20/2011 1640			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		980	J	950	3800
C10-C28		880	J	640	3800

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	93		49 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV55**

Lab Sample ID: 280-20242-9
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 09/12/2011 0830
Date Received: 09/14/2011 0900

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-88226	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-86976	Lab File ID:	020F2001.D
Dilution:	1.0			Initial Weight/Volume:	32.0 g
Analysis Date:	09/26/2011 1933			Final Weight/Volume:	1000 uL
Prep Date:	09/20/2011 1640			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1300	J	940	3800
C10-C28		640	U	640	3800

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	93		49 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV56**

Lab Sample ID: 280-20242-10
Client Matrix: Solid
% Moisture: 7.6

Date Sampled: 09/12/2011 0835
Date Received: 09/14/2011 0900

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-88226	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-86976	Lab File ID:	021F2101.D
Dilution:	1.0			Initial Weight/Volume:	32.2 g
Analysis Date:	09/26/2011 2006			Final Weight/Volume:	1000 uL
Prep Date:	09/20/2011 1640			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		2500	J	1000	4000
C10-C28		830	J	680	4000

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	102		49 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV57**

Lab Sample ID: 280-20242-11
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 09/12/2011 0840
Date Received: 09/14/2011 0900

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-88226	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-86976	Lab File ID:	022F2201.D
Dilution:	1.0			Initial Weight/Volume:	31.8 g
Analysis Date:	09/26/2011 2041			Final Weight/Volume:	1000 uL
Prep Date:	09/20/2011 1640			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1500	J	950	3800
C10-C28		840	J	650	3800

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	95		49 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV58**

Lab Sample ID: 280-20242-12
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 09/12/2011 1020
Date Received: 09/14/2011 0900

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-88226	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-86976	Lab File ID:	023F2301.D
Dilution:	1.0			Initial Weight/Volume:	31.2 g
Analysis Date:	09/26/2011 2115			Final Weight/Volume:	1000 uL
Prep Date:	09/20/2011 1640			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		10000		970	3900
C10-C28		2000	J	660	3900

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	102		49 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV59**

Lab Sample ID: 280-20242-13
Client Matrix: Solid
% Moisture: 1.3

Date Sampled: 09/12/2011 0750
Date Received: 09/14/2011 0900

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-88226	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-86976	Lab File ID:	024F2401.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Analysis Date:	09/26/2011 2149			Final Weight/Volume:	1000 uL
Prep Date:	09/20/2011 1640			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		980	U	980	3900
C10-C28		670	U	670	3900

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	99		49 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV47**

Lab Sample ID: 280-20242-1
Client Matrix: Solid
% Moisture: 1.2

Date Sampled: 09/12/2011 0915
Date Received: 09/14/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-87149	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-86834	Initial Weight/Volume:	32.7 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	09/23/2011 0853			Injection Volume:	20 uL
Prep Date:	09/19/2011 1735			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.3	U	9.3	93
Acenaphthylene		8.4	U	8.4	93
Anthracene		2.8	U	2.8	19
Benzo[a]anthracene		3.0	U	3.0	14
Benzo[a]pyrene		6.0	U	6.0	14
Benzo[b]fluoranthene		3.9	U	3.9	14
Benzo[g,h,i]perylene		6.7	U	6.7	28
Benzo[k]fluoranthene		3.7	U	3.7	14
Chrysene		4.5	U	4.5	37
Dibenzo(a,h)anthracene		10	U	10	28
Fluoranthene		12	U	12	37
Fluorene		4.9	U	4.9	28
Indeno[1,2,3-cd]pyrene		11	U	11	28
Naphthalene		11	U	11	93
Phenanthrene		11	U	11	37
Pyrene		11	U	11	37

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	91		72 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV48**

Lab Sample ID: 280-20242-2
Client Matrix: Solid
% Moisture: 1.3

Date Sampled: 09/12/2011 0750
Date Received: 09/14/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-87149	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-86834	Initial Weight/Volume:	31.6 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	09/23/2011 0924			Injection Volume:	20 uL
Prep Date:	09/19/2011 1735			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.6	U	9.6	96
Acenaphthylene		8.7	U	8.7	96
Anthracene		2.9	U	2.9	19
Benzo[a]anthracene		3.1	U	3.1	14
Benzo[a]pyrene		6.2	U	6.2	14
Benzo[b]fluoranthene		4.0	U	4.0	14
Benzo[g,h,i]perylene		6.9	U	6.9	29
Benzo[k]fluoranthene		3.8	U	3.8	14
Chrysene		4.7	U	4.7	38
Dibenzo(a,h)anthracene		11	U	11	29
Fluoranthene		13	U	13	38
Fluorene		5.1	U	5.1	29
Indeno[1,2,3-cd]pyrene		12	U	12	29
Naphthalene		12	U	12	96
Phenanthrene		12	U	12	38
Pyrene		12	U	12	38

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	95		72 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV49**

Lab Sample ID: 280-20242-3
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 09/12/2011 0755
Date Received: 09/14/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-87149	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-86834	Initial Weight/Volume:	30.9 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	09/23/2011 0954			Injection Volume:	20 uL
Prep Date:	09/19/2011 1735			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.8	U	9.8	98
Acenaphthylene		8.8	U	8.8	98
Anthracene		3.0	U	3.0	20
Benzo[a]anthracene		3.1	U	3.1	15
Benzo[a]pyrene		6.3	U	6.3	15
Benzo[b]fluoranthene		9.3	J	4.1	15
Benzo[g,h,i]perylene		7.1	U	7.1	29
Benzo[k]fluoranthene		3.9	J	3.9	15
Chrysene		4.7	U	4.7	39
Dibenzo(a,h)anthracene		11	U	11	29
Fluoranthene		13	U	13	39
Fluorene		5.2	U	5.2	29
Indeno[1,2,3-cd]pyrene		12	U	12	29
Naphthalene		12	U	12	98
Phenanthrene		12	U	12	39
Pyrene		12	U	12	39

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	95		72 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV50**

Lab Sample ID: 280-20242-4
Client Matrix: Solid
% Moisture: 2.8

Date Sampled: 09/12/2011 0805
Date Received: 09/14/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-87149	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-86834	Initial Weight/Volume:	31.3 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	09/23/2011 1126			Injection Volume:	20 uL
Prep Date:	09/19/2011 1735			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.9	U	9.9	99
Acenaphthylene		8.9	U	8.9	99
Anthracene		3.0	U	3.0	20
Benzo[a]anthracene		3.1	U	3.1	15
Benzo[a]pyrene		6.3	U	6.3	15
Benzo[b]fluoranthene		4.1	U	4.1	15
Benzo[g,h,i]perylene		7.1	U	7.1	30
Benzo[k]fluoranthene		3.9	U	3.9	15
Chrysene		4.8	U	4.8	39
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		13	U	13	39
Fluorene		5.2	U	5.2	30
Indeno[1,2,3-cd]pyrene		12	U	12	30
Naphthalene		12	U	12	99
Phenanthrene		12	U	12	39
Pyrene		12	U	12	39

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	92		72 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV51**

Lab Sample ID: 280-20242-5
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 09/12/2011 0807
Date Received: 09/14/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-87149	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-86834	Initial Weight/Volume:	31.7 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	09/23/2011 1157			Injection Volume:	20 uL
Prep Date:	09/19/2011 1735			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.5	U	9.5	95
Acenaphthylene		8.6	U	8.6	95
Anthracene		2.9	U	2.9	19
Benzo[a]anthracene		3.0	U	3.0	14
Benzo[a]pyrene		6.1	U	6.1	14
Benzo[b]fluoranthene		4.0	U	4.0	14
Benzo[g,h,i]perylene		6.9	U	6.9	29
Benzo[k]fluoranthene		3.8	U	3.8	14
Chrysene		4.6	U	4.6	38
Dibenzo(a,h)anthracene		11	U	11	29
Fluoranthene		12	U	12	38
Fluorene		5.0	U	5.0	29
Indeno[1,2,3-cd]pyrene		11	U	11	29
Naphthalene		11	U	11	95
Phenanthrene		11	U	11	38
Pyrene		11	U	11	38

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	95		72 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV52**

Lab Sample ID: 280-20242-6
Client Matrix: Solid
% Moisture: 1.2

Date Sampled: 09/12/2011 0810
Date Received: 09/14/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-87149	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-86834	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	09/23/2011 1227			Injection Volume:	20 uL
Prep Date:	09/19/2011 1735			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.9	U	9.9	99
Acenaphthylene		8.9	U	8.9	99
Anthracene		3.0	U	3.0	20
Benzo[a]anthracene		3.1	U	3.1	15
Benzo[a]pyrene		6.3	U	6.3	15
Benzo[b]fluoranthene		4.1	U	4.1	15
Benzo[g,h,i]perylene		7.1	U	7.1	30
Benzo[k]fluoranthene		3.9	U	3.9	15
Chrysene		4.8	U	4.8	39
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		13	U	13	39
Fluorene		5.2	U	5.2	30
Indeno[1,2,3-cd]pyrene		12	U	12	30
Naphthalene		12	U	12	99
Phenanthrene		12	U	12	39
Pyrene		12	U	12	39

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	92		72 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV53**

Lab Sample ID: 280-20242-7
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 09/12/2011 0815
Date Received: 09/14/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-87149	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-86834	Initial Weight/Volume:	31.0 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	09/23/2011 1449			Injection Volume:	20 uL
Prep Date:	09/19/2011 1735			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.8	U	9.8	98
Acenaphthylene		8.8	U	8.8	98
Anthracene		3.0	U	3.0	20
Benzo[a]anthracene		3.1	U	3.1	15
Benzo[a]pyrene		6.3	U	6.3	15
Benzo[b]fluoranthene		4.1	U	4.1	15
Benzo[g,h,i]perylene		7.0	U	7.0	29
Benzo[k]fluoranthene		3.8	U	3.8	15
Chrysene		4.7	U	4.7	39
Dibenzo(a,h)anthracene		11	U	11	29
Fluoranthene		13	U	13	39
Fluorene		5.2	U	5.2	29
Indeno[1,2,3-cd]pyrene		12	U	12	29
Naphthalene		12	U	12	98
Phenanthrene		12	U	12	39
Pyrene		12	U	12	39

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	94		72 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV54**

