0096328

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

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt H4-21 KW 4/12/11
INITIAL/DATE

COMMENTS:

SDG JP0134 SAF RC-074

Rad only Chem only ☑ Rad & Chem

☑ Complete Partial

Waste Site: 118-D-2 Excavation Area 3

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APR 18 2011
EDMC

Analytical Data Package Prepared For

Washington Closure Hanford

RECEIVED
APR 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.: 46139

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.
JP0134	RC-074	J1FJP6	J1C230601-1	MF34Q1AH	9MF34Q10	1083099
		J1FJP6	J1C230601-1	MF34Q1AF	9MF34Q10	1083102
		J1FJP6	J1C230601-1	MF34Q1AC	9MF34Q10	1083104
		J1FJP6	J1C230601-1	MF34Q1AJ	9MF34Q10	1083109
		J1FJP6	J1C230601-1	MF34Q1AE	9MF34Q10	1083110
		J1FJP6	J1C230601-1	MF34Q1AG	9MF34Q10	1083111
		J1FJP6	J1C230601-1	MF34Q1AD	9MF34Q10	1083113
		J1FJP6	J1C230601-1	MF34Q1AA	9MF34Q10	1087272
		J1FJP7	J1C230601-2	MF3401AH	9MF34010	1083099
		J1FJP7	J1C230601-2	MF3401AF	9MF34010	1083102
		J1FJP7	J1C230601-2	MF3401AC	9MF34010	1083104
		J1FJP7	J1C230601-2	MF3401AJ	9MF34010	1083109
		J1FJP7	J1C230601-2	MF3401AE	9MF34010	1083110
		J1FJP7	J1C230601-2	MF3401AG	9MF34010	1083111
		J1FJP7	J1C230601-2	MF3401AD	9MF34010	1083113
		J1FJP7	J1C230601-2	MF3401AA	9MF34010	1087272
		J1FJP8	J1C230601-3	MF3411AH	9MF34110	1083099
		J1FJP8	J1C230601-3	MF3411AF	9MF34110	1083102
		J1FJP8	J1C230601-3	MF3411AC	9MF34110	1083104
		J1FJP8	J1C230601-3	MF3411AJ	9MF34110	1083109
		J1FJP8	J1C230601-3	MF3411AE	9MF34110	1083110
		J1FJP8	J1C230601-3	MF3411AG	9MF34110	1083111
		J1FJP8	J1C230601-3	MF3411AD	9MF34110	1083113
		J1FJP8	J1C230601-3	MF3411AA	9MF34110	1087272
		J1FJP9	J1C230601-4	MF3421AH	9MF34210	1083099
		J1FJP9	J1C230601-4	MF3421AF	9MF34210	1083102

Report No.: 46139

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SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
JP0134	RC-074	J1FJP9	J1C230601-4	MF3421AC	9MF34210	1083104
		J1FJP9	J1C230601-4	MF3421AJ	9MF34210	1083109
		J1FJP9	J1C230601-4	MF3421AE	9MF34210	1083110
		J1FJP9	J1C230601-4	MF3421AG	9MF34210	1083111
		J1FJP9	J1C230601-4	MF3421AD	9MF34210	1083113
		J1FJP9	J1C230601-4	MF3421AA	9MF34210	1087272
		J1FJR0	J1C230601-5	MF3431AH	9MF34310	1083099
		J1FJR0	J1C230601-5	MF3431AF	9MF34310	1083102
		J1FJR0	J1C230601-5	MF3431AC	9MF34310	1083104
		J1FJR0	J1C230601-5	MF3431AJ	9MF34310	1083109
		J1FJR0	J1C230601-5	MF3431AE	9MF34310	1083110
		J1FJR0	J1C230601-5	MF3431AG	9MF34310	1083111
		J1FJR0	J1C230601-5	MF3431AD	9MF34310	1083113
		J1FJR0	J1C230601-5	MF3431AA	9MF34310	1087272
		J1FJR1	J1C230601-6	MF3441AH	9MF34410	1083099
		J1FJR1	J1C230601-6	MF3441AF	9MF34410	1083102
		J1FJR1	J1C230601-6	MF3441AC	9MF34410	1083104
		J1FJR1	J1C230601-6	MF3441AJ	9MF34410	1083109
		J1FJR1	J1C230601-6	MF3441AE	9MF34410	1083110
		J1FJR1	J1C230601-6	MF3441AG	9MF34410	1083111
		J1FJR1	J1C230601-6	MF3441AD	9MF34410	1083113
		J1FJR1	J1C230601-6	MF3441AA	9MF34410	1087272
		J1FJR2	J1C230601-7	MF3451AH	9MF34510	1083099
		J1FJR2	J1C230601-7	MF3451AF	9MF34510	1083102
		J1FJR2	J1C230601-7	MF3451AC	9MF34510	1083104
		J1FJR2	J1C230601-7	MF3451AJ	9MF34510	1083109
		J1FJR2	J1C230601-7	MF3451AE	9MF34510	1083110
		J1FJR2	J1C230601-7	MF3451AG	9MF34510	1083111
		J1FJR2	J1C230601-7	MF3451AD	9MF34510	1083113
		J1FJR2	J1C230601-7	MF3451AA	9MF34510	1087272
		J1FJR3	J1C230601-8	MF3461AH	9MF34610	1083099
		J1FJR3	J1C230601-8	MF3461AF	9MF34610	1083102
		J1FJR3	J1C230601-8	MF3461AC	9MF34610	1083104
		J1FJR3	J1C230601-8	MF3461AJ	9MF34610	1083109
		J1FJR3	J1C230601-8	MF3461AE	9MF34610	1083110
		J1FJR3	J1C230601-8	MF3461AG	9MF34610	1083111
		J1FJR3	J1C230601-8	MF3461AD	9MF34610	1083113
		J1FJR3	J1C230601-8	MF3461AA	9MF34610	1087272

Report No.: 46139

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.
JP0134	RC-074	J1FJR4	J1C230601-9	MF3471AH	9MF34710	1083099
		J1FJR4	J1C230601-9	MF3471AF	9MF34710	1083102
		J1FJR4	J1C230601-9	MF3471AC	9MF34710	1083104
		J1FJR4	J1C230601-9	MF3471AJ	9MF34710	1083109
		J1FJR4	J1C230601-9	MF3471AE	9MF34710	1083110
		J1FJR4	J1C230601-9	MF3471AG	9MF34710	1083111
		J1FJR4	J1C230601-9	MF3471AD	9MF34710	1083113
		J1FJR4	J1C230601-9	MF3471AA	9MF34710	1087272
		J1FJR5	J1C230601-10	MF3481AH	9MF34810	1083099
		J1FJR5	J1C230601-10	MF3481AF	9MF34810	1083102
		J1FJR5	J1C230601-10	MF3481AC	9MF34810	1083104
		J1FJR5	J1C230601-10	MF3481AJ	9MF34810	1083109
		J1FJR5	J1C230601-10	MF3481AE	9MF34810	1083110
		J1FJR5	J1C230601-10	MF3481AG	9MF34810	1083111
		J1FJR5	J1C230601-10	MF3481AD	9MF34810	1083113
		J1FJR5	J1C230601-10	MF3481AA	9MF34810	1087272
	RC-074	J1FJR6	J1C230601-11	MF3491AH	9MF34910	1083099
		J1FJR6	J1C230601-11	MF3491AF	9MF34910	1083102
		J1FJR6	J1C230601-11	MF3491AC	9MF34910	1083104
		J1FJR6	J1C230601-11	MF3491AJ	9MF34910	1083109
		J1FJR6	J1C230601-11	MF3491AE	9MF34910	1083110
		J1FJR6	J1C230601-11	MF3491AG	9MF34910	1083111
		J1FJR6	J1C230601-11	MF3491AD	9MF34910	1083113
		J1FJR6	J1C230601-11	MF3491AA	9MF34910	1087272
		J1FJR7	J1C230601-12	MF35A1AH	9MF35A10	1083099
		J1FJR7	J1C230601-12	MF35A1AF	9MF35A10	1083102
		J1FJR7	J1C230601-12	MF35A1AC	9MF35A10	1083104
		J1FJR7	J1C230601-12	MF35A1AJ	9MF35A10	1083109
		J1FJR7	J1C230601-12	MF35A1AE	9MF35A10	1083110
		J1FJR7	J1C230601-12	MF35A1AG	9MF35A10	1083111
		J1FJR7	J1C230601-12	MF35A1AD	9MF35A10	1083113
		J1FJR7	J1C230601-12	MF35A1AA	9MF35A10	1087272

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Washington Hanford Closure
2620 Fermi Avenue
Richland, WA 99354

TestAmerica Laboratories, Inc.

April 6, 2011

Attention: Joan Kessner

SAF Number	:	RC-074
Date SDG Closed	:	March 23, 2011
Number of Samples	:	Twelve (12)
Sample Type	:	Soil
SDG Number	:	JP0134
Data Deliverable	:	7– Day / Summary

CASE NARRATIVE

I. Introduction

On March 23, 2011, twelve 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
J1FJP6	MF34Q	SOIL	03/23/11
J1FJP7	MF340	SOIL	03/23/11
J1FJP8	MF341	SOIL	03/23/11
J1FJP9	MF342	SOIL	03/23/11
J1FJR0	MF343	SOIL	03/23/11
J1FJR1	MF344	SOIL	03/23/11
J1FJR2	MF345	SOIL	03/23/11
J1FJR3	MF346	SOIL	03/23/11
J1FJR4	MF347	SOIL	03/23/11
J1FJR5	MF348	SOIL	03/23/11
J1FJR6	MF349	SOIL	03/23/11
J1FJR7	MF35A	SOIL	03/23/11

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 :
The LCS, batch blank, samples and sample duplicate (J1FJP7) results are within contractual requirements.

Uranium 234, 235 and 238 by method RL-ALP-015:
The technician poured approximately 5mls of the blank sample into the LCS. The LCS recovery was high at 149%, while the blank was lower but within acceptable criteria of 55%. As agreed upon by the client, the data is still acceptable. Except as noted the LCS, batch blank, samples and sample duplicate (J1FJP8) results are within contractual requirements.

Gas Proportional Counting
Strontium-90 by method RL-GPC-003 :
The LCS, batch blank, samples and sample duplicate (J1FJR2) results are within contractual requirements.

Gamma Spectroscopy

Gamma Spec by method RL-GAM-001 :

There was insufficient volume for a duplicate. Sample J1FJP6 was recounted on a different detector for the duplicate (J1FJP6 DUP). The CRDL was not met on some analytes due to reduced count time. The count time was reduced to meet the priority turn around time. Except as noted, the LCS, batch blank, samples and sample duplicate (J1FJP6) results are within contractual requirements.

Liquid Scintillation Counting

Tritium by method RL-LSC-005 :

The LCS, batch blank, samples and sample duplicate (J1FJR1) results are within contractual requirements.

Carbon-14 by method RL-LSC-008 :

One sample (J1FJR2) had one count that was higher than other counts at 47. The other counts were 17, 18 and 20. The initial count of 47 was deleted due to a suspected electrostatic discharge. Except as noted the LCS, batch blank, samples and sample duplicate (J1FJP9) results are within contractual requirements.

Nickel-63 by method RL-LCS-017 :

The LCS, batch blank, samples and sample duplicate (J1FJR0) results are within contractual requirements.

Chemical Analysis

Hexavalent Chromium by EPA method 7196A

The matrix spike recovered low at 74.2%. The post digestive matrix spike recovered at 84.8% and the insoluble matrix spike recovered at 95%. This implies strong reducing capacity in the sample, but not enough to exhaust the insoluble matrix spike. Except as noted, the LCS, batch blank, samples, sample duplicate (J1FJP6) and sample matrix spike (J1FJP6) 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:

Whitney Ritari
for Rhonda Wagar
Project Manager

Drinking Water Method Cross References

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

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

Uncertainty Estimation

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

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

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

Report Definitions

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

Sample Results Summary

TestAmerica TARL

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

Date: 06-Apr-11

Report No. : 46139

SDG No: JP0134

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1083102 PUISO_PLATE_AEA									
	J1FJP6								
	MF34Q1AF	PU-238	-6.88E-03 +- 6.9E-02	U	pCi/g	83%	1.65E-01	1.00E+00	
		PU239/40	-3.44E-03 +- 6.9E-02	U	pCi/g	83%	1.44E-01	1.00E+00	
	J1FJP7								
	MF3401AF	PU-238	-1.74E-03 +- 7.0E-02	U	pCi/g	90%	1.30E-01	1.00E+00	
		PU239/40	-1.74E-03 +- 7.0E-02	U	pCi/g	90%	1.30E-01	1.00E+00	
	J1FJP7 DUP								
	MF3401AK	PU-238	-2.07E-03 +- 8.3E-02	U	pCi/g	77%	1.55E-01	1.00E+00	-17.4
		PU239/40	-2.07E-03 +- 8.3E-02	U	pCi/g	77%	1.55E-01	1.00E+00	-17.4
	J1FJP8								
	MF3411AF	PU-238	-4.56E-03 +- 6.1E-02	U	pCi/g	91%	1.37E-01	1.00E+00	
		PU239/40	-3.04E-03 +- 6.1E-02	U	pCi/g	91%	1.27E-01	1.00E+00	
	J1FJP9								
	MF3421AF	PU-238	0.00E+00 +- 7.2E-02	U	pCi/g	92%	1.34E-01	1.00E+00	
		PU239/40	0.00E+00 +- 7.2E-02	U	pCi/g	92%	1.34E-01	1.00E+00	
	J1FJR0								
	MF3431AF	PU-238	0.00E+00 +- 7.4E-02	U	pCi/g	76%	1.38E-01	1.00E+00	
		PU239/40	-5.55E-03 +- 7.4E-02	U	pCi/g	76%	1.67E-01	1.00E+00	
	J1FJR1								
	MF3441AF	PU-238	0.00E+00 +- 9.1E-02	U	pCi/g	74%	1.70E-01	1.00E+00	
		PU239/40	4.54E-02 +- 9.1E-02	U	pCi/g	74%	1.70E-01	1.00E+00	
	J1FJR2								
	MF3451AF	PU-238	3.33E-02 +- 7.1E-02	U	pCi/g	95%	1.31E-01	1.00E+00	
		PU239/40	-3.50E-03 +- 7.0E-02	U	pCi/g	95%	1.46E-01	1.00E+00	
	J1FJR3								
	MF3461AF	PU-238	0.00E+00 +- 5.8E-02	U	pCi/g	100%	1.08E-01	1.00E+00	
		PU239/40	0.00E+00 +- 5.8E-02	U	pCi/g	100%	1.08E-01	1.00E+00	
	J1FJR4								
	MF3471AF	PU-238	0.00E+00 +- 1.0E-01	U	pCi/g	68%	1.91E-01	1.00E+00	
		PU239/40	-2.54E-03 +- 1.0E-01	U	pCi/g	68%	1.91E-01	1.00E+00	
	J1FJR5								
	MF3481AF	PU-238	3.87E-02 +- 7.8E-02	U	pCi/g	86%	1.45E-01	1.00E+00	
		PU239/40	-1.94E-03 +- 7.8E-02	U	pCi/g	86%	1.45E-01	1.00E+00	
	J1FJR6								
	MF3491AF	PU-238	-3.77E-03 +- 7.5E-02	U	pCi/g	77%	1.57E-01	1.00E+00	
		PU239/40	3.57E-02 +- 7.6E-02	U	pCi/g	77%	1.41E-01	1.00E+00	
	J1FJR7								
	MF35A1AF	PU-238	0.00E+00 +- 7.8E-02	U	pCi/g	97%	1.46E-01	1.00E+00	

TestAmerica

rptSTLRchSaSummary2 V5.2.12 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: 06-Apr-11

Report No. : 46139

SDG No: JP0134

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1083102 PUISO_PLATE_AEA									
J1FJR7									
	MF35A1AF	PU239/40	0.00E+00 +- 7.8E-02	U	pCi/g	97%	1.46E-01	1.00E+00	
1083104 UISO_IE_PLATE_AEA									
J1FJP6									
	MF34Q1AC	U-234	1.37E-01 +- 1.3E-01	U	pCi/g	92%	1.81E-01	1.00E+00	
		U-235	-1.18E-02 +- 5.3E-02	U	pCi/g	92%	1.53E-01	1.00E+00	
		U-238	1.30E-01 +- 1.3E-01	U	pCi/g	92%	1.96E-01	1.00E+00	
J1FJP7									
	MF3401AC	U-234	2.04E-01 +- 1.5E-01		pCi/g	102%	1.39E-01	1.00E+00	
		U-235	6.68E-02 +- 8.4E-02	U	pCi/g	102%	1.14E-01	1.00E+00	
		U-238	2.52E-01 +- 1.7E-01		pCi/g	102%	1.39E-01	1.00E+00	
J1FJP8									
	MF3411AC	U-234	2.00E-01 +- 1.4E-01		pCi/g	100%	1.02E-01	1.00E+00	
		U-235	0.00E+00 +- 4.5E-02	U	pCi/g	100%	8.46E-02	1.00E+00	
		U-238	8.91E-02 +- 9.2E-02	U	pCi/g	100%	8.46E-02	1.00E+00	
J1FJP8 DUP									
	MF3411AK	U-234	2.23E-01 +- 1.7E-01		pCi/g	74%	1.18E-01	1.00E+00	11.1
		U-235	-1.41E-03 +- 5.7E-02	U	pCi/g	74%	1.06E-01	1.00E+00	-200.0
		U-238	2.50E-01 +- 1.8E-01		pCi/g	74%	1.27E-01	1.00E+00	94.9
J1FJP9									
	MF3421AC	U-234	2.19E-01 +- 1.5E-01		pCi/g	92%	9.19E-02	1.00E+00	
		U-235	-1.23E-03 +- 4.9E-02	U	pCi/g	92%	9.19E-02	1.00E+00	
		U-238	4.53E-02 +- 7.0E-02	U	pCi/g	92%	1.11E-01	1.00E+00	
J1FJR0									
	MF3431AC	U-234	1.97E-01 +- 1.5E-01		pCi/g	94%	1.04E-01	1.00E+00	
		U-235	2.39E-02 +- 5.0E-02	U	pCi/g	94%	9.06E-02	1.00E+00	
		U-238	9.91E-02 +- 1.0E-01	U	pCi/g	94%	8.38E-02	1.00E+00	
J1FJR1									
	MF3441AC	U-234	1.73E-01 +- 1.5E-01		pCi/g	92%	1.39E-01	1.00E+00	
		U-235	-1.79E-03 +- 6.0E-02	U	pCi/g	92%	1.14E-01	1.00E+00	
		U-238	1.45E-01 +- 1.4E-01		pCi/g	92%	1.32E-01	1.00E+00	
J1FJR2									
	MF3451AC	U-234	2.00E-01 +- 1.6E-01		pCi/g	92%	1.76E-01	1.00E+00	
		U-235	-1.22E-02 +- 5.5E-02	U	pCi/g	92%	1.58E-01	1.00E+00	
		U-238	1.11E-01 +- 1.2E-01	U	pCi/g	92%	1.94E-01	1.00E+00	
J1FJR3									
	MF3461AC	U-234	3.65E-01 +- 2.3E-01		pCi/g	83%	1.81E-01	1.00E+00	
		U-235	-5.90E-03 +- 5.9E-02	U	pCi/g	83%	1.41E-01	1.00E+00	

TestAmerica

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Sample Results Summary

TestAmerica TARL

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

Date: 06-Apr-11

Report No. : 46139

SDG No: JP0134

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1083104 UISO_IE_PLATE_AEA									
	J1FJR3								
	MF3461AC	U-238	1.63E-01 +- 1.5E-01	U	pCi/g	83%	1.71E-01	1.00E+00	
	J1FJR4								
	MF3471AC	U-234	1.53E-01 +- 1.2E-01		pCi/g	106%	1.01E-01	1.00E+00	
		U-235	0.00E+00 +- 4.5E-02	U	pCi/g	106%	8.39E-02	1.00E+00	
		U-238	1.11E-01 +- 1.0E-01		pCi/g	106%	8.39E-02	1.00E+00	
	J1FJR5								
	MF3481AC	U-234	1.59E-01 +- 1.4E-01		pCi/g	82%	1.13E-01	1.00E+00	
		U-235	5.24E-02 +- 7.7E-02	U	pCi/g	82%	1.01E-01	1.00E+00	
		U-238	7.66E-02 +- 9.5E-02	U	pCi/g	82%	1.21E-01	1.00E+00	
	J1FJR6								
	MF3491AC	U-234	6.78E-02 +- 8.1E-02	U	pCi/g	98%	8.62E-02	1.00E+00	
		U-235	-1.15E-03 +- 4.6E-02	U	pCi/g	98%	8.62E-02	1.00E+00	
		U-238	1.57E-01 +- 1.3E-01		pCi/g	98%	1.04E-01	1.00E+00	
	J1FJR7								
	MF35A1AC	U-234	2.02E-01 +- 1.6E-01		pCi/g	82%	1.22E-01	1.00E+00	
		U-235	-1.17E-03 +- 5.8E-02	U	pCi/g	82%	1.06E-01	1.00E+00	
		U-238	3.50E-01 +- 2.2E-01		pCi/g	82%	9.84E-02	1.00E+00	
1083099 GAMMA_GS									
	J1FJP6								
	MF34Q1AH	AG-108M	-2.30E-03 +- 8.2E-03	U	pCi/g		1.39E-02		
		AMERICIUM 241	5.30E-03 +- 7.5E-02	U	pCi/g		1.25E-01		
		CO-60	-6.53E-04 +- 1.2E-02	U	pCi/g		2.07E-02	5.00E-02	
		CS-137	2.34E-03 +- 1.3E-02	U	pCi/g		2.17E-02	1.00E-01	
		EU-152	-3.45E-03 +- 2.7E-02	U	pCi/g		4.60E-02	1.00E-01	
		EU-154	-1.74E-02 +- 3.6E-02	U	pCi/g		6.15E-02	1.00E-01	
		EU-155	2.24E-02 +- 3.2E-02	U	pCi/g		5.66E-02	1.00E-01	
	J1FJP6 DUP								
	MF34Q1AK	AG-108M	-1.29E-02 +- 1.6E-02	U	pCi/g		2.66E-02		-139.5
		AMERICIUM 241	-2.78E-02 +- 3.3E-02	U	pCi/g		5.41E-02		-294.3
		CO-60	9.65E-03 +- 1.8E-02	U	pCi/g		3.32E-02	5.00E-02	229.0
		CS-137	-9.92E-04 +- 1.8E-02	U	pCi/g		3.06E-02	1.00E-01	494.9
		EU-152	-1.88E-02 +- 5.2E-02	U	pCi/g		8.52E-02	1.00E-01	-138.0
		EU-154	-7.85E-02 +- 5.9E-02	U	pCi/g		8.90E-02	1.00E-01	-127.4
		EU-155	-9.87E-04 +- 4.8E-02	U	pCi/g		8.04E-02	1.00E-01	218.5
	J1FJP7								
	MF3401AH	AG-108M	4.72E-03 +- 1.3E-02	U	pCi/g		2.27E-02		
		AMERICIUM 241	8.28E-03 +- 2.5E-02	U	pCi/g		4.29E-02		

TestAmerica

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Sample Results Summary

TestAmerica TARL

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

Date: 06-Apr-11

Report No. : 46139

SDG No: JP0134

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1083099 GAMMA_GS									
J1FJP7									
	MF3401AH	CO-60	-2.90E-03 +- 1.7E-02	U	pCi/g		3.02E-02	5.00E-02	
		CS-137	-1.36E-02 +- 1.6E-02	U	pCi/g		2.64E-02	1.00E-01	
		EU-152	-2.69E-02 +- 4.3E-02	U	pCi/g		7.18E-02	1.00E-01	
		EU-154	4.72E-03 +- 4.8E-02	U	pCi/g		8.64E-02	1.00E-01	
		EU-155	-1.25E-02 +- 3.6E-02	U	pCi/g		6.12E-02	1.00E-01	
J1FJP8									
	MF3411AH	AG-108M	-7.64E-03 +- 1.5E-02	U	pCi/g		2.40E-02		
		AMERICIUM 241	-3.00E-02 +- 8.1E-02	U	pCi/g		1.36E-01		
		CO-60	-9.99E-04 +- 1.7E-02	U	pCi/g		2.99E-02	5.00E-02	
		CS-137	9.01E-02 +- 3.0E-02		pCi/g		2.77E-02	1.00E-01	
		EU-152	2.20E-02 +- 7.4E-02	U	pCi/g		8.89E-02	1.00E-01	
		EU-154	-9.39E-03 +- 5.5E-02	U	pCi/g		9.43E-02	1.00E-01	
		EU-155	-1.50E-02 +- 5.8E-02	U	pCi/g		9.72E-02	1.00E-01	
J1FJP9									
	MF3421AH	AG-108M	4.18E-04 +- 1.5E-02	U	pCi/g		2.61E-02		
		AMERICIUM 241	-3.77E-03 +- 6.7E-02	U	pCi/g		1.12E-01		
		CO-60	-3.10E-03 +- 1.9E-02	U	pCi/g		3.32E-02	5.00E-02	
		CS-137	7.29E-03 +- 2.0E-02	U	pCi/g		3.61E-02	1.00E-01	
		EU-152	4.51E-02 +- 5.5E-02	U	pCi/g		9.65E-02	1.00E-01	
		EU-154	6.78E-03 +- 6.5E-02	U	pCi/g		1.14E-01	1.00E-01	
		EU-155	3.73E-02 +- 4.9E-02	U	pCi/g		8.69E-02	1.00E-01	
J1FJR0									
	MF3431AH	AG-108M	-5.27E-03 +- 1.2E-02	U	pCi/g		2.00E-02		
		AMERICIUM 241	-1.97E-02 +- 2.4E-02	U	pCi/g		3.97E-02		
		CO-60	-3.20E-04 +- 1.7E-02	U	pCi/g		2.92E-02	5.00E-02	
		CS-137	7.93E-03 +- 1.6E-02	U	pCi/g		2.84E-02	1.00E-01	
		EU-152	4.22E-02 +- 3.8E-02	U	pCi/g		6.97E-02	1.00E-01	
		EU-154	-1.82E-02 +- 4.7E-02	U	pCi/g		7.98E-02	1.00E-01	
		EU-155	4.98E-02 +- 3.6E-02	U	pCi/g		6.46E-02	1.00E-01	
J1FJR1									
	MF3441AH	AG-108M	-2.17E-04 +- 1.2E-02	U	pCi/g		2.14E-02		
		AMERICIUM 241	-1.53E-02 +- 2.6E-02	U	pCi/g		4.40E-02		
		CO-60	-7.08E-03 +- 1.4E-02	U	pCi/g		2.39E-02	5.00E-02	
		CS-137	-1.03E-02 +- 1.6E-02	U	pCi/g		2.69E-02	1.00E-01	
		EU-152	-2.47E-02 +- 4.0E-02	U	pCi/g		6.74E-02	1.00E-01	
		EU-154	3.83E-02 +- 5.2E-02	U	pCi/g		9.88E-02	1.00E-01	
		EU-155	1.45E-02 +- 3.9E-02	U	pCi/g		6.67E-02	1.00E-01	

TestAmerica

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Sample Results Summary

TestAmerica TARL

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

Date: 06-Apr-11

Report No. : 46139

SDG No: JP0134

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1083099 GAMMA_GS									
J1FJR2									
	MF3451AH	AG-108M	3.24E-03 +- 9.1E-03	U	pCi/g		1.61E-02		
		AMERICIUM 241	-3.05E-02 +- 7.9E-02	U	pCi/g		1.30E-01		
		CO-60	-5.31E-03 +- 1.4E-02	U	pCi/g		2.35E-02	5.00E-02	
		CS-137	8.93E-03 +- 1.2E-02	U	pCi/g		2.21E-02	1.00E-01	
		EU-152	-2.60E-02 +- 3.0E-02	U	pCi/g		4.89E-02	1.00E-01	
		EU-154	-1.19E-02 +- 4.6E-02	U	pCi/g		7.87E-02	1.00E-01	
		EU-155	2.65E-02 +- 3.4E-02	U	pCi/g		5.93E-02	1.00E-01	
J1FJR3									
	MF3461AH	AG-108M	-8.73E-03 +- 1.5E-02	U	pCi/g		2.47E-02		
		AMERICIUM 241	-7.76E-03 +- 6.1E-02	U	pCi/g		9.86E-02		
		CO-60	-6.23E-03 +- 1.7E-02	U	pCi/g		2.98E-02	5.00E-02	
		CS-137	1.81E-02 +- 1.8E-02	U	pCi/g		3.31E-02	1.00E-01	
		EU-152	-4.13E-03 +- 5.0E-02	U	pCi/g		8.50E-02	1.00E-01	
		EU-154	2.94E-02 +- 6.6E-02	U	pCi/g		1.21E-01	1.00E-01	
		EU-155	-1.15E-02 +- 4.8E-02	U	pCi/g		7.88E-02	1.00E-01	
J1FJR4									
	MF3471AH	AG-108M	-2.29E-03 +- 1.2E-02	U	pCi/g		1.99E-02		
		AMERICIUM 241	-1.93E-02 +- 6.2E-02	U	pCi/g		1.04E-01		
		CO-60	-3.16E-03 +- 1.5E-02	U	pCi/g		2.50E-02	5.00E-02	
		CS-137	-7.45E-03 +- 1.5E-02	U	pCi/g		2.46E-02	1.00E-01	
		EU-152	-1.60E-02 +- 5.2E-02	U	pCi/g		6.81E-02	1.00E-01	
		EU-154	-4.94E-04 +- 4.4E-02	U	pCi/g		7.67E-02	1.00E-01	
		EU-155	-3.26E-02 +- 4.8E-02	U	pCi/g		7.84E-02	1.00E-01	
J1FJR5									
	MF3481AH	AG-108M	-8.10E-03 +- 1.4E-02	U	pCi/g		2.28E-02		
		AMERICIUM 241	-1.90E-02 +- 3.0E-02	U	pCi/g		5.08E-02		
		CO-60	-1.38E-03 +- 1.7E-02	U	pCi/g		3.08E-02	5.00E-02	
		CS-137	1.53E-01 +- 4.7E-02		pCi/g		2.93E-02	1.00E-01	
		EU-152	3.42E-02 +- 4.9E-02	U	pCi/g		8.33E-02	1.00E-01	
		EU-154	-1.90E-02 +- 5.2E-02	U	pCi/g		9.09E-02	1.00E-01	
		EU-155	7.69E-02 +- 4.4E-02	U	pCi/g		7.73E-02	1.00E-01	
J1FJR6									
	MF3491AH	AG-108M	-3.05E-04 +- 1.0E-02	U	pCi/g		1.78E-02		
		AMERICIUM 241	-4.39E-02 +- 8.8E-02	U	pCi/g		1.43E-01		
		CO-60	-1.09E-02 +- 1.5E-02	U	pCi/g		2.38E-02	5.00E-02	
		CS-137	8.05E-03 +- 1.4E-02	U	pCi/g		2.53E-02	1.00E-01	
		EU-152	-1.36E-02 +- 3.3E-02	U	pCi/g		5.42E-02	1.00E-01	

TestAmerica

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Sample Results Summary

TestAmerica TARL

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

Date: 06-Apr-11

Report No. : 46139

SDG No: JP0134

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1083099 GAMMA_GS									
J1FJR6									
	MF3491AH	EU-154	1.47E-02 +- 4.8E-02	U	pCi/g		8.47E-02	1.00E-01	
		EU-155	3.12E-02 +- 3.8E-02	U	pCi/g		6.60E-02	1.00E-01	
J1FJR7									
	MF35A1AH	AG-108M	-1.27E-02 +- 1.5E-02	U	pCi/g		2.43E-02		
		AMERICIUM 241	-2.23E-03 +- 6.1E-02	U	pCi/g		1.03E-01		
		CO-60	2.82E-03 +- 1.8E-02	U	pCi/g		3.30E-02	5.00E-02	
		CS-137	1.65E-03 +- 1.9E-02	U	pCi/g		3.42E-02	1.00E-01	
		EU-152	-4.00E-03 +- 5.4E-02	U	pCi/g		8.61E-02	1.00E-01	
		EU-154	2.02E-02 +- 6.0E-02	U	pCi/g		1.10E-01	1.00E-01	
		EU-155	2.51E-03 +- 4.7E-02	U	pCi/g		7.88E-02	1.00E-01	
1083113 SRTOT_SEP_PRECIP_GPC									
J1FJP6									
	MF34Q1AD	STRONTIUM	3.61E-03 +- 9.1E-02	U	pCi/g	54%	2.15E-01		
J1FJP7									
	MF3401AD	STRONTIUM	-8.24E-02 +- 8.5E-02	U	pCi/g	48%	2.21E-01		
J1FJP8									
	MF3411AD	STRONTIUM	1.77E-01 +- 1.1E-01	U	pCi/g	55%	1.86E-01		
J1FJP9									
	MF3421AD	STRONTIUM	1.53E-02 +- 8.1E-02	U	pCi/g	53%	1.89E-01		
J1FJR0									
	MF3431AD	STRONTIUM	-3.45E-02 +- 8.5E-02	U	pCi/g	47%	2.12E-01		
J1FJR1									
	MF3441AD	STRONTIUM	-1.90E-02 +- 8.9E-02	U	pCi/g	45%	2.18E-01		
J1FJR2									
	MF3451AD	STRONTIUM	8.85E-02 +- 9.5E-02	U	pCi/g	54%	1.95E-01		
J1FJR2 DUP									
	MF3451AK	STRONTIUM	1.38E-01 +- 1.1E-01	U	pCi/g	54%	2.05E-01		44.0
J1FJR3									
	MF3461AD	STRONTIUM	-3.48E-02 +- 7.7E-02	U	pCi/g	55%	1.94E-01		
J1FJR4									
	MF3471AD	STRONTIUM	-1.43E-02 +- 7.4E-02	U	pCi/g	57%	1.81E-01		
J1FJR5									
	MF3481AD	STRONTIUM	1.34E-01 +- 1.0E-01	U	pCi/g	60%	1.91E-01		
J1FJR6									
	MF3491AD	STRONTIUM	5.23E-03 +- 7.3E-02	U	pCi/g	66%	1.71E-01		
J1FJR7									
	MF35A1AD	STRONTIUM	1.19E-02 +- 7.3E-02	U	pCi/g	63%	1.72E-01		

TestAmerica

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Sample Results Summary

Date: 06-Apr-11

TestAmerica TARL

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

Report No. : 46139 **SDG No:** JP0134

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1083109	C14_CHEM_LSC								
	J1FJP6								
	MF34Q1AJ	C-14	2.63E-01 +- 2.1E-01	U	pCi/g	100%	4.43E-01	5.00E+01	
	J1FJP7								
	MF3401AJ	C-14	1.12E-01 +- 2.0E-01	U	pCi/g	100%	4.42E-01	5.00E+01	
	J1FJP8								
	MF3411AJ	C-14	6.88E-02 +- 2.0E-01	U	pCi/g	100%	4.44E-01	5.00E+01	
	J1FJP9								
	MF3421AJ	C-14	4.00E-01 +- 2.2E-01	U	pCi/g	100%	4.41E-01	5.00E+01	
	J1FJP9 DUP								
	MF3421AK	C-14	1.93E-01 +- 2.1E-01	U	pCi/g	100%	4.41E-01	5.00E+01	69.6
	J1FJR0								
	MF3431AJ	C-14	5.20E-03 +- 2.0E-01	U	pCi/g	100%	4.42E-01	5.00E+01	
	J1FJR1								
	MF3441AJ	C-14	1.17E-01 +- 2.0E-01	U	pCi/g	100%	4.41E-01	5.00E+01	
	J1FJR2								
	MF3451AJ	C-14	1.99E-01 +- 2.4E-01	U	pCi/g	100%	5.08E-01	5.00E+01	
	J1FJR3								
	MF3461AJ	C-14	3.48E-02 +- 2.0E-01	U	pCi/g	100%	4.42E-01	5.00E+01	
	J1FJR4								
	MF3471AJ	C-14	-4.23E-02 +- 1.9E-01	U	pCi/g	100%	4.43E-01	5.00E+01	
	J1FJR5								
	MF3481AJ	C-14	1.71E-01 +- 2.0E-01	U	pCi/g	100%	4.41E-01	5.00E+01	
	J1FJR6								
	MF3491AJ	C-14	1.24E-01 +- 2.0E-01	U	pCi/g	100%	4.42E-01	5.00E+01	
	J1FJR7								
	MF35A1AJ	C-14	2.35E-01 +- 2.1E-01	U	pCi/g	100%	4.42E-01	5.00E+01	
1083110	NI63_LSC								
	J1FJP6								
	MF34Q1AE	NI-63	5.97E+00 +- 7.6E+00	U	pCi/g	76%	1.55E+01	3.00E+01	
	J1FJP7								
	MF3401AE	NI-63	4.83E+00 +- 6.6E+00	U	pCi/g	92%	1.34E+01	3.00E+01	
	J1FJP8								
	MF3411AE	NI-63	8.11E+00 +- 6.5E+00	U	pCi/g	94%	1.26E+01	3.00E+01	
	J1FJP9								
	MF3421AE	NI-63	6.63E+00 +- 7.0E+00	U	pCi/g	91%	1.41E+01	3.00E+01	
	J1FJR0								
	MF3431AE	NI-63	5.50E+00 +- 6.4E+00	U	pCi/g	91%	1.31E+01	3.00E+01	
	J1FJR0 DUP								
	MF3431AK	NI-63	4.12E+00 +- 6.4E+00	U	pCi/g	94%	1.32E+01	3.00E+01	28.8

TestAmerica

rptSTLRchSaSummary2 V5.2.12 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: 06-Apr-11

Report No. : 46139

SDG No: JP0134

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1083110 NI63_LSC									
	J1FJR1								
	MF3441AE	NI-63	9.21E+00 +- 6.8E+00	U	pCi/g	97%	1.33E+01	3.00E+01	
	J1FJR2								
	MF3451AE	NI-63	4.16E+00 +- 6.2E+00	U	pCi/g	92%	1.29E+01	3.00E+01	
	J1FJR3								
	MF3461AE	NI-63	5.53E+00 +- 6.0E+00	U	pCi/g	97%	1.22E+01	3.00E+01	
	J1FJR4								
	MF3471AE	NI-63	1.03E+01 +- 6.6E+00	U	pCi/g	94%	1.26E+01	3.00E+01	
	J1FJR5								
	MF3481AE	NI-63	1.23E+01 +- 6.8E+00	U	pCi/g	93%	1.28E+01	3.00E+01	
	J1FJR6								
	MF3491AE	NI-63	7.18E+00 +- 6.6E+00	U	pCi/g	90%	1.32E+01	3.00E+01	
	J1FJR7								
	MF35A1AE	NI-63	1.09E+01 +- 6.4E+00	U	pCi/g	95%	1.20E+01	3.00E+01	
1083111 906.0_H3_LSC									
	J1FJP6								
	MF34Q1AG	H-3	6.00E-03 +- 8.9E-03	U	pCi/g	100%	1.98E-02	4.00E+02	
	J1FJP7								
	MF3401AG	H-3	2.33E-03 +- 9.5E-03	U	pCi/g	100%	2.14E-02	4.00E+02	
	J1FJP8								
	MF3411AG	H-3	2.75E-03 +- 1.1E-02	U	pCi/g	100%	2.49E-02	4.00E+02	
	J1FJP9								
	MF3421AG	H-3	1.29E-02 +- 1.1E-02	U	pCi/g	100%	2.45E-02	4.00E+02	
	J1FJR0								
	MF3431AG	H-3	2.03E-02 +- 8.8E-03		pCi/g	100%	1.80E-02	4.00E+02	
	J1FJR1								
	MF3441AG	H-3	1.10E-02 +- 1.4E-02	U	pCi/g	100%	3.15E-02	4.00E+02	
	J1FJR1 DUP								
	MF3441AK	H-3	1.23E-02 +- 1.2E-02	U	pCi/g	100%	2.59E-02	4.00E+02	11.0
	J1FJR2								
	MF3451AG	H-3	1.66E-02 +- 1.3E-02	U	pCi/g	100%	2.85E-02	4.00E+02	
	J1FJR3								
	MF3461AG	H-3	4.49E-02 +- 9.1E-03		pCi/g	100%	1.65E-02	4.00E+02	
	J1FJR4								
	MF3471AG	H-3	1.28E-01 +- 1.1E-02		pCi/g	100%	1.43E-02	4.00E+02	
	J1FJR5								
	MF3481AG	H-3	1.03E-01 +- 1.5E-02		pCi/g	100%	2.45E-02	4.00E+02	
	J1FJR6								
	MF3491AG	H-3	7.47E-02 +- 1.3E-02		pCi/g	100%	2.38E-02	4.00E+02	

TestAmerica

rptSTLRchSaSummary2 V5.2.12 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: 06-Apr-11

Report No. : 46139

SDG No: JP0134

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1083111	906.0_H3_LSC								
	J1FJR7								
	MF35A1AG	H-3	3.76E-02 +- 1.4E-02		pCi/g	100%	2.90E-02	4.00E+02	
1087272	7196_CR6								
	J1FJP6								
	MF34Q1AA	HEXCHROME	3.00E-01 +- 0.0E+00		mg/kg	N/A	1.54E-01	1.55E-01	
	MF34Q1AN	HEXCHROME	3.72E-01 +- 0.0E+00		mg/kg	N/A	1.48E-01	3.50E-01	21.4
	J1FJP7								
	MF3401AA	HEXCHROME	3.04E-01 +- 0.0E+00		mg/kg	N/A	1.46E-01	1.55E-01	
	J1FJP8								
	MF3411AA	HEXCHROME	4.12E-01 +- 0.0E+00		mg/kg	N/A	1.46E-01	1.55E-01	
	J1FJP9								
	MF3421AA	HEXCHROME	4.12E-01 +- 0.0E+00		mg/kg	N/A	1.52E-01	1.55E-01	
	J1FJR0								
	MF3431AA	HEXCHROME	2.79E-01 +- 0.0E+00		mg/kg	N/A	1.45E-01	1.55E-01	
	J1FJR1								
	MF3441AA	HEXCHROME	3.08E-01 +- 0.0E+00		mg/kg	N/A	1.48E-01	1.55E-01	
	J1FJR2								
	MF3451AA	HEXCHROME	4.01E-01 +- 0.0E+00		mg/kg	N/A	1.48E-01	1.55E-01	
	J1FJR3								
	MF3461AA	HEXCHROME	4.12E-01 +- 0.0E+00		mg/kg	N/A	1.48E-01	1.55E-01	
	J1FJR4								
	MF3471AA	HEXCHROME	2.58E-01 +- 0.0E+00		mg/kg	N/A	1.44E-01	1.55E-01	
	J1FJR5								
	MF3481AA	HEXCHROME	4.92E-01 +- 0.0E+00		mg/kg	N/A	1.47E-01	1.55E-01	
	J1FJR6								
	MF3491AA	HEXCHROME	5.95E-01 +- 0.0E+00		mg/kg	N/A	1.54E-01	1.55E-01	
	J1FJR7								
	MF35A1AA	HEXCHROME	4.20E-01 +- 0.0E+00		mg/kg	N/A	1.48E-01	1.55E-01	

No. of Results: 221

TestAmerica **RPD** - **Relative Percent Difference.**

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QC Results Summary

Date: 06-Apr-11

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Report No. : 46139 **SDG No.:** JP0134

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
PUISO_PLATE_AEA								
1083102 BLANK QC,								
MF4FH1AA	PU-238	0.00E+00 +- 7.4E-02	U	pCi/g	99%			1.38E-01
	PU239/40	0.00E+00 +- 7.4E-02	U	pCi/g	99%			1.38E-01
1083102 LCS,								
MF4FH1AC	PU239/40	6.22E+00 +- 1.6E+00		pCi/g	100%	91%	-0.1	1.30E-01
UISO_IE_PLATE_AEA								
1083104 BLANK QC,								
MF4FN1AA	U-234	4.06E-02 +- 9.7E-02	U	pCi/g	55%			2.21E-01
	U-235	-2.91E-03 +- 9.7E-02	U	pCi/g	55%			1.86E-01
	U-238	4.35E-02 +- 9.7E-02	U	pCi/g	55%			2.02E-01
1083104 LCS,								
MF4FN1AC	U-234	3.08E+00 +- 7.9E-01		pCi/g	149%	92%	-0.1	1.67E-01
	U-238	3.00E+00 +- 7.7E-01		pCi/g	149%	86%	-0.1	1.77E-01
GAMMA_GS								
1083099 BLANK QC,								
MF4FA1AA	AG-108M	-5.16E-03 +- 1.1E-02	U	pCi/g				1.74E-02
	AMERICIUM 241	-6.25E-02 +- 4.4E-02	U	pCi/g				6.87E-02
	CO-60	7.92E-03 +- 1.2E-02	U	pCi/g				2.30E-02
	CS-137	-3.70E-05 +- 1.1E-02	U	pCi/g				1.90E-02
	EU-152	-7.38E-03 +- 3.5E-02	U	pCi/g				5.31E-02
	EU-154	2.39E-02 +- 2.9E-02	U	pCi/g				5.83E-02
	EU-155	-1.37E-02 +- 2.9E-02	U	pCi/g				4.86E-02
1083099 LCS,								
MF4FA1AC	CS-137	1.17E+00 +- 1.7E-01		pCi/g		108%	0.1	3.82E-02
SRTOT_SEP_PRECIP_GPC								
1083113 BLANK QC,								
MF4GT1AA	STRONTIUM	2.76E-02 +- 6.1E-02	U	pCi/g	92%			1.37E-01
1083113 LCS,								
MF4GT1AC	STRONTIUM	8.54E-01 +- 2.5E-01		pCi/g	91%	76%	-0.2	1.26E-01
C14_CHEM_LSC								
1083109 BLANK QC,								
MF4FT1AA	C-14	3.06E-03 +- 5.1E-03	U	pCi/g	100%			1.11E-02
1083109 LCS,								
MF4FT1AC	C-14	7.61E+00 +- 5.3E-01		pCi/g	100%	104%	0.0	4.44E-01
NI63_LSC								
1083110 BLANK QC,								
MF4F71AA	NI-63	2.51E+00 +- 6.0E+00	U	pCi/g	95%			1.25E+01
1083110 LCS,								
MF4F71AC	NI-63	5.36E+02 +- 5.4E+01		pCi/g	95%	84%	-0.2	1.35E+01
906.0_H3_LSC								
1083111 BLANK QC,								

TestAmerica

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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.

QC Results Summary

Date: 06-Apr-11

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Report No. : 46139 **SDG No.:** JP0134

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
MF4GE1AA	H-3	4.50E-02 +- 2.3E-02	U	pCi/g	100%			4.87E-02
1083111 LCS,								
MF4GE1AC	H-3	3.05E-01 +- 2.9E-02		pCi/g	100%	98%	0.0	3.90E-02
7196_CR6								
1087272 MATRIX SPIKE, J1FJP6								
MF34Q1AL	HEXCHROME	7.38E+00 +- 0.0E+00		mg/kg	N/A	74%	-0.3	1.45E-01
1087272 LCS,								
MF8841AC	HEXCHROME	1.66E+01 +- 0.0E+00		mg/kg	N/A	83%	-0.2	1.55E-01
1087272 BLANK QC,								
MF8841AA	HEXCHROME	1.83E-01 +- 0.0E+00		mg/kg	N/A			1.55E-01

No. of Results: 27

TestAmerica

rptSTLRchQcSummary V5.2.12 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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:35:00 AM
Lot-Sample No.:	J1C230601-1	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP6	**COC No. :**	RC-074-212	**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: 1083099	GAMMA_GS			**Work Order:** MF34Q1AH			**Report DB ID:** 9MF34Q10					
AG-108M	***-2.30E-03***	U	8.2E-03	8.2E-03	1.39E-02	pCi/g		*-0.17*	3/24/11 08:27 p		417.9	GER11$1
								-0.56			g	
AMERICIUM 241	***5.30E-03***	U	7.5E-02	7.5E-02	1.25E-01	pCi/g		*0.04*	3/24/11 08:27 p		417.9	GER11$1
								0.14			g	
CO-60	***-6.53E-04***	U	1.2E-02	1.2E-02	2.07E-02	pCi/g		*-0.03*	3/24/11 08:27 p		417.9	GER11$1
							5.00E-02	*-0.11*			g	
CS-137	***2.34E-03***	U	1.3E-02	1.3E-02	2.17E-02	pCi/g		*0.11*	3/24/11 08:27 p		417.9	GER11$1
							1.00E-01	*0.37*			g	
EU-152	***-3.45E-03***	U	2.7E-02	2.7E-02	4.60E-02	pCi/g		*-0.07*	3/24/11 08:27 p		417.9	GER11$1
							1.00E-01	*-0.25*			g	
EU-154	***-1.74E-02***	U	3.6E-02	3.6E-02	6.15E-02	pCi/g		*-0.28*	3/24/11 08:27 p		417.9	GER11$1
							1.00E-01	*-0.96*			g	
EU-155	***2.24E-02***	U	3.2E-02	3.2E-02	5.66E-02	pCi/g		*0.4*	3/24/11 08:27 p		417.9	GER11$1
							1.00E-01	*(1.4)*			g	
Batch: 1083102	PUISO_PLATE_AEA			**Work Order:** MF34Q1AF			**Report DB ID:** 9MF34Q10					
PU-238	***-6.88E-03***	U	6.9E-02	6.9E-02	1.65E-01	pCi/g	83%	*-0.04*	3/30/11 12:56 p		1.0	ALP38
						3.58E-02	1.00E+00	*-0.2*			g	
PU239/40	***-3.44E-03***	U	6.9E-02	6.9E-02	1.44E-01	pCi/g	83%	*-0.02*	3/30/11 12:56 p		1.0	ALP38
						2.53E-02	1.00E+00	*-0.1*			g	
Batch: 1083104	UISO_IE_PLATE_AEA			**Work Order:** MF34Q1AC			**Report DB ID:** 9MF34Q10					

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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: 06-Apr-11

Lab Name:	**TestAmerica**	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:35:00 AM
Lot-Sample No.:	**J1C230601-1**	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	**J1FJP6**	**COC No. :**	RC-074-212	**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
U-234	***1.37E-01***	U	1.3E-01	1.3E-01	1.81E-01	pCi/g	92%	*0.76*	4/2/11 02:23 a		1.01	ALP3
						5.47E-02	1.00E+00	*(2.1)*			g	
U-235	***-1.18E-02***	U	5.3E-02	5.3E-02	1.53E-01	pCi/g	92%	*-0.08*	4/2/11 02:23 a		1.01	ALP3
						4.10E-02	1.00E+00	*-0.44*			g	
U-238	***1.30E-01***	U	1.3E-01	1.3E-01	1.96E-01	pCi/g	92%	*0.66*	4/2/11 02:23 a		1.01	ALP3
						6.27E-02	1.00E+00	*(2.)*			g	
							Ratio U-234/238 = 1.1					
Batch: 1083109	C14_CHEM_LSC			**Work Order:**	MF34Q1AJ		**Report DB ID:** 9MF34Q10					
C-14	***2.63E-01***	U	1.9E-01	2.1E-01	4.43E-01	pCi/g	100%	*0.59*	4/2/11 04:20 a		5.021	LSC3
						2.08E-01	5.00E+01	*(2.5)*			g	
Batch: 1083110	NI63_LSC			**Work Order:**	MF34Q1AE		**Report DB ID:** 9MF34Q10					
NI-63	***5.97E+00***	U	6.6E+00	7.6E+00	1.55E+01	pCi/g	76%	*0.38*	4/2/11 01:27 p		0.26	LSC3
						7.26E+00	3.00E+01	*(1.6)*			g	
Batch: 1083111	906.0_H3_LSC			**Work Order:**	MF34Q1AG		**Report DB ID:** 9MF34Q10					
H-3	***6.00E-03***	U	8.3E-03	8.9E-03	1.98E-02	pCi/g	100%	*0.3*	3/31/11 11:20 p		122.3	LSC3
						9.40E-03	4.00E+02	*(1.4)*			g	
Batch: 1083113	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MF34Q1AD		**Report DB ID:** 9MF34Q10					
STRONTIUM	***3.61E-03***	U	9.1E-02	9.1E-02	2.15E-01	pCi/g	54%	*0.02*	3/31/11 05:46 p		6.0	GPC26A
						1.01E-01		*0.08*			g	
Batch: 1087272	7196_CR6			**Work Order:**	MF34Q1AA		**Report DB ID:** 9MF34Q10					
HEXCHROME	***3.00E-01***			0.0E+00	1.54E-01	mg/kg	N/A	*(1.9)*	3/28/11 09:00 a		2.5	
							1.55E-01	*N/A*			g	

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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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:35:00 AM
Lot-Sample No.:	J1C230601-1	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP6	**COC No. :**	RC-074-212	**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

No. of Results: 17 **Comments:**

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rptSTLRchSample
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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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:40:00 AM
Lot-Sample No.:	J1C230601-2	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP7	**COC No. :**	RC-074-212	**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: 1083099	GAMMA_GS			**Work Order:** MF3401AH			**Report DB ID:** 9MF34010					
AG-108M	***4.72E-03***	U	1.3E-02	1.3E-02	2.27E-02	pCi/g		*0.21*	3/24/11 08:29 p		360.8	GER15$1
								0.74			g	
AMERICIUM 241	***8.28E-03***	U	2.5E-02	2.5E-02	4.29E-02	pCi/g		*0.19*	3/24/11 08:29 p		360.8	GER15$1
								0.66			g	
CO-60	***-2.90E-03***	U	1.7E-02	1.7E-02	3.02E-02	pCi/g		*-0.1*	3/24/11 08:29 p		360.8	GER15$1
							5.00E-02	*-0.34*			g	
CS-137	***-1.36E-02***	U	1.6E-02	1.6E-02	2.64E-02	pCi/g		*-0.51*	3/24/11 08:29 p		360.8	GER15$1
							1.00E-01	*-(1.7)*			g	
EU-152	***-2.69E-02***	U	4.3E-02	4.3E-02	7.18E-02	pCi/g		*-0.37*	3/24/11 08:29 p		360.8	GER15$1
							1.00E-01	*-(1.3)*			g	
EU-154	***4.72E-03***	U	4.8E-02	4.8E-02	8.64E-02	pCi/g		*0.05*	3/24/11 08:29 p		360.8	GER15$1
							1.00E-01	*0.2*			g	
EU-155	***-1.25E-02***	U	3.6E-02	3.6E-02	6.12E-02	pCi/g		*-0.2*	3/24/11 08:29 p		360.8	GER15$1
							1.00E-01	*-0.69*			g	
Batch: 1083102	PUISO_PLATE_AEA			**Work Order:** MF3401AF			**Report DB ID:** 9MF34010					
PU-238	***-1.74E-03***	U	7.0E-02	7.0E-02	1.30E-01	pCi/g	90%	*-0.01*	3/30/11 12:57 p		0.99	ALP39
						1.81E-02	1.00E+00	*-0.05*			g	
PU239/40	***-1.74E-03***	U	7.0E-02	7.0E-02	1.30E-01	pCi/g	90%	*-0.01*	3/30/11 12:57 p		0.99	ALP39
						1.81E-02	1.00E+00	*-0.05*			g	
Batch: 1083104	UISO_IE_PLATE_AEA			**Work Order:** MF3401AC			**Report DB ID:** 9MF34010					

TestAmerica
rptSTLRchSample
V5.2.12 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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:40:00 AM
Lot-Sample No.:	J1C230601-2	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP7	**COC No. :**	RC-074-212	**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
U-234	***2.04E-01***		1.4E-01	1.5E-01	1.39E-01	pCi/g	102%	*(1.5)*	4/2/11 02:23 a		1.01	ALP4
						3.73E-02	1.00E+00	*(2.7)*			g	
U-235	***6.68E-02***	U	8.3E-02	8.4E-02	1.14E-01	pCi/g	102%	*0.58*	4/2/11 02:23 a		1.01	ALP4
						2.48E-02	1.00E+00	*(1.6)*			g	
U-238	***2.52E-01***		1.6E-01	1.7E-01	1.39E-01	pCi/g	102%	*(1.8)*	4/2/11 02:23 a		1.01	ALP4
						3.73E-02	1.00E+00	*(3.)*			g	
								Ratio U-234/238 = 0.8				
Batch: 1083109	C14_CHEM_LSC			**Work Order:**	MF3401AJ		**Report DB ID:**	9MF34010				
C-14	***1.12E-01***	U	1.8E-01	2.0E-01	4.42E-01	pCi/g	100%	*0.25*	4/2/11 04:43 a		5.028	LSC3
						2.08E-01	5.00E+01	*(1.1)*			g	
Batch: 1083110	Ni63_LSC			**Work Order:**	MF3401AE		**Report DB ID:**	9MF34010				
Ni-63	***4.83E+00***	U	5.7E+00	6.6E+00	1.34E+01	pCi/g	92%	*0.36*	4/2/11 01:50 p		0.25	LSC3
						6.26E+00	3.00E+01	*(1.5)*			g	
Batch: 1083111	906.0_H3_LSC			**Work Order:**	MF3401AG		**Report DB ID:**	9MF34010				
H-3	***2.33E-03***	U	8.9E-03	9.5E-03	2.14E-02	pCi/g	100%	*0.11*	4/1/11 12:43 a		133.3	LSC3
						1.02E-02	4.00E+02	*0.49*			g	
Batch: 1083113	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MF3401AD		**Report DB ID:**	9MF34010				
STRONTIUM	***-8.24E-02***	U	8.2E-02	8.5E-02	2.21E-01	pCi/g	48%	*-0.37*	3/31/11 05:46 p		6.01	GPC26B
						1.03E-01		*-(1.9)*			g	
Batch: 1087272	7196_CR6			**Work Order:**	MF3401AA		**Report DB ID:**	9MF34010				
HEXCHROME	***3.04E-01***			0.0E+00	1.46E-01	mg/kg	N/A	*(2.1)*	3/28/11 09:00 a		2.5	
							1.55E-01	*N/A*			g	