Lab Sample ID: 280-20242-8
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 09/12/2011 0820
Date Received: 09/14/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-87149	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-86834	Initial Weight/Volume:	31.5 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	09/23/2011 1520			Injection Volume:	20 uL
Prep Date:	09/19/2011 1735			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.6	U	9.6	96
Acenaphthylene		8.7	U	8.7	96
Anthracene		2.9	U	2.9	19
Benzo[a]anthracene		3.1	U	3.1	14
Benzo[a]pyrene		6.2	U	6.2	14
Benzo[b]fluoranthene		4.0	U	4.0	14
Benzo[g,h,i]perylene		6.9	U	6.9	29
Benzo[k]fluoranthene		3.8	U	3.8	14
Chrysene		4.7	U	4.7	39
Dibenzo(a,h)anthracene		11	U	11	29
Fluoranthene		13	U	13	39
Fluorene		5.1	U	5.1	29
Indeno[1,2,3-cd]pyrene		12	U	12	29
Naphthalene		12	U	12	96
Phenanthrene		12	U	12	39
Pyrene		12	U	12	39

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	96		72 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV55**

Lab Sample ID: 280-20242-9
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 09/12/2011 0830
Date Received: 09/14/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-87149	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-86834	Initial Weight/Volume:	32.1 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	09/23/2011 1550			Injection Volume:	20 uL
Prep Date:	09/19/2011 1735			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.4	U	9.4	94
Acenaphthylene		8.5	U	8.5	94
Anthracene		2.9	U	2.9	19
Benzo[a]anthracene		3.0	U	3.0	14
Benzo[a]pyrene		6.1	U	6.1	14
Benzo[b]fluoranthene		4.0	U	4.0	14
Benzo[g,h,i]perylene		6.8	U	6.8	28
Benzo[k]fluoranthene		3.7	U	3.7	14
Chrysene		4.6	U	4.6	38
Dibenzo(a,h)anthracene		10	U	10	28
Fluoranthene		12	U	12	38
Fluorene		5.0	U	5.0	28
Indeno[1,2,3-cd]pyrene		11	U	11	28
Naphthalene		11	U	11	94
Phenanthrene		11	U	11	38
Pyrene		11	U	11	38

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	94		72 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV56**

Lab Sample ID: 280-20242-10
Client Matrix: Solid
% Moisture: 7.6

Date Sampled: 09/12/2011 0835
Date Received: 09/14/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-87149	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-86834	Initial Weight/Volume:	31.5 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	09/23/2011 1621			Injection Volume:	20 uL
Prep Date:	09/19/2011 1735			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.3	U	9.3	100
Anthracene		3.1	U	3.1	21
Benzo[a]anthracene		3.3	U	3.3	15
Benzo[a]pyrene		6.6	U	6.6	15
Benzo[b]fluoranthene		4.3	U	4.3	15
Benzo[g,h,i]perylene		7.4	U	7.4	31
Benzo[k]fluoranthene		4.1	U	4.1	15
Chrysene		5.0	U	5.0	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		13	U	13	41
Fluorene		5.4	U	5.4	31
Indeno[1,2,3-cd]pyrene		12	U	12	31
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	41
Pyrene		12	U	12	41

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	97		72 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV57**

Lab Sample ID: 280-20242-11
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 09/12/2011 0840
Date Received: 09/14/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-87149	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-86834	Initial Weight/Volume:	31.4 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	09/23/2011 1651			Injection Volume:	20 uL
Prep Date:	09/19/2011 1735			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.7	U	9.7	97
Acenaphthylene		8.7	U	8.7	97
Anthracene		2.9	U	2.9	19
Benzo[a]anthracene		3.1	U	3.1	14
Benzo[a]pyrene		6.2	U	6.2	14
Benzo[b]fluoranthene		4.1	U	4.1	14
Benzo[g,h,i]perylene		7.0	U	7.0	29
Benzo[k]fluoranthene		3.8	U	3.8	14
Chrysene		4.7	U	4.7	39
Dibenzo(a,h)anthracene		11	U	11	29
Fluoranthene		17	J	13	39
Fluorene		5.1	U	5.1	29
Indeno[1,2,3-cd]pyrene		12	U	12	29
Naphthalene		12	U	12	97
Phenanthrene		12	U	12	39
Pyrene		15	J	12	39

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	95		72 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV58**

Lab Sample ID: 280-20242-12
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 09/12/2011 1020
Date Received: 09/14/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-87149	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-86834	Initial Weight/Volume:	31.4 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	09/23/2011 1722			Injection Volume:	20 uL
Prep Date:	09/19/2011 1735			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.7	U	9.7	97
Acenaphthylene		8.7	U	8.7	97
Anthracene		2.9	U	2.9	19
Benzo[a]anthracene		3.1	U	3.1	14
Benzo[a]pyrene		6.2	U	6.2	14
Benzo[b]fluoranthene		4.1	U	4.1	14
Benzo[g,h,i]perylene		7.0	U	7.0	29
Benzo[k]fluoranthene		3.8	U	3.8	14
Chrysene		4.7	U	4.7	39
Dibenzo(a,h)anthracene		11	U	11	29
Fluoranthene		13	U	13	39
Fluorene		5.1	U	5.1	29
Indeno[1,2,3-cd]pyrene		12	U	12	29
Naphthalene		12	U	12	97
Phenanthrene		12	U	12	39
Pyrene		12	U	12	39

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	87		72 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV59**

Lab Sample ID: 280-20242-13
Client Matrix: Solid
% Moisture: 1.3

Date Sampled: 09/12/2011 0750
Date Received: 09/14/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-87149	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-86834	Initial Weight/Volume:	31.6 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	09/23/2011 1752			Injection Volume:	20 uL
Prep Date:	09/19/2011 1735			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.6	U	9.6	96
Acenaphthylene		8.7	U	8.7	96
Anthracene		2.9	U	2.9	19
Benzo[a]anthracene		3.1	U	3.1	14
Benzo[a]pyrene		6.2	U	6.2	14
Benzo[b]fluoranthene		4.0	U	4.0	14
Benzo[g,h,i]perylene		6.9	U	6.9	29
Benzo[k]fluoranthene		3.8	U	3.8	14
Chrysene		4.7	U	4.7	38
Dibenzo(a,h)anthracene		11	U	11	29
Fluoranthene		12	U	12	38
Fluorene		5.1	U	5.1	29
Indeno[1,2,3-cd]pyrene		12	U	12	29
Naphthalene		12	U	12	96
Phenanthrene		12	U	12	38
Pyrene		12	U	12	38

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	97		72 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV47**

Lab Sample ID: 280-20242-1
Client Matrix: Solid
% Moisture: 1.2

Date Sampled: 09/12/2011 0915
Date Received: 09/14/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-88155	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86260	Lab File ID:	26a092711.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	09/27/2011 1619			Final Weight/Volume:	100 mL
Prep Date:	09/27/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7330	X	1.4	4.5
Antimony		0.34	U	0.34	0.54
Arsenic		2.5	M	0.59	0.90
Barium		53.4	X	0.068	0.45
Beryllium		0.43		0.030	0.18
Boron		1.3	B	0.88	1.8
Cadmium		0.078	B	0.037	0.18
Calcium		7530	X	12.6	44.8
Chromium		8.5	X	0.052	0.18
Cobalt		8.9	X	0.090	0.90
Copper		18.3	X	0.19	0.90
Iron		19900	X	3.4	4.5
Lead		4.6		0.24	0.45
Magnesium		4770	X	3.3	17.9
Manganese		335	X	0.090	0.90
Molybdenum		0.44	B	0.23	1.8
Nickel		11.7	X	0.11	3.6
Potassium		1090		36.7	269
Selenium		0.77	U	0.77	0.90
Silicon		626	X M N	5.1	9.0
Silver		0.14	U	0.14	0.18
Sodium		426	M	52.8	107
Vanadium		49.6	X	0.084	1.8
Zinc		46.1	X	0.36	0.90

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-86968	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-86064	Lab File ID:	110920AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	09/20/2011 0927			Final Weight/Volume:	50 mL
Prep Date:	09/19/2011 1450				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0053	U	0.0053	0.016

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV48**

Lab Sample ID: 280-20242-2
Client Matrix: Solid
% Moisture: 1.3

Date Sampled: 09/12/2011 0750
Date Received: 09/14/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-88155	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86260	Lab File ID:	26a092711.asc
Dilution:	1.0			Initial Weight/Volume:	1.15 g
Analysis Date:	09/27/2011 1630			Final Weight/Volume:	100 mL
Prep Date:	09/27/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4570	X	1.4	4.4
Antimony		0.33	U	0.33	0.53
Arsenic		0.99		0.58	0.88
Barium		49.9	X	0.067	0.44
Beryllium		0.40		0.029	0.18
Boron		0.86	U	0.86	1.8
Cadmium		0.071	B	0.036	0.18
Calcium		4740	X	12.4	44.1
Chromium		4.0	X	0.051	0.18
Cobalt		8.9	X	0.088	0.88
Copper		16.2	X	0.19	0.88
Iron		22100	X	3.3	4.4
Lead		2.3		0.24	0.44
Magnesium		4090	X	3.3	17.6
Manganese		278	X	0.088	0.88
Molybdenum		0.36	B	0.23	1.8
Nickel		7.6	X	0.11	3.5
Potassium		734		36.1	264
Selenium		0.76	U	0.76	0.88
Silicon		418	X	5.0	8.8
Silver		0.14	U	0.14	0.18
Sodium		319		52.0	106
Vanadium		57.5	X	0.083	1.8
Zinc		41.4	X	0.35	0.88

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-86968	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-86064	Lab File ID:	110920AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	09/20/2011 0936			Final Weight/Volume:	50 mL
Prep Date:	09/19/2011 1450				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0054	U	0.0054	0.017

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV49**

Lab Sample ID: 280-20242-3
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 09/12/2011 0755
Date Received: 09/14/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-88155	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86260	Lab File ID:	26a092711.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	09/27/2011 1633			Final Weight/Volume:	100 mL
Prep Date:	09/27/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7320	X	1.5	4.8
Antimony		0.37	U	0.37	0.58
Arsenic		1.9		0.63	0.96
Barium		67.5	X	0.073	0.48
Beryllium		0.43		0.032	0.19
Boron		1.5	B	0.94	1.9
Cadmium		0.11	B	0.039	0.19
Calcium		6790	X	13.5	48.0
Chromium		9.4	X	0.056	0.19
Cobalt		8.1	X	0.096	0.96
Copper		16.9	X	0.21	0.96
Iron		20600	X	3.7	4.8
Lead		4.1		0.26	0.48
Magnesium		4790	X	3.6	19.2
Manganese		328	X	0.096	0.96
Molybdenum		0.25	U	0.25	1.9
Nickel		11.4	X	0.12	3.8
Potassium		1340		39.4	288
Selenium		0.83	U	0.83	0.96
Silicon		388	X	5.4	9.6
Silver		0.15	U	0.15	0.19
Sodium		304		56.7	115
Vanadium		50.8	X	0.090	1.9
Zinc		43.7	X	0.38	0.96

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-86968	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-86064	Lab File ID:	110920AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Analysis Date:	09/20/2011 0938			Final Weight/Volume:	50 mL
Prep Date:	09/19/2011 1450				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.023		0.0050	0.015