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:40:00 AM
Lot-Sample No.:	J1C230601-2	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP7	**COC No. :**	RC-074-212	**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

No. of Results: 17 **Comments:**

TestAmerica
rptSTLRchSample
V5.2.12 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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:45:00 AM
Lot-Sample No.:	J1C230601-3	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP8	**COC No. :**	RC-074-212	**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: 1083099	GAMMA_GS			**Work Order:** MF3411AH			**Report DB ID:** 9MF34110					
AG-108M	***-7.64E-03***	U	1.5E-02	1.5E-02	2.40E-02	pCi/g		*-0.32*	3/25/11 12:03 a		351.5	GER10$1
								-(1.)			g	
AMERICIUM 241	***-3.00E-02***	U	8.1E-02	8.1E-02	1.36E-01	pCi/g		*-0.22*	3/25/11 12:03 a		351.5	GER10$1
								-0.74			g	
CO-60	***-9.99E-04***	U	1.7E-02	1.7E-02	2.99E-02	pCi/g		*-0.03*	3/25/11 12:03 a		351.5	GER10$1
							5.00E-02	*-0.12*			g	
CS-137	***9.01E-02***		3.0E-02	3.0E-02	2.77E-02	pCi/g		*(3.2)*	3/25/11 12:03 a		351.5	GER10$1
							1.00E-01	*(5.9)*			g	
EU-152	***2.20E-02***	U	7.4E-02	7.4E-02	8.89E-02	pCi/g		*0.25*	3/25/11 12:03 a		351.5	GER10$1
							1.00E-01	*0.6*			g	
EU-154	***-9.39E-03***	U	5.5E-02	5.5E-02	9.43E-02	pCi/g		*-0.1*	3/25/11 12:03 a		351.5	GER10$1
							1.00E-01	*-0.34*			g	
EU-155	***-1.50E-02***	U	5.8E-02	5.8E-02	9.72E-02	pCi/g		*-0.15*	3/25/11 12:03 a		351.5	GER10$1
							1.00E-01	*-0.52*			g	
Batch: 1083102	PUISO_PLATE_AEA			**Work Order:** MF3411AF			**Report DB ID:** 9MF34110					
PU-238	***-4.56E-03***	U	6.1E-02	6.1E-02	1.37E-01	pCi/g	91%	*-0.03*	3/30/11 12:58 p		0.99	ALP41
						2.74E-02	1.00E+00	*-0.15*			g	
PU239/40	***-3.04E-03***	U	6.1E-02	6.1E-02	1.27E-01	pCi/g	91%	*-0.02*	3/30/11 12:58 p		0.99	ALP41
						2.24E-02	1.00E+00	*-0.1*			g	
Batch: 1083104	UISO_IE_PLATE_AEA			**Work Order:** MF3411AC			**Report DB ID:** 9MF34110					

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:45:00 AM
Lot-Sample No.:	J1C230601-3	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP8	**COC No. :**	RC-074-212	**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
U-234	***2.00E-01***		1.4E-01	1.4E-01	1.02E-01	pCi/g	100%	*(2.)*	4/2/11 02:23 a		1.0	ALP9
						2.04E-02	1.00E+00	*(2.8)*			g	
U-235	***0.00E+00***	U	0.0E+00	4.5E-02	8.46E-02	pCi/g	100%	*0.*	4/2/11 02:23 a		1.0	ALP9
						1.18E-02	1.00E+00	*0.*			g	
U-238	***8.91E-02***	U	9.0E-02	9.2E-02	8.46E-02	pCi/g	100%	*(1.1)*	4/2/11 02:23 a		1.0	ALP9
						1.18E-02	1.00E+00	*(1.9)*			g	
								Ratio U-234/238 = 2.2				
Batch: 1083109	C14_CHEM_LSC			**Work Order:**	MF3411AJ		**Report DB ID:**	9MF34110				
C-14	***6.88E-02***	U	1.8E-01	2.0E-01	4.44E-01	pCi/g	100%	*0.15*	4/2/11 05:06 a		5.002	LSC3
						2.09E-01	5.00E+01	*0.69*			g	
Batch: 1083110	NI63_LSC			**Work Order:**	MF3411AE		**Report DB ID:**	9MF34110				
NI-63	***8.11E+00***	U	5.5E+00	6.5E+00	1.26E+01	pCi/g	94%	*0.64*	4/2/11 02:13 p		0.26	LSC3
						5.90E+00	3.00E+01	*(2.5)*			g	
Batch: 1083111	906.0_H3_LSC			**Work Order:**	MF3411AG		**Report DB ID:**	9MF34110				
H-3	***2.75E-03***	U	1.0E-02	1.1E-02	2.49E-02	pCi/g	100%	*0.11*	4/1/11 02:06 a		106.3	LSC3
						1.18E-02	4.00E+02	*0.49*			g	
Batch: 1083113	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MF3411AD		**Report DB ID:**	9MF34110				
STRONTIUM	***1.77E-01***	U	9.8E-02	1.1E-01	1.86E-01	pCi/g	55%	*0.95*	3/31/11 05:46 p		6.0	GPC26C
						8.61E-02		*(3.3)*			g	
Batch: 1087272	7196_CR6			**Work Order:**	MF3411AA		**Report DB ID:**	9MF34110				
HEXCHROME	***4.12E-01***			0.0E+00	1.46E-01	mg/kg	N/A	*(2.8)*	3/28/11 09:00 a		2.5	
							1.55E-01	*N/A*			g	

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:45:00 AM
Lot-Sample No.:	J1C230601-3	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP8	**COC No. :**	RC-074-212	**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

No. of Results: 17 **Comments:**

TestAmerica
rptSTLRchSample
V5.2.12 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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:50:00 AM
Lot-Sample No.:	J1C230601-4	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP9	**COC No. :**	RC-074-212	**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: 1083099	GAMMA_GS			**Work Order:** MF3421AH			**Report DB ID:** 9MF34210					
AG-108M	***4.18E-04***	U	1.5E-02	1.5E-02	2.61E-02	pCi/g		*0.02*	3/25/11 12:03 a		384.8	GER7$1
								0.06			g	
AMERICIUM 241	***-3.77E-03***	U	6.7E-02	6.7E-02	1.12E-01	pCi/g		*-0.03*	3/25/11 12:03 a		384.8	GER7$1
								-0.11			g	
CO-60	***-3.10E-03***	U	1.9E-02	1.9E-02	3.32E-02	pCi/g		*-0.09*	3/25/11 12:03 a		384.8	GER7$1
							5.00E-02	*-0.33*			g	
CS-137	***7.29E-03***	U	2.0E-02	2.0E-02	3.61E-02	pCi/g		*0.2*	3/25/11 12:03 a		384.8	GER7$1
							1.00E-01	*0.73*			g	
EU-152	***4.51E-02***	U	5.5E-02	5.5E-02	9.65E-02	pCi/g		*0.47*	3/25/11 12:03 a		384.8	GER7$1
							1.00E-01	*(1.6)*			g	
EU-154	***6.78E-03***	U	6.5E-02	6.5E-02	1.14E-01	pCi/g		*0.06*	3/25/11 12:03 a		384.8	GER7$1
							1.00E-01	*0.21*			g	
EU-155	***3.73E-02***	U	4.9E-02	4.9E-02	8.69E-02	pCi/g		*0.43*	3/25/11 12:03 a		384.8	GER7$1
							1.00E-01	*(1.5)*			g	
Batch: 1083102	PUISO_PLATE_AEA			**Work Order:** MF3421AF			**Report DB ID:** 9MF34210					
PU-238	***0.00E+00***	U	0.0E+00	7.2E-02	1.34E-01	pCi/g	92%	*0.*	3/30/11 12:58 p		1.01	ALP42
						1.86E-02	1.00E+00	*0.*			g	
PU239/40	***0.00E+00***	U	0.0E+00	7.2E-02	1.34E-01	pCi/g	92%	*0.*	3/30/11 12:58 p		1.01	ALP42
						1.86E-02	1.00E+00	*0.*			g	
Batch: 1083104	UISO_IE_PLATE_AEA			**Work Order:** MF3421AC			**Report DB ID:** 9MF34210					

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:50:00 AM
Lot-Sample No.:	J1C230601-4	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP9	**COC No. :**	RC-074-212	**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
U-234	***2.19E-01***		1.5E-01	1.5E-01	9.19E-02	pCi/g	92%	*(2.4)*	4/2/11 02:24 a		1.02	ALP12
						1.28E-02	1.00E+00	*(2.9)*			g	
U-235	***-1.23E-03***	U	4.9E-02	4.9E-02	9.19E-02	pCi/g	92%	*-0.01*	4/2/11 02:24 a		1.02	ALP12
						1.28E-02	1.00E+00	*-0.05*			g	
U-238	***4.53E-02***	U	6.9E-02	7.0E-02	1.11E-01	pCi/g	92%	*0.41*	4/2/11 02:24 a		1.02	ALP12
						2.21E-02	1.00E+00	*(1.3)*			g	
								Ratio U-234/238 = 4.8				
Batch: 1083109	C14_CHEM_LSC			**Work Order:**	MF3421AJ		**Report DB ID:**	9MF34210				
C-14	***4.00E-01***	U	2.0E-01	2.2E-01	4.41E-01	pCi/g	100%	*0.91*	4/2/11 05:29 a		5.037	LSC3
						2.07E-01	5.00E+01	*(3.7)*			g	
Batch: 1083110	NI63_LSC			**Work Order:**	MF3421AE		**Report DB ID:**	9MF34210				
NI-63	***6.63E+00***	U	6.1E+00	7.0E+00	1.41E+01	pCi/g	91%	*0.47*	4/2/11 02:36 p		0.24	LSC3
						6.59E+00	3.00E+01	*(1.9)*			g	
Batch: 1083111	906.0_H3_LSC			**Work Order:**	MF3421AG		**Report DB ID:**	9MF34210				
H-3	***1.29E-02***	U	1.1E-02	1.1E-02	2.45E-02	pCi/g	100%	*0.53*	4/1/11 03:29 a		120.4	LSC3
						1.16E-02	4.00E+02	*(2.3)*			g	
Batch: 1083113	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MF3421AD		**Report DB ID:**	9MF34210				
STRONTIUM	***1.53E-02***	U	8.1E-02	8.1E-02	1.89E-01	pCi/g	53%	*0.08*	3/31/11 05:46 p		6.0	GPC26D
						8.75E-02		*0.38*			g	
Batch: 1087272	7196_CR6			**Work Order:**	MF3421AA		**Report DB ID:**	9MF34210				
HEXCHROME	***4.12E-01***			0.0E+00	1.52E-01	mg/kg	N/A	*(2.7)*	3/28/11 09:00 a		2.5	
							1.55E-01	*N/A*			g	

TestAmerica
rptSTLRchSample
V5.2.12 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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:50:00 AM
Lot-Sample No.:	J1C230601-4	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP9	**COC No. :**	RC-074-212	**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

No. of Results: 17 Comments:

TestAmerica
rptSTLRchSample
V5.2.12 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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:05:00 AM
Lot-Sample No.:	J1C230601-5	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJR0	**COC No. :**	RC-074-212	**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: 1083099	GAMMA_GS			**Work Order:** MF3431AH			**Report DB ID:** 9MF34310					
AG-108M	***-5.27E-03***	U	1.2E-02	1.2E-02	2.00E-02	pCi/g		*-0.26*	3/25/11 12:03 a		418.0	GER15$1
								-0.89			g	
AMERICIUM 241	***-1.97E-02***	U	2.4E-02	2.4E-02	3.97E-02	pCi/g		*-0.5*	3/25/11 12:03 a		418.0	GER15$1
								-(1.6)			g	
CO-60	***-3.20E-04***	U	1.7E-02	1.7E-02	2.92E-02	pCi/g		*-0.01*	3/25/11 12:03 a		418.0	GER15$1
							5.00E-02	*-0.04*			g	
CS-137	***7.93E-03***	U	1.6E-02	1.6E-02	2.84E-02	pCi/g		*0.28*	3/25/11 12:03 a		418.0	GER15$1
							1.00E-01	*(1.)*			g	
EU-152	***4.22E-02***	U	3.8E-02	3.8E-02	6.97E-02	pCi/g		*0.61*	3/25/11 12:03 a		418.0	GER15$1
							1.00E-01	*(2.2)*			g	
EU-154	***-1.82E-02***	U	4.7E-02	4.7E-02	7.98E-02	pCi/g		*-0.23*	3/25/11 12:03 a		418.0	GER15$1
							1.00E-01	*-0.78*			g	
EU-155	***4.98E-02***	U	3.6E-02	3.6E-02	6.46E-02	pCi/g		*0.77*	3/25/11 12:03 a		418.0	GER15$1
							1.00E-01	*(2.7)*			g	
Batch: 1083102	PUISO_PLATE_AEA			**Work Order:** MF3431AF			**Report DB ID:** 9MF34310					
PU-238	***0.00E+00***	U	0.0E+00	7.4E-02	1.38E-01	pCi/g	76%	*0.*	3/30/11 12:58 p		1.02	ALP43
						1.92E-02	1.00E+00	*0.*			g	
PU239/40	***-5.55E-03***	U	7.4E-02	7.4E-02	1.67E-01	pCi/g	76%	*-0.03*	3/30/11 12:58 p		1.02	ALP43
						3.33E-02	1.00E+00	*-0.15*			g	
Batch: 1083104	UISO_IE_PLATE_AEA			**Work Order:** MF3431AC			**Report DB ID:** 9MF34310					

TestAmerica
rptSTLRchSample
V5.2.12 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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:05:00 AM
Lot-Sample No.:	J1C230601-5	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJR0	**COC No. :**	RC-074-212	**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
U-234	***1.97E-01***		1.4E-01	1.5E-01	1.04E-01	pCi/g	94%	*(1.9)*	4/2/11 02:24 a		1.03	ALP71
						1.83E-02	1.00E+00	*(2.7)*			g	
U-235	***2.39E-02***	U	5.0E-02	5.0E-02	9.06E-02	pCi/g	94%	*0.26*	4/2/11 02:24 a		1.03	ALP71
						1.16E-02	1.00E+00	*0.96*			g	
U-238	***9.91E-02***	U	1.0E-01	1.0E-01	8.38E-02	pCi/g	94%	*(1.2)*	4/2/11 02:24 a		1.03	ALP71
						8.19E-03	1.00E+00	*(2.)*			g	
							Ratio U-234/238 = 2.0					
Batch: 1083109	C14_CHEM_LSC			**Work Order:**	MF3431AJ		**Report DB ID:**	9MF34310				
C-14	***5.20E-03***	U	1.8E-01	2.0E-01	4.42E-01	pCi/g	100%	*0.01*	4/2/11 06:14 a		5.024	LSC3
						2.08E-01	5.00E+01	*0.05*			g	
Batch: 1083110	NI63_LSC			**Work Order:**	MF3431AE		**Report DB ID:**	9MF34310				
NI-63	***5.50E+00***	U	5.6E+00	6.4E+00	1.31E+01	pCi/g	91%	*0.42*	4/2/11 02:59 p		0.26	LSC3
						6.10E+00	3.00E+01	*(1.7)*			g	
Batch: 1083111	906.0_H3_LSC			**Work Order:**	MF3431AG		**Report DB ID:**	9MF34310				
H-3	***2.03E-02***		8.3E-03	8.8E-03	1.80E-02	pCi/g	100%	*(1.1)*	4/1/11 04:52 a		134.8	LSC3
						8.55E-03	4.00E+02	*(4.6)*			g	
Batch: 1083113	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MF3431AD		**Report DB ID:**	9MF34310				
STRONTIUM	***-3.45E-02***	U	8.4E-02	8.5E-02	2.12E-01	pCi/g	47%	*-0.16*	3/31/11 05:46 p		6.0	GPC27A
						9.84E-02		*-0.82*			g	
Batch: 1087272	7196_CR6			**Work Order:**	MF3431AA		**Report DB ID:**	9MF34310				
HEXCHROME	***2.79E-01***			0.0E+00	1.45E-01	mg/kg	N/A	*(1.9)*	3/28/11 09:00 a		2.5	
							1.55E-01	*N/A*			g	

TestAmerica
rptSTLRchSample
V5.2.12 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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:05:00 AM
Lot-Sample No.:	J1C230601-5	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJR0	**COC No. :**	RC-074-212	**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

No. of Results: 17 Comments:

TestAmerica
rptSTLRchSample
V5.2.12 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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:10:00 AM
Lot-Sample No.:	J1C230601-6	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJR1	**COC No. :**	RC-074-212	**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: 1083099	GAMMA_GS			**Work Order:** MF3441AH			**Report DB ID:** 9MF34410					
AG-108M	***-2.17E-04***	U	1.2E-02	1.2E-02	2.14E-02	pCi/g		*-0.01*	3/25/11 04:00 a		395.8	GER15$1
								-0.04			g	
AMERICIUM 241	***-1.53E-02***	U	2.6E-02	2.6E-02	4.40E-02	pCi/g		*-0.35*	3/25/11 04:00 a		395.8	GER15$1
								-(1.2)			g	
CO-60	***-7.08E-03***	U	1.4E-02	1.4E-02	2.39E-02	pCi/g		*-0.3*	3/25/11 04:00 a		395.8	GER15$1
							5.00E-02	*-(1.)*			g	
CS-137	***-1.03E-02***	U	1.6E-02	1.6E-02	2.69E-02	pCi/g		*-0.38*	3/25/11 04:00 a		395.8	GER15$1
							1.00E-01	*-(1.3)*			g	
EU-152	***-2.47E-02***	U	4.0E-02	4.0E-02	6.74E-02	pCi/g		*-0.37*	3/25/11 04:00 a		395.8	GER15$1
							1.00E-01	*-(1.2)*			g	
EU-154	***3.83E-02***	U	5.2E-02	5.2E-02	9.88E-02	pCi/g		*0.39*	3/25/11 04:00 a		395.8	GER15$1
							1.00E-01	*(1.5)*			g	
EU-155	***1.45E-02***	U	3.9E-02	3.9E-02	6.67E-02	pCi/g		*0.22*	3/25/11 04:00 a		395.8	GER15$1
							1.00E-01	*0.74*			g	
Batch: 1083102	PUISO_PLATE_AEA			**Work Order:** MF3441AF			**Report DB ID:** 9MF34410					
PU-238	***0.00E+00***	U	0.0E+00	9.1E-02	1.70E-01	pCi/g	74%	*0.*	3/30/11 12:58 p		1.01	ALP44
						2.36E-02	1.00E+00	*0.*			g	
PU239/40	***4.54E-02***	U	9.1E-02	9.1E-02	1.70E-01	pCi/g	74%	*0.27*	3/30/11 12:58 p		1.01	ALP44
						2.36E-02	1.00E+00	*0.99*			g	
Batch: 1083104	UISO_IE_PLATE_AEA			**Work Order:** MF3441AC			**Report DB ID:** 9MF34410					

TestAmerica
rptSTLRchSample
V5.2.12 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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:10:00 AM
Lot-Sample No.:	J1C230601-6	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJR1	**COC No. :**	RC-074-212	**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
U-234	***1.73E-01***		1.5E-01	1.5E-01	1.39E-01	pCi/g	92%	*(1.2)*	4/2/11 02:25 a		1.02	ALP84
						2.94E-02	1.00E+00	*(2.3)*			g	
U-235	***-1.79E-03***	U	6.0E-02	6.0E-02	1.14E-01	pCi/g	92%	*-0.02*	4/2/11 02:25 a		1.02	ALP84
						1.70E-02	1.00E+00	*-0.06*			g	
U-238	***1.45E-01***		1.3E-01	1.4E-01	1.32E-01	pCi/g	92%	*(1.1)*	4/2/11 02:25 a		1.02	ALP84
						2.59E-02	1.00E+00	*(2.1)*			g	
							Ratio U-234/238 = 1.2					
Batch: 1083109	C14_CHEM_LSC			**Work Order:**	MF3441AJ		**Report DB ID:**	9MF34410				
C-14	***1.17E-01***	U	1.8E-01	2.0E-01	4.41E-01	pCi/g	100%	*0.27*	4/2/11 06:37 a		5.04	LSC3
						2.07E-01	5.00E+01	*(1.2)*			g	
Batch: 1083110	NI63_LSC			**Work Order:**	MF3441AE		**Report DB ID:**	9MF34410				
NI-63	***9.21E+00***	U	5.9E+00	6.8E+00	1.33E+01	pCi/g	97%	*0.69*	4/2/11 03:45 p		0.24	LSC3
						6.22E+00	3.00E+01	*(2.7)*			g	
Batch: 1083111	906.0_H3_LSC			**Work Order:**	MF3441AG		**Report DB ID:**	9MF34410				
H-3	***1.10E-02***	U	1.3E-02	1.4E-02	3.15E-02	pCi/g	100%	*0.35*	4/1/11 06:16 a		54.4	LSC3
						1.50E-02	4.00E+02	*(1.5)*			g	
Batch: 1083113	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MF3441AD		**Report DB ID:**	9MF34410				
STRONTIUM	***-1.90E-02***	U	8.9E-02	8.9E-02	2.18E-01	pCi/g	45%	*-0.09*	3/31/11 05:46 p		6.0	GPC27D
						1.01E-01		*-0.43*			g	
Batch: 1087272	7196_CR6			**Work Order:**	MF3441AA		**Report DB ID:**	9MF34410				
HEXCHROME	***3.08E-01***			0.0E+00	1.48E-01	mg/kg	N/A	*(2.1)*	3/28/11 09:00 a		2.5	
							1.55E-01	*N/A*			g	

TestAmerica
rptSTLRchSample
V5.2.12 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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:10:00 AM
Lot-Sample No.:	J1C230601-6	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJR1	**COC No. :**	RC-074-212	**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

No. of Results: 17 **Comments:**

TestAmerica
rptSTLRchSample
V5.2.12 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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:15:00 AM
Lot-Sample No.:	J1C230601-7	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJR2	**COC No. :**	RC-074-212	**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: 1083099	GAMMA_GS			**Work Order:** MF3451AH			**Report DB ID:** 9MF34510					
AG-108M	***3.24E-03***	U	9.1E-03	9.1E-03	1.61E-02	pCi/g		*0.2*	3/25/11 04:01 a		387.1	GER11$1
								0.71			g	
AMERICIUM 241	***-3.05E-02***	U	7.9E-02	7.9E-02	1.30E-01	pCi/g		*-0.24*	3/25/11 04:01 a		387.1	GER11$1
								-0.78			g	
CO-60	***-5.31E-03***	U	1.4E-02	1.4E-02	2.35E-02	pCi/g		*-0.23*	3/25/11 04:01 a		387.1	GER11$1
							5.00E-02	*-0.77*			g	
CS-137	***8.93E-03***	U	1.2E-02	1.2E-02	2.21E-02	pCi/g		*0.4*	3/25/11 04:01 a		387.1	GER11$1
							1.00E-01	*(1.5)*			g	
EU-152	***-2.60E-02***	U	3.0E-02	3.0E-02	4.89E-02	pCi/g		*-0.53*	3/25/11 04:01 a		387.1	GER11$1
							1.00E-01	*-(1.7)*			g	
EU-154	***-1.19E-02***	U	4.6E-02	4.6E-02	7.87E-02	pCi/g		*-0.15*	3/25/11 04:01 a		387.1	GER11$1
							1.00E-01	*-0.52*			g	
EU-155	***2.65E-02***	U	3.4E-02	3.4E-02	5.93E-02	pCi/g		*0.45*	3/25/11 04:01 a		387.1	GER11$1
							1.00E-01	*(1.6)*			g	
Batch: 1083102	PUISO_PLATE_AEA			**Work Order:** MF3451AF			**Report DB ID:** 9MF34510					
PU-238	***3.33E-02***	U	7.0E-02	7.1E-02	1.31E-01	pCi/g	95%	*0.25*	3/30/11 12:58 p		1.0	ALP46
						1.82E-02	1.00E+00	*0.94*			g	
PU239/40	***-3.50E-03***	U	7.0E-02	7.0E-02	1.46E-01	pCi/g	95%	*-0.02*	3/30/11 12:58 p		1.0	ALP46
						2.58E-02	1.00E+00	*-0.1*			g	
Batch: 1083104	UISO_IE_PLATE_AEA			**Work Order:** MF3451AC			**Report DB ID:** 9MF34510					

TestAmerica
rptSTLRchSample
V5.2.12 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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:15:00 AM
Lot-Sample No.:	J1C230601-7	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJR2	**COC No. :**	RC-074-212	**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
U-234	***2.00E-01***		1.5E-01	1.6E-01	1.76E-01	pCi/g	92%	*(1.1)*	4/2/11 06:36 a		0.97	ALP3
						5.10E-02	1.00E+00	*(2.5)*			g	
U-235	***-1.22E-02***	U	5.5E-02	5.5E-02	1.58E-01	pCi/g	92%	*-0.08*	4/2/11 06:36 a		0.97	ALP3
						4.24E-02	1.00E+00	*-0.45*			g	
U-238	***1.11E-01***	U	1.2E-01	1.2E-01	1.94E-01	pCi/g	92%	*0.58*	4/2/11 06:36 a		0.97	ALP3
						6.00E-02	1.00E+00	*(1.8)*			g	
								Ratio U-234/238 = 1.8				
Batch: 1083109	C14_CHEM_LSC			**Work Order:**	MF3451AJ		**Report DB ID:**	9MF34510				
C-14	***1.99E-01***	U	2.2E-01	2.4E-01	5.08E-01	pCi/g	100%	*0.39*	4/2/11 07:00 a		5.044	LSC3
						2.39E-01	5.00E+01	*(1.7)*			g	
Batch: 1083110	NI63_LSC			**Work Order:**	MF3451AE		**Report DB ID:**	9MF34510				
NI-63	***4.16E+00***	U	5.4E+00	6.2E+00	1.29E+01	pCi/g	92%	*0.32*	4/2/11 04:08 p		0.26	LSC3
						6.01E+00	3.00E+01	*(1.3)*			g	
Batch: 1083111	906.0_H3_LSC			**Work Order:**	MF3451AG		**Report DB ID:**	9MF34510				
H-3	***1.66E-02***	U	1.2E-02	1.3E-02	2.85E-02	pCi/g	100%	*0.58*	4/1/11 09:02 a		110.6	LSC3
						1.36E-02	4.00E+02	*(2.5)*			g	
Batch: 1083113	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MF3451AD		**Report DB ID:**	9MF34510				
STRONTIUM	***8.85E-02***	U	9.2E-02	9.5E-02	1.95E-01	pCi/g	54%	*0.45*	3/31/11 05:46 p		6.01	GPC27B
						9.09E-02		*(1.9)*			g	
Batch: 1087272	7196_CR6			**Work Order:**	MF3451AA		**Report DB ID:**	9MF34510				
HEXCHROME	***4.01E-01***			0.0E+00	1.48E-01	mg/kg	N/A	*(2.7)*	3/28/11 09:00 a		2.5	
							1.55E-01	*N/A*			g	

TestAmerica
rptSTLRchSample
V5.2.12 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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:15:00 AM
Lot-Sample No.:	J1C230601-7	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJR2	**COC No. :**	RC-074-212	**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

No. of Results: 17 **Comments:**

TestAmerica
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V5.2.12 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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:20:00 AM
Lot-Sample No.:	J1C230601-8	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJR3	**COC No. :**	RC-074-212	**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: 1083099	GAMMA_GS			**Work Order:** MF3461AH			**Report DB ID:** 9MF34610					
AG-108M	***-8.73E-03***	U	1.5E-02	1.5E-02	2.47E-02	pCi/g		*-0.35*	3/25/11 04:01 a		362.6	GER7$1
								-(1.2)			g	
AMERICIUM 241	***-7.76E-03***	U	6.1E-02	6.1E-02	9.86E-02	pCi/g		*-0.08*	3/25/11 04:01 a		362.6	GER7$1
								-0.25			g	
CO-60	***-6.23E-03***	U	1.7E-02	1.7E-02	2.98E-02	pCi/g		*-0.21*	3/25/11 04:01 a		362.6	GER7$1
							5.00E-02	*-0.73*			g	
CS-137	***1.81E-02***	U	1.8E-02	1.8E-02	3.31E-02	pCi/g		*0.55*	3/25/11 04:01 a		362.6	GER7$1
							1.00E-01	*(2.1)*			g	
EU-152	***-4.13E-03***	U	5.0E-02	5.0E-02	8.50E-02	pCi/g		*-0.05*	3/25/11 04:01 a		362.6	GER7$1
							1.00E-01	*-0.17*			g	
EU-154	***2.94E-02***	U	6.6E-02	6.6E-02	1.21E-01	pCi/g		*0.24*	3/25/11 04:01 a		362.6	GER7$1
							1.00E-01	*0.9*			g	
EU-155	***-1.15E-02***	U	4.8E-02	4.8E-02	7.88E-02	pCi/g		*-0.15*	3/25/11 04:01 a		362.6	GER7$1
							1.00E-01	*-0.48*			g	
Batch: 1083102	PUISO_PLATE_AEA			**Work Order:** MF3461AF			**Report DB ID:** 9MF34610					
PU-238	***0.00E+00***	U	0.0E+00	5.8E-02	1.08E-01	pCi/g	100%	*0.*	3/30/11 12:59 p		1.01	ALP121
						1.50E-02	1.00E+00	*0.*			g	
PU239/40	***0.00E+00***	U	0.0E+00	5.8E-02	1.08E-01	pCi/g	100%	*0.*	3/30/11 12:59 p		1.01	ALP121
						1.50E-02	1.00E+00	*0.*			g	
Batch: 1083104	UISO_IE_PLATE_AEA			**Work Order:** MF3461AC			**Report DB ID:** 9MF34610					