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV50**

Lab Sample ID: 280-20242-4
Client Matrix: Solid
% Moisture: 2.8

Date Sampled: 09/12/2011 0805
Date Received: 09/14/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-88155	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86260	Lab File ID:	26a092711.asc
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	09/27/2011 1636			Final Weight/Volume:	100 mL
Prep Date:	09/27/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5490	X	1.5	4.9
Antimony		0.38	U	0.38	0.59
Arsenic		1.5		0.65	0.99
Barium		83.5	X	0.075	0.49
Beryllium		0.42		0.033	0.20
Boron		0.97	U	0.97	2.0
Cadmium		0.10	B	0.041	0.20
Calcium		6760	X	14.0	49.5
Chromium		7.1	X	0.057	0.20
Cobalt		8.4	X	0.099	0.99
Copper		16.3	X	0.21	0.99
Iron		21100	X	3.8	4.9
Lead		3.2		0.27	0.49
Magnesium		4650	X	3.7	19.8
Manganese		315	X	0.099	0.99
Molybdenum		0.26	U	0.26	2.0
Nickel		9.9	X	0.12	4.0
Potassium		976		40.6	297
Selenium		0.85	U	0.85	0.99
Silicon		316	X	5.6	9.9
Silver		0.16	U	0.16	0.20
Sodium		393		58.4	119
Vanadium		58.2	X	0.093	2.0
Zinc		42.8	X	0.39	0.99

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-86968	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-86064	Lab File ID:	110920AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.69 g
Analysis Date:	09/20/2011 0940			Final Weight/Volume:	50 mL
Prep Date:	09/19/2011 1450				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0068	B	0.0049	0.015

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV51**

Lab Sample ID: 280-20242-5
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 09/12/2011 0807
Date Received: 09/14/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-88155	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86260	Lab File ID:	26a092711.asc
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	09/27/2011 1649			Final Weight/Volume:	100 mL
Prep Date:	09/27/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4660	X	1.5	4.7
Antimony		0.36	U	0.36	0.57
Arsenic		0.85	B	0.62	0.94
Barium		45.4	X	0.072	0.47
Beryllium		0.43		0.031	0.19
Boron		0.92	U	0.92	1.9
Cadmium		0.091	B	0.039	0.19
Calcium		4700	X	13.3	47.1
Chromium		5.2	X	0.055	0.19
Cobalt		9.2	X	0.094	0.94
Copper		16.4	X	0.20	0.94
Iron		20800	X	3.6	4.7
Lead		2.4		0.25	0.47
Magnesium		4190	X	3.5	18.9
Manganese		280	X	0.094	0.94
Molybdenum		0.25	U	0.25	1.9
Nickel		9.6	X	0.12	3.8
Potassium		728		38.7	283
Selenium		0.81	U	0.81	0.94
Silicon		378	X	5.3	9.4
Silver		0.15	U	0.15	0.19
Sodium		283		55.6	113
Vanadium		61.7	X	0.089	1.9
Zinc		42.7	X	0.38	0.94

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-86968	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-86064	Lab File ID:	110920AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	09/20/2011 0943			Final Weight/Volume:	50 mL
Prep Date:	09/19/2011 1450				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.010	B	0.0051	0.016

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV52**

Lab Sample ID: 280-20242-6
Client Matrix: Solid
% Moisture: 1.2

Date Sampled: 09/12/2011 0810
Date Received: 09/14/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-88155	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86260	Lab File ID:	26a092711.asc
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	09/27/2011 1651			Final Weight/Volume:	100 mL
Prep Date:	09/27/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4060	X	1.5	4.9
Antimony		0.37	U	0.37	0.58
Arsenic		0.64	U	0.64	0.97
Barium		54.5	X	0.074	0.49
Beryllium		0.41		0.032	0.19
Boron		0.95	U	0.95	1.9
Cadmium		0.076	B	0.040	0.19
Calcium		4330	X	13.7	48.7
Chromium		5.8	X	0.056	0.19
Cobalt		8.4	X	0.097	0.97
Copper		14.6	X	0.21	0.97
Iron		21600	X	3.7	4.9
Lead		2.0		0.26	0.49
Magnesium		4350	X	3.6	19.5
Manganese		275	X	0.097	0.97
Molybdenum		0.25	U	0.25	1.9
Nickel		12.8	X	0.12	3.9
Potassium		635		39.9	292
Selenium		0.84	U	0.84	0.97
Silicon		385	X	5.5	9.7
Silver		0.16	U	0.16	0.19
Sodium		342		57.4	117
Vanadium		61.9	X	0.091	1.9
Zinc		39.6	X	0.39	0.97

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-86968	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-86064	Lab File ID:	110920AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Analysis Date:	09/20/2011 0945			Final Weight/Volume:	50 mL
Prep Date:	09/19/2011 1450				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0055	U	0.0055	0.017

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV53**

Lab Sample ID: 280-20242-7
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 09/12/2011 0815
Date Received: 09/14/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-88155	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86260	Lab File ID:	26a092711.asc
Dilution:	1.0			Initial Weight/Volume:	1.16 g
Analysis Date:	09/27/2011 1654			Final Weight/Volume:	100 mL
Prep Date:	09/27/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4650	X	1.3	4.3
Antimony		0.33	U	0.33	0.52
Arsenic		0.97		0.57	0.87
Barium		48.4	X	0.066	0.43
Beryllium		0.42		0.029	0.17
Boron		0.85	U	0.85	1.7
Cadmium		0.066	B	0.036	0.17
Calcium		6010	X	12.3	43.5
Chromium		5.6	X	0.050	0.17
Cobalt		8.2	X	0.087	0.87
Copper		15.1	X	0.19	0.87
Iron		21400	X	3.3	4.3
Lead		2.7		0.23	0.43
Magnesium		4230	X	3.2	17.4
Manganese		290	X	0.087	0.87
Molybdenum		0.23	U	0.23	1.7
Nickel		8.6	X	0.11	3.5
Potassium		772		35.6	261
Selenium		0.75	U	0.75	0.87
Silicon		385	X	4.9	8.7
Silver		0.14	U	0.14	0.17
Sodium		305		51.3	104
Vanadium		60.1	X	0.082	1.7
Zinc		41.6	X	0.35	0.87

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-86968	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-86064	Lab File ID:	110920AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Analysis Date:	09/20/2011 0947			Final Weight/Volume:	50 mL
Prep Date:	09/19/2011 1450				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0052	U	0.0052	0.016

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV54**

Lab Sample ID: 280-20242-8
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 09/12/2011 0820
Date Received: 09/14/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-88155	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86260	Lab File ID:	26a092711.asc
Dilution:	1.0			Initial Weight/Volume:	1.11 g
Analysis Date:	09/27/2011 1657			Final Weight/Volume:	100 mL
Prep Date:	09/27/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5010	X	1.4	4.6
Antimony		0.35	U	0.35	0.55
Arsenic		0.60	U	0.60	0.91
Barium		47.4	X	0.069	0.46
Beryllium		0.44		0.030	0.18
Boron		0.89	U	0.89	1.8
Cadmium		0.076	B	0.037	0.18
Calcium		5460	X	12.8	45.5
Chromium		5.1	X	0.053	0.18
Cobalt		8.9	X	0.091	0.91
Copper		16.3	X	0.20	0.91
Iron		23300	X	3.5	4.6
Lead		2.7		0.25	0.46
Magnesium		4680	X	3.4	18.2
Manganese		332	X	0.091	0.91
Molybdenum		0.24	U	0.24	1.8
Nickel		9.2	X	0.11	3.6
Potassium		807		37.3	273
Selenium		0.78	U	0.78	0.91
Silicon		414	X	5.2	9.1
Silver		0.15	U	0.15	0.18
Sodium		317		53.7	109
Vanadium		65.1	X	0.086	1.8
Zinc		45.7	X	0.36	0.91

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-86968	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-86064	Lab File ID:	110920AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	09/20/2011 0950			Final Weight/Volume:	50 mL
Prep Date:	09/19/2011 1450				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0052	U	0.0052	0.016

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV55**

Lab Sample ID: 280-20242-9
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 09/12/2011 0830
Date Received: 09/14/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-88155	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86260	Lab File ID:	26a092711.asc
Dilution:	1.0			Initial Weight/Volume:	1.00 g
Analysis Date:	09/27/2011 1659			Final Weight/Volume:	100 mL
Prep Date:	09/27/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6600	X	1.6	5.1
Antimony		0.38	U	0.38	0.61
Arsenic		1.7		0.67	1.0
Barium		45.1	X	0.077	0.51
Beryllium		0.46		0.033	0.20
Boron		0.99	U	0.99	2.0
Cadmium		0.068	B	0.041	0.20
Calcium		6670	X	14.3	50.5
Chromium		8.5	X	0.059	0.20
Cobalt		8.4	X	0.10	1.0
Copper		15.9	X	0.22	1.0
Iron		21200	X	3.8	5.1
Lead		4.0		0.27	0.51
Magnesium		5190	X	3.7	20.2
Manganese		339	X	0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		11.5	X	0.12	4.0
Potassium		1180		41.4	303
Selenium		0.87	U	0.87	1.0
Silicon		331	X	5.7	10.1
Silver		0.16	U	0.16	0.20
Sodium		289		59.6	121
Vanadium		56.1	X	0.095	2.0
Zinc		44.0	X	0.40	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-86968	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-86064	Lab File ID:	110920AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	09/20/2011 0957			Final Weight/Volume:	50 mL
Prep Date:	09/19/2011 1450				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0059	B	0.0054	0.017

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV56**

Lab Sample ID: 280-20242-10
Client Matrix: Solid
% Moisture: 7.6

Date Sampled: 09/12/2011 0835
Date Received: 09/14/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-88155	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86260	Lab File ID:	26a092711.asc
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	09/27/2011 1702			Final Weight/Volume:	100 mL
Prep Date:	09/27/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7300	X	1.5	4.9
Antimony		0.37	U	0.37	0.59
Arsenic		1.8		0.65	0.98
Barium		77.4	X	0.075	0.49
Beryllium		0.49		0.032	0.20
Boron		1.1	B	0.96	2.0
Cadmium		0.11	B	0.040	0.20
Calcium		5640	X	13.9	49.2
Chromium		9.0	X	0.057	0.20
Cobalt		9.1	X	0.098	0.98
Copper		17.5	X	0.21	0.98
Iron		22100	X	3.7	4.9
Lead		4.1		0.27	0.49
Magnesium		5020	X	3.6	19.7
Manganese		362	X	0.098	0.98
Molybdenum		0.26	U	0.26	2.0
Nickel		12.6	X	0.12	3.9
Potassium		1350		40.3	295
Selenium		0.85	U	0.85	0.98
Silicon		402	X	5.6	9.8
Silver		0.16	U	0.16	0.20
Sodium		369		58.1	118
Vanadium		59.3	X	0.093	2.0
Zinc		45.8	X	0.39	0.98

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-86968	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-86064	Lab File ID:	110920AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.68 g
Analysis Date:	09/20/2011 0959			Final Weight/Volume:	50 mL
Prep Date:	09/19/2011 1450				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0059	B	0.0053	0.016

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV57**

Lab Sample ID: 280-20242-11
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 09/12/2011 0840
Date Received: 09/14/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-88155	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86260	Lab File ID:	26a092711.asc
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	09/27/2011 1705			Final Weight/Volume:	100 mL
Prep Date:	09/27/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7360	X	1.4	4.6
Antimony		0.35	U	0.35	0.55
Arsenic		2.6		0.61	0.92
Barium		65.3	X	0.070	0.46
Beryllium		0.46		0.030	0.18
Boron		1.2	B	0.90	1.8
Cadmium		0.063	B	0.038	0.18
Calcium		7840	X	13.0	45.9
Chromium		10	X	0.053	0.18
Cobalt		8.8	X	0.092	0.92
Copper		17.4	X	0.20	0.92
Iron		21400	X	3.5	4.6
Lead		4.7		0.25	0.46
Magnesium		5280	X	3.4	18.4
Manganese		349	X	0.092	0.92
Molybdenum		0.24	U	0.24	1.8
Nickel		12.5	X	0.11	3.7
Potassium		1370		37.7	276
Selenium		0.79	U	0.79	0.92
Silicon		509	X	5.2	9.2
Silver		0.15	U	0.15	0.18
Sodium		348		54.2	110
Vanadium		55.2	X	0.086	1.8
Zinc		46.0	X	0.37	0.92

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-86968	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-86064	Lab File ID:	110920AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	09/20/2011 1001			Final Weight/Volume:	50 mL
Prep Date:	09/19/2011 1450				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0083	B	0.0053	0.016

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV58**

Lab Sample ID: 280-20242-12
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 09/12/2011 1020
Date Received: 09/14/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-88155	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86260	Lab File ID:	26a092711.asc
Dilution:	1.0			Initial Weight/Volume:	1.15 g
Analysis Date:	09/27/2011 1707			Final Weight/Volume:	100 mL
Prep Date:	09/27/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5830	X	1.4	4.4
Antimony		0.33	U	0.33	0.53
Arsenic		1.4		0.58	0.88
Barium		51.1	X	0.067	0.44
Beryllium		0.37		0.029	0.18
Boron		1.2	B	0.86	1.8
Cadmium		0.076	B	0.036	0.18
Calcium		5780	X	12.4	44.0
Chromium		6.5	X	0.051	0.18
Cobalt		7.3	X	0.088	0.88
Copper		16.0	X	0.19	0.88
Iron		18200	X	3.3	4.4
Lead		9.0		0.24	0.44
Magnesium		4310	X	3.3	17.6
Manganese		274	X	0.088	0.88
Molybdenum		0.23	U	0.23	1.8
Nickel		8.8	X	0.11	3.5
Potassium		1150		36.1	264
Selenium		0.76	U	0.76	0.88
Silicon		380	X	5.0	8.8
Silver		0.14	U	0.14	0.18
Sodium		394		51.9	106
Vanadium		48.7	X	0.083	1.8
Zinc		37.4	X	0.35	0.88

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-86968	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-86064	Lab File ID:	110920AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Analysis Date:	09/20/2011 1004			Final Weight/Volume:	50 mL
Prep Date:	09/19/2011 1450				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0062	B	0.0050	0.015

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Client Sample ID: **J1KV59**

Lab Sample ID: 280-20242-13
Client Matrix: Solid
% Moisture: 1.3

Date Sampled: 09/12/2011 0750
Date Received: 09/14/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-88155	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-86260	Lab File ID:	26a092711.asc
Dilution:	1.0			Initial Weight/Volume:	1.16 g
Analysis Date:	09/27/2011 1710			Final Weight/Volume:	100 mL
Prep Date:	09/27/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		3940	X	1.4	4.4
Antimony		0.33	U	0.33	0.52
Arsenic		0.63	B	0.58	0.87
Barium		50.6	X	0.066	0.44
Beryllium		0.40		0.029	0.17
Boron		0.86	U	0.86	1.7
Cadmium		0.081	B	0.036	0.17
Calcium		4730	X	12.3	43.7
Chromium		3.9	X	0.051	0.17
Cobalt		8.6	X	0.087	0.87
Copper		16.3	X	0.19	0.87
Iron		22000	X	3.3	4.4
Lead		2.2		0.24	0.44
Magnesium		3750	X	3.2	17.5
Manganese		294	X	0.087	0.87
Molybdenum		0.23	U	0.23	1.7
Nickel		6.8	X	0.11	3.5
Potassium		700		35.8	262
Selenium		0.75	U	0.75	0.87
Silicon		376	X	4.9	8.7
Silver		0.14	U	0.14	0.17
Sodium		302		51.5	105
Vanadium		58.4	X	0.082	1.7
Zinc		41.3	X	0.35	0.87

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-86968	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-86064	Lab File ID:	110920AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	09/20/2011 1006			Final Weight/Volume:	50 mL
Prep Date:	09/19/2011 1450				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0054	U	0.0054	0.017

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

General Chemistry

Client Sample ID: **J1KV47**

Lab Sample ID: 280-20242-1
Client Matrix: Solid

Date Sampled: 09/12/2011 0915
Date Received: 09/14/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	1.2		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-86903 Analysis Date: 09/20/2011 1014 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

General Chemistry

Client Sample ID: **J1KV48**

Lab Sample ID: 280-20242-2
Client Matrix: Solid

Date Sampled: 09/12/2011 0750
Date Received: 09/14/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	1.3		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-86903 Analysis Date: 09/20/2011 1014 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

General Chemistry

Client Sample ID: **J1KV49**

Lab Sample ID: 280-20242-3
Client Matrix: Solid

Date Sampled: 09/12/2011 0755
Date Received: 09/14/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.88		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-86903 Analysis Date: 09/20/2011 1014 Dry/A Corrected: N

General Chemistry

Client Sample ID: **J1KV50**

Lab Sample ID: 280-20242-4
Client Matrix: Solid

Date Sampled: 09/12/2011 0805
Date Received: 09/14/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	2.8		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-86903 Analysis Date: 09/20/2011 1014 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

General Chemistry

Client Sample ID: **J1KV51**

Lab Sample ID: 280-20242-5
Client Matrix: Solid

Date Sampled: 09/12/2011 0807
Date Received: 09/14/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.86		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-86903 Analysis Date: 09/20/2011 1014 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

General Chemistry

Client Sample ID: **J1KV52**

Lab Sample ID: 280-20242-6
Client Matrix: Solid

Date Sampled: 09/12/2011 0810
Date Received: 09/14/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	1.2		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-86903 Analysis Date: 09/20/2011 1014 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

General Chemistry

Client Sample ID: **J1KV53**

Lab Sample ID: 280-20242-7
Client Matrix: Solid

Date Sampled: 09/12/2011 0815
Date Received: 09/14/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.85		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-86903 Analysis Date: 09/20/2011 1014 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1KV54**

Lab Sample ID: 280-20242-8
Client Matrix: Solid

Date Sampled: 09/12/2011 0820
Date Received: 09/14/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	1.1		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-86903 Analysis Date: 09/20/2011 1014 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

General Chemistry

Client Sample ID: **J1KV55**

Lab Sample ID: 280-20242-9
Client Matrix: Solid

Date Sampled: 09/12/2011 0830
Date Received: 09/14/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	1.1		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-86903 Analysis Date: 09/20/2011 1014 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

General Chemistry

Client Sample ID: **J1KV56**

Lab Sample ID: 280-20242-10
Client Matrix: Solid

Date Sampled: 09/12/2011 0835
Date Received: 09/14/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	7.6		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-86903 Analysis Date: 09/20/2011 1014 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

General Chemistry

Client Sample ID: **J1KV57**

Lab Sample ID: 280-20242-11
Client Matrix: Solid

Date Sampled: 09/12/2011 0840
Date Received: 09/14/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	1.1		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-86903 Analysis Date: 09/20/2011 1014 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

General Chemistry

Client Sample ID: **J1KV58**

Lab Sample ID: 280-20242-12
Client Matrix: Solid

Date Sampled: 09/12/2011 1020
Date Received: 09/14/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	1.1		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-86903 Analysis Date: 09/20/2011 1014 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1KV59**

Lab Sample ID: 280-20242-13
Client Matrix: Solid

Date Sampled: 09/12/2011 0750
Date Received: 09/14/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	1.3		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-86903 Analysis Date: 09/20/2011 1014 DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-86708					
LCS 280-86708/2-A	Lab Control Sample	T	Solid	8151A	
MB 280-86708/1-A	Method Blank	T	Solid	8151A	
280-20242-1	J1KV47	T	Solid	8151A	
280-20242-2	J1KV48	T	Solid	8151A	
280-20242-3	J1KV49	T	Solid	8151A	
280-20242-4	J1KV50	T	Solid	8151A	
280-20242-5	J1KV51	T	Solid	8151A	
280-20242-6	J1KV52	T	Solid	8151A	
280-20242-7	J1KV53	T	Solid	8151A	
280-20242-8	J1KV54	T	Solid	8151A	
280-20242-9	J1KV55	T	Solid	8151A	
280-20242-10	J1KV56	T	Solid	8151A	
280-20242-11	J1KV57	T	Solid	8151A	
280-20242-12	J1KV58	T	Solid	8151A	
280-20242-13	J1KV59	T	Solid	8151A	
280-20242-13MS	Matrix Spike	T	Solid	8151A	
280-20242-13MSD	Matrix Spike Duplicate	T	Solid	8151A	
Prep Batch: 280-86976					
LCS 280-86976/2-A	Lab Control Sample	T	Solid	3550C	
LCSD 280-86976/3-A	Lab Control Sample Duplicate	T	Solid	3550C	
MB 280-86976/1-A	Method Blank	T	Solid	3550C	
280-20242-1	J1KV47	T	Solid	3550C	
280-20242-2	J1KV48	T	Solid	3550C	
280-20242-3	J1KV49	T	Solid	3550C	
280-20242-4	J1KV50	T	Solid	3550C	
280-20242-5	J1KV51	T	Solid	3550C	
280-20242-6	J1KV52	T	Solid	3550C	
280-20242-7	J1KV53	T	Solid	3550C	
280-20242-7MS	Matrix Spike	T	Solid	3550C	
280-20242-7MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-20242-8	J1KV54	T	Solid	3550C	
280-20242-9	J1KV55	T	Solid	3550C	
280-20242-10	J1KV56	T	Solid	3550C	
280-20242-11	J1KV57	T	Solid	3550C	
280-20242-12	J1KV58	T	Solid	3550C	
280-20242-13	J1KV59	T	Solid	3550C	