TestAmerica
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V5.2.12 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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:20:00 AM
Lot-Sample No.:	J1C230601-8	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJR3	**COC No. :**	RC-074-212	**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
U-234	***3.65E-01***		2.1E-01	2.3E-01	1.81E-01	pCi/g	83%	*(2.)*	4/2/11 06:36 a		0.98	ALP4
						5.08E-02	1.00E+00	*(3.2)*			g	
U-235	***-5.90E-03***	U	5.9E-02	5.9E-02	1.41E-01	pCi/g	83%	*-0.04*	4/2/11 06:36 a		0.98	ALP4
						3.06E-02	1.00E+00	*-0.2*			g	
U-238	***1.63E-01***	U	1.4E-01	1.5E-01	1.71E-01	pCi/g	83%	*0.95*	4/2/11 06:36 a		0.98	ALP4
						4.59E-02	1.00E+00	*(2.2)*			g	
							Ratio U-234/238 = 2.2					
Batch: 1083109	C14_CHEM_LSC			**Work Order:**	MF3461AJ		**Report DB ID:**	9MF34610				
C-14	***3.48E-02***	U	1.8E-01	2.0E-01	4.42E-01	pCi/g	100%	*0.08*	4/2/11 07:22 a		5.019	LSC3
						2.08E-01	5.00E+01	*0.35*			g	
Batch: 1083110	NI63_LSC			**Work Order:**	MF3461AE		**Report DB ID:**	9MF34610				
NI-63	***5.53E+00***	U	5.2E+00	6.0E+00	1.22E+01	pCi/g	97%	*0.45*	4/2/11 04:31 p		0.26	LSC3
						5.70E+00	3.00E+01	*(1.8)*			g	
Batch: 1083111	906.0_H3_LSC			**Work Order:**	MF3461AG		**Report DB ID:**	9MF34610				
H-3	***4.49E-02***		8.6E-03	9.1E-03	1.65E-02	pCi/g	100%	*(2.7)*	4/1/11 10:25 a		123.5	LSC3
						7.85E-03	4.00E+02	*(9.9)*			g	
Batch: 1083113	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MF3461AD		**Report DB ID:**	9MF34610				
STRONTIUM	***-3.48E-02***	U	7.7E-02	7.7E-02	1.94E-01	pCi/g	55%	*-0.18*	3/31/11 05:46 p		6.01	GPC31A
						9.00E-02		*-0.9*			g	
Batch: 1087272	7196_CR6			**Work Order:**	MF3461AA		**Report DB ID:**	9MF34610				
HEXCHROME	***4.12E-01***			0.0E+00	1.48E-01	mg/kg	N/A	*(2.8)*	3/28/11 09:00 a		2.5	
							1.55E-01	*N/A*			g	

TestAmerica
rptSTLRchSample
V5.2.12 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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:20:00 AM
Lot-Sample No.:	J1C230601-8	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJR3	**COC No. :**	RC-074-212	**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

No. of Results: 17 **Comments:**

TestAmerica
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V5.2.12 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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 9:40:00 AM
Lot-Sample No.:	J1C230601-9	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJR4	**COC No. :**	RC-074-212	**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: 1083099	GAMMA_GS			**Work Order:** MF3471AH		**Report DB ID:** 9MF34710						
AG-108M	***-2.29E-03***	U	1.2E-02	1.2E-02	1.99E-02	pCi/g		*-0.12*	3/25/11 04:02 a		404.6	GER10$1
								-0.39			g	
AMERICIUM 241	***-1.93E-02***	U	6.2E-02	6.2E-02	1.04E-01	pCi/g		*-0.19*	3/25/11 04:02 a		404.6	GER10$1
								-0.62			g	
CO-60	***-3.16E-03***	U	1.5E-02	1.5E-02	2.50E-02	pCi/g		*-0.13*	3/25/11 04:02 a		404.6	GER10$1
							5.00E-02	*-0.43*			g	
CS-137	***-7.45E-03***	U	1.5E-02	1.5E-02	2.46E-02	pCi/g		*-0.3*	3/25/11 04:02 a		404.6	GER10$1
							1.00E-01	*-(1.)*			g	
EU-152	***-1.60E-02***	U	5.2E-02	5.2E-02	6.81E-02	pCi/g		*-0.24*	3/25/11 04:02 a		404.6	GER10$1
							1.00E-01	*-0.61*			g	
EU-154	***-4.94E-04***	U	4.4E-02	4.4E-02	7.67E-02	pCi/g		*-0.01*	3/25/11 04:02 a		404.6	GER10$1
							1.00E-01	*-0.02*			g	
EU-155	***-3.26E-02***	U	4.8E-02	4.8E-02	7.84E-02	pCi/g		*-0.42*	3/25/11 04:02 a		404.6	GER10$1
							1.00E-01	*-(1.4)*			g	
Batch: 1083102	PUISO_PLATE_AEA			**Work Order:** MF3471AF		**Report DB ID:** 9MF34710						
PU-238	***0.00E+00***	U	0.0E+00	1.0E-01	1.91E-01	pCi/g	68%	*0.*	3/30/11 01:00 p		1.01	ALP123
						2.65E-02	1.00E+00	*0.*			g	
PU239/40	***-2.54E-03***	U	1.0E-01	1.0E-01	1.91E-01	pCi/g	68%	*-0.01*	3/30/11 01:00 p		1.01	ALP123
						2.65E-02	1.00E+00	*-0.05*			g	
Batch: 1083104	UISO_IE_PLATE_AEA			**Work Order:** MF3471AC		**Report DB ID:** 9MF34710						

TestAmerica
rptSTLRchSample
V5.2.12 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

Date: 06-Apr-11

SAMPLE RESULTS

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 9:40:00 AM
Lot-Sample No.:	J1C230601-9	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJR4	**COC No. :**	RC-074-212	**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
U-234	***1.53E-01***		1.2E-01	1.2E-01	1.01E-01	pCi/g	106%	*(1.5)*	4/2/11 06:36 a		1.01	ALP9
						2.02E-02	1.00E+00	*(2.5)*			g	
U-235	***0.00E+00***	U	0.0E+00	4.5E-02	8.39E-02	pCi/g	106%	*0.*	4/2/11 06:36 a		1.01	ALP9
						1.16E-02	1.00E+00	*0.*			g	
U-238	***1.11E-01***		1.0E-01	1.0E-01	8.39E-02	pCi/g	106%	*(1.3)*	4/2/11 06:36 a		1.01	ALP9
						1.16E-02	1.00E+00	*(2.2)*			g	
							Ratio U-234/238 = 1.4					
Batch: 1083109	C14_CHEM_LSC			**Work Order:**	MF3471AJ		**Report DB ID:**	9MF34710				
C-14	***-4.23E-02***	U	1.8E-01	1.9E-01	4.43E-01	pCi/g	100%	*-0.1*	4/2/11 07:45 a		5.02	LSC3
						2.08E-01	5.00E+01	*-0.44*			g	
Batch: 1083110	NI63_LSC			**Work Order:**	MF3471AE		**Report DB ID:**	9MF34710				
NI-63	***1.03E+01***	U	5.6E+00	6.6E+00	1.26E+01	pCi/g	94%	*0.82*	4/2/11 04:54 p		0.26	LSC3
						5.88E+00	3.00E+01	*(3.1)*			g	
Batch: 1083111	906.0_H3_LSC			**Work Order:**	MF3471AG		**Report DB ID:**	9MF34710				
H-3	***1.28E-01***		1.0E-02	1.1E-02	1.43E-02	pCi/g	100%	*(8.9)*	4/1/11 11:48 a		117.9	LSC3
						6.79E-03	4.00E+02	*(23.1)*			g	
Batch: 1083113	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MF3471AD		**Report DB ID:**	9MF34710				
STRONTIUM	***-1.43E-02***	U	7.4E-02	7.4E-02	1.81E-01	pCi/g	57%	*-0.08*	3/31/11 05:46 p		6.0	GPC31B
						8.40E-02		*-0.39*			g	
Batch: 1087272	7196_CR6			**Work Order:**	MF3471AA		**Report DB ID:**	9MF34710				
HEXCHROME	***2.58E-01***			0.0E+00	1.44E-01	mg/kg	N/A	*(1.8)*	3/28/11 09:00 a		2.5	
							1.55E-01	*N/A*			g	

TestAmerica
rptSTLRchSample
V5.2.12 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: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0134	Collection Date:	3/22/2011 9:40:00 AM
Lot-Sample No.:	J1C230601-9	Report No. :	46139	Received Date:	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJR4	COC No. :	RC-074-212	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

No. of Results: 17 Comments:

TestAmerica
rptSTLRchSample
V5.2.12 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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 9:45:00 AM
Lot-Sample No.:	J1C230601-10	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJR5	**COC No. :**	RC-074-212	**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: 1083099	GAMMA_GS			**Work Order:** MF3481AH			**Report DB ID:** 9MF34810					
AG-108M	***-8.10E-03***	U	1.4E-02	1.4E-02	2.28E-02	pCi/g		*-0.36*	3/25/11 07:24 a		375.9	GER15$1
								-(1.2)			g	
AMERICIUM 241	***-1.90E-02***	U	3.0E-02	3.0E-02	5.08E-02	pCi/g		*-0.37*	3/25/11 07:24 a		375.9	GER15$1
								-(1.3)			g	
CO-60	***-1.38E-03***	U	1.7E-02	1.7E-02	3.08E-02	pCi/g		*-0.04*	3/25/11 07:24 a		375.9	GER15$1
							5.00E-02	*-0.16*			g	
CS-137	***1.53E-01***		4.7E-02	4.7E-02	2.93E-02	pCi/g		*(5.2)*	3/25/11 07:24 a		375.9	GER15$1
							1.00E-01	*(6.5)*			g	
EU-152	***3.42E-02***	U	4.9E-02	4.9E-02	8.33E-02	pCi/g		*0.41*	3/25/11 07:24 a		375.9	GER15$1
							1.00E-01	*(1.4)*			g	
EU-154	***-1.90E-02***	U	5.2E-02	5.2E-02	9.09E-02	pCi/g		*-0.21*	3/25/11 07:24 a		375.9	GER15$1
							1.00E-01	*-0.73*			g	
EU-155	***7.69E-02***	U	4.4E-02	4.4E-02	7.73E-02	pCi/g		*1.*	3/25/11 07:24 a		375.9	GER15$1
							1.00E-01	*(3.5)*			g	
Batch: 1083102	PUISO_PLATE_AEA			**Work Order:** MF3481AF			**Report DB ID:** 9MF34810					
PU-238	***3.87E-02***	U	7.8E-02	7.8E-02	1.45E-01	pCi/g	86%	*0.27*	3/30/11 01:00 p		1.0	ALP124
						2.02E-02	1.00E+00	*0.99*			g	
PU239/40	***-1.94E-03***	U	7.8E-02	7.8E-02	1.45E-01	pCi/g	86%	*-0.01*	3/30/11 01:00 p		1.0	ALP124
						2.02E-02	1.00E+00	*-0.05*			g	
Batch: 1083104	UISO_IE_PLATE_AEA			**Work Order:** MF3481AC			**Report DB ID:** 9MF34810					

TestAmerica
rptSTLRchSample
V5.2.12 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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 9:45:00 AM
Lot-Sample No.:	J1C230601-10	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJR5	**COC No. :**	RC-074-212	**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
U-234	***1.59E-01***		1.3E-01	1.4E-01	1.13E-01	pCi/g	82%	*(1.4)*	4/2/11 06:36 a		1.0	ALP11
						1.98E-02	1.00E+00	*(2.3)*			g	
U-235	***5.24E-02***	U	7.6E-02	7.7E-02	1.01E-01	pCi/g	82%	*0.52*	4/2/11 06:36 a		1.0	ALP11
						1.40E-02	1.00E+00	*(1.4)*			g	
U-238	***7.66E-02***	U	9.3E-02	9.5E-02	1.21E-01	pCi/g	82%	*0.63*	4/2/11 06:36 a		1.0	ALP11
						2.43E-02	1.00E+00	*(1.6)*			g	
							Ratio U-234/238 = 2.1					
Batch: 1083109	C14_CHEM_LSC			**Work Order:**	MF3481AJ		**Report DB ID:** 9MF34810					
C-14	***1.71E-01***	U	1.9E-01	2.0E-01	4.41E-01	pCi/g	100%	*0.39*	4/2/11 08:08 a		5.031	LSC3
						2.07E-01	5.00E+01	*(1.7)*			g	
Batch: 1083110	NI63_LSC			**Work Order:**	MF3481AE		**Report DB ID:** 9MF34810					
NI-63	***1.23E+01***	U	5.8E+00	6.8E+00	1.28E+01	pCi/g	93%	*0.96*	4/2/11 05:16 p		0.26	LSC3
						5.97E+00	3.00E+01	*(3.6)*			g	
Batch: 1083111	906.0_H3_LSC			**Work Order:**	MF3481AG		**Report DB ID:** 9MF34810					
H-3	***1.03E-01***		1.4E-02	1.5E-02	2.45E-02	pCi/g	100%	*(4.2)*	4/1/11 01:11 p		112.0	LSC3
						1.17E-02	4.00E+02	*(13.8)*			g	
Batch: 1083113	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MF3481AD		**Report DB ID:** 9MF34810					
STRONTIUM	***1.34E-01***	U	9.5E-02	1.0E-01	1.91E-01	pCi/g	60%	*0.7*	3/31/11 05:46 p		6.0	GPC32A
						8.90E-02		*(2.7)*			g	
Batch: 1087272	7196_CR6			**Work Order:**	MF3481AA		**Report DB ID:** 9MF34810					
HEXCHROME	***4.92E-01***			0.0E+00	1.47E-01	mg/kg	N/A	*(3.3)*	3/28/11 09:00 a		2.5	
							1.55E-01	*N/A*			g	

TestAmerica
rptSTLRchSample
V5.2.12 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: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0134	Collection Date:	3/22/2011 9:45:00 AM
Lot-Sample No.:	J1C230601-10	Report No. :	46139	Received Date:	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJR5	COC No. :	RC-074-212	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

No. of Results: 17 Comments:

TestAmerica
rptSTLRchSample
V5.2.12 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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 9:50:00 AM
Lot-Sample No.:	J1C230601-11	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJR6	**COC No. :**	RC-074-212	**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: 1083099	GAMMA_GS			**Work Order:** MF3491AH			**Report DB ID:** 9MF34910					
AG-108M	***-3.05E-04***	U	1.0E-02	1.0E-02	1.78E-02	pCi/g		*-0.02*	3/25/11 07:24 a		382.2	GER11$1
								-0.06			g	
AMERICIUM 241	***-4.39E-02***	U	8.8E-02	8.8E-02	1.43E-01	pCi/g		*-0.31*	3/25/11 07:24 a		382.2	GER11$1
								-(1.)			g	
CO-60	***-1.09E-02***	U	1.5E-02	1.5E-02	2.38E-02	pCi/g		*-0.46*	3/25/11 07:24 a		382.2	GER11$1
							5.00E-02	*-(1.5)*			g	
CS-137	***8.05E-03***	U	1.4E-02	1.4E-02	2.53E-02	pCi/g		*0.32*	3/25/11 07:24 a		382.2	GER11$1
							1.00E-01	*(1.1)*			g	
EU-152	***-1.36E-02***	U	3.3E-02	3.3E-02	5.42E-02	pCi/g		*-0.25*	3/25/11 07:24 a		382.2	GER11$1
							1.00E-01	*-0.83*			g	
EU-154	***1.47E-02***	U	4.8E-02	4.8E-02	8.47E-02	pCi/g		*0.17*	3/25/11 07:24 a		382.2	GER11$1
							1.00E-01	*0.62*			g	
EU-155	***3.12E-02***	U	3.8E-02	3.8E-02	6.60E-02	pCi/g		*0.47*	3/25/11 07:24 a		382.2	GER11$1
							1.00E-01	*(1.7)*			g	
Batch: 1083102	PUISO_PLATE_AEA			**Work Order:** MF3491AF			**Report DB ID:** 9MF34910					
PU-238	***-3.77E-03***	U	7.5E-02	7.5E-02	1.57E-01	pCi/g	77%	*-0.02*	3/30/11 01:00 p		0.99	ALP125
						2.77E-02	1.00E+00	*-0.1*			g	
PU239/40	***3.57E-02***	U	7.5E-02	7.6E-02	1.41E-01	pCi/g	77%	*0.25*	3/30/11 01:00 p		0.99	ALP125
						1.96E-02	1.00E+00	*0.94*			g	
Batch: 1083104	UISO_IE_PLATE_AEA			**Work Order:** MF3491AC			**Report DB ID:** 9MF34910					

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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 9:50:00 AM
Lot-Sample No.:	J1C230601-11	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJR6	**COC No. :**	RC-074-212	**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
U-234	***6.78E-02***	U	8.0E-02	8.1E-02	8.62E-02	pCi/g	98%	*0.79*	4/2/11 06:36 a		1.02	ALP12
						1.20E-02	1.00E+00	*(1.7)*			g	
U-235	***-1.15E-03***	U	4.6E-02	4.6E-02	8.62E-02	pCi/g	98%	*-0.01*	4/2/11 06:36 a		1.02	ALP12
						1.20E-02	1.00E+00	*-0.05*			g	
U-238	***1.57E-01***		1.2E-01	1.3E-01	1.04E-01	pCi/g	98%	*(1.5)*	4/2/11 06:36 a		1.02	ALP12
						2.07E-02	1.00E+00	*(2.5)*			g	
								Ratio U-234/238 = 0.4				
Batch: 1083109	C14_CHEM_LSC			**Work Order:**	MF3491AJ		**Report DB ID:**	9MF34910				
C-14	***1.24E-01***	U	1.9E-01	2.0E-01	4.42E-01	pCi/g	100%	*0.28*	4/2/11 08:54 a		5.03	LSC3
						2.08E-01	5.00E+01	*(1.2)*			g	
Batch: 1083110	NI63_LSC			**Work Order:**	MF3491AE		**Report DB ID:**	9MF34910				
NI-63	***7.18E+00***	U	5.7E+00	6.6E+00	1.32E+01	pCi/g	90%	*0.54*	4/2/11 06:03 p		0.26	LSC3
						6.17E+00	3.00E+01	*(2.2)*			g	
Batch: 1083111	906.0_H3_LSC			**Work Order:**	MF3491AG		**Report DB ID:**	9MF34910				
H-3	***7.47E-02***		1.3E-02	1.3E-02	2.38E-02	pCi/g	100%	*(3.1)*	4/1/11 03:58 p		108.3	LSC3
						1.13E-02	4.00E+02	*(11.1)*			g	
Batch: 1083113	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MF3491AD		**Report DB ID:**	9MF34910				
STRONTIUM	***5.23E-03***	U	7.2E-02	7.3E-02	1.71E-01	pCi/g	66%	*0.03*	3/31/11 05:46 p		6.0	GPC32B
						7.97E-02		*0.14*			g	
Batch: 1087272	7196_CR6			**Work Order:**	MF3491AA		**Report DB ID:**	9MF34910				
HEXCHROME	***5.95E-01***			0.0E+00	1.54E-01	mg/kg	N/A	*(3.9)*	3/28/11 09:00 a		2.5	
							1.55E-01	*N/A*			g	

TestAmerica
rptSTLRchSample
V5.2.12 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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 9:50:00 AM
Lot-Sample No.:	J1C230601-11	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJR6	**COC No. :**	RC-074-212	**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

No. of Results: 17 Comments:

TestAmerica
rptSTLRchSample
V5.2.12 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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 12:00:00 PM
Lot-Sample No.:	J1C230601-12	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJR7	**COC No. :**	RC-074-212	**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: 1083099	GAMMA_GS			**Work Order:** MF35A1AH			**Report DB ID:** 9MF35A10					
AG-108M	***-1.27E-02***	U	1.5E-02	1.5E-02	2.43E-02	pCi/g		*-0.52*	3/25/11 07:24 a		394.7	GER7$1
								-(1.7)			g	
AMERICIUM 241	***-2.23E-03***	U	6.1E-02	6.1E-02	1.03E-01	pCi/g		*-0.02*	3/25/11 07:24 a		394.7	GER7$1
								-0.07			g	
CO-60	***2.82E-03***	U	1.8E-02	1.8E-02	3.30E-02	pCi/g		*0.09*	3/25/11 07:24 a		394.7	GER7$1
							5.00E-02	*0.31*			g	
CS-137	***1.65E-03***	U	1.9E-02	1.9E-02	3.42E-02	pCi/g		*0.05*	3/25/11 07:24 a		394.7	GER7$1
							1.00E-01	*0.17*			g	
EU-152	***-4.00E-03***	U	5.4E-02	5.4E-02	8.61E-02	pCi/g		*-0.05*	3/25/11 07:24 a		394.7	GER7$1
							1.00E-01	*-0.15*			g	
EU-154	***2.02E-02***	U	6.0E-02	6.0E-02	1.10E-01	pCi/g		*0.18*	3/25/11 07:24 a		394.7	GER7$1
							1.00E-01	*0.67*			g	
EU-155	***2.51E-03***	U	4.7E-02	4.7E-02	7.88E-02	pCi/g		*0.03*	3/25/11 07:24 a		394.7	GER7$1
							1.00E-01	*0.11*			g	
Batch: 1083102	PUISO_PLATE_AEA			**Work Order:** MF35A1AF			**Report DB ID:** 9MF35A10					
PU-238	***0.00E+00***	U	0.0E+00	7.8E-02	1.46E-01	pCi/g	97%	*0.*	3/30/11 01:01 p		1.0	ALP127
						2.03E-02	1.00E+00	*0.*			g	
PU239/40	***0.00E+00***	U	0.0E+00	7.8E-02	1.46E-01	pCi/g	97%	*0.*	3/30/11 01:01 p		1.0	ALP127
						2.03E-02	1.00E+00	*0.*			g	
Batch: 1083104	UISO_IE_PLATE_AEA			**Work Order:** MF35A1AC			**Report DB ID:** 9MF35A10					

TestAmerica
rptSTLRchSample
V5.2.12 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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 12:00:00 PM
Lot-Sample No.:	J1C230601-12	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJR7	**COC No. :**	RC-074-212	**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
U-234	***2.02E-01***		1.5E-01	1.6E-01	1.22E-01	pCi/g	82%	*(1.6)*	4/2/11 06:37 a		1.01	ALP71
						2.15E-02	1.00E+00	*(2.5)*			g	
U-235	***-1.17E-03***	U	5.8E-02	5.8E-02	1.06E-01	pCi/g	82%	*-0.01*	4/2/11 06:37 a		1.01	ALP71
						1.36E-02	1.00E+00	*-0.04*			g	
U-238	***3.50E-01***		2.0E-01	2.2E-01	9.84E-02	pCi/g	82%	*(3.6)*	4/2/11 06:37 a		1.01	ALP71
						9.62E-03	1.00E+00	*(3.2)*			g	
								Ratio U-234/238 = 0.6				
Batch: 1083109	C14_CHEM_LSC			**Work Order:**	MF35A1AJ		**Report DB ID:**	9MF35A10				
C-14	***2.35E-01***	U	1.9E-01	2.1E-01	4.42E-01	pCi/g	100%	*0.53*	4/2/11 09:17 a		5.026	LSC3
						2.08E-01	5.00E+01	*(2.3)*			g	
Batch: 1083110	NI63_LSC			**Work Order:**	MF35A1AE		**Report DB ID:**	9MF35A10				
NI-63	***1.09E+01***	U	5.5E+00	6.4E+00	1.20E+01	pCi/g	95%	*0.91*	4/2/11 06:25 p		0.27	LSC3
						5.61E+00	3.00E+01	*(3.4)*			g	
Batch: 1083111	906.0_H3_LSC			**Work Order:**	MF35A1AG		**Report DB ID:**	9MF35A10				
H-3	***3.76E-02***		1.4E-02	1.4E-02	2.90E-02	pCi/g	100%	*(1.3)*	4/1/11 05:21 p		111.9	LSC3
						1.38E-02	4.00E+02	*(5.2)*			g	
Batch: 1083113	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MF35A1AD		**Report DB ID:**	9MF35A10				
STRONTIUM	***1.19E-02***	U	7.3E-02	7.3E-02	1.72E-01	pCi/g	63%	*0.07*	3/31/11 05:46 p		6.01	GPC32C
						7.97E-02		*0.32*			g	
Batch: 1087272	7196_CR6			**Work Order:**	MF35A1AA		**Report DB ID:**	9MF35A10				
HEXCHROME	***4.20E-01***			0.0E+00	1.48E-01	mg/kg	N/A	*(2.8)*	3/28/11 09:00 a		2.5	
							1.55E-01	*N/A*			g	

TestAmerica
rptSTLRchSample
V5.2.12 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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 12:00:00 PM
Lot-Sample No.:	J1C230601-12	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJR7	**COC No. :**	RC-074-212	**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

No. of Results: 17 Comments:

TestAmerica
rptSTLRchSample
V5.2.12 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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 12:00:00 PM
Lot-Sample No.:	J1C230601-12	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJR7	**COC No. :**	RC-074-212	**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

TestAmerica
rptSTLRchSample
V5.2.12 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: 06-Apr-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:35:00 AM
Lot-Sample No.:	J1C230601-1	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP6	**COC No. :**	RC-074-212	**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: 1087272	7196_CR6			**Work Order:** MF34Q1AN		**Report DB ID:** MF34Q1ER			**Orig Sa DB ID:** 9MF34Q10			
HEXCHROME	3.72E-01			0.0E+00	1.48E-01	mg/kg	N/A	(2.5)	3/28/11 09:00 a		2.5	
	3.00E-01		**RPD**	**21.4**		3.50E-01		N/A			g	

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

TestAmerica **RPD** - Relative Percent Difference.

rptSTLRchDupV5.2 .12 A2002 **MDC|MDA,Lc** - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.