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-87077					
LCS 280-87077/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-87077/1-A	Method Blank	T	Solid	3550C	
280-20242-1	J1KV47	T	Solid	3550C	
280-20242-2	J1KV48	T	Solid	3550C	
280-20242-3	J1KV49	T	Solid	3550C	
280-20242-4	J1KV50	T	Solid	3550C	
280-20242-4MS	Matrix Spike	T	Solid	3550C	
280-20242-4MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-20242-5	J1KV51	T	Solid	3550C	
280-20242-6	J1KV52	T	Solid	3550C	
280-20242-7	J1KV53	T	Solid	3550C	
280-20242-8	J1KV54	T	Solid	3550C	
280-20242-9	J1KV55	T	Solid	3550C	
280-20242-10	J1KV56	T	Solid	3550C	
280-20242-11	J1KV57	T	Solid	3550C	
280-20242-12	J1KV58	T	Solid	3550C	
280-20242-13	J1KV59	T	Solid	3550C	
Analysis Batch:280-87081					
LCS 280-86708/2-A	Lab Control Sample	T	Solid	8151A	280-86708
MB 280-86708/1-A	Method Blank	T	Solid	8151A	280-86708
280-20242-1	J1KV47	T	Solid	8151A	280-86708
280-20242-2	J1KV48	T	Solid	8151A	280-86708
280-20242-3	J1KV49	T	Solid	8151A	280-86708
280-20242-4	J1KV50	T	Solid	8151A	280-86708
280-20242-5	J1KV51	T	Solid	8151A	280-86708
280-20242-6	J1KV52	T	Solid	8151A	280-86708
280-20242-7	J1KV53	T	Solid	8151A	280-86708
280-20242-8	J1KV54	T	Solid	8151A	280-86708
280-20242-9	J1KV55	T	Solid	8151A	280-86708
280-20242-10	J1KV56	T	Solid	8151A	280-86708
280-20242-11	J1KV57	T	Solid	8151A	280-86708
280-20242-12	J1KV58	T	Solid	8151A	280-86708
280-20242-13	J1KV59	T	Solid	8151A	280-86708
280-20242-13MS	Matrix Spike	T	Solid	8151A	280-86708
280-20242-13MSD	Matrix Spike Duplicate	T	Solid	8151A	280-86708

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:280-87452					
LCS 280-87077/2-A	Lab Control Sample	T	Solid	8082	280-87077
MB 280-87077/1-A	Method Blank	T	Solid	8082	280-87077
280-20242-1	J1KV47	T	Solid	8082	280-87077
280-20242-2	J1KV48	T	Solid	8082	280-87077
280-20242-3	J1KV49	T	Solid	8082	280-87077
280-20242-4	J1KV50	T	Solid	8082	280-87077
280-20242-4MS	Matrix Spike	T	Solid	8082	280-87077
280-20242-4MSD	Matrix Spike Duplicate	T	Solid	8082	280-87077
280-20242-5	J1KV51	T	Solid	8082	280-87077
280-20242-6	J1KV52	T	Solid	8082	280-87077
280-20242-7	J1KV53	T	Solid	8082	280-87077
280-20242-8	J1KV54	T	Solid	8082	280-87077
280-20242-9	J1KV55	T	Solid	8082	280-87077
280-20242-10	J1KV56	T	Solid	8082	280-87077
280-20242-11	J1KV57	T	Solid	8082	280-87077
280-20242-12	J1KV58	T	Solid	8082	280-87077
280-20242-13	J1KV59	T	Solid	8082	280-87077
Analysis Batch:280-88226					
LCS 280-86976/2-A	Lab Control Sample	T	Solid	NWTPH-Dx	280-86976
LCSD 280-86976/3-A	Lab Control Sample Duplicate	T	Solid	NWTPH-Dx	280-86976
MB 280-86976/1-A	Method Blank	T	Solid	NWTPH-Dx	280-86976
280-20242-1	J1KV47	T	Solid	NWTPH-Dx	280-86976
280-20242-2	J1KV48	T	Solid	NWTPH-Dx	280-86976
280-20242-3	J1KV49	T	Solid	NWTPH-Dx	280-86976
280-20242-4	J1KV50	T	Solid	NWTPH-Dx	280-86976
280-20242-5	J1KV51	T	Solid	NWTPH-Dx	280-86976
280-20242-6	J1KV52	T	Solid	NWTPH-Dx	280-86976
280-20242-7	J1KV53	T	Solid	NWTPH-Dx	280-86976
280-20242-7MS	Matrix Spike	T	Solid	NWTPH-Dx	280-86976
280-20242-7MSD	Matrix Spike Duplicate	T	Solid	NWTPH-Dx	280-86976
280-20242-8	J1KV54	T	Solid	NWTPH-Dx	280-86976
280-20242-9	J1KV55	T	Solid	NWTPH-Dx	280-86976
280-20242-10	J1KV56	T	Solid	NWTPH-Dx	280-86976
280-20242-11	J1KV57	T	Solid	NWTPH-Dx	280-86976
280-20242-12	J1KV58	T	Solid	NWTPH-Dx	280-86976
280-20242-13	J1KV59	T	Solid	NWTPH-Dx	280-86976

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-86064					
LCS 280-86064/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-86064/1-A	Method Blank	T	Solid	7471A	
280-20242-1	J1KV47	T	Solid	7471A	
280-20242-1DU	Duplicate	T	Solid	7471A	
280-20242-1MS	Matrix Spike	T	Solid	7471A	
280-20242-2	J1KV48	T	Solid	7471A	
280-20242-3	J1KV49	T	Solid	7471A	
280-20242-4	J1KV50	T	Solid	7471A	
280-20242-5	J1KV51	T	Solid	7471A	
280-20242-6	J1KV52	T	Solid	7471A	
280-20242-7	J1KV53	T	Solid	7471A	
280-20242-8	J1KV54	T	Solid	7471A	
280-20242-9	J1KV55	T	Solid	7471A	
280-20242-10	J1KV56	T	Solid	7471A	
280-20242-11	J1KV57	T	Solid	7471A	
280-20242-12	J1KV58	T	Solid	7471A	
280-20242-13	J1KV59	T	Solid	7471A	
Prep Batch: 280-86260					
LCS 280-86260/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-86260/1-A	Method Blank	T	Solid	3050B	
280-20242-1	J1KV47	T	Solid	3050B	
280-20242-1DU	Duplicate	T	Solid	3050B	
280-20242-1MS	Matrix Spike	T	Solid	3050B	
280-20242-2	J1KV48	T	Solid	3050B	
280-20242-3	J1KV49	T	Solid	3050B	
280-20242-4	J1KV50	T	Solid	3050B	
280-20242-5	J1KV51	T	Solid	3050B	
280-20242-6	J1KV52	T	Solid	3050B	
280-20242-7	J1KV53	T	Solid	3050B	
280-20242-8	J1KV54	T	Solid	3050B	
280-20242-9	J1KV55	T	Solid	3050B	
280-20242-10	J1KV56	T	Solid	3050B	
280-20242-11	J1KV57	T	Solid	3050B	
280-20242-12	J1KV58	T	Solid	3050B	
280-20242-13	J1KV59	T	Solid	3050B	

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-86968					
LCS 280-86064/2-A	Lab Control Sample	T	Solid	7471A	280-86064
MB 280-86064/1-A	Method Blank	T	Solid	7471A	280-86064
280-20242-1	J1KV47	T	Solid	7471A	280-86064
280-20242-1DU	Duplicate	T	Solid	7471A	280-86064
280-20242-1MS	Matrix Spike	T	Solid	7471A	280-86064
280-20242-2	J1KV48	T	Solid	7471A	280-86064
280-20242-3	J1KV49	T	Solid	7471A	280-86064
280-20242-4	J1KV50	T	Solid	7471A	280-86064
280-20242-5	J1KV51	T	Solid	7471A	280-86064
280-20242-6	J1KV52	T	Solid	7471A	280-86064
280-20242-7	J1KV53	T	Solid	7471A	280-86064
280-20242-8	J1KV54	T	Solid	7471A	280-86064
280-20242-9	J1KV55	T	Solid	7471A	280-86064
280-20242-10	J1KV56	T	Solid	7471A	280-86064
280-20242-11	J1KV57	T	Solid	7471A	280-86064
280-20242-12	J1KV58	T	Solid	7471A	280-86064
280-20242-13	J1KV59	T	Solid	7471A	280-86064
Analysis Batch:280-88155					
LCS 280-86260/2-A	Lab Control Sample	T	Solid	6010B	280-86260
MB 280-86260/1-A	Method Blank	T	Solid	6010B	280-86260
280-20242-1	J1KV47	T	Solid	6010B	280-86260
280-20242-1DU	Duplicate	T	Solid	6010B	280-86260
280-20242-1MS	Matrix Spike	T	Solid	6010B	280-86260
280-20242-2	J1KV48	T	Solid	6010B	280-86260
280-20242-3	J1KV49	T	Solid	6010B	280-86260
280-20242-4	J1KV50	T	Solid	6010B	280-86260
280-20242-5	J1KV51	T	Solid	6010B	280-86260
280-20242-6	J1KV52	T	Solid	6010B	280-86260
280-20242-7	J1KV53	T	Solid	6010B	280-86260
280-20242-8	J1KV54	T	Solid	6010B	280-86260
280-20242-9	J1KV55	T	Solid	6010B	280-86260
280-20242-10	J1KV56	T	Solid	6010B	280-86260
280-20242-11	J1KV57	T	Solid	6010B	280-86260
280-20242-12	J1KV58	T	Solid	6010B	280-86260
280-20242-13	J1KV59	T	Solid	6010B	280-86260

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-86903					
280-20242-1	J1KV47	T	Solid	D-2216	
280-20242-1DU	Duplicate	T	Solid	D-2216	
280-20242-2	J1KV48	T	Solid	D-2216	
280-20242-3	J1KV49	T	Solid	D-2216	
280-20242-4	J1KV50	T	Solid	D-2216	
280-20242-5	J1KV51	T	Solid	D-2216	
280-20242-6	J1KV52	T	Solid	D-2216	
280-20242-7	J1KV53	T	Solid	D-2216	
280-20242-8	J1KV54	T	Solid	D-2216	
280-20242-9	J1KV55	T	Solid	D-2216	
280-20242-10	J1KV56	T	Solid	D-2216	
280-20242-11	J1KV57	T	Solid	D-2216	
280-20242-12	J1KV58	T	Solid	D-2216	
280-20242-13	J1KV59	T	Solid	D-2216	

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
HPLC/IC					
Prep Batch: 280-86834					
LCS 280-86834/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-86834/1-A	Method Blank	T	Solid	3550C	
280-20242-1	J1KV47	T	Solid	3550C	
280-20242-2	J1KV48	T	Solid	3550C	
280-20242-3	J1KV49	T	Solid	3550C	
280-20242-3MS	Matrix Spike	T	Solid	3550C	
280-20242-3MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-20242-4	J1KV50	T	Solid	3550C	
280-20242-5	J1KV51	T	Solid	3550C	
280-20242-6	J1KV52	T	Solid	3550C	
280-20242-7	J1KV53	T	Solid	3550C	
280-20242-8	J1KV54	T	Solid	3550C	
280-20242-9	J1KV55	T	Solid	3550C	
280-20242-10	J1KV56	T	Solid	3550C	
280-20242-11	J1KV57	T	Solid	3550C	
280-20242-12	J1KV58	T	Solid	3550C	
280-20242-13	J1KV59	T	Solid	3550C	
Analysis Batch:280-87149					
LCS 280-86834/2-A	Lab Control Sample	T	Solid	8310	280-86834
MB 280-86834/1-A	Method Blank	T	Solid	8310	280-86834
280-20242-1	J1KV47	T	Solid	8310	280-86834
280-20242-2	J1KV48	T	Solid	8310	280-86834
280-20242-3	J1KV49	T	Solid	8310	280-86834
280-20242-3MS	Matrix Spike	T	Solid	8310	280-86834
280-20242-3MSD	Matrix Spike Duplicate	T	Solid	8310	280-86834
280-20242-4	J1KV50	T	Solid	8310	280-86834
280-20242-5	J1KV51	T	Solid	8310	280-86834
280-20242-6	J1KV52	T	Solid	8310	280-86834
280-20242-7	J1KV53	T	Solid	8310	280-86834
280-20242-8	J1KV54	T	Solid	8310	280-86834
280-20242-9	J1KV55	T	Solid	8310	280-86834
280-20242-10	J1KV56	T	Solid	8310	280-86834
280-20242-11	J1KV57	T	Solid	8310	280-86834
280-20242-12	J1KV58	T	Solid	8310	280-86834
280-20242-13	J1KV59	T	Solid	8310	280-86834

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Method Blank - Batch: 280-87077

Method: 8082
Preparation: 3550C

Lab Sample ID:	MB 280-87077/1-A	Analysis Batch:	280-87452	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-87077	Lab File ID:	004F0401.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.4 g
Analysis Date:	09/22/2011 1257	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	09/21/2011 1050			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Aroclor 1016	2.6	U	2.6	9.6
Aroclor 1221	7.7	U	7.7	16
Aroclor 1232	1.9	U	1.9	9.6
Aroclor 1242	4.5	U	4.5	9.6
Aroclor 1248	4.5	U	4.5	9.6
Aroclor 1254	2.5	U	2.5	9.6
Aroclor 1260	2.5	U	2.5	9.6

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	92	59 - 130
Tetrachloro-m-xylene	97	53 - 128

Lab Control Sample - Batch: 280-87077

Method: 8082
Preparation: 3550C

Lab Sample ID:	LCS 280-87077/2-A	Analysis Batch:	280-87452	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-87077	Lab File ID:	005F0501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.1 g
Analysis Date:	09/22/2011 1329	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	09/21/2011 1050			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	31.2	29.8	96	54 - 132	
Aroclor 1260	31.2	33.9	109	62 - 129	

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	108	59 - 130
Tetrachloro-m-xylene	96	53 - 128

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-87077

Method: 8082
Preparation: 3550C

MS Lab Sample ID:	280-20242-4	Analysis Batch:	280-87452	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-87077	Lab File ID:	010F1001.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.5 g
Analysis Date:	09/22/2011 1608			Final Weight/Volume:	5000 uL
Prep Date:	09/21/2011 1050			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-20242-4	Analysis Batch:	280-87452	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-87077	Lab File ID:	011F1101.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.6 g
Analysis Date:	09/22/2011 1640			Final Weight/Volume:	5000 uL
Prep Date:	09/21/2011 1050			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aroclor 1016	48	98	54 - 132	66	26	N	*
Aroclor 1260	85	113	62 - 129	25	26		

Surrogate	MS % Rec		MSD % Rec	Acceptance Limits
Decachlorobiphenyl	98		114	59 - 130
Tetrachloro-m-xylene	40	*	98	53 - 128

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Method Blank - Batch: 280-86708

Method: 8151A
Preparation: 8151A

Lab Sample ID:	MB 280-86708/1-A	Analysis Batch:	280-87081	Instrument ID:	GCS_M
Client Matrix:	Solid	Prep Batch:	280-86708	Lab File ID:	063B6301.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50.5 g
Analysis Date:	09/21/2011 0746	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	09/19/2011 1055			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
2,4,5-T	2.3	U	2.3	20
2,4-Dichlorophenoxyacetic acid	14	U	14	79
2,4-DB	4.44	J	2.8	79
Dalapon	1.4	U	1.4	40
Dicamba	1.4	U	1.4	40
Dichlorprop	3.2	U	3.2	79
Dinoseb	1.4	U	1.4	12
MCPA	2000	U	2000	7900
2,4,5-TP (Silvex)	1.4	U	1.4	20
MCPP	2000	U	2000	7900

Surrogate	% Rec	Acceptance Limits
DCAA	80	31 - 105

Lab Control Sample - Batch: 280-86708

Method: 8151A
Preparation: 8151A

Lab Sample ID:	LCS 280-86708/2-A	Analysis Batch:	280-87081	Instrument ID:	GCS_M
Client Matrix:	Solid	Prep Batch:	280-86708	Lab File ID:	046B4601.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50.0 g
Analysis Date:	09/21/2011 0132	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	09/19/2011 1055			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4,5-T	96.0	75.9	79	24 - 115	
2,4-Dichlorophenoxyacetic acid	92.0	78.2	85	32 - 115	J
2,4-DB	100	59.2	59	37 - 119	J
Dalapon	104	61.7	59	11 - 115	
Dicamba	92.0	72.0	78	11 - 115	
Dichlorprop	92.0	65.1	71	35 - 115	J
Dinoseb	92.0	4.20	5	5 - 166	J
MCPA	9320	7590	81	37 - 115	J
2,4,5-TP (Silvex)	92.0	72.8	79	53 - 134	
MCPP	9330	8170	88	48 - 132	

Surrogate	% Rec	Acceptance Limits
DCAA	74	31 - 105

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-86708

Method: 8151A
Preparation: 8151A

MS Lab Sample ID:	280-20242-13	Analysis Batch:	280-87081	Instrument ID:	GCS_M
Client Matrix:	Solid	Prep Batch:	280-86708	Lab File ID:	061B6101.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50.2 g
Analysis Date:	09/21/2011 0700			Final Weight/Volume:	10000 uL
Prep Date:	09/19/2011 1055			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-20242-13	Analysis Batch:	280-87081	Instrument ID:	GCS_M
Client Matrix:	Solid	Prep Batch:	280-86708	Lab File ID:	062B6201.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	51.1 g
Analysis Date:	09/21/2011 0721			Final Weight/Volume:	10000 uL
Prep Date:	09/19/2011 1055			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2,4,5-T	76	77	24 - 115	1	40		
2,4-Dichlorophenoxyacetic acid	77	81	32 - 115	3	40	J	J
2,4-DB	56	55	37 - 119	3	50	J	J
Dalapon	66	68	11 - 115	1	50		
Dicamba	78	79	11 - 115	1	50		
Dichlorprop	68	67	35 - 115	3	50	J	J
Dinoseb	2	0	5 - 166	NC	50	J N	U N
MCPA	75	76	37 - 115	0	50	J	J
2,4,5-TP (Silvex)	75	76	53 - 134	1	40		
MCPP	85	85	48 - 132	3	50	J	J

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
DCAA	68	74	31 - 105

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Method Blank - Batch: 280-86976

Method: NWTPH-Dx
Preparation: 3550C

Lab Sample ID:	MB 280-86976/1-A	Analysis Batch:	280-88226	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-86976	Lab File ID:	005F0501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.4 g
Analysis Date:	09/26/2011 1103	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	09/20/2011 1640			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
C10-C36	950	U	950	3800
C10-C28	650	U	650	3800

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	87	49 - 115

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-86976

Method: NWTPH-Dx
Preparation: 3550C

LCS Lab Sample ID:	LCS 280-86976/2-A	Analysis Batch:	280-88226	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-86976	Lab File ID:	006F0601.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.4 g
Analysis Date:	09/26/2011 1137	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	09/20/2011 1640			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-86976/3-A	Analysis Batch:	280-88226	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-86976	Lab File ID:	008F0801.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.2 g
Analysis Date:	09/26/2011 1245	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	09/20/2011 1640			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
C10-C36	87	95	57 - 115	6	23		
C10-C28	87	95	53 - 115	6	23		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
o-Terphenyl	83	83	49 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-86976

Method: NWTPH-Dx
Preparation: 3550C

MS Lab Sample ID:	280-20242-7	Analysis Batch:	280-88226	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-86976	Lab File ID:	017F1701.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.3 g
Analysis Date:	09/26/2011 1752			Final Weight/Volume:	1000 uL
Prep Date:	09/20/2011 1640			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-20242-7	Analysis Batch:	280-88226	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-86976	Lab File ID:	018F1801.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.3 g
Analysis Date:	09/26/2011 1826			Final Weight/Volume:	1000 uL
Prep Date:	09/20/2011 1640			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
C10-C36	87	89	57 - 115	2	23		
C10-C28	87	89	56 - 115	1	23		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
o-Terphenyl	77	73	49 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Method Blank - Batch: 280-86834

Method: 8310
Preparation: 3550C

Lab Sample ID:	MB 280-86834/1-A	Analysis Batch:	280-87149	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-86834	Lab File ID:	SIG10081.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.3 g
Analysis Date:	09/23/2011 0752	Units:	ug/Kg	Final Weight/Volume:	4000 uL
Prep Date:	09/19/2011 1735			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Acenaphthene	9.9	U	9.9	99
Acenaphthylene	8.9	U	8.9	99
Anthracene	3.0	U	3.0	20
Benzo[a]anthracene	3.2	U	3.2	15
Benzo[a]pyrene	6.3	U	6.3	15
Benzo[b]fluoranthene	4.2	U	4.2	15
Benzo[g,h,i]perylene	7.1	U	7.1	30
Benzo[k]fluoranthene	3.9	U	3.9	15
Chrysene	4.8	U	4.8	40
Dibenzo(a,h)anthracene	11	U	11	30
Fluoranthene	13	U	13	40
Fluorene	5.2	U	5.2	30
Indeno[1,2,3-cd]pyrene	12	U	12	30
Naphthalene	12	U	12	99
Phenanthrene	12	U	12	40
Pyrene	12	U	12	40