FORM II

Date: 06-Apr-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:35:00 AM
Lot-Sample No.:	J1C230601-1	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP6 DUP	**COC No. :**	RC-074-212	**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: 1083099	GAMMA_GS			**Work Order:**	MF34Q1AK	**Report DB ID:**	MF34Q1KR		**Orig Sa DB ID:** 9MF34Q10			
AG-108M	-1.29E-02	U	1.6E-02	1.6E-02	2.66E-02	pCi/g		-0.49	3/25/11 12:02 a		417.9	GER14$1
	-2.30E-03	U	**RPD**	**-139.5**				-(1.6)			g	
AMERICIUM 241	-2.78E-02	U	3.3E-02	3.3E-02	5.41E-02	pCi/g		-0.51	3/25/11 12:02 a		417.9	GER14$1
	5.30E-03	U	**RPD**	**-294.3**				-(1.7)			g	
CO-60	9.65E-03	U	1.8E-02	1.8E-02	3.32E-02	pCi/g		0.29	3/25/11 12:02 a		417.9	GER14$1
	-6.53E-04	U	**RPD**	**229.0**		5.00E-02		(1.1)			g	
CS-137	-9.92E-04	U	1.8E-02	1.8E-02	3.06E-02	pCi/g		-0.03	3/25/11 12:02 a		417.9	GER14$1
	2.34E-03	U	**RPD**	**494.9**		1.00E-01		-0.11			g	
EU-152	-1.88E-02	U	5.2E-02	5.2E-02	8.52E-02	pCi/g		-0.22	3/25/11 12:02 a		417.9	GER14$1
	-3.45E-03	U	**RPD**	**-138.0**		1.00E-01		-0.72			g	
EU-154	-7.85E-02	U	5.9E-02	5.9E-02	8.90E-02	pCi/g		-0.88	3/25/11 12:02 a		417.9	GER14$1
	-1.74E-02	U	**RPD**	**-127.4**		1.00E-01		-(2.7)			g	
EU-155	-9.87E-04	U	4.8E-02	4.8E-02	8.04E-02	pCi/g		-0.01	3/25/11 12:02 a		417.9	GER14$1
	2.24E-02	U	**RPD**	**218.5**		1.00E-01		-0.04			g	

No. of Results: 7 **Comments:**

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: 06-Apr-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:40:00 AM
Lot-Sample No.:	J1C230601-2	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP7 DUP	**COC No. :**	RC-074-212	**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: 1083102	PUISO_PLATE_AEA			**Work Order:** MF3401AK		**Report DB ID:** MF3401KR			**Orig Sa DB ID:** 9MF34010			
PU-238	-2.07E-03	U	8.3E-02	8.3E-02	1.55E-01	pCi/g	77%	-0.01	3/30/11 12:57 p		1.0	ALP40
	-1.74E-03	U	**RPD**	**-17.4**		1.00E+00		-0.05			g	
PU239/40	-2.07E-03	U	8.3E-02	8.3E-02	1.55E-01	pCi/g	77%	-0.01	3/30/11 12:57 p		1.0	ALP40
	-1.74E-03	U	**RPD**	**-17.4**		1.00E+00		-0.05			g	

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

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: 06-Apr-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:45:00 AM
Lot-Sample No.:	J1C230601-3	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP8 DUP	**COC No. :**	RC-074-212	**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: 1083104	UISO_IE_PLATE_AEA			Work Order: MF3411AK		Report DB ID: MF3411KR			Orig Sa DB ID: 9MF34110			
U-234	2.23E-01		1.6E-01	1.7E-01	1.18E-01	pCi/g	74%	(1.9)	4/2/11 02:24 a		1.06	ALP11
	2.00E-01		RPD	11.1		1.00E+00		(2.7)			g	
U-235	-1.41E-03	U	5.7E-02	5.7E-02	1.06E-01	pCi/g	74%	-0.01	4/2/11 02:24 a		1.06	ALP11
	0.00E+00	U	RPD	-200.0		1.00E+00		-0.05			g	
U-238	2.50E-01		1.7E-01	1.8E-01	1.27E-01	pCi/g	74%	(2.)	4/2/11 02:24 a		1.06	ALP11
	8.91E-02	U	RPD	94.9		1.00E+00		(2.8)			g	

Ratio U-234/238 = 0.9 *Alpha Spec Result Sum = 4.7E-01*

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

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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: 06-Apr-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:50:00 AM
Lot-Sample No.:	J1C230601-4	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP9 DUP	**COC No. :**	RC-074-212	**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: 1083109	C14_CHEM_LSC			**Work Order:** MF3421AK		**Report DB ID:** MF3421KR			**Orig Sa DB ID:** 9MF34210			
C-14	1.93E-01	U	1.9E-01	2.1E-01	4.41E-01	pCi/g	100%	0.44	4/2/11 05:51 a		5.028	LSC3
	4.00E-01	U	**RPD**	**69.6**		5.00E+01		(1.9)			g	

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

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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: 06-Apr-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	SDG:	JP0134	Collection Date:	3/22/2011 10:05:00 AM
Lot-Sample No.:	J1C230601-5	Report No. :	46139	Received Date:	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJR0 DUP	COC No. :	RC-074-212	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: 1083110	NI63_LSC			Work Order: MF3431AK		Report DB ID: MF3431KR			Orig Sa DB ID: 9MF34310			
NI-63	4.12E+00	U	5.5E+00	6.4E+00	1.32E+01	pCi/g	94%	0.31	4/2/11 03:22 p		0.25	LSC3
	5.50E+00	U	RPD 28.8			3.00E+01		(1.3)			g	

No. of Results: 1 Comments:

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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: 06-Apr-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:10:00 AM
Lot-Sample No.:	J1C230601-6	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJR1 DUP	**COC No. :**	RC-074-212	**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: 1083111	906.0_H3_LSC			**Work Order:** MF3441AK		**Report DB ID:** MF3441KR			**Orig Sa DB ID:** 9MF34410			
H-3	1.23E-02	U	1.1E-02	1.2E-02	2.59E-02	pCi/g	100%	0.47	4/1/11 07:39 a		66.1	LSC3
	1.10E-02	U	**RPD**	**11.0**		4.00E+02		(2.1)			g	

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

TestAmerica
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.12 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: 06-Apr-11

DUPLICATE RESULTS

Lab Name:	**TestAmerica**	**SDG:**	JP0134	**Collection Date:**	3/22/2011 10:15:00 AM
Lot-Sample No.:	**J1C230601-7**	**Report No. :**	46139	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	**J1FJR2 DUP**	**COC No. :**	RC-074-212	**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: 1083113	SRTOT_SEP_PRECIP_GPC			**Work Order:** MF3451AK		**Report DB ID:** MF3451KR			**Orig Sa DB ID:** 9MF34510			
STRONTIUM	1.38E-01	U	1.0E-01	1.1E-01	2.05E-01	pCi/g	54%	0.67	3/31/11 05:46 p		6.0	GPC27C
	8.85E-02	U	**RPD**	**44.0**				(2.6)			g	

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

TestAmerica
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.12 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: 06-Apr-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0134

Report No. : 46139

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: 1087272	7196_CR6			**Work Order:**	MF8841AA		**Report DB ID:**	MF8841AB				
HEXCHROME	1.83E-01			0.0E+00	1.55E-01	mg/kg	N/A	(1.2)	3/28/11 09:00 a		2.5	
						1.55E-01		N/A			g	
Batch: 1083109	C14_CHEM_LSC			**Work Order:**	MF4FT1AA		**Report DB ID:**	MF4FT1AB				
C-14	3.06E-03	U	4.7E-03	5.1E-03	1.11E-02	pCi/g	100%	0.28	4/2/11 09:39 a		200.0	LSC3
					5.22E-03	5.00E+01		(1.2)			g	
Batch: 1083102	PUISO_PLATE_AEA			**Work Order:**	MF4FH1AA		**Report DB ID:**	MF4FH1AB				
PU-238	0.00E+00	U	0.0E+00	7.4E-02	1.38E-01	pCi/g	99%	0.	3/30/11 01:01 p		1.0	ALP128
					1.92E-02	1.00E+00		0.			g	
PU239/40	0.00E+00	U	0.0E+00	7.4E-02	1.38E-01	pCi/g	99%	0.	3/30/11 01:01 p		1.0	ALP128
					1.92E-02	1.00E+00		0.			g	
Batch: 1083104	UISO_IE_PLATE_AEA			**Work Order:**	MF4FN1AA		**Report DB ID:**	MF4FN1AB				
U-234	4.06E-02	U	9.7E-02	9.7E-02	2.21E-01	pCi/g	55%	0.18	4/2/11 06:37 a		1.06	ALP84
					4.50E-02	1.00E+00		0.83			g	
U-235	-2.91E-03	U	9.7E-02	9.7E-02	1.86E-01	pCi/g	55%	-0.02	4/2/11 06:37 a		1.06	ALP84
					2.76E-02	1.00E+00		-0.06			g	
U-238	4.35E-02	U	9.7E-02	9.7E-02	2.02E-01	pCi/g	55%	0.22	4/2/11 06:37 a		1.06	ALP84
					3.56E-02	1.00E+00		0.89			g	
							Ratio U-234/238 = 0.9					
Batch: 1083110	NI63_LSC			**Work Order:**	MF4F71AA		**Report DB ID:**	MF4F71AB				
NI-63	2.51E+00	U	5.2E+00	6.0E+00	1.25E+01	pCi/g	95%	0.2	4/2/11 06:48 p		0.26	LSC3
					5.85E+00	3.00E+01		0.84			g	
Batch: 1083111	906.0_H3_LSC			**Work Order:**	MF4GE1AA		**Report DB ID:**	MF4GE1AB				

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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 II

BLANK RESULTS

Date: 06-Apr-11

Lab Name: TestAmerica **SDG:** JP0134

Matrix: SOIL **Report No. :** 46139

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	4.50E-02	U	2.2E-02	2.3E-02	4.87E-02	pCi/g	100%	0.92	4/1/11 06:44 p		70.7	LSC3
					2.31E-02	4.00E+02		(3.8)			g	
Batch: 1083099	GAMMA_GS			**Work Order:**	MF4FA1AA		**Report DB ID:**	MF4FA1AB				
AG-108M	-5.16E-03	U	1.1E-02	1.1E-02	1.74E-02	pCi/g		-0.3	3/25/11 07:25 a		348.0	GER10$1
								-0.98			g	
AMERICIUM 241	-6.25E-02	U	4.4E-02	4.4E-02	6.87E-02	pCi/g		-0.91	3/25/11 07:25 a		348.0	GER10$1
								-(2.9)			g	
CO-60	7.92E-03	U	1.2E-02	1.2E-02	2.30E-02	pCi/g		0.34	3/25/11 07:25 a		348.0	GER10$1
						5.00E-02		(1.3)			g	
CS-137	-3.70E-05	U	1.1E-02	1.1E-02	1.90E-02	pCi/g		0.	3/25/11 07:25 a		348.0	GER10$1
						1.00E-01		-0.01			g	
EU-152	-7.38E-03	U	3.5E-02	3.5E-02	5.31E-02	pCi/g		-0.14	3/25/11 07:25 a		348.0	GER10$1
						1.00E-01		-0.42			g	
EU-154	2.39E-02	U	2.9E-02	2.9E-02	5.83E-02	pCi/g		0.41	3/25/11 07:25 a		348.0	GER10$1
						1.00E-01		(1.6)			g	
EU-155	-1.37E-02	U	2.9E-02	2.9E-02	4.86E-02	pCi/g		-0.28	3/25/11 07:25 a		348.0	GER10$1
						1.00E-01		-0.94			g	
Batch: 1083113	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MF4GT1AA		**Report DB ID:**	MF4GT1AB				
STRONTIUM	2.76E-02	U	6.1E-02	6.1E-02	1.37E-01	pCi/g	92%	0.2	3/31/11 05:46 p		6.02	GPC32D
					6.41E-02			0.9			g	

No. of Results: 17 **Comments:**

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 II

LCS RESULTS

Date: 06-Apr-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0134

Report No. : 46139

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: 1087272	7196_CR6			**Work Order:**	MF8841AC		**Report DB ID:**	MF8841AS					
HEXCHROME	1.66E+01			0.0E+00	1.55E-01	mg/kg	N/A	2.00E+01		83%	3/28/11 09:00 a	2.5	
							Rec Limits:	80	120	-0.2		g	
Batch: 1083109	C14_CHEM_LSC			**Work Order:**	MF4FT1AC		**Report DB ID:**	MF4FT1CS					
C-14	7.61E+00		4.3E-01	5.3E-01	4.44E-01	pCi/g	100%	7.35E+00	1.2E-01	104%	4/2/11 10:02 a	5.0	LSC3
							Rec Limits:	70	130	0.0		g	
Batch: 1083102	PUISO_PLATE_AEA			**Work Order:**	MF4FH1AC		**Report DB ID:**	MF4FH1CS					
PU239/40	6.22E+00		9.3E-01	1.6E+00	1.30E-01	pCi/g	100%	6.80E+00	2.1E-01	91%	3/30/11 01:01 p	1.01	ALP130
							Rec Limits:	70	130	-0.1		g	
Batch: 1083104	UISO_IE_PLATE_AEA			**Work Order:**	MF4FN1AC		**Report DB ID:**	MF4FN1CS					
U-234	3.08E+00		5.5E-01	7.9E-01	1.67E-01	pCi/g	149%	3.33E+00	1.0E-01	92%	4/2/11 07:47 a	0.98	ALP3
							Rec Limits:	70	130	-0.1		g	
U-238	3.00E+00		5.5E-01	7.7E-01	1.77E-01	pCi/g	149%	3.49E+00	1.1E-01	86%	4/2/11 07:47 a	0.98	ALP3
							Rec Limits:	70	130	-0.1		g	
Batch: 1083110	NI63_LSC			**Work Order:**	MF4F71AC		**Report DB ID:**	MF4F71CS					
NI-63	5.36E+02		2.0E+01	5.4E+01	1.35E+01	pCi/g	95%	6.36E+02	1.1E+01	84%	4/2/11 07:11 p	0.24	LSC3
							Rec Limits:	70	130	-0.2		g	
Batch: 1083111	906.0_H3_LSC			**Work Order:**	MF4GE1AC		**Report DB ID:**	MF4GE1CS					
H-3	3.05E-01		2.6E-02	2.9E-02	3.90E-02	pCi/g	100%	3.12E-01	9.3E-03	98%	4/1/11 08:07 p	88.9	LSC3
							Rec Limits:	70	130	0.0		g	
Batch: 1083099	GAMMA_GS			**Work Order:**	MF4FA1AC		**Report DB ID:**	MF4FA1CS					
CS-137	1.17E+00		1.7E-01	1.7E-01	3.82E-02	pCi/g		1.09E+00	1.1E-02	108%	3/25/11 11:00 a	350.1	GER15$1
							Rec Limits:	70	130	0.1		g	

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

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FORM II

LCS RESULTS

Date: 06-Apr-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0134

Report No. : 46139

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: 1083113	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MF4GT1AC		**Report DB ID:**	MF4GT1CS					
STRONTIUM	8.54E-01		1.2E-01	2.5E-01	1.26E-01	pCi/g	91%	1.13E+00	3.1E-02	76%	3/31/11 06:48 p	6.01	GPC32C
							Rec Limits:	70	130	-0.2		g	

No. of Results: 9 **Comments:**

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

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FORM II

Date: 06-Apr-11

MATRIX SPIKE RESULTS

Lab Name: TestAmerica **SDG:** JP0134

Lot-Sample No.: J1C230601-1, J1FJP6 **Report No. :** 46139 **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: 1087272	Work Order: MF34Q1AL			Report DB ID: MF34Q1CW			Orig Sa DB ID: 9MF34Q10					
HEXCHROME	7.38E+00			0.0E+00	1.45E-01	mg/kg	N/A	74.27%	9.94E+00	3/28/11 09:00 a	2.5	7196_CR6
	3.00E-01										g	

Number of Results: 1

Comments:

TestAmerica
rptSTLRchMs
V5.2.12 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

3/30/2011 3:10:47 PM

Lot No., Due Date: J1C230601; 03/30/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1083102; RPUISO Pulso by ALP
SDG, Matrix: JP0134; SOIL

1.0 COC

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

2.0 QC Batch

	Yes	No	N/A
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

	Yes	No	N/A
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

	Yes	No	N/A
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

	Yes	No	N/A
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:

First Level Lisa Jutterson **Date** 3/30/11

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 1083102

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= 1.0 pCi/g

Second Level Review: [signature] Date: 3/30/11

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

4/4/2011 2:14:51 PM

Lot No., Due Date: J1C230601; 03/30/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1083104; RUISO UIso by ALP
SDG, Matrix: JP0134; SOIL

1.0 COC

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

2.0 QC Batch

	Yes	No	N/A
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

	Yes	No	N/A
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

	Yes	No	N/A
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

	Yes	No	N/A
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:
NCM 10-17938

First Level [signature] Date 4/4/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1083104

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: Jodie G Date: 4/5/11

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: 10-17938
NCM Initiated By: Lisa Antonson
Date Opened: 04/04/2011
Date Closed:

Classification: **Deficiency**
Status: **PMREVIEW**
Production Area: Environmental - Sep
Tests: Ulso by ALP
Lot #'s (Sample #'s): J1C230601 (1,10,11,12,2,3,4,5,6,7,8,9), J1C240000 (104),
QC Batches: 1083104,

Nonconformance: Technician Error
Subcategory: Laboratory error: analyst error

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	04/04/2011	In this batch, the technician noted that she poured about 5 mls of the blank sample into the LCS. The LCS recovery was high at 149%, the blank was lower but acceptable at 55%. The client was notified of the error and will accept the data.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	04/04/2011	The client was notified.

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: 4/4/2011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

4/1/2011 10:17:15 AM

Lot No., Due Date: J1C230601; 03/30/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1083113; RSRTOT SrTot by GPC
SDG, Matrix: JP0134; 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:

LMA 4/1/11

First Level Lisa Anderson Date 3/ 4/1/11

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 1083113

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= 1.0 pci/g

Second Level Review: Rhonda W Jar Date: 2/1/14

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

3/28/2011 11:19:16 AM

Lot No., Due Date: J1C230601; 03/30/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1083099; RGAMMA Gamma by GER
SDG, Matrix: JP0134; 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:
Elevated Eu MDA's - NCM

First Level [signature] **Date** 3/28/11

TestAmerica Richland
QAS_RADCALCv4.8.44

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 1083099

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/L
See CM #. 10

Second Level Review: [signature] Date 3/28/11

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-17857**
NCM Initiated By: Steven Wheland
Date Opened: 03/28/2011
Date Closed:

Classification: **Anomaly**
Status: **PMREVIEW**
Production Area: Environmental - Prep
Tests: Gamma by GER
Lot #'s (Sample #'s): J1C230601 (1,10,11,12,2,3,4,5,6,7,8,9), J1C240000 (99),
QC Batches: 1083099,

Nonconformance: MDA not met
Subcategory: Data accepted

Problem Description / Root Cause

Name	Date	Description
Steven Wheland	03/28/2011	Some Eu MDA's are elevated due to the short priority counting times.

Corrective Action

Name	Date	Corrective Action
Steven Wheland	03/28/2011	report data

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 3/28/2011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

4/4/2011 4:09:04 PM

Lot No., Due Date: J1C230601; 03/30/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1083111; RTRITIUM H-3 by LSC
SDG, Matrix: JP0134; 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 Ira Anderson **Date** 4/4/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 1083111

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: Jodie Date: 4/5/11

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

4/4/2011 4:44:23 PM

Lot No., Due Date: J1C230601; 03/30/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1083109; RC14 C-14 by LSC
SDG, Matrix: JP0134; SOIL

1.0 COC

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

2.0 QC Batch

	Yes	No	N/A
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

	Yes	No	N/A
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

	Yes	No	N/A
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

	Yes	No	N/A
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:
NCM 10-17942

First Level Tina Anderson **Date** 4/4/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 1083109

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?	✓		✓ J.C 4/5/11
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: Jodie C Date: 4/5/11

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: 10-17942
NCM Initiated By: Lisa Antonson
Date Opened: 04/04/2011
Date Closed:

Classification: **Anomaly**
Status: **PMREVIEW**
Production Area: Counting
Tests: C-14 by LSC
Lot #'s (Sample #'s): J1C230601 (1,10,11,12,2,3,4,5,6,7,8,9), J1C240000 (109),
QC Batches: 1083109,

Nonconformance: Other (describe in detail)
Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	04/04/2011	MF345 had one count that was much higher than the other counts at 47 counts. The other counts were 20, 17 and 18. The first count was deleted as suspected electrostatic discharge.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	04/04/2011	none

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: 4/4/2011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

4/5/2011 11:02:01 AM

Lot No., Due Date: J1C230601; 03/30/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1083110; RNI63 Ni-63 by LSC
SDG, Matrix: JP0134; 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 [signature] **Date** 4/5/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1083110

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: Jodie G Date: 4/5/11

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): 1087272

Lab Sample Numbers or SDG: JP0134

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?			✓	N/A
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?			✓	N/A
6. ICP only: CRDL standard (CRI or CRA) analyzed at required frequency?			✓	N/A
7. ICP only: Interference check samples (ICSA, ICSAB) and HICAL analyzed at the required frequencies and within QC limits?			✓	N/A

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: The MS recovered low at 74.2%. The insoluble MSD recovered within limits at 95 %. PDMS recovered at 84.8%.

Suspect reducing capacity in the sample, but not enough to exhaust the more copious insoluble MSD.

Analyst: H. R Date: 3-28-11

Second-Level Review: [signature] Date: 3-29-11

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-17900**
NCM Initiated By: Hooshang Rahavi
Date Opened: 03/30/2011
Date Closed:

Classification: **Anomaly**
Status: **QAREVIEW**
Production Area: Classical Chemistry
Tests: 7196A
Lot #'s (Sample #'s): J1C230601 (1,10,11,12,2,3,4,5,6,7,8,9), J1C280000 (272),
QC Batches: 1087272,

Nonconformance: QC data exceeded criteria
Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
Hooshang Rahavi	03/30/2011	The MS recovered low at 74%. The insoluble MSD recovered within limits at 95%. PDMS recovered at 83%.

Corrective Action

Name	Date	Corrective Action
Hooshang Rahavi	03/30/2011	Suspect reducing capacity in the sample, but not enough to exhaust the more copious insoluble MSD.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note
Washington Closure Hanford LLC	WAGARR	04/01/2011	04/01/2011	by narrative	

Response	Response Note
No response saved	

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: 4/1/2011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-074-212	Page 1 of 3

Collector: M BLANKENSHIP	Company Contact: D Woolery	Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH
Price Code: ~~8L~~ 8B 3/10/11	Data Turnaround: ~~21~~ 7 Days 3/10/11		
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location: 118-D-2 Excavation Area 3		SAF No.: RC-074
Ice Chest No.: N/A	Field Logbook No.: EL-1607-0910 3/22/11	COA: R118D22000	Method of Shipment: HAND DELIVER
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: N/A		Bill of Lading/Air Bill No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Rad <DOT

Lot # J1C230601
SDG# JP0134
Due 3-30-11

Special Handling and/or Storage

Cool 4 Deg C

J1C230601

Preservation	Cool 4C	Cool 4C	None	None	None	None	None	None	None		
Type of Container	G/P	G/P	G/P	G/P	G/P	G/P	G/P	G/P	G/P		
No. of Container(s)	1	1	1	0	0	0	0	0	1		
Volume	60mL	60mL	500mL	500mL	500mL	500mL	500mL	500mL	60g		
SAMPLE ANALYSIS	See item (4) in Special Instructions. 3/14	Chromium Hex - 7196	See item (2) in Special Instructions.	Isotopic Uranium	Isotopic Plutonium	Nickel-63; Strontium-89,90 -- Total Sr	Technetium-99 3/22/11	Carbon-14; Tritium - H3 Low Level Soil	RCF GEA Shipping Screen 3/10/11		
Sample No.	Matrix *	Sample Date	Sample Time								RCF
J1FJP6	SOIL	3/22/11	1035		X	X	X	X	X	MF340 X	27384
J1FJP7	SOIL	3/22/11	1040		X	X	X	X	X	MF341 X	
J1FJP8	SOIL	3/22/11	1045		X	X	X	X	X	MF342 X	
J1FJP9	SOIL	3/22/11	1050		X	X	X	X	X	MF343 X	
J1FJR0	SOIL	3/22/11	1005		X	X	X	X	X		

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
MATT BLANKENSHIP	3-22-11 1510	D WOOLERY	3/22/11 1510
D WOOLERY	3/22/11 1730	A. Freier	3-22-11 1730
A. Freier	WCH 3-23-11 1550	TALR Cameron Krupa	3-23-11 1556

SPECIAL INSTRUCTIONS

None

(1) ICP Metals - 6010TR (Client 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)
(2) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Silver-108 metastable}

REVIEWED BY JEB
DATE 3-23-11

JP0134

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

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

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-074-212	Page 2 of 3

Collector: M BLANKENSHIP	Company Contact: D Woolery	Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH
Price Code: ~~8L~~ 8B	Data Turnaround: ~~21~~ 7 Days		
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location: 118-D-2 Excavation Area 3		SAF No.: RC-074
Ice Chest No.: N/A	Field Logbook No.: EL-1607-~~09~~10	COA: R118D22000	Method of Shipment: HAND DELIVER
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: N/A		Bill of Lading/Air Bill No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
Potential Rad <DOT
Lot#J1C230601

Special Handling and/or Storage
Cool 4 Deg C
SDG#JP0134
Due 3-30-11

Preservation	Cool 4C	Cool 4C	None	None	None	None	None	None	None		
Type of Container	G/T	G/P	G/P	G/P	G/P	G/P	G/P	G/P	G/P		
No. of Container(s)	1	1	1	0	0	0	0	0	1		
Volume	60mL	60mL	500mL	500mL	500mL	500mL	500mL	500mL	60g		
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	Isotopic Uranium	Isotopic Plutonium	Nickel-63; Strontium-89,90 -- Total Sr	Technetium-99	Carbon-14; Tritium - H3 Low Level Soil	RCF GEA Shipper Screen		
Sample No.	Matrix *	Sample Date	Sample Time								RCF
J1FJR1	SOIL	3/22/11	1010	MF344	X	X	X	X	X	X	27384
J1FJR2	SOIL	3/22/11	1015	MF345	X	X	X	X	X	X	
J1FJR3	SOIL	3/22/11	1020	MF346	X	X	X	X	X	X	
J1FJR4	SOIL	3/22/11	0940	MF347	X	X	X	X	X	X	
J1FJR5	SOIL	3/22/11	0945	MF348	X	X	X	X	X	X	

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From: M BLANKENSHIP	Date/Time: 3-22-11 1510	Received By/Stored In: D WOOLERY	Date/Time: 3/22/11 1510
Relinquished By/Removed From: D WOOLERY	Date/Time: 3/22/11 1730	Received By/Stored In: A. Freier	Date/Time: 1730 3-22-11
Relinquished By/Removed From: LOCH A. Freier	Date/Time: 1550 3-23-11	Received By/Stored In: TALR Cameron Kropa	Date/Time: 1550 3-23-11
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS
None

(1) ICP Metals - 6010TR (Client 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)
(2) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Silver-108 metastable}

REVIEWED BY JEB
DATE 3-23-11

JP0134

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

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

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-074-212	Page 3 of 3
Collector: M BLANKENSHIP	Company Contact: D Woolery; Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH	Price Code: ~~8L~~ 8B 3/10/11
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce.	Sampling Location: 118-D-2 Excavation Area 3	SAF No.: RC-074	Data Turnaround: ~~21~~ 7 Days 3/10/11
Ice Chest No.: N/A	Field Logbook No.: EL-1607-0910 3/22/11; COA: R118D22000	Method of Shipment: HAND DELIVER	
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: N/A	Bill of Lading/Air Bill No.: N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Rad <DOT

Lot#JIC230601
SDG# JP0134
DUE 3-30-11

Special Handling and/or Storage

Cool 4 Deg C

			Preservation	Cool 4C	Cool 4C	None	None	None	None	None	None	None	
			Type of Container	G/P	G/P	G/P	G/P	G/P	G/P	G/P	G/P	G/P	
			No. of Container(s)	1	1	1	0	0	0	0	0	1	
			Volume	60mL	60mL	500mL	500mL	500mL	500mL	500mL	500mL	60g	
SAMPLE ANALYSIS				See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	Isotopic Uranium	Isotopic Plutonium	Nickel-63; Strontium-89,90 – Total Sr	Technetium-99	Carbon-14; Tritium - H3 Low Level Soil	RCF GEA Shipping Screen	
Sample No.	Matrix *	Sample Date	Sample Time										RCF
J1FJR6	SOIL	3/22/11	0950		X	X	X	X	X	MF349 X			27384
J1FJR7	SOIL	3/22/11	1200		X	X	X	X	X	MF35A X			

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From: MBLANKENSHIP	Date/Time: 3-22-11 1516	Received By/Stored In: DWOOLFORD	Date/Time: 3/22/11 1510
Relinquished By/Removed From: DWOOLFORD	Date/Time: 3/22/11 1730	Received By/Stored In: A. Freier	Date/Time: 1730 3-22-11
Relinquished By/Removed From: WCH A. Freier	Date/Time: 1550 3-23-11	Received By/Stored In: TALR Cameron Hoyne	Date/Time: 1550 3-23-11
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

None

(1) ICP Metals - 6010TR (Client 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)
(2) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Silver-108 metastable}

REVIEWED BY JEB
DATE 3-23-11

JP0134

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

Apex™

Analysis Report for RCF27384

J1FJP9 SAF:RC-074 100D/118-D-2 EXCAVATION AREA 3, EX3-4

Non-Reg

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF27384
Sample Description	: J1FJP9 SAF:RC-074 100D/118-D-2 EXCAVATION AREA 3, EX3-4
Sample Type	: 80g pillbox
Sample Size	: 6.200E+01 grams
Facility	: Default
Sample Taken On	: 3/22/2011 10:50:00AM
Acquisition Started	: 3/23/2011 9:44:37AM
Procedure	: 80 Gram Pill Box
Operator	: RCT
Detector Name	: PGTLYNX
Geometry	: 80 Gram Pill Box
Live Time	: 3600.0 seconds
Real Time	: 3602.5 seconds
Dead Time	: 0.07 %
Peak Locate Threshold	: 3.00
Peak Locate Range (in channels)	: 40 - 4096
Peak Area Range (in channels)	: 40 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 3/3/2011
Efficiency Calibration Used Done On	: 3/11/2011
Efficiency Calibration Description	: PGTL 80gPB 030811EC SN82752-238
Sample Number	: 12874

INTERFERENCE CORRECTED REPORT

Nuclide Name		Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40		0.998	1.18E+01	2.56E+00	
PB-212		0.710	8.16E-01	1.58E-01	
RA-226d	@	0.621	5.61E-01	1.32E-01	
TH-232d		0.673	5.90E-01	1.38E-01	
U-238d		0.339	1.35E+00	8.21E-01	

J1C230601

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 3-23-11 1550 GM Screen Result (out) .3 (in) .7 Initials [CK]

Client: WCH SDG #: JP0134 NA [ ] SAF #: RC-074 NA [ ]

Work Order Number: J1C230601 Chain of Custody # RC-074-212

Shipping Container ID: hand delivery NA [ ] Air Bill # _____ NA [CK]

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

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

Item 6 through 10 for samples. Initial appropriate response.

6. Number of samples in shipping container (Each sample may contain multiple bottles): 12 samples @ 1X500ML JAR & 1X60ML JAR per
7. Sample holding times exceeded? NA [ ] Yes [ ] No [CK]
8. Samples have:
   - CK custody seals
   - tape
   - CK appropriate sample labels
   - hazard labels

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

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

See other side for additional comments

Sample Custodian: Cameron J [signature] Date: 3-23-11 1550

Client Informed on _____ by _____ Person contacted _____

[✓] No action necessary; process as is

Project Manager [signature] Date 3/23/11

LS-023, Rev. 12, 10/10

TestAmerica Laboratories, Inc.

3/24/2011 5:31:09 PM

Sample Preparation/Analysis

PRIORITY

Balance Id:1120373922

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

6A Pu Prp PRP003/PRP005, Sep ALP002(~~ALP015~~) ALP016
SO Plutonium-238,239/40 by Alpha Spec
5I CLIENT: HANFORD 3-3-11

Pipet #:

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech: Co.ppt

Batch: 1083102 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: BouslaughP

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 MF34Q-1-AF J1C230601-1-SAMP 03/22/2011 10:35	AmtRec: 1XJAR60MLG,1X500MLP	1.00g,in	PUTC12103 03/17/11,pd 01/01/10,r	50min #Containers: 2		Scr:	Alpha:	Beta:
2 MF340-1-AF J1C230601-2-SAMP 03/22/2011 10:40	AmtRec: 1XJAR60MLG,1X500MLP	0.99g,in	PUTC12104 03/17/11,pd 01/01/10,r	#Containers: 2		Scr:	Alpha:	Beta:
3 MF340-1-AK-X J1C230601-2-DUP 03/22/2011 10:40	AmtRec: 1XJAR60MLG,1X500MLP	1.00g,in	PUTC12105 03/17/11,pd 01/01/10,r	#Containers: 2		Scr:	Alpha:	Beta:
4 MF341-1-AF J1C230601-3-SAMP 03/22/2011 10:45	AmtRec: 1XJAR60MLG,1X500MLP	0.99g,in	PUTC12106 03/17/11,pd 01/01/10,r	#Containers: 2		Scr:	Alpha:	Beta:
5 MF342-1-AF J1C230601-4-SAMP 03/22/2011 10:50	AmtRec: 1XJAR60MLG,1X500MLP	1.01g,in	PUTC12107 03/17/11,pd 01/01/10,r	#Containers: 2		Scr:	Alpha:	Beta:
6 MF343-1-AF J1C230601-5-SAMP 03/22/2011 10:05	AmtRec: 1XJAR60MLG,1X500MLP	1.02g,in	PUTC12108 03/17/11,pd 01/01/10,r	#Containers: 2		Scr:	Alpha:	Beta:
7 MF344-1-AF J1C230601-6-SAMP 03/22/2011 10:10	AmtRec: 1XJAR60MLG,1X500MLP	1.01g,in	PUTC12109 03/17/11,pd 01/01/10,r	#Containers: 2		Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

3/24/2011 5:31:09 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

PRIORITY

Pipet #: _____

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1083102 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BouslaughP

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 MF345-1-AF J1C230601-7-SAMP 03/22/2011 10:15	AmtRec: 1XJAR60MLG,1X500MLP	1.00g,in	PUTC12110 03/17/11,pd 01/01/10,r #Containers: 2	50min		Scr:	Alpha:	Beta:
9 MF346-1-AF J1C230601-8-SAMP 03/22/2011 10:20	AmtRec: 1XJAR60MLG,1X500MLP	1.01g,in	PUTC12111 03/17/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
10 MF347-1-AF J1C230601-9-SAMP 03/22/2011 09:40	AmtRec: 1XJAR60MLG,1X500MLP	1.01g,in	PUTC12112 03/17/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
11 MF348-1-AF J1C230601-10-SAMP 03/22/2011 09:45	AmtRec: 1XJAR60MLG,1X500MLP	1.00g,in	PUTC12113 03/17/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
12 MF349-1-AF J1C230601-11-SAMP 03/22/2011 09:50	AmtRec: 1XJAR60MLG,1X500MLP	0.99g,in	PUTC12114 03/17/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
13 MF35A-1-AF J1C230601-12-SAMP 03/22/2011 12:00	AmtRec: 1XJAR60MLG,1X500MLP	1.00g,in	PUTC12115 03/17/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
14 MF4FH-1-AA-B J1C240000-102-BLK 03/24/2011 08:36 pd	AmtRec:	1.00g,in	PUTC12116 03/17/11,pd 01/01/10,r #Containers: 1			Scr:	Alpha:	Beta:

3/24/2011 5:31:10 PM

Sample Preparation/Analysis

PRIORITY

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

Balance Id:1120373922

Pipet #: _____

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1083102 pCi/g

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BouslaughP

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 MF4FH-1-AC-C J1C240000-102-LCS 03/24/2011 08:36 pd		1.01g,in AmtRec:	PUSK0838 03/10/11,pd #Containers: 1	50min				

Scr: Alpha: Beta:

Comments: MF34Q-SAMP "ISV. Recount DUP on a different detector."

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

MF34Q1AF-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						

MF4FH1AA-BLK:

MF4FH1AC-LCS:

MF34Q1AF-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4FH1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4FH1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc. PS
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3/30/2011 3:10:01 PM

ICOC Fraction Transfer/Status Report

ByDate: 3/30/2010, 4/4/2011, Batch: '1083102', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1083102						
AC		Rev1C	BouslaughP	3/24/2011 5:07:05 PM		
SC			MaucieriS	IsBatched	3/24/2011 8:52:42 AM	ICOC_RADCALC v4.8.49
SC			BouslaughP	InPrep	3/24/2011 5:07:05 PM	RL-PRP-003 REVISION 1
SC			WoodT	Prep1C	3/25/2011 2:56:46 AM	RL-PRP-003 REVISION 1
SC			BouslaughP	Prep1C	3/25/2011 10:28:14 AM	RL-PRP-003 REVISION 1
SC			JorgensonD	Sep1C	3/25/2011 7:13:12 PM	RL-ALP-001 REVISION 2
SC			HoganS	Sep2C	3/30/2011 11:08:53 AM	RL-ALP-016 REVISION 1
SC			BlackCL	InCnt1	3/30/2011 11:33:22 AM	RL-CI-008 REVISION 1
SC			BlackCL	CalcC	3/30/2011 2:18:43 PM	RL-CI-008 REVISION 1
SC			antonsonl	Rev1C	3/30/2011 3:09:26 PM	RL-DR-001 Rev 2
AC			WoodT	3/25/2011 2:56:46		
AC			BouslaughP	3/25/2011 10:28:14		
AC			JorgensonD	3/25/2011 7:13:12 PM		
AC			HoganS	3/30/2011 11:08:53		
AC			BlackCL	3/30/2011 11:33:22		
AC			BlackCL	3/30/2011 2:18:43 PM		
AC			antonsonl	3/30/2011 3:09:26 PM		

AC: Accepting Entry; SC: Status Change

TestAmerica Laboratories, Inc.

3/24/2011 8:52:41 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

PRIORITY

Pipet #: _____

AnalyDueDate: 03/30/2011 JP0134

Sep1 DT/Tm Tech:

Batch: 1083104 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: BouslaughP,WoodT

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 MF34Q-1-AC J1C230601-1-SAMP 03/22/2011 10:35	AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2	1.01g,in	UITC26295 03/17/11,pd 06/15/01,r	50		Scr:	Alpha:	Beta:
2 MF340-1-AC J1C230601-2-SAMP 03/22/2011 10:40	AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2	1.01g,in	UITC26296 03/17/11,pd 06/15/01,r			Scr:	Alpha:	Beta:
3 MF341-1-AC J1C230601-3-SAMP 03/22/2011 10:45	AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2	1.00g,in	UITC26297 03/17/11,pd 06/15/01,r			Scr:	Alpha:	Beta:
4 MF341-1-AK-X J1C230601-3-DUP 03/22/2011 10:45	AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2	1.06g,in	UITC26298 03/17/11,pd 06/15/01,r			Scr:	Alpha:	Beta:
5 MF342-1-AC J1C230601-4-SAMP 03/22/2011 10:50	AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2	1.02g,in	UITC26299 03/17/11,pd 06/15/01,r			Scr:	Alpha:	Beta:
6 MF343-1-AC J1C230601-5-SAMP 03/22/2011 10:05	AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2	1.03g,in	UITC26300 03/17/11,pd 06/15/01,r			Scr:	Alpha:	Beta:
7 MF344-1-AC J1C230601-6-SAMP 03/22/2011 10:10	AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2	1.02g,in	UITC25793 02/24/11,pd 06/15/01,r			Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

3/24/2011 8:52:41 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

PRIORITY

Pipet #: _____

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1083104 SOIL pCi/g PM, Quote: RW2, 27038

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,WoodT

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 MF345-1-AC J1C230601-7-SAMP 03/22/2011 10:15	AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2	0.97g,in	UITC25794 02/24/11,pd 06/15/01,r	50		Scr:	Alpha:	Beta:
9 MF346-1-AC J1C230601-8-SAMP 03/22/2011 10:20	AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2	0.98g,in	UITC25795 02/24/11,pd 06/15/01,r			Scr:	Alpha:	Beta:
10 MF347-1-AC J1C230601-9-SAMP 03/22/2011 09:40	AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2	1.01g,in	UITC25796 02/24/11,pd 06/15/01,r			Scr:	Alpha:	Beta:
11 MF348-1-AC J1C230601-10-SAMP 03/22/2011 09:45	AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2	1.00g,in	UITC25797 02/24/11,pd 06/15/01,r			Scr:	Alpha:	Beta:
12 MF349-1-AC J1C230601-11-SAMP 03/22/2011 09:50	AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2	1.02g,in	UITC25798 02/24/11,pd 06/15/01,r			Scr:	Alpha:	Beta:
13 MF35A-1-AC J1C230601-12-SAMP 03/22/2011 12:00	AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2	1.01g,in	UITC25799 02/24/11,pd 06/15/01,r			Scr:	Alpha:	Beta:
14 MF4FN-1-AA-B J1C240000-104-BLK 03/24/2011 08:36 pd	AmtRec: #Containers: 1	1.06g,in	UITC25800 02/24/11,pd 06/15/01,r			Scr:	Alpha:	Beta:

3/24/2011 8:52:42 PM

Sample Preparation/Analysis

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

PRIORITY

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

AnalyDueDate: 03/30/2011

Batch: 1083104 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 MF4FN-1-AC-C		0.98g,in	UISH1293	50				
J1C240000-104-LCS			03/03/11,pd					
03/24/2011 08:36 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments: MF34Q-SAMP "ISV. Recount DUP on a different detector." 5mL ~~ug~~ of BlK was added to LCS 3-29-11 PRB 3/24/11

~~Sample~~

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

MF34Q1AC-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:

MF4FN1AA-BLK:

MF4FN1AC-LCS:

MF34Q1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4FN1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4FN1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

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4/4/2011 2:11:44 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/4/2010, 4/9/2011, Batch: '1083104', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1083104						
AC		Rev1C	WoodT	3/24/2011 7:47:39 PM		
SC			MaucieriS	IsBatched	3/24/2011 8:52:47 AM	ICOC_RADCALC v4.8.49
SC			WoodT	InPrep	3/24/2011 7:47:39 PM	RL-PRP-003 REVISION 1
SC			WoodT	Prep1C	3/25/2011 2:56:14 AM	RL-PRP-003 REVISION 1
SC			BouslaughP	Prep1C	3/25/2011 10:23:20 AM	RL-PRP-003 REVISION 1
SC			HoganH	Sep1C	3/29/2011 3:48:53 PM	ALP-004 REVISION 1
SC			HoganH	Sep1C	3/29/2011 3:49:06 PM	ALP-004 REVISION 1
SC			HoganH	Sep1C	3/29/2011 3:49:27 PM	ALP-004 REVISION 1
SC			HoganH	Sep2C	4/1/2011 3:05:30 PM	RL-ALP-015 REVISION 1
SC			BlackCL	InCnt1	4/1/2011 3:22:34 PM	RL-CI-008 REVISION 1
SC			ClarkR	CaloC	4/2/2011 2:22:49 PM	RL-CI-008 REVISION 1
SC			antonsonl	Rev1C	4/4/2011 2:11:28 PM	RL-DR-001 Rev 2
AC			WoodT	3/25/2011 2:56:14		
AC			BouslaughP	3/25/2011 10:23:20		
AC			HoganH	3/29/2011 3:48:53 PM		
AC			HoganH	3/29/2011 3:49:06 PM		
AC			HoganH	3/29/2011 3:49:27 PM		
AC			HoganH	4/1/2011 3:05:30 PM		
AC			BlackCL	4/1/2011 3:22:34 PM		
AC			ClarkR	4/2/2011 2:22:49 PM		
AC			antonsonl	4/4/2011 2:11:28 PM		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 10

ICOCFractions v4.8.44

3/24/2011 5:04:23 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

PRIORITY

Pipet #: _____

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech: ~~11/2~~ 3/31/11 APA 11:25 3/31/11 APA

Batch: 1083113 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: BouslaughP

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 MF34Q-1-AD J1C230601-1-SAMP 03/22/2011 10:35		6.00g,in AmtRec: 1XJAR60MLG,1X500MLP	SRTA20795 03/16/11 #Containers: 2	1.5	1.4788g -1.4251g 53.7mg	50min	26A	1811	3/31/11 OAD	Scr: Alpha: Beta:
2 MF340-1-AD J1C230601-2-SAMP 03/22/2011 10:40		6.01g,in AmtRec: 1XJAR60MLG,1X500MLP	SRTA20796 03/16/11 #Containers: 2		1.4720g -1.4241g 47.9mg		26B			Scr: Alpha: Beta:
3 MF341-1-AD J1C230601-3-SAMP 03/22/2011 10:45		6.00g,in AmtRec: 1XJAR60MLG,1X500MLP	SRTA20797 03/16/11 #Containers: 2		1.4781g -1.4230g 55.1mg		26C			Scr: Alpha: Beta:
4 MF342-1-AD J1C230601-4-SAMP 03/22/2011 10:50		6.00g,in AmtRec: 1XJAR60MLG,1X500MLP	SRTA20798 03/16/11 #Containers: 2		1.4621g -1.4095g 52.6mg		26D			Scr: Alpha: Beta:
5 MF343-1-AD J1C230601-5-SAMP 03/22/2011 10:05		6.00g,in AmtRec: 1XJAR60MLG,1X500MLP	SRTA20799 03/16/11 #Containers: 2		1.4646g -1.4175g 47.1mg		27A			Scr: Alpha: Beta:
6 MF344-1-AD J1C230601-6-SAMP 03/22/2011 10:10		6.00g,in AmtRec: 1XJAR60MLG,1X500MLP	SRTA20800 03/16/11 #Containers: 2		1.4757g -1.4306g 45.1mg		27B 3/31/11 OAD			Scr: Alpha: Beta:
7 MF345-1-AD J1C230601-7-SAMP 03/22/2011 10:15		6.01g,in AmtRec: 1XJAR60MLG,1X500MLP	SRTA20801 03/16/11 #Containers: 2		1.4657g -1.4121g 53.6mg		27B			Scr: Alpha: Beta:

TestAmerica Richland Wa. Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 pd - Prep Dt, dc - Date Chg, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

Page 1

ISV - Insufficient Volume for Analysis

WO Cnt: 7

Prep_SamplePrep v4.8 45

3/24/2011 5:04:24 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

PRIORITY

Pipet #:

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech: 11:25 3/31/11 APA

Batch: 1083113 SOIL pCi/g PM, Quote: RW2, 27038

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BouslaughP

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 MF345-1-AK-X J1C230601-7-DUP 03/22/2011 10:15		6.00g,in AmtRec: 1XJAR60MLG,1X500MLP	SRTA20802 03/16/11 #Containers: 2	1.5	1.4858g -1.4317g 54.1mg	50min	27C 3/31/11 AR	1811	3/31/11 OD	
9 MF346-1-AD J1C230601-8-SAMP 03/22/2011 10:20		6.01g,in AmtRec: 1XJAR60MLG,1X500MLP	SRTA20803 03/16/11 #Containers: 2		1.4844g -1.4292g 55.2mg		31A			
10 MF347-1-AD J1C230601-9-SAMP 03/22/2011 09:40		6.00g,in AmtRec: 1XJAR60MLG,1X500MLP	SRTA20804 03/16/11 #Containers: 2		1.4846g -1.4280g 56.6mg		31B			
11 MF348-1-AD J1C230601-10-SAMP 03/22/2011 09:45		6.00g,in AmtRec: 1XJAR60MLG,1X500MLP	SRTA20805 03/16/11 #Containers: 2		1.4665g -1.4066g 59.9mg		32A			
12 MF349-1-AD J1C230601-11-SAMP 03/22/2011 09:50		6.00g,in AmtRec: 1XJAR60MLG,1X500MLP	SRTA20806 03/16/11 #Containers: 2		1.4803g -1.4144g 65.9mg		32B			
13 MF35A-1-AD J1C230601-12-SAMP 03/22/2011 12:00		6.01g,in AmtRec: 1XJAR60MLG,1X500MLP	SRTA20807 03/16/11 #Containers: 2		1.4547g -1.3921g 62.6mg		32C			
14 MF4GT-1-AA-B J1C240000-113-BLK 03/24/2011 08:36 pd		6.02g,in AmtRec: #Containers: 1	SRTA20808 03/16/11		1.5003g -1.4086g 91.7mg		32D			

Scr: Alpha: Beta:

TestAmerica Laboratories, Inc.

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3/24/2011 5:04:24 PM

Sample Preparation/Analysis

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

PRIORITY

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

AnalyDueDate: 03/30/2011

Batch: 1083113 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 MF4GT-1-AC-C J1C240000-113-LCS		6.01g,in	STSB1580 03/10/11	1.5	1.5065g - 1.4153	50min	3K	1913	3/31/11 00	
03/24/2011 08:36 pd		AmtRec:	#Containers: 1		91.2 mg		Scr:	Alpha:		Beta:

Comments: MF34Q-SAMP "ISV. Recount DUP on a different detector."

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

MF34Q1AD-SAMP Constituent List:
Sr-90 RDL:1 pCi/g LCL:70 UCL:130 RPD:35
MF4GT1AA-BLK:

MF4GT1AC-LCS:

MF34Q1AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4GT1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4GT1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

4/1/2011 10:16:44 AM

ICOC Fraction Transfer/Status Report

ByDate: 4/1/2010, 4/6/2011, Batch: '1083113', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1083113						
AC		**Rev1C**	**BouslaughP**	3/24/2011 4:41:50 PM		
SC			MauclerlS	IsBatchod	3/24/2011 8:53:13 AM	ICOC_RADCALC v4.8.49
SC			BouslaughP	InPrep	3/24/2011 4:41:50 PM	RL-PRP-003 REVISION 1
SC			WoodT	Prep1C	3/25/2011 2:57:07 AM	RL-PRP-003 REVISION 1
SC			BouslaughP	Prep1C	3/25/2011 10:27:39 AM	RL-PRP-003 REVISION 1
SC			AshworthA	Sep2C	3/31/2011 1:56:16 PM	RL-GPC-003 REVISION 1
SC			ClarkR	InCnt1	3/31/2011 3:08:42 PM	RL-CI-006 REVISION 1
SC			DawkinsO	CalcC	3/31/2011 11:39:53 PM	RL-CI-006 REVISION 1
SC			antonsonl	Rev1C	4/1/2011 10:16:35 AM	RL-DR-001 Rev 2
AC			**WoodT**	3/25/2011 2:57:07		
AC			**BouslaughP**	3/25/2011 10:27:39		
AC			**AshworthA**	3/31/2011 1:56:16 PM		
AC			**ClarkR**	3/31/2011 3:08:42 PM		
AC			**DawkinsO**	3/31/2011 11:39:53		
AC			**antonsonl**	4/1/2011 10:16:35		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

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Grp Rec Cnt: 7

ICOCFractions v4.8.44

[NUC-LIBR] TRL9P.NLB

3/24/2011 7:12:12 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

PRIORITY

Pipet #:

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1083099 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: BouslaughP

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 MF34Q-1-AH J1C230601-1-SAMP 03/22/2011 10:35			417.90g,in AmtRec: 1XJAR60MLG,1X500MLP	417.90g #Containers: 2		S200	200	G11 Scr:	2347 Alpha:	3/24/11/OR	Beta:
2 MF34Q-1-AK-X J1C230601-1-DUP 03/22/2011 10:35			AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2				G14 Scr:	0323 Alpha:		Beta:
3 MF340-1-AH J1C230601-2-SAMP 03/22/2011 10:40			360.80g,in AmtRec: 1XJAR60MLG,1X500MLP	360.80g #Containers: 2				G15 Scr:	2349 Alpha:		Beta:
4 MF341-1-AH J1C230601-3-SAMP 03/22/2011 10:45			351.50g,in AmtRec: 1XJAR60MLG,1X500MLP	351.50g #Containers: 2				G10. Scr:	0323 Alpha:		Beta:
5 MF342-1-AH J1C230601-4-SAMP 03/22/2011 10:50			384.80g,in AmtRec: 1XJAR60MLG,1X500MLP	384.80g #Containers: 2				G7 Scr:	0323 Alpha:		Beta:
6 MF343-1-AH J1C230601-5-SAMP 03/22/2011 10:05			418.00g,in AmtRec: 1XJAR60MLG,1X500MLP	418.00g #Containers: 2				G15 Scr:	0324 Alpha:		Beta:
7 MF344-1-AH J1C230601-6-SAMP 03/22/2011 10:10			395.80g,in AmtRec: 1XJAR60MLG,1X500MLP	395.80g #Containers: 2				315 Scr:	0324 Alpha:	3/24/11	Beta:

TestAmerica Laboratories, Inc.

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TestAmerica Richland Wa.

Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1
pd - Prep Dt, dc - Date Chg, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

ISV - Insufficient Volume for Analysis

WO Cnt: 7

Prep_SamplePrep v4.8.49

TestAmerica Laboratories, Inc.

3/24/2011 7:12:12 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

PRIORITY

Pipet #: _____

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1083099 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BouslaughP

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 MF345-1-AH J1C230601-7-SAMP 03/22/2011 10:15			387.10g,in AmtRec: 1XJAR60MLG,1X500MLP	387.10g #Containers: 2		5200	200	611 Scr:	0721 Alpha:	3/25/11 Beta:	
~~9 MF346-1-AH~~ J1C230601-8-SAMP 03/22/2011 10:20			362.60g,in AmtRec: 1XJAR60MLG,1X500MLP	362.60g #Containers: 2				611 Scr:	0721 Alpha:		Beta:
~~10 MF347-1-AH~~ J1C230601-9-SAMP 03/22/2011 09:40			404.60g,in AmtRec: 1XJAR60MLG,1X500MLP	404.60g #Containers: 2				610 Scr:	0722 Alpha:		Beta:
~~11 MF348-1-AH~~ J1C230601-10-SAMP 03/22/2011 09:45			375.90g,in AmtRec: 1XJAR60MLG,1X500MLP	375.90g #Containers: 2				615 Scr:	1044 Alpha:	3/25/11 Beta:	
~~12 MF349-1-AH~~ J1C230601-11-SAMP 03/22/2011 09:50			382.20g,in AmtRec: 1XJAR60MLG,1X500MLP	382.20g #Containers: 2				611 Scr:	1044 Alpha:		Beta:
~~13 MF35A-1-AH~~ J1C230601-12-SAMP 03/22/2011 12:00			394.70g,in AmtRec: 1XJAR60MLG,1X500MLP	394.70g #Containers: 2				611 Scr:	1044 Alpha:		Beta:
~~14 MF4FA-1-AA-B~~ J1C240000-99-BLK 03/24/2011 08:36 pd			348.00g,in AmtRec:	348.00g #Containers: 1	osbk			610 Scr:	1045 Alpha:		Beta:

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TestAmerica Richland Wa. Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 pd - Prep Dt, dc - Date Chg, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

Page 2

ISV - Insufficient Volume for Analysis

WO Cnt: 14

Prep_SamplePrep v4.8.49

3/24/2011 7:12:13 PM

Sample Preparation/Analysis

Balance Id:1120373922

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

PRIORITY

Pipet #: _____

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1083099 pCi/g

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WoodT

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 MF4FA-1-AC-C			350.10g,in	350.10g	qc20009	S250	200	615	1420	3/25/11 m	
J1C240000-99-LCS					08/04/09,pd 09/01/09,r						
03/24/2011 08:36 pd		AmtRec:		#Containers: 1				Scr:	Alpha:		Beta:

Comments: MF34Q-SAMP "ISV. Recount DUP on a different detector."

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

MF34Q1AH-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:

MF4FA1AA-BLK:

MF4FA1AC-LCS:

MF34Q1AH-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4FA1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4FA1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

3/28/2011 11:18:32 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/28/2010, 4/2/2011, Batch: '1083099', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1083099						
AC		**Rev1C**	**BouslaughP**	3/24/2011 11:10:55		
SC			MaucieriS	IsBatched	3/24/2011 8:52:34 AM	ICOC_RADCALC v4.8.49
SC			BouslaughP	InPrep	3/24/2011 11:10:55 AM	RL-GAM-001 REVISION 1
SC			WoodT	Prep2C	3/24/2011 7:12:19 PM	RL-GAM-001 REVISION 1
SC			DawkinsO	InCnt1	3/24/2011 8:25:06 PM	RL-CI-007 REVISION 1
SC			DawkinsO	CalcC	3/25/2011 11:33:01 PM	RL-CI-007 REVISION 1
SC			WhelandS	Rev1C	3/28/2011 11:14:49 AM	RL-DR-001 Rev 2
AC			**WoodT**	3/24/2011 7:12:19 PM		
AC			**DawkinsO**	3/24/2011 8:25:06 PM		
AC			**DawkinsO**	3/25/2011 11:33:01		
AC			**WhelandS**	3/28/2011 11:14:49		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

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Grp Rec Cnt: 5

ICOCFractions v4.8.44

7,127

3/24/2011 8:36:29 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

PRIORITY

AnalyDueDate: 03/30/2011

Batch: 1083111 SOIL pCi/g
SEQ Batch, Test: None

PM, Quote: RW2, 27038

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	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MF34Q-1-AG J1C230601-1-SAMP 03/22/2011 10:35	AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2				Scr:	Alpha:	Beta:
2 MF340-1-AG J1C230601-2-SAMP 03/22/2011 10:40	AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2				Scr:	Alpha:	Beta:
3 MF341-1-AG J1C230601-3-SAMP 03/22/2011 10:45	AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2				Scr:	Alpha:	Beta:
4 MF342-1-AG J1C230601-4-SAMP 03/22/2011 10:50	AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2				Scr:	Alpha:	Beta:
5 MF343-1-AG J1C230601-5-SAMP 03/22/2011 10:05	AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2				Scr:	Alpha:	Beta:
6 MF344-1-AG J1C230601-6-SAMP 03/22/2011 10:10	AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2				Scr:	Alpha:	Beta:
7 MF344-1-AK-X J1C230601-6-DUP 03/22/2011 10:10	AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2				Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

3/24/2011 8:36:30 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

AnalyDueDate: 03/30/2011

Batch: 1083111 **SOIL** **pCi/g** **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	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MF345-1-AG								
J1C230601-7-SAMP								
03/22/2011 10:15		AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
9 MF346-1-AG								
J1C230601-8-SAMP								
03/22/2011 10:20		AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
10 MF347-1-AG								
J1C230601-9-SAMP								
03/22/2011 09:40		AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
11 MF348-1-AG								
J1C230601-10-SAMP								
03/22/2011 09:45		AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
12 MF349-1-AG								
J1C230601-11-SAMP								
03/22/2011 09:50		AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
13 MF35A-1-AG								
J1C230601-12-SAMP								
03/22/2011 12:00		AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
14 MF4GE-1-AA-B								
J1C240000-111-BLK								
03/24/2011 08:36 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

3/24/2011 8:36:31 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: 03/30/2011

Batch: 1083111 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 MF4GE-1-AC-C								
J1C240000-111-LCS								
03/24/2011 08:36 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
16 MF4GE-1-AD-BN								
J1C240000-111-IBLK								
03/24/2011 08:36 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
17 MF4GE-1-AE-BN								
J1C240000-111-IBLK								
03/24/2011 08:36 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

MF34Q1AG-SAMP Constituent List:
H-3 RDL:400 pCi/g LCL:70 UCL:130 RPD:35
MF4GE1AA-BLK:

MF4GE1AC-LCS:

MF4GE1AD-IBLK:

MF4GE1AE-IBLK:

MF34Q1AG-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4GE1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

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: 03/30/2011

Batch: 1083111 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:

MF4GE1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4GE1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4GE1AE-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

4/4/2011 4:07:59 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/4/2010, 4/9/2011, Batch: '1083111', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1083111						
AC		Rev1C	**ClarkR**	3/29/2011 9:04:42		
SC			MaucieriS	IsBatched	3/24/2011 8:53:06 AM	ICOC_RADCALC v4.8.49
SC			ClarkR	InCnt1	3/29/2011 9:04:42 AM	RL-CI-005 REVISION 1
SC			DawkinsO	CalcC	4/1/2011 11:34:14 PM	RL-CI-005 REVISION 1
SC			antonsonl	Rev1C	4/4/2011 4:07:47 PM	RL-DR-001 Rev 2
AC			**DawkinsO**	4/1/2011 11:34:14 PM		
AC			**antonsonl**	4/4/2011 4:07:47 PM		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

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Grp Rec Cnt: 3

ICOCFractions v4.8.44

3.14 [redacted]

3/24/2011 8:36:24 AM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

AnalyDueDate: 03/30/2011

Batch: 1083109 SOIL pCi/g PM, Quote: RW2, 27038 PRIORITY
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	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MF34Q-1-AJ J1C230601-1-SAMP 03/22/2011 10:35		5.02g AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2				Scr:	Alpha:	Beta:
2 MF340-1-AJ J1C230601-2-SAMP 03/22/2011 10:40		5.028g AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2				Scr:	Alpha:	Beta:
3 MF341-1-AJ J1C230601-3-SAMP 03/22/2011 10:45		5.002g AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2				Scr:	Alpha:	Beta:
4 MF342-1-AJ J1C230601-4-SAMP 03/22/2011 10:50		5.037g AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2				Scr:	Alpha:	Beta:
5 MF342-1-AK-X J1C230601-4-DUP 03/22/2011 10:50		5.028g AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2				Scr:	Alpha:	Beta:
6 MF343-1-AJ J1C230601-5-SAMP 03/22/2011 10:05		5.024g AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2				Scr:	Alpha:	Beta:
7 MF344-1-AJ J1C230601-6-SAMP 03/22/2011 10:10		5.040g AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2				Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

TestAmerica Laboratories, Inc.