Surrogate	% Rec	Acceptance Limits
Terphenyl-d14 (SUR)	95	72 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Lab Control Sample - Batch: 280-86834

Method: 8310
Preparation: 3550C

Lab Sample ID:	LCS 280-86834/2-A	Analysis Batch:	280-87149	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-86834	Lab File ID:	SIG10082.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.2 g
Analysis Date:	09/23/2011 0823	Units:	ug/Kg	Final Weight/Volume:	4000 uL
Prep Date:	09/19/2011 1735			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	1920	2050	107	78 - 116	
Acenaphthylene	1920	1900	99	76 - 115	
Anthracene	1920	1920	100	74 - 115	
Benzo[a]anthracene	1920	2090	109	85 - 120	
Benzo[a]pyrene	1920	1990	103	74 - 121	
Benzo[b]fluoranthene	1920	2050	107	85 - 115	
Benzo[g,h,i]perylene	1920	2130	111	85 - 120	
Benzo[k]fluoranthene	1920	1990	104	85 - 115	
Chrysene	1920	1980	103	83 - 115	
Dibenzo(a,h)anthracene	1920	2040	106	83 - 115	
Fluoranthene	1920	2040	106	83 - 115	
Fluorene	1920	1970	102	80 - 115	
Indeno[1,2,3-cd]pyrene	1920	2100	109	85 - 123	
Naphthalene	1920	1930	100	80 - 121	
Phenanthrene	1920	2010	104	80 - 115	
Pyrene	1920	1990	104	75 - 116	

Surrogate	% Rec	Acceptance Limits
Terphenyl-d14 (SUR)	95	72 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-86834

Method: 8310
Preparation: 3550C

MS Lab Sample ID:	280-20242-3	Analysis Batch:	280-87149	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-86834	Lab File ID:	SIG10086.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.6 g
Analysis Date:	09/23/2011 1025			Final Weight/Volume:	4000 uL
Prep Date:	09/19/2011 1735			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-20242-3	Analysis Batch:	280-87149	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-86834	Lab File ID:	SIG10087.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.9 g
Analysis Date:	09/23/2011 1056			Final Weight/Volume:	4000 uL
Prep Date:	09/19/2011 1735			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	103	102	78 - 116	4	20		
Acenaphthylene	95	94	76 - 115	4	21		
Anthracene	95	96	74 - 115	6	20		
Benzo[a]anthracene	104	107	85 - 120	8	20		
Benzo[a]pyrene	99	101	74 - 121	7	20		
Benzo[b]fluoranthene	102	105	85 - 115	8	20		
Benzo[g,h,i]perylene	107	109	85 - 120	8	20		
Benzo[k]fluoranthene	100	102	85 - 115	8	20		
Chrysene	95	98	83 - 115	8	20		
Dibenzo(a,h)anthracene	102	105	83 - 115	8	20		
Fluoranthene	102	104	83 - 115	8	20		
Fluorene	98	97	80 - 115	4	20		
Indeno[1,2,3-cd]pyrene	105	108	85 - 123	8	20		
Naphthalene	95	93	80 - 121	3	20		
Phenanthrene	99	100	80 - 115	6	20		
Pyrene	100	102	75 - 116	7	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Terphenyl-d14 (SUR)	91	93	72 - 115

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Method Blank - Batch: 280-86260

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-86260/1-A	Analysis Batch:	280-88155	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-86260	Lab File ID:	26a092711.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	09/27/2011 1614	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	09/27/2011 0530				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	1.6	U	1.6	5.0
Antimony	0.38	U	0.38	0.60
Arsenic	0.66	U	0.66	1.0
Barium	0.076	U	0.076	0.50
Beryllium	0.033	U	0.033	0.20
Boron	0.98	U	0.98	2.0
Cadmium	0.041	U	0.041	0.20
Calcium	14.1	U	14.1	50.0
Chromium	0.0870	B	0.058	0.20
Cobalt	0.10	U	0.10	1.0
Copper	0.22	U	0.22	1.0
Iron	3.8	U	3.8	5.0
Lead	0.27	U	0.27	0.50
Magnesium	3.7	U	3.7	20.0
Manganese	0.10	U	0.10	1.0
Molybdenum	0.26	U	0.26	2.0
Nickel	0.12	U	0.12	4.0
Potassium	41.0	U	41.0	300
Selenium	0.86	U	0.86	1.0
Silicon	5.7	U	5.7	10.0
Silver	0.16	U	0.16	0.20
Sodium	59.0	U	59.0	120
Vanadium	0.094	U	0.094	2.0
Zinc	0.40	U	0.40	1.0

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Lab Control Sample - Batch: 280-86260

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-86260/2-A	Analysis Batch:	280-88155	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-86260	Lab File ID:	26a092711.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	09/27/2011 1617	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	09/27/2011 0530				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	182.3	91	82 - 116	
Antimony	50.0	48.74	97	82 - 110	
Arsenic	100	93.00	93	85 - 110	
Barium	200	190.5	95	87 - 112	
Beryllium	5.00	4.77	95	84 - 114	
Boron	100	94.23	94	81 - 110	
Cadmium	10.0	8.90	89	87 - 110	
Calcium	5000	4551	91	82 - 114	
Chromium	20.0	19.13	96	84 - 114	
Cobalt	50.0	47.18	94	87 - 110	
Copper	25.0	24.25	97	88 - 110	
Iron	100	96.17	96	87 - 120	
Lead	50.0	46.90	94	86 - 110	
Magnesium	5000	4621	92	90 - 110	
Manganese	50.0	47.48	95	88 - 110	
Molybdenum	100	93.96	94	86 - 110	
Nickel	50.0	48.39	97	87 - 110	
Potassium	5000	4827	97	89 - 110	
Selenium	200	198.5	99	83 - 110	
Silicon	1000	233.2	23	10 - 70	
Silver	5.00	4.63	93	87 - 114	
Sodium	5000	5200	104	90 - 112	
Vanadium	50.0	47.88	96	88 - 110	
Zinc	50.0	45.72	91	76 - 114	

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Matrix Spike - Batch: 280-86260

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-20242-1	Analysis Batch:	280-88155	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-86260	Lab File ID:	26a092711.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.12 g
Analysis Date:	09/27/2011 1627	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	09/27/2011 0530				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	7330		181	9499	1202	50 - 200	4
Antimony	0.34	U	45.2	23.84	53	20 - 200	
Arsenic	2.5		90.4	77.85	83	76 - 111	
Barium	53.4		181	213.7	89	52 - 159	
Beryllium	0.43		4.52	4.31	86	72 - 105	
Boron	1.3	B	90.4	75.86	83	75 - 107	
Cadmium	0.078	B	9.04	7.41	81	40 - 130	
Calcium	7530		4520	12960	120	43 - 165	
Chromium	8.5		18.1	25.15	92	70 - 200	
Cobalt	8.9		45.2	47.65	86	72 - 106	
Copper	18.3		22.6	39.79	95	37 - 187	
Iron	19900		90.4	23370	3806	70 - 200	4
Lead	4.6		45.2	41.79	82	70 - 200	
Magnesium	4770		4520	9519	105	64 - 145	
Manganese	335		45.2	398.8	141	40 - 200	4
Molybdenum	0.44	B	90.4	74.04	81	75 - 103	
Nickel	11.7		45.2	50.70	86	61 - 126	
Potassium	1090		4520	5501	98	56 - 172	
Selenium	0.77	U	181	161.6	89	76 - 104	
Silicon	626		904	522.0	-12	20 - 200	N
Silver	0.14	U	4.52	3.63	80	75 - 141	
Sodium	426		4520	4795	97	78 - 111	
Vanadium	49.6		45.2	102.8	118	50 - 169	
Zinc	46.1		45.2	90.33	98	70 - 200	

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Duplicate - Batch: 280-86260

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-20242-1	Analysis Batch:	280-88155	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-86260	Lab File ID:	26a092711.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.03 g
Analysis Date:	09/27/2011 1625	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	09/27/2011 0530				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	7330		6104	18	40	
Antimony	0.34	U	0.37	NC	40	U
Arsenic	2.5		1.72	36	30	M
Barium	53.4		51.83	3	30	
Beryllium	0.43		0.415	3	30	
Boron	1.3	B	0.984	28	30	B
Cadmium	0.078	B	0.0894	14	30	B
Calcium	7530		6455	15	30	
Chromium	8.5		6.79	22	40	
Cobalt	8.9		8.80	1	30	
Copper	18.3		16.59	10	30	
Iron	19900		19830	0.5	40	
Lead	4.6		3.52	27	40	
Magnesium	4770		4960	4	30	
Manganese	335		285.8	16	40	
Molybdenum	0.44	B	0.26	NC	30	U
Nickel	11.7		10.50	11	30	
Potassium	1090		1028	6	40	
Selenium	0.77	U	0.85	NC	30	U
Silicon	626		389.0	47	40	M
Silver	0.14	U	0.16	NC	30	U
Sodium	426		309.3	32	30	M
Vanadium	49.6		45.40	9	30	
Zinc	46.1		41.86	10	40	

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Method Blank - Batch: 280-86064

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 280-86064/1-A	Analysis Batch:	280-86968	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-86064	Lab File ID:	110920AA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	.6 g
Analysis Date:	09/20/2011 0918	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	09/19/2011 1450				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0055	U	0.0055	0.017

Lab Control Sample - Batch: 280-86064

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCS 280-86064/2-A	Analysis Batch:	280-86968	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-86064	Lab File ID:	110920AA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	.6 g
Analysis Date:	09/20/2011 0920	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	09/19/2011 1450				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.464	111	87 - 111	

Matrix Spike - Batch: 280-86064

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-20242-1	Analysis Batch:	280-86968	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-86064	Lab File ID:	110920AA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	09/20/2011 0929	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	09/19/2011 1450				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.0053	U	0.422	0.469	111	87 - 111	

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Duplicate - Batch: 280-86064

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-20242-1	Analysis Batch:	280-86968	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-86064	Lab File ID:	110920AA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.61 g
Analysis Date:	09/20/2011 0932	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	09/19/2011 1450				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.0053	U	0.00639	NC	20	B

Client: Washington Closure Hanford

Job Number: 280-20242-1
Sdg Number: J01276

Duplicate - Batch: 280-86903

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-20242-1	Analysis Batch:	280-86903	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/20/2011 1014	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	1.2	1.0	18	20	

48, 3.8, 3.6, 3.4 / RISC 9/14

QNG 9/12/11

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-075-256	Page 1 of 3

Collector: Q Stowe	Company Contact: Joan Kessner Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH	Price Code: 8L Data Turnaround: 21 Days
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location: 118-D-2:1 Burial Ground- Group A, Trench 1,2,3 & 6	SAF No.: RC-075	
Ice Chest No.: ERC-02-007	Field Logbook No.: EL-1607-12 COA: R118D22000	Method of Shipment: Fed Ex	
Shipped To: TestAmerica Incorporated, ~~Richland~~ Denver QNG 9/12/11	Offsite Property No.: A100878/879	Bill of Lading/Air Bill No.: See OSPC	

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Rad < DOT

Special Handling and/or Storage

Cool 4 Deg. C

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None	None	None
Type of Container	G/P	G/P	G	aG	aG	aG	G/P	G/P	G/P	G/P
No. of Container(s)	1	1	1	1	1	1	1	0	0	0
Volume	60mL	60mL	120mL	125mL	120mL	125mL	1000mL	1000mL	1000mL	1000mL
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D +	PAHs - 8310	PCBs - 8082	Chloro-Herbicides - EPA8151	See item (2) in Special Instructions.	Carbon-14; Tritium - H3	Nickel-63; Strontium-89/90 -- Total Sr	Isotopic Plutonium
		QNG 9/12/11						QNG 9/12/11	RCF	27384

Sample No.	Matrix *	Sample Date	Sample Time										
J1KV47	SOIL	9/12/11	0915	X		X	X	X	X				
J1KV48	SOIL	9/12/11	0750	X		X	X	X	X				
J1KV49	SOIL	9/12/11	0755	X		X	X	X	X				
J1KV50	SOIL	9/12/11	0805	X		X	X	X	X				
J1KV51	SOIL	9/12/11	0807	X		X	X	X	X				

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Quincy Stowe	9/12/11 1400	D. Newman	9/12/11 1400
D. Newman	9/12/11 1540	A. Freier (1060#2)	1540 9-12-11
A. Freier (1060#2) (WCH)	1100 9-12-11	Fed Ex	
		9/14/11	0900

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV) {Mercury}

(2) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}

REVIEWED BY CMB DATE 9/13/11

SDG 50276

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

QNT 9/12/11

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-075-256	Page 2 of ~~3~~ 4

Collector: Q Stowe	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location: 118-D-2:1 Burial Ground- Group A, Trench 1,2,3 & 6		SAF No.: RC-075
Ice Chest No.: ERC-02-007	Field Logbook No.: EL-1607-12	COA: R118D22000	Method of Shipment: Fed Ex
Shipped To: QNT 9/14/11 TestAmerica Incorporated, ~~Richland~~ Denver	Offsite Property No.: A100 878/879		Bill of Lading/Air Bill No.: See OSPC

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Rad < DOT

Special Handling and/or Storage

Cool 4 Deg. C

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None	None	None
Type of Container	G/P	G/P	G	aG	aG	aG	G/P	G/P	G/P	G/P
No. of Container(s)	1	1	1	1	1	1	1	0	0	0
Volume	60mL	60mL	120mL	125mL	120mL	125mL	1000mL	1000mL	1000mL	1000mL
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D+	PAHs - 8310	PCBs - 8082	Chloro-Herbicides - EPA8151	See item (2) in Special Instructions.	Carbon-14; Tritium - H3	Nickel-63; Strontium-89/90 -- Total Sr	Isotopic Plutonium

QNT 9/12/11 QNT 9/12/11 RCF 27384

Sample No.	Matrix *	Sample Date	Sample Time										
J1KV52	SOIL	9/12/11	0810	X		X	X	X	X				
J1KV53	SOIL	9/12/11	0815	X		X	X	X	X				
J1KV54	SOIL	9/12/11	0820	X		X	X	X	X				
J1KV55	SOIL	9/12/11	0830	X		X	X	X	X				
J1KV56	SOIL	9/12/11	0835	X		X	X	X	X				

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Quincy Stowe	9/12/11 1400	D. Newman	9/12/11 1400
D. Newman	9/12/11 1540	A. Freier (1060 #2)	1540 9-12-11
A. Freier (WCH 1060, #2)	1100 9-13-11	Fed Ex	
		Fed Ex	9/14/11 0900

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV) (Mercury)

(2) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}

SDG J61276

REVIEWED BY CMB DATE 9/13/11

Matrix *: S=Soil; SD=Sediment; SO=Solid; SI=Sludge; W=Water; O=Oil; A=Air; DS=Drum Solids; DL=Drum Liquids; T=Tissue; WI=Wipe; L=Liquid; V=Vegetation; X=Other

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

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-075-256	Page 3 of 13

Collector: Q Stone	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location: 118-D-2:1 Burial Ground- Group A, Trench 1,2,3 & 6		SAF No.: RC-075
Ice Chest No.: ERC-02-007	Field Logbook No.: EL-1607-12	COA: R118D22000	Method of Shipment: Fed Ex
Shipped To: TestAmerica Incorporated, ~~Richland~~ Denver	Offsite Property No.: A100878/879		Bill of Lading/Air Bill No.: See OSPC

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Rad < DOT

Special Handling and/or Storage

Cool 4 Deg. C

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None	None	None
Type of Container	G/P	G/P	G	aG	aG	aG	G/P	G/P	G/P	G/P
No. of Container(s)	1	1	1	1	1	1	1	0	0	0
Volume	60mL	60mL	120mL	125mL	120mL	125mL	1000mL	1000mL	1000mL	1000mL

SAMPLE ANALYSIS

Sample No.	Matrix *	Sample Date	Sample Time	See item (1) in Special Instructions.	Chromium Hex - 196	TPH-Diesel Range - WTPH-D+	PAHs - 8310	PCBs - 8082	Chloro-Herbicides - EPA8151	See item (2) in Special Instructions.	Carbon-14; Tritium - H3	Nickel-63; Strontium-8890 -- Total Sr	Isotopic Plutonium
												RCF 27384	
J1KV57	SOIL	9/12/11	0840	X		X	X	X	X				
J1KV58	SOIL	9/12/11	1020	X		X	X	X	X				
J1KV59	SOIL	9/12/11	0750	X		X	X	X	X				

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Quincy Stone	9/12/11 1400	D. Newman	9/12/11 1400
D. Newman	9/12/11 1540	A. Freier (1060#2)	9/12/11 1540
A. Freier (WC# 1060#2)	9-13-11 1100	Fed Ex	

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV) {Mercury}

(2) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}

SDG J61276

REVIEWED BY CMB DATE 9/13/11

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

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

WCH-EE-011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Project 28002142 - 6010TC - Solid

Analytical Due:

Report Due: 10/5/11

Sample Check-in List

Date/Time Received: 9/14/11 0900 GM Screen Result 12 microR/hr

Client: Washington Closure Hanford SDG #: J01276 NA[ ] SAF #: RC-075 NA [ ]

Job Number: 26242 Chain of Custody # RC-075-256

Shipping Container ID: ERC-02-007, ERC-02-407, ERC-99-511, ERC-99-058 Air Bill # 7975 1140 7866, 7947, 7682, 8071

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: 3.8, 3.6, 4.8, 3.4 NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 13
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): ___

Sample Custodian: [signature] Date: 9/14/11

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on ___ by ___ Person Contacted ___

[ ] No action necessary; process as is.

Project Manager [signature] Date 9/14/11

LS-023, Rev. 7, 1/08

EDC-02-007 3.6°

From: (509) 376-7768
1162 SHIPPING DEPT
US DOE
2355 STEVENS DR

RICHLAND, WA 99354

Origin ID: PSCA

FedEx. Express

J11201104290225

Ship Date: 13SEP11
ActWgt: 65.0 LB
CAD: 5851986/INET3180

Delivery Address Bar Code

Ref # R118D22000
Invoice #
PO #
Dept #

SHIP TO: (303) 736-0100 BILL THIRD PARTY

KAE YODER
TEST AMERICA
4955 YARROW ST # A100878

ARVADA, CO 80002

1 of 4

WED - 14 SEP A1
PRIORITY OVERNIGHT

TRK# 0201 7975 1140 7866

MASTER

XH WHHA

80002
CO-US
DEN

50FG2/4299/F5F4

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ERL-02-407 4.8°

From: (509) 376-7768
1162 SHIPPING DEPT
US DOE
2355 STEVENS DR

RICHLAND, WA 99354

Origin ID: PSCA

FedEx. Express

J11201104290225

Ship Date: 13SEP11
ActWgt: 68.0 LB
CAD: 5851986/INET3180

Delivery Address Bar Code

Ref # R118D22000
Invoice #
PO #
Dept #

SHIP TO: (303) 736-0100 BILL THIRD PARTY

KAE YODER
TEST AMERICA
4955 YARROW ST # A100878

ARVADA, CO 80002

2 of 4

MPS# 7975 1140 7947
0263
Mstr# 7975 1140 7866 0201

XH WHHA

WED - 14 SEP A1
PRIORITY OVERNIGHT

80002
CO-US
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50FG2/4239/F5F4

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ERL-96-511 3.8°

From: (509) 376-7768
1162 SHIPPING DEPT
US DOE
2355 STEVENS DR

RICHLAND, WA 99354

Origin ID: PSCA

FedEx. Express

J11201104290225

Ship Date: 13SEP11
ActWgt: 67.0 LB
CAD: 5851986/INET3180

Delivery Address Bar Code

Ref # R118D22000
Invoice #
PO #
Dept #

SHIP TO: (303) 736-0100

BILL THIRD PARTY

KAE YODER
TEST AMERICA
4955 YARROW ST # A100878

ARVADA, CO 80002

3 of 4

MPS# 7975 1140 7682
0263

Mstr# 7975 1140 7866 0201

XH WHHA

WED - 14 SEP A1
PRIORITY OVERNIGHT

80002
CO-US
DEN

50FG2/4299/F5F4

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ERC-99-058
3.4

From: (509) 376-7768
1162 SHIPPING DEPT
US DOE
2355 STEVENS DR

RICHLAND, WA 99354

Origin ID: PSCA

FedEx. Express

J1120110429022S

Ship Date: 13SEP11
ActWgt: 60.0 LB
CAD: 5851986/INET3180

Delivery Address Bar Code

Ref # R118D22000
Invoice #
PO #
Dept #

SHIP TO: (303) 736-0100
BILL THIRD PARTY

KAE YODER
TEST AMERICA
4955 YARROW ST # A100878

ARVADA, CO 80002

4 of 4

WED - 14 SEP A1
PRIORITY OVERNIGHT

MPS# 7975 1140 8071
0263
Mstr# 7975 1140 7866
0201

XH WHHA

80002
CO-US
DEN

50FG2/4299/F5F4

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