3/24/2011 8:36:25 AM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

AnalyDueDate: 03/30/2011

Batch: 1083109 SOIL pCi/g 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	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MF345-1-AJ J1C230601-7-SAMP 03/22/2011 10:15		5.044g AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2				Scr:	Alpha:	Beta:
9 MF346-1-AJ J1C230601-8-SAMP 03/22/2011 10:20		5.019g AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2				Scr:	Alpha:	Beta:
10 MF347-1-AJ J1C230601-9-SAMP 03/22/2011 09:40		5.020g AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2				Scr:	Alpha:	Beta:
11 MF348-1-AJ J1C230601-10-SAMP 03/22/2011 09:45		5.031g AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2				Scr:	Alpha:	Beta:
12 MF349-1-AJ J1C230601-11-SAMP 03/22/2011 09:50		5.030g AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2				Scr:	Alpha:	Beta:
13 MF35A-1-AJ J1C230601-12-SAMP 03/22/2011 12:00		5.026g AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2				Scr:	Alpha:	Beta:
14 MF4FT-1-AA-B J1C240000-109-BLK 03/24/2011 08:36 pd		AmtRec: #Containers: 1				Scr:	Alpha:	Beta:

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3/24/2011 8:36:26 AM

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: 03/30/2011

Batch: 1083109 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 MF4FT-1-AC-C								
J1C240000-109-LCS								
03/24/2011 08:36 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
16 MF4FT-1-AD-BN								
J1C240000-109-IBLK								
03/24/2011 08:36 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
17 MF4FT-1-AE-BN								
J1C240000-109-IBLK								
03/24/2011 08:36 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

MF34Q1AJ-SAMP Constituent List:
C-14 RDL:50 pCi/g LCL:70 UCL:130 RPD:35
MF4FT1AA-BLK:

MF4FT1AC-LCS:

MF4FT1AD-IBLK:

MF4FT1AE-IBLK:

MF34Q1AJ-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4FT1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

3/24/2011 8:36:26 AM

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: 03/30/2011

Batch: 1083109 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:

```
MF4FT1AC-LCS:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
MF4FT1AD-IBLK:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
MF4FT1AE-IBLK:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

4/4/2011 4:43:05 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/4/2010, 4/9/2011, Batch: '1083109', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1083109						
AC		Rev1C	ClarkR	3/29/2011 9:28:32		
SC			MaucierlS	IsBatched	3/24/2011 8:52:55 AM	ICOC_RADCALC v4.8.49
SC			ClarkR	InCnt1	3/29/2011 9:28:32 AM	RL-CI-005 REVISION 1
SC			DawkinsO	CalcC	4/3/2011 10:26:12 PM	RL-CI-005 REVISION 1
SC			antonsonl	Rev1C	4/4/2011 4:42:32 PM	RL-DR-001 Rev 2
AC			DawkinsO	4/3/2011 10:26:12 PM		
AC			antonsonl	4/4/2011 4:42:32 PM		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

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Grp Rec Cnt: 3

ICOCFractions v4.8.44

3/24/2011 5:54:51 PM

Sample Preparation/Analysis

Balance Id:1120373922

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

AF Ni-63 Prp PRP003/PRP005, Sep LSC017
S4 Nickel by ICP and Nickel-63 by Liquid Scint
5I CLIENT: HANFORD

PRIORITY

Pipet #:

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1083110 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: BouslaughP

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MF34Q-1-AE J1C230601-1-SAMP 03/22/2011 10:35		AmtRec: 1XJAR60MLG,1X500MLP	0.26g,in	0.26g #Containers: 2	NITA3977 03/16/11	1Cmin		Scr:	Alpha:	Beta:
2 MF340-1-AE J1C230601-2-SAMP 03/22/2011 10:40		AmtRec: 1XJAR60MLG,1X500MLP	0.25g,in	0.25g #Containers: 2	NITA3978 03/16/11			Scr:	Alpha:	Beta:
3 MF341-1-AE J1C230601-3-SAMP 03/22/2011 10:45		AmtRec: 1XJAR60MLG,1X500MLP	0.26g,in	0.26g #Containers: 2	NITA3979 03/16/11			Scr:	Alpha:	Beta:
4 MF342-1-AE J1C230601-4-SAMP 03/22/2011 10:50		AmtRec: 1XJAR60MLG,1X500MLP	0.24g,in	0.24g #Containers: 2	NITA3980 03/16/11			Scr:	Alpha:	Beta:
5 MF343-1-AE J1C230601-5-SAMP 03/22/2011 10:05		AmtRec: 1XJAR60MLG,1X500MLP	0.26g,in	0.26g #Containers: 2	NITA3981 03/16/11			Scr:	Alpha:	Beta:
6 MF343-1-AK-X J1C230601-5-DUP 03/22/2011 10:05		AmtRec: 1XJAR60MLG,1X500MLP	0.25g,in	0.25g #Containers: 2	NITA3982 03/16/11			Scr:	Alpha:	Beta:
7 MF344-1-AE J1C230601-6-SAMP 03/22/2011 10:10		AmtRec: 1XJAR60MLG,1X500MLP	0.24g,in	0.24g #Containers: 2	NITA3983 03/16/11			Scr:	Alpha:	Beta:

3/24/2011 5:54:52 PM

Sample Preparation/Analysis

PRIORITY

Balance Id:1120373922

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

AF Ni-63 Prp PRP003/PRP005, Sep LSC017
S4 Nickel by ICP and Nickel-63 by Liquid Scint
5I CLIENT: HANFORD

Pipet #:

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1083110 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BouslaughP

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MF345-1-AE J1C230601-7-SAMP 03/22/2011 10:15		AmtRec: 1XJAR60MLG,1X500MLP	0.26g,in	0.26g #Containers: 2	NITA3984 03/16/11	20min		Scr:	Alpha:	Beta:
9 MF346-1-AE J1C230601-8-SAMP 03/22/2011 10:20		AmtRec: 1XJAR60MLG,1X500MLP	0.26g,in	0.26g #Containers: 2	NITA3985 03/16/11			Scr:	Alpha:	Beta:
10 MF347-1-AE J1C230601-9-SAMP 03/22/2011 09:40		AmtRec: 1XJAR60MLG,1X500MLP	0.26g,in	0.26g #Containers: 2	NITA3986 03/16/11			Scr:	Alpha:	Beta:
11 MF348-1-AE J1C230601-10-SAMP 03/22/2011 09:45		AmtRec: 1XJAR60MLG,1X500MLP	0.26g,in	0.26g #Containers: 2	NITA3987 03/16/11			Scr:	Alpha:	Beta:
12 MF349-1-AE J1C230601-11-SAMP 03/22/2011 09:50		AmtRec: 1XJAR60MLG,1X500MLP	0.26g,in	0.26g #Containers: 2	NITA3988 03/16/11			Scr:	Alpha:	Beta:
13 MF35A-1-AE J1C230601-12-SAMP 03/22/2011 12:00		AmtRec: 1XJAR60MLG,1X500MLP	0.27g,in	0.27g #Containers: 2	NITA3989 03/16/11			Scr:	Alpha:	Beta:
14 MF4F7-1-AA-B J1C240000-110-BLK 03/24/2011 08:36 pd		AmtRec:	0.26g,in	0.26g #Containers: 1	NITA3990 03/16/11			Scr:	Alpha:	Beta:

3/24/2011 5:54:52 PM

Sample Preparation/Analysis

Balance Id:1120373922

AF Ni-63 Prp PRP003/PRP005, Sep LSC017
S4 Nickel by ICP and Nickel-63 by Liquid Scint
5I CLIENT: HANFORD

PRIORITY

Pipet #: _____

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1083110 pCi/g

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BouslaughP

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MF4F7-1-AC-C J1C240000-110-LCS 03/24/2011 08:36 pd		AmtRec:	0.24g,in	0.24g #Containers: 1	NISA1399 03/10/11	2min		Scr:	Alpha:	Beta:
16 MF4F7-1-AD-BN J1C240000-110-IBLK 03/24/2011 08:36 pd		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:
17 MF4F7-1-AE-BN J1C240000-110-IBLK 03/24/2011 08:36 pd		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:

Comments: MF34Q-SAMP "ISV. Recount DUP on a different detector."

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

MF34Q1AE-SAMP Constituent List:
Ni-63 RDL:30 pCi/g LCL:70 UCL:130 RPD:35
MF4F71AA-BLK:

MF4F71AC-LCS:

MF4F71AD-IBLK:

MF4F71AE-IBLK:

MF34Q1AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4F71AA-BLK:

3/24/2011 5:54:52 PM

Sample Preparation/Analysis

AF Ni-63 Prp PRP003/PRP005, Sep LSC017
S4 Nickel by ICP and Nickel-63 by Liquid Scint
5I CLIENT: HANFORD

PRIORITY

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

AnalyDueDate: 03/30/2011

Batch: 1083110 pCi/g
SEQ Batch, Test: None

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	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
MF4F71AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MF4F71AD-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MF4F71AE-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

4/5/2011 11:01:29 AM

ICOC Fraction Transfer/Status Report

ByDate: 4/5/2010, 4/10/2011, Batch: '1083110', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1083110						
AC		**Rev1C**	**BouslaughP**	3/24/2011 5:33:26 PM		
SC			MauclerlS	IsBatched	3/24/2011 8:53:01 AM	ICOC_RADCALC v4.8.49
SC			BouslaughP	InPrep	3/24/2011 5:33:26 PM	RL-PRP-003 REVISION 1
SC			WoodT	Prep1C	3/25/2011 2:56:38 AM	RL-PRP-003 REVISION 1
SC			BouslaughP	Prep1C	3/25/2011 7:29:11 AM	RL-PRP-003 REVISION 1
SC			JorgensonD	Sep2C	3/29/2011 4:12:45 PM	RL-LSC-017 REVISION 1
SC			DawkinsO	InCnt1	3/29/2011 4:33:08 PM	RL-CI-005 REVISION 1
SC			DawkinsO	CalcC	4/3/2011 10:23:55 PM	RL-CI-005 REVISION 1
SC			WhelandS	Rev1C	4/5/2011 11:01:10 AM	RL-DR-001 Rev 2
AC			**WoodT**	3/25/2011 2:56:38		
AC			**BouslaughP**	3/25/2011 7:29:11		
AC			**JorgensonD**	3/29/2011 4:12:45 PM		
AC			**DawkinsO**	3/29/2011 4:33:08 PM		
AC			**DawkinsO**	4/3/2011 10:23:55 PM		
AC			**WhelandS**	4/5/2011 11:01:10		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 7

ICOCFractions v4.8.44

3/28/2011 5:05:52 PM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

AnalyDueDate: 03/30/2011

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

Batch: 1087272 **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:
1 MF34Q-1-AA										
J1C230601-1-SAMP										
03/22/2011 10:35		AmtRec: 1XJAR60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
2 MF34Q-1-AL-S										
J1C230601-1-MS										
03/22/2011 10:35		AmtRec: 1XJAR60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
3 MF34Q-1-AM-D										
J1C230601-1-MSD										
03/22/2011 10:35		AmtRec: 1XJAR60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
4 MF34Q-1-AN-X										
J1C230601-1-DUP										
03/22/2011 10:35		AmtRec: 1XJAR60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
5 MF340-1-AA										
J1C230601-2-SAMP										
03/22/2011 10:40		AmtRec: 1XJAR60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
6 MF341-1-AA										
J1C230601-3-SAMP										
03/22/2011 10:45		AmtRec: 1XJAR60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
7 MF342-1-AA										
J1C230601-4-SAMP										
03/22/2011 10:50		AmtRec: 1XJAR60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

3/28/2011 5:05:52 PM

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: 03/30/2011

Batch: 1087272 **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:
8 MF343-1-AA J1C230601-5-SAMP 03/22/2011 10:05		AmtRec: 1XJAR60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
9 MF344-1-AA J1C230601-6-SAMP 03/22/2011 10:10		AmtRec: 1XJAR60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
10 MF345-1-AA J1C230601-7-SAMP 03/22/2011 10:15		AmtRec: 1XJAR60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
11 MF346-1-AA J1C230601-8-SAMP 03/22/2011 10:20		AmtRec: 1XJAR60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
12 MF347-1-AA J1C230601-9-SAMP 03/22/2011 09:40		AmtRec: 1XJAR60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
13 MF348-1-AA J1C230601-10-SAMP 03/22/2011 09:45		AmtRec: 1XJAR60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
14 MF349-1-AA J1C230601-11-SAMP 03/22/2011 09:50		AmtRec: 1XJAR60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:

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3/28/2011 5:05:52 PM

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: 03/30/2011

Batch: 1087272 **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 **MF35A-1-AA**										
J1C230601-12-SAMP										
03/22/2011 12:00		AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2					Scr:	Alpha:	Beta:
16 **MF884-1-AA-B**										
J1C280000-272-BLK										
03/28/2011 11:34 pd		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:
17 **MF884-1-AC-C**										
J1C280000-272-LCS										
03/28/2011 11:34 pd		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:

Comments: MF34Q-SAMP "ISV. Recount DUP on a different detector."

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

MF34Q1AA-SAMP Constituent List:
  HEXCHROME   RDL:0.1548      mg/kg      LCL:80      UCL:120      RPD:20
MF34Q1AL-MS Constituent List:

MF34Q1AM-MSD:

MF8841AA-BLK:

MF8841AC-LCS:

MF34Q1AA-SAMP Calc Info:
     Uncert Level (#s).: 2      Decay to SaDt: Y      Blk Subt.: N      Sci.Not.: Y      ODRs: B
MF34Q1AL-MS Calc Info:
```

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-13858-1

SDG Number: JP0134

Job Description: SAF# RC-074

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

Attention: Joan H Kessner

RECEIVED
APR 2011

Approved for release.
Kae E Yoder
Project Manager II
4/8/2011 12:33 PM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
04/08/2011

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: 280-13858-1

SDG #: JP0134
SAF#: RC-074

Date SDG Closed: March 24, 2011
Data Deliverable: 7 Day / Summary

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1FJP6	280-13858-1	6010/7471	6010B/7471A
J1FJP7	280-13858-2	6010/7471	6010B/7471A
J1FJP8	280-13858-3	6010/7471	6010B/7471A
J1FJP9	280-13858-4	6010/7471	6010B/7471A
J1FJR0	280-13858-5	6010/7471	6010B/7471A
J1FJR1	280-13858-6	6010/7471	6010B/7471A
J1FJR2	280-13858-7	6010/7471	6010B/7471A
J1FJR3	280-13858-8	6010/7471	6010B/7471A
J1FJR4	280-13858-9	6010/7471	6010B/7471A
J1FJR5	280-13858-10	6010/7471	6010B/7471A
J1FJR6	280-13858-11	6010/7471	6010B/7471A
J1FJR7	280-13858-12	6010/7471	6010B/7471A

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 3/24/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 4.9 C.

TOTAL METALS - SW846 6010B/7471A
Serial dilution of a digestate in batch 280-59237 indicates that physical and chemical interferences are present for several elements. Results have been flagged with an "X".

Low levels of Barium, Calcium and Magnesium are present in the method blank associated with batch 280-59237. Because the concentrations in the method blank are not present at levels greater than the reporting limits, 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 J1FJR4; therefore, control limits are not applicable.

The duplicate analysis of sample J1FJR4 exhibited RPD data outside the control limits for Magnesium, Nickel 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: 280-13858-1
Sdg Number: JP0134

Lab Section	Qualifier	Description
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.
	M	Sample duplicate precision not met.
	X	Serial dilution in the analytical batch indicates that physical and chemical interferences are present.

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Metals	TAL DEN		SW846 3050B
Mercury (CVAA)	TAL DEN	SW846 7471A	
Preparation, Mercury	TAL DEN		SW846 7471A
ASTM D-2216	TAL DEN	ASTM D-2216	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

ASTM = ASTM International

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: 280-13858-1
Sdg Number: JP0134

Method	Analyst	Analyst ID
SW846 6010B	Harre, John K	JKH
SW846 7471A	Stoltz, Katie	KS
ASTM D-2216	Berry III, Paul B	PBB

SAMPLE SUMMARY

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-13858-1	J1FJP6	Solid	03/22/2011 1035	03/24/2011 1000
280-13858-2	J1FJP7	Solid	03/22/2011 1040	03/24/2011 1000
280-13858-3	J1FJP8	Solid	03/22/2011 1045	03/24/2011 1000
280-13858-4	J1FJP9	Solid	03/22/2011 1050	03/24/2011 1000
280-13858-5	J1FJR0	Solid	03/22/2011 1005	03/24/2011 1000
280-13858-6	J1FJR1	Solid	03/22/2011 1010	03/24/2011 1000
280-13858-7	J1FJR2	Solid	03/22/2011 1015	03/24/2011 1000
280-13858-8	J1FJR3	Solid	03/22/2011 1020	03/24/2011 1000
280-13858-9	J1FJR4	Solid	03/22/2011 0940	03/24/2011 1000
280-13858-10	J1FJR5	Solid	03/22/2011 0945	03/24/2011 1000
280-13858-11	J1FJR6	Solid	03/22/2011 0950	03/24/2011 1000
280-13858-12	J1FJR7	Solid	03/22/2011 1200	03/24/2011 1000

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

Client Sample ID: **J1FJP6**

Lab Sample ID: 280-13858-1
Client Matrix: Solid
% Moisture: 6.5

Date Sampled: 03/22/2011 1035
Date Received: 03/24/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-59720	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59237	Lab File ID:	25A2032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	03/28/2011 1315			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5370	X	1.6	5.1
Antimony		0.39	U	0.39	0.62
Arsenic		2.9		0.68	1.0
Barium		46.2	X	0.078	0.51
Beryllium		0.034	U	0.034	0.21
Boron		1.0	U	1.0	2.1
Cadmium		0.055	B	0.042	0.21
Calcium		5710	X	14.5	51.4
Chromium		6.5	X	0.060	0.21
Cobalt		8.3	X	0.10	1.0
Copper		15.0		0.22	1.0
Iron		18800	X	3.9	5.1
Lead		2.6		0.28	0.51
Magnesium		4020	X	3.8	20.6
Manganese		252	X	0.10	1.0
Molybdenum		0.27	U	0.27	2.1
Nickel		9.3	X	0.13	4.1
Potassium		881		42.2	309
Selenium		0.88	U	0.88	1.0
Silicon		190		5.8	10.3
Silver		0.16	U	0.16	0.21
Sodium		290		60.7	123
Vanadium		51.4	X	0.097	2.1
Zinc		39.8	X	0.41	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59226	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Analysis Date:	03/30/2011 1246			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				

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

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

Client Sample ID: **J1FJP7**

Lab Sample ID: 280-13858-2
Client Matrix: Solid
% Moisture: 5.0

Date Sampled: 03/22/2011 1040
Date Received: 03/24/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-59720	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59237	Lab File ID:	25A2032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Analysis Date:	03/28/2011 1318			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4830	X	1.5	4.8
Antimony		0.37	U	0.37	0.58
Arsenic		1.7		0.64	0.97
Barium		47.6	X	0.073	0.48
Beryllium		0.032	U	0.032	0.19
Boron		0.95	U	0.95	1.9
Cadmium		0.054	B	0.040	0.19
Calcium		5300	X	13.6	48.3
Chromium		4.7	X	0.056	0.19
Cobalt		9.2	X	0.097	0.97
Copper		15.1		0.21	0.97
Iron		21700	X	3.7	4.8
Lead		2.0		0.26	0.48
Magnesium		4470	X	3.6	19.3
Manganese		288	X	0.097	0.97
Molybdenum		0.25	U	0.25	1.9
Nickel		9.3	X	0.12	3.9
Potassium		697		39.6	290
Selenium		0.83	U	0.83	0.97
Silicon		198		5.5	9.7
Silver		0.15	U	0.15	0.19
Sodium		316		57.0	116
Vanadium		58.8	X	0.091	1.9
Zinc		40.9	X	0.38	0.97

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59226	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	03/30/2011 1249			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.011	B	0.0054	0.017

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

Client Sample ID: **J1FJP8**

Lab Sample ID: 280-13858-3
Client Matrix: Solid
% Moisture: 7.2

Date Sampled: 03/22/2011 1045
Date Received: 03/24/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-59720	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59237	Lab File ID:	25A2032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	03/28/2011 1320			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6710	X	1.5	4.9
Antimony		0.37	U	0.37	0.59
Arsenic		3.0		0.65	0.98
Barium		65.1	X	0.074	0.49
Beryllium		0.032	U	0.032	0.20
Boron		0.96	U	0.96	2.0
Cadmium		0.076	B	0.040	0.20
Calcium		6670	X	13.8	49.0
Chromium		7.9	X	0.057	0.20
Cobalt		9.0	X	0.098	0.98
Copper		16.6		0.21	0.98
Iron		19900	X	3.7	4.9
Lead		3.4		0.26	0.49
Magnesium		4750	X	3.6	19.6
Manganese		283	X	0.098	0.98
Molybdenum		0.25	U	0.25	2.0
Nickel		13.4	X	0.12	3.9
Potassium		1150		40.2	294
Selenium		0.84	U	0.84	0.98
Silicon		231		5.5	9.8
Silver		0.16	U	0.16	0.20
Sodium		343		57.8	118
Vanadium		48.9	X	0.092	2.0
Zinc		42.5	X	0.39	0.98

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59226	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.68 g
Analysis Date:	03/30/2011 1251			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.47		0.0053	0.016

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

Client Sample ID: **J1FJP9**

Lab Sample ID: 280-13858-4
Client Matrix: Solid
% Moisture: 7.2

Date Sampled: 03/22/2011 1050
Date Received: 03/24/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-59720	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59237	Lab File ID:	25A2032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Analysis Date:	03/28/2011 1322			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7100	X	1.5	4.9
Antimony		0.38	U	0.38	0.59
Arsenic		3.8		0.65	0.99
Barium		85.5	X	0.075	0.49
Beryllium		0.033	U	0.033	0.20
Boron		0.97	U	0.97	2.0
Cadmium		0.071	B	0.041	0.20
Calcium		8980	X	13.9	49.4
Chromium		10.0	X	0.057	0.20
Cobalt		8.8	X	0.099	0.99
Copper		16.4		0.21	0.99
Iron		20800	X	3.8	4.9
Lead		3.8		0.27	0.49
Magnesium		5140	X	3.7	19.8
Manganese		319	X	0.099	0.99
Molybdenum		0.28	B	0.26	2.0
Nickel		11.1	X	0.12	4.0
Potassium		1310		40.5	297
Selenium		0.85	U	0.85	0.99
Silicon		233		5.6	9.9
Silver		0.16	U	0.16	0.20
Sodium		257		58.3	119
Vanadium		52.4	X	0.093	2.0
Zinc		44.0	X	0.39	0.99

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59226	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.69 g
Analysis Date:	03/30/2011 1253			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.074		0.0052	0.016

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

Client Sample ID: **J1FJR0**

Lab Sample ID: 280-13858-5
Client Matrix: Solid
% Moisture: 5.5

Date Sampled: 03/22/2011 1005
Date Received: 03/24/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-59720	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59237	Lab File ID:	25A2032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	03/28/2011 1325			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4600	X	1.5	4.9
Antimony		0.37	U	0.37	0.59
Arsenic		2.1		0.65	0.98
Barium		53.5	X	0.074	0.49
Beryllium		0.032	U	0.032	0.20
Boron		0.96	U	0.96	2.0
Cadmium		0.040	U	0.040	0.20
Calcium		5180	X	13.8	49.0
Chromium		5.0	X	0.057	0.20
Cobalt		9.4	X	0.098	0.98
Copper		16.4		0.21	0.98
Iron		22600	X	3.7	4.9
Lead		2.1		0.26	0.49
Magnesium		4200	X	3.6	19.6
Manganese		278	X	0.098	0.98
Molybdenum		0.25	U	0.25	2.0
Nickel		9.8	X	0.12	3.9
Potassium		759		40.2	294
Selenium		0.84	U	0.84	0.98
Silicon		206		5.5	9.8
Silver		0.16	U	0.16	0.20
Sodium		250		57.8	118
Vanadium		59.1	X	0.092	2.0
Zinc		43.2	X	0.39	0.98

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59226	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.69 g
Analysis Date:	03/30/2011 1256			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				

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

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

Client Sample ID: **J1FJR1**

Lab Sample ID: 280-13858-6
Client Matrix: Solid
% Moisture: 5.4

Date Sampled: 03/22/2011 1010
Date Received: 03/24/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-59720	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59237	Lab File ID:	25A2032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Analysis Date:	03/28/2011 1327			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5230	X	1.5	4.8
Antimony		0.37	U	0.37	0.58
Arsenic		2.2		0.64	0.97
Barium		71.9	X	0.074	0.48
Beryllium		0.032	U	0.032	0.19
Boron		0.95	U	0.95	1.9
Cadmium		0.040	U	0.040	0.19
Calcium		6010	X	13.7	48.5
Chromium		4.3	X	0.056	0.19
Cobalt		9.5	X	0.097	0.97
Copper		20.4		0.21	0.97
Iron		22300	X	3.7	4.8
Lead		2.3		0.26	0.48
Magnesium		4540	X	3.6	19.4
Manganese		289	X	0.097	0.97
Molybdenum		0.25	U	0.25	1.9
Nickel		8.7	X	0.12	3.9
Potassium		833		39.8	291
Selenium		0.83	U	0.83	0.97
Silicon		220		5.5	9.7
Silver		0.16	U	0.16	0.19
Sodium		401		57.2	116
Vanadium		54.7	X	0.091	1.9
Zinc		41.8	X	0.39	0.97

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59226	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	03/30/2011 1258			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0057	U	0.0057	0.017

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

Client Sample ID: **J1FJR2**

Lab Sample ID: 280-13858-7
Client Matrix: Solid
% Moisture: 9.3

Date Sampled: 03/22/2011 1015
Date Received: 03/24/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-59720	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59237	Lab File ID:	25A2032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	03/28/2011 1341			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6990	X	1.6	5.3
Antimony		0.40	U	0.40	0.64
Arsenic		3.2		0.70	1.1
Barium		67.8	X	0.081	0.53
Beryllium		0.035	U	0.035	0.21
Boron		1.0	U	1.0	2.1
Cadmium		0.065	B	0.043	0.21
Calcium		5660	X	15.0	53.0
Chromium		9.3	X	0.062	0.21
Cobalt		7.8	X	0.11	1.1
Copper		13.2		0.23	1.1
Iron		17900	X	4.0	5.3
Lead		3.2		0.29	0.53
Magnesium		4320	X	3.9	21.2
Manganese		290	X	0.11	1.1
Molybdenum		0.28	U	0.28	2.1
Nickel		10.6	X	0.13	4.2
Potassium		1380		43.5	318
Selenium		0.91	U	0.91	1.1
Silicon		349		6.0	10.6
Silver		0.17	U	0.17	0.21
Sodium		230		62.6	127
Vanadium		42.4	X	0.10	2.1
Zinc		38.6	X	0.42	1.1

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59226	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Analysis Date:	03/30/2011 1305			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0057	U	0.0057	0.018

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

Client Sample ID: **J1FJR3**

Lab Sample ID: 280-13858-8
Client Matrix: Solid
% Moisture: 6.1

Date Sampled: 03/22/2011 1020
Date Received: 03/24/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-59720	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59237	Lab File ID:	25A2032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.14 g
Analysis Date:	03/28/2011 1344			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4580	X	1.4	4.7
Antimony		0.35	U	0.35	0.56
Arsenic		1.9		0.62	0.93
Barium		45.3	X	0.071	0.47
Beryllium		0.031	U	0.031	0.19
Boron		0.92	U	0.92	1.9
Cadmium		0.038	U	0.038	0.19
Calcium		5390	X	13.2	46.7
Chromium		4.7	X	0.054	0.19
Cobalt		8.8	X	0.093	0.93
Copper		15.3		0.20	0.93
Iron		20800	X	3.5	4.7
Lead		2.1		0.25	0.47
Magnesium		3960	X	3.5	18.7
Manganese		278	X	0.093	0.93
Molybdenum		0.24	U	0.24	1.9
Nickel		8.5	X	0.11	3.7
Potassium		645		38.3	280
Selenium		0.80	U	0.80	0.93
Silicon		185		5.3	9.3
Silver		0.15	U	0.15	0.19
Sodium		282		55.1	112
Vanadium		57.7	X	0.088	1.9
Zinc		38.4	X	0.37	0.93

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59226	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	03/30/2011 1307			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0057	B	0.0054	0.017

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

Client Sample ID: **J1FJR4**

Lab Sample ID: 280-13858-9
Client Matrix: Solid
% Moisture: 5.0

Date Sampled: 03/22/2011 0940
Date Received: 03/24/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-59720	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59237	Lab File ID:	25A2032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	03/28/2011 1346			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		3240	X	1.4	4.5
Antimony		0.34	U	0.34	0.54
Arsenic		1.6		0.59	0.90
Barium		39.8	X	0.068	0.45
Beryllium		0.030	U	0.030	0.18
Boron		0.88	U	0.88	1.8
Cadmium		0.037	U	0.037	0.18
Calcium		3850	X	12.7	45.0
Chromium		2.9	X	0.052	0.18
Cobalt		7.2	X	0.090	0.90
Copper		12.7		0.20	0.90
Iron		17000	X	3.4	4.5
Lead		1.5		0.24	0.45
Magnesium		2810	X M	3.3	18.0
Manganese		230	X	0.090	0.90
Molybdenum		0.23	U	0.23	1.8
Nickel		5.5	X M	0.11	3.6
Potassium		587		36.9	270
Selenium		0.77	U	0.77	0.90
Silicon		137		5.1	9.0
Silver		0.14	U	0.14	0.18
Sodium		205	M	53.1	108
Vanadium		48.8	X	0.085	1.8
Zinc		32.1	X	0.36	0.90

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59226	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.69 g
Analysis Date:	03/30/2011 1309			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				

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

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

Client Sample ID: **J1FJR5**

Lab Sample ID: 280-13858-10
Client Matrix: Solid
% Moisture: 9.0

Date Sampled: 03/22/2011 0945
Date Received: 03/24/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-59720	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59237	Lab File ID:	25A2032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Analysis Date:	03/28/2011 1356			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7450	X	1.7	5.3
Antimony		0.41	U	0.41	0.64
Arsenic		3.4		0.70	1.1
Barium		77.1	X	0.081	0.53
Beryllium		0.035	U	0.035	0.21
Boron		1.0	U	1.0	2.1
Cadmium		0.066	B	0.044	0.21
Calcium		6400	X	15.0	53.3
Chromium		9.0	X	0.062	0.21
Cobalt		9.6	X	0.11	1.1
Copper		17.3		0.23	1.1
Iron		21500	X	4.1	5.3
Lead		4.0		0.29	0.53
Magnesium		4830	X	3.9	21.3
Manganese		365	X	0.11	1.1
Molybdenum		0.28	U	0.28	2.1
Nickel		11.0	X	0.13	4.3
Potassium		1380		43.7	320
Selenium		0.92	U	0.92	1.1
Silicon		314		6.0	10.7
Silver		0.17	U	0.17	0.21
Sodium		332		62.9	128
Vanadium		53.4	X	0.10	2.1
Zinc		44.2	X	0.42	1.1

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59226	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	03/30/2011 1316			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.011	B	0.0059	0.018

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

Client Sample ID: **J1FJR6**

Lab Sample ID: 280-13858-11
Client Matrix: Solid
% Moisture: 8.9

Date Sampled: 03/22/2011 0950
Date Received: 03/24/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-59720	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59237	Lab File ID:	25A2032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	03/28/2011 1358			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		8130	X	1.6	5.2
Antimony		0.40	U	0.40	0.63
Arsenic		3.7		0.69	1.0
Barium		82.1	X	0.079	0.52
Beryllium		0.034	U	0.034	0.21
Boron		1.3	B	1.0	2.1
Cadmium		0.087	B	0.043	0.21
Calcium		8730	X	14.7	52.2
Chromium		11.4	X	0.061	0.21
Cobalt		8.9	X	0.10	1.0
Copper		17.6		0.23	1.0
Iron		20700	X	4.0	5.2
Lead		5.1		0.28	0.52
Magnesium		4920	X	3.9	20.9
Manganese		332	X	0.10	1.0
Molybdenum		0.27	U	0.27	2.1
Nickel		12.3	X	0.13	4.2
Potassium		1630		42.8	313
Selenium		0.90	U	0.90	1.0
Silicon		347		5.9	10.4
Silver		0.17	U	0.17	0.21
Sodium		236		61.7	125
Vanadium		51.5	X	0.098	2.1
Zinc		47.9	X	0.42	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59226	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Analysis Date:	03/30/2011 1319			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.010	B	0.0060	0.018

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

Client Sample ID: **J1FJR7**

Lab Sample ID: 280-13858-12
Client Matrix: Solid
% Moisture: 7.3

Date Sampled: 03/22/2011 1200
Date Received: 03/24/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-59720	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59237	Lab File ID:	25A2032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	03/28/2011 1400			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4900	X	1.6	5.2
Antimony		0.39	U	0.39	0.62
Arsenic		2.2		0.68	1.0
Barium		47.7	X	0.079	0.52
Beryllium		0.034	U	0.034	0.21
Boron		1.0	U	1.0	2.1
Cadmium		0.044	B	0.043	0.21
Calcium		6360	X	14.6	51.9
Chromium		4.6	X	0.060	0.21
Cobalt		8.5	X	0.10	1.0
Copper		15.5		0.23	1.0
Iron		19700	X	3.9	5.2
Lead		2.1		0.28	0.52
Magnesium		3990	X	3.8	20.8
Manganese		261	X	0.10	1.0
Molybdenum		0.27	U	0.27	2.1
Nickel		7.8	X	0.13	4.2
Potassium		806		42.5	311
Selenium		0.89	U	0.89	1.0
Silicon		253		5.9	10.4
Silver		0.17	U	0.17	0.21
Sodium		323		61.2	125
Vanadium		51.7	X	0.098	2.1
Zinc		37.8	X	0.41	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59226	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Analysis Date:	03/30/2011 1321			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0056	U	0.0056	0.017

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

General Chemistry

Client Sample ID: **J1FJP6**

Lab Sample ID: 280-13858-1
Client Matrix: Solid

Date Sampled: 03/22/2011 1035
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.5		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59206 Analysis Date: 03/24/2011 1409 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FJP7**

Lab Sample ID: 280-13858-2
Client Matrix: Solid

Date Sampled: 03/22/2011 1040
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.0		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59206 Analysis Date: 03/24/2011 1409 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FJP8**

Lab Sample ID: 280-13858-3
Client Matrix: Solid

Date Sampled: 03/22/2011 1045
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	7.2		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59206 Analysis Date: 03/24/2011 1409 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

General Chemistry

Client Sample ID: **J1FJP9**

Lab Sample ID: 280-13858-4
Client Matrix: Solid

Date Sampled: 03/22/2011 1050
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	7.2		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59206 Analysis Date: 03/24/2011 1409 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

General Chemistry

Client Sample ID: **J1FJR0**

Lab Sample ID: 280-13858-5
Client Matrix: Solid

Date Sampled: 03/22/2011 1005
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.5		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59206 Analysis Date: 03/24/2011 1409 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

General Chemistry

Client Sample ID: **J1FJR1**

Lab Sample ID: 280-13858-6
Client Matrix: Solid

Date Sampled: 03/22/2011 1010
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.4		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59206 Analysis Date: 03/24/2011 1409 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FJR2**

Lab Sample ID: 280-13858-7
Client Matrix: Solid

Date Sampled: 03/22/2011 1015
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	9.3		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59206 Analysis Date: 03/24/2011 1409 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

General Chemistry

Client Sample ID: **J1FJR3**

Lab Sample ID: 280-13858-8
Client Matrix: Solid

Date Sampled: 03/22/2011 1020
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.1		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59206 Analysis Date: 03/24/2011 1409 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

General Chemistry

Client Sample ID: **J1FJR4**

Lab Sample ID: 280-13858-9
Client Matrix: Solid

Date Sampled: 03/22/2011 0940
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.0		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59206 Analysis Date: 03/24/2011 1409 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

General Chemistry

Client Sample ID: **J1FJR5**

Lab Sample ID: 280-13858-10
Client Matrix: Solid

Date Sampled: 03/22/2011 0945
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	9.0		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59206 Analysis Date: 03/24/2011 1409 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FJR6**

Lab Sample ID: 280-13858-11
Client Matrix: Solid

Date Sampled: 03/22/2011 0950
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	8.9		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59206 Analysis Date: 03/24/2011 1409 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

General Chemistry

Client Sample ID: **J1FJR7**

Lab Sample ID: 280-13858-12
Client Matrix: Solid

Date Sampled: 03/22/2011 1200
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	7.3		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59206 Analysis Date: 03/24/2011 1409 DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-59226					
LCS 280-59226/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-59226/1-A	Method Blank	T	Solid	7471A	
280-13858-1	J1FJP6	T	Solid	7471A	
280-13858-2	J1FJP7	T	Solid	7471A	
280-13858-3	J1FJP8	T	Solid	7471A	
280-13858-4	J1FJP9	T	Solid	7471A	
280-13858-5	J1FJR0	T	Solid	7471A	
280-13858-6	J1FJR1	T	Solid	7471A	
280-13858-7	J1FJR2	T	Solid	7471A	
280-13858-8	J1FJR3	T	Solid	7471A	
280-13858-9	J1FJR4	T	Solid	7471A	
280-13858-9DU	Duplicate	T	Solid	7471A	
280-13858-9MS	Matrix Spike	T	Solid	7471A	
280-13858-10	J1FJR5	T	Solid	7471A	
280-13858-11	J1FJR6	T	Solid	7471A	
280-13858-12	J1FJR7	T	Solid	7471A	
Prep Batch: 280-59237					
LCS 280-59237/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-59237/1-A	Method Blank	T	Solid	3050B	
280-13858-1	J1FJP6	T	Solid	3050B	
280-13858-2	J1FJP7	T	Solid	3050B	
280-13858-3	J1FJP8	T	Solid	3050B	
280-13858-4	J1FJP9	T	Solid	3050B	
280-13858-5	J1FJR0	T	Solid	3050B	
280-13858-6	J1FJR1	T	Solid	3050B	
280-13858-7	J1FJR2	T	Solid	3050B	
280-13858-8	J1FJR3	T	Solid	3050B	
280-13858-9	J1FJR4	T	Solid	3050B	
280-13858-9DU	Duplicate	T	Solid	3050B	
280-13858-9MS	Matrix Spike	T	Solid	3050B	
280-13858-10	J1FJR5	T	Solid	3050B	
280-13858-11	J1FJR6	T	Solid	3050B	
280-13858-12	J1FJR7	T	Solid	3050B	

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-59720					
LCS 280-59237/2-A	Lab Control Sample	T	Solid	6010B	280-59237
MB 280-59237/1-A	Method Blank	T	Solid	6010B	280-59237
280-13858-1	J1FJP6	T	Solid	6010B	280-59237
280-13858-2	J1FJP7	T	Solid	6010B	280-59237
280-13858-3	J1FJP8	T	Solid	6010B	280-59237
280-13858-4	J1FJP9	T	Solid	6010B	280-59237
280-13858-5	J1FJR0	T	Solid	6010B	280-59237
280-13858-6	J1FJR1	T	Solid	6010B	280-59237
280-13858-7	J1FJR2	T	Solid	6010B	280-59237
280-13858-8	J1FJR3	T	Solid	6010B	280-59237
280-13858-9	J1FJR4	T	Solid	6010B	280-59237
280-13858-9DU	Duplicate	T	Solid	6010B	280-59237
280-13858-9MS	Matrix Spike	T	Solid	6010B	280-59237
280-13858-10	J1FJR5	T	Solid	6010B	280-59237
280-13858-11	J1FJR6	T	Solid	6010B	280-59237
280-13858-12	J1FJR7	T	Solid	6010B	280-59237
Analysis Batch:280-60074					
LCS 280-59226/2-A	Lab Control Sample	T	Solid	7471A	280-59226
MB 280-59226/1-A	Method Blank	T	Solid	7471A	280-59226
280-13858-1	J1FJP6	T	Solid	7471A	280-59226
280-13858-2	J1FJP7	T	Solid	7471A	280-59226
280-13858-3	J1FJP8	T	Solid	7471A	280-59226
280-13858-4	J1FJP9	T	Solid	7471A	280-59226
280-13858-5	J1FJR0	T	Solid	7471A	280-59226
280-13858-6	J1FJR1	T	Solid	7471A	280-59226
280-13858-7	J1FJR2	T	Solid	7471A	280-59226
280-13858-8	J1FJR3	T	Solid	7471A	280-59226
280-13858-9	J1FJR4	T	Solid	7471A	280-59226
280-13858-9DU	Duplicate	T	Solid	7471A	280-59226
280-13858-9MS	Matrix Spike	T	Solid	7471A	280-59226
280-13858-10	J1FJR5	T	Solid	7471A	280-59226
280-13858-11	J1FJR6	T	Solid	7471A	280-59226
280-13858-12	J1FJR7	T	Solid	7471A	280-59226

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-59206					
280-13858-1	J1FJP6	T	Solid	D-2216	
280-13858-1DU	Duplicate	T	Solid	D-2216	
280-13858-2	J1FJP7	T	Solid	D-2216	
280-13858-3	J1FJP8	T	Solid	D-2216	
280-13858-4	J1FJP9	T	Solid	D-2216	
280-13858-5	J1FJR0	T	Solid	D-2216	
280-13858-6	J1FJR1	T	Solid	D-2216	
280-13858-7	J1FJR2	T	Solid	D-2216	
280-13858-8	J1FJR3	T	Solid	D-2216	
280-13858-9	J1FJR4	T	Solid	D-2216	
280-13858-10	J1FJR5	T	Solid	D-2216	
280-13858-11	J1FJR6	T	Solid	D-2216	
280-13858-12	J1FJR7	T	Solid	D-2216	

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

Method Blank - Batch: 280-59237

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-59237/1-A	Analysis Batch:	280-59720	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-59237	Lab File ID:	25A2032811.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	03/28/2011 1311	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				
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	0.110	B	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	16.74	B	14.1	50.0
Chromium	0.058	U	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	4.00	B	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: 280-13858-1
Sdg Number: JP0134

Lab Control Sample - Batch: 280-59237

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-59237/2-A	Analysis Batch:	280-59720	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-59237	Lab File ID:	25A2032811.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	03/28/2011 1313	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	197.5	99	82 - 116	
Antimony	50.0	48.02	96	82 - 110	
Arsenic	100	95.27	95	85 - 110	
Barium	200	198.9	99	87 - 112	
Beryllium	5.00	4.82	96	84 - 114	
Boron	100	95.89	96	81 - 110	
Cadmium	10.0	10.16	102	87 - 110	
Calcium	5000	4919	98	82 - 114	
Chromium	20.0	20.02	100	84 - 114	
Cobalt	50.0	48.66	97	87 - 110	
Copper	25.0	24.20	97	88 - 110	
Iron	100	96.40	96	87 - 120	
Lead	50.0	47.62	95	86 - 110	
Magnesium	5000	4826	97	90 - 110	
Manganese	50.0	48.82	98	88 - 110	
Molybdenum	100	98.87	99	86 - 110	
Nickel	50.0	48.90	98	87 - 110	
Potassium	5000	5018	100	89 - 110	
Selenium	200	192.1	96	83 - 110	
Silicon	1000	148.0	15	10 - 70	
Silver	5.00	5.11	102	87 - 114	
Sodium	5000	5087	102	90 - 112	
Vanadium	50.0	49.54	99	88 - 110	
Zinc	50.0	48.99	98	76 - 114	

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

Matrix Spike - Batch: 280-59237

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-13858-9	Analysis Batch:	280-59720	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-59237	Lab File ID:	25A2032811.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.18 g
Analysis Date:	03/28/2011 1353	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	3240		178	5331	1173	50 - 200	4
Antimony	0.34	U	44.6	27.57	62	20 - 200	
Arsenic	1.6		89.2	77.15	85	76 - 111	
Barium	39.8		178	214.4	98	52 - 159	
Beryllium	0.030	U	4.46	3.76	84	72 - 105	
Boron	0.88	U	89.2	74.35	83	75 - 107	
Cadmium	0.037	U	8.92	8.23	92	40 - 130	
Calcium	3850		4460	10070	139	43 - 165	
Chromium	2.9		17.8	21.39	104	70 - 200	
Cobalt	7.2		44.6	47.28	90	72 - 106	
Copper	12.7		22.3	35.74	104	37 - 187	
Iron	17000		89.2	22130	5725	70 - 200	4
Lead	1.5		44.6	40.02	86	70 - 200	
Magnesium	2810		4460	7949	115	64 - 145	
Manganese	230		44.6	327.4	218	40 - 200	4
Molybdenum	0.23	U	89.2	77.83	87	75 - 103	
Nickel	5.5		44.6	46.26	91	61 - 126	
Potassium	587		4460	4935	97	56 - 172	
Selenium	0.77	U	178	151.8	85	76 - 104	
Silicon	137		892	376.4	27	20 - 200	
Silver	0.14	U	4.46	4.20	94	75 - 141	
Sodium	205		4460	4668	100	78 - 111	
Vanadium	48.8		44.6	94.46	102	50 - 169	
Zinc	32.1		44.6	76.38	99	70 - 200	

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

Duplicate - Batch: 280-59237

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-13858-9	Analysis Batch:	280-59720	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-59237	Lab File ID:	25A2032811.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.08 g
Analysis Date:	03/28/2011 1351	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	3240		4510	33	40	
Antimony	0.34	U	0.37	NC	40	U
Arsenic	1.6		2.11	28	30	
Barium	39.8		47.46	18	30	
Beryllium	0.030	U	0.032	NC	30	U
Boron	0.88	U	0.96	NC	30	U
Cadmium	0.037	U	0.040	NC	30	U
Calcium	3850		5066	27	30	
Chromium	2.9		3.79	26	40	
Cobalt	7.2		9.32	26	30	
Copper	12.7		15.21	18	30	
Iron	17000		22490	28	40	
Lead	1.5		1.97	28	40	
Magnesium	2810		4175	39	30	M
Manganese	230		278.0	19	40	
Molybdenum	0.23	U	0.25	NC	30	U
Nickel	5.5		8.11	38	30	M
Potassium	587		708.4	19	40	
Selenium	0.77	U	0.84	NC	30	U
Silicon	137		196.0	36	40	
Silver	0.14	U	0.16	NC	30	U
Sodium	205		321.6	44	30	M
Vanadium	48.8		55.58	13	30	
Zinc	32.1		41.29	25	40	

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

Method Blank - Batch: 280-59226

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 280-59226/1-A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-59226	Lab File ID:	110330AA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	03/30/2011 1242	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0055	U	0.0055	0.017

Lab Control Sample - Batch: 280-59226

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCS 280-59226/2-A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-59226	Lab File ID:	110330AA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	03/30/2011 1244	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.425	102	87 - 111	

Matrix Spike - Batch: 280-59226

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-13858-9	Analysis Batch:	280-60074	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-59226	Lab File ID:	110330AA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.65 g
Analysis Date:	03/30/2011 1314	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.0051	U	0.405	0.398	98	87 - 111	

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

Duplicate - Batch: 280-59226

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-13858-9	Analysis Batch:	280-60074	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-59226	Lab File ID:	110330AA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.64 g
Analysis Date:	03/30/2011 1312	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.0051	U	0.0055	NC	20	U

Client: Washington Closure Hanford

Job Number: 280-13858-1
Sdg Number: JP0134

Duplicate - Batch: 280-59206

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-13858-1	Analysis Batch:	280-59206	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:	03/24/2011 1409	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	6.5	6.8	4	20	

1.2, 49 [illegible] 3/24

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-074-212	Page 1 of 3

Collector: M. BLANKINGSHIP	Company Contact: D Woolery	Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH
Price Code: ~~8L~~ 8B	Data Turnaround: ~~21~~ 7 Days		
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location: 118-D-2 Excavation Area 3	SAF No.: RC-074	⊘ 3/10/11
Ice Chest No.: WCH-08-042	Field Logbook No.: EL-1607-~~09~~10 ⊘ 3/22/11	COA: R118D22000	Method of Shipment: FED EX ⊘ 3/10/11
Shipped To: TestAmerica Incorporated, ~~Richland~~ DENVER ⊘ 3/10/11	Offsite Property No.: NA	Bill of Lading/Air Bill No.: 7945 6703 1657	

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Rad <DOT

Special Handling and/or Storage

Cool 4 Deg C

Preservation	Cool 4C	Cool 4C	None	None	None	None	None	None	None		
Type of Container	G/P	G/P	G/P	G/P	G/P	G/P	G/P	G/P	G/P		
No. of Container(s)	1	1	1	0	0	0	0	0	1		
Volume	60mL	60mL	500mL	500mL	500mL	500mL	500mL	500mL	60g		
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	Isotopic Uranium	Isotopic Plutonium	Nickel-63, Strontium-89/90 - Total Sr	Technetium-99	Carbon-14, Tritium - H3 Low Level Soil	RCF GEA Shipping Screen		
Sample No. / Matrix * / Sample Date / Sample Time											RCF
J1FJP6 / SOIL / 3/22/11 / 1035	X										27384
J1FJP7 / SOIL / 3/22/11 / 1040	X										
J1FJP8 / SOIL / 3/22/11 / 1045	X										
J1FJP9 / SOIL / 3/22/11 / 1050	X										
J1FJR0 / SOIL / 3/22/11 / 1005	X										

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
MATT BLANKINGSHIP	3-22-11 1510	DWOOLERY	3/22/11 1510
DWOOLERY	3/22/11 1730	J.E. Bahl	1730 3-22-11
J.E. Bahl	1415 3-23-11	FED EX	
		3/24/11	

SPECIAL INSTRUCTIONS

None

(1) ICP Metals - 6010TR (Client 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)
(2) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Silver-108 metastable}

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

REVIEWED BY AJ DATE 3-23-11

JP0134

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

WCH-EE-011

04/08/2011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-074-212	Page 2 of 3

Collector: M BLANKINGSHIP	Company Contact: D Woolery	Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH
Price Code: 8L 8B	Data Turnaround: ~~21~~ 7 Days		
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location: 118-D-2 Excavation Area 3		SAF No.: RC-074
Ice Chest No.: WCH-08-042	Field Logbook No.: EL-1607-~~09~~ 10 3/22/11	COA: RI18D22000	Method of Shipment: FED EX
Shipped To: TestAmerica Incorporated, ~~Richland~~ DENVER	Offsite Property No.: NA		Bill of Lading/Air Bill No.: 7945 6703 1657

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Rad <DOT

Special Handling and/or Storage

Cool 4 Deg C

Preservation	Cool 4C	Cool 4C	None	None	None	None	None	None	None		
Type of Container	G/P	G/P	G/P	G/P	G/P	G/P	G/P	G/P	G/P		
No. of Container(s)	1	1	1	0	0	0	0	0	1		
Volume	60mL	60mL	500mL	500mL	500mL	500mL	500mL	500mL	60g		
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	Isotopic Uranium	Isotopic Plutonium	Nickel-63; Strontium-89,90 - Total Sr	Technetium-99	Carbon-14; Tritium - H3 Low Level Soil	RCF GEA Shipping Screen		
Sample No.	Matrix *	Sample Date	Sample Time								
J1FJR1	SOIL	3/22/11	1010	X							
J1FJR2	SOIL	3/22/11	1015	X							
J1FJR3	SOIL	3/22/11	1020	X							
J1FJR4	SOIL	3/22/11	0940	X							
J1FJR5	SOIL	3/22/11	0945	X							

3/10/11

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From: MAT BLANKINGSHIP	Date/Time: 1510 3-22-11	Received By/Stored In: DWOOLERY	Date/Time: 3/22/11 1510
Relinquished By/Removed From: DWOOLERY	Date/Time: 3/22/11 1730	Received By/Stored In: J.E. Berk	Date/Time: 1730 3-22-11
Relinquished By/Removed From: J.E. Berk WCH	Date/Time: 1415 3-23-11	Received By/Stored In: FED EX	Date/Time:
Relinquished By/Removed From:	Date/Time:	Received By/Stored In:	Date/Time: 32411 (0830)
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

None

(1) ICP Metals - 6010TR (Client 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)
(2) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Silver-108 metastable}

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

REVIEWED BY AJ
DATE 3-23-11

JP0134

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

WCH-EE-011

04/08/2011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-074-212	Page 3 of 3
Collector: M BLANKWISHIP	Company Contact: D Woolery; Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH	Price Code: ~~8L~~ 8B D 3/10/11
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location: 118-D-2 Excavation Area 3	SAF No.: RC-074	Data Turnaround: ~~21~~ 7 Days D 3/10/11
Ice Chest No.: WCH-08-042 D 3/10/11	Field Logbook No.: EL-1607-0~~8~~10 D 3/22/11; COA: R118D22000	Method of Shipment: FED EX	
Shipped To: TestAmerica Incorporated, ~~Richland~~ DENVER	Offsite Property No.: NA	Bill of Lading/Air Bill No.: 7945 6703 1657	

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Rad <DOT

Special Handling and/or Storage

Cool 4 Deg C

Preservation	Cool 4C	Cool 4C	None	None	None	None	None	None	None	
Type of Container	G/P	G/P	G/P	G/P	G/P	G/P	G/P	G/P	G/P	
No. of Container(s)	1	1	1	0	0	0	0	0	1	
Volume	60mL	60mL	500mL	500mL	500mL	500mL	500mL	500mL	60g	
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	Isotopic Uranium	Isotopic Plutonium	Nickel-63 Strontium-90 – Total Sr	Technetium-99	Carbon-14; Tritium - H3 Low Level Soil	RCF GEA Shipping Screen	

Sample No.	Matrix *	Sample Date	Sample Time										
J1FJR6	SOIL	3/22/11	0950	X									
J1FJR7	SOIL	3/22/11	1200	X									

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By/Stored In	Date/Time
Relinquished By/Removed From: MATT BLANKWISHIP	3-22-11 1510	Received By/Stored In: DWOOLEY	3/22/11 1510
Relinquished By/Removed From: DWOOLEY	3/22/11 1730	Received By/Stored In: J.E. Beck	1730 3-22-11
Relinquished By/Removed From: J. E. Beck WCH	1415 3-23-11	Received By/Stored In: FED EX	
Relinquished By/Removed From		Received By/Stored In	32411 10ez
Relinquished By/Removed From		Received By/Stored In	
Relinquished By/Removed From		Received By/Stored In	

SPECIAL INSTRUCTIONS

None

(1) ICP Metals - 6010TR (Client 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)
(2) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Silver-108 metastable}

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 3-23-11

JP0134

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 -6010TR -solid

Analytical Due:

Report Due: 3/31/11 (Rush 5 day TAT)

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Sample Check-in List

Date/Time Received: 3/24/11 1000 GM Screen Result 13 microR/hr

Client: Washington Closure Hanford SDG #: JP0134 NA[ ] SAF #: RC-074 NA [ ]

Job Number: 13858 Chain of Custody # RC-074-212

Shipping Container ID: _____ Air Bill # 794567031679

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature °C: 4.9 NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 12
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: 3/24/11

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager [signature] Date 3/25/11

LS-023, Rev. 7, 1/08

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

RICHLAND, WA 99354

FedEx. Express

J11151102250225

Ship Date: 23MAR11
ActWgt: 48.0 LB
CAD: 8897843/INET3130

Delivery Address Bar Code

Ref #
Invoice #
PO #
Dept #

SHIP TO: (303) 736-0100 BILL SENDER

Sample Recieving
Test America Denver
4955 YARROW ST

ARVADA, CO 80002

2 of 2

THU - 24 MAR A1
PRIORITY OVERNIGHT

MPS# 7945 6703 1679
0263

Mstr# 7945 6703 1657 0201

XH WHHA

80002
CO-US
DEN

50DG2/BDD9/7EFB

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