Analytical Data Package Prepared For

CH2M Hill Plateau Remediation

Radiochemical Analysis By

TestAmerica TARL

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

Data Package Contains _____ Pages

Report Nbr: 44817

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05947	X10-080	B264H5	J0G130416-1	L34CX1AA	9L34CX10	0214446
		B264H5	J0G130416-1	L34CX1AC	9L34CX10	0214449
		B264H5	J0G130416-1	L34CX1AD	9L34CX10	0214438
		B264H5	J0G130416-1	L34CX1AE	9L34CX10	0214439
		B264H5	J0G130416-1	L34CX1AF	9L34CX10	0214444
		B264F6	J0G130416-10	L34EL1AA	9L34EL10	0214446
		B264F6	J0G130416-10	L34EL1AC	9L34EL10	0214449
		B264F6	J0G130416-10	L34EL1AD	9L34EL10	0214438
		B264F6	J0G130416-10	L34EL1AF	9L34EL10	0214444
	X10-080	B264J5	J0G130416-11	L34EP1AA	9L34EP10	0214446
		B264J5	J0G130416-11	L34EP1AC	9L34EP10	0214449
		B264J5	J0G130416-11	L34EP1AD	9L34EP10	0214438
		B264J5	J0G130416-11	L34EP1AE	9L34EP10	0214439
		B264J5	J0G130416-11	L34EP1AF	9L34EP10	0214444
		B264B0	J0G130416-12	L34ER1AA	9L34ER10	0214446

Comments:

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RECEIVED SEPTEMBER 30, 2010

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SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05947	X10-080	B264B0	J0G130416-12	L34ER1AC	9L34ER10	0214449
		B264B0	J0G130416-12	L34ER1AD	9L34ER10	0214438
		B264B0	J0G130416-12	L34ER1AE	9L34ER10	0214439
		B264B0	J0G130416-12	L34ER1AF	9L34ER10	0214444
		B264J0	J0G130416-2	L34C81AA	9L34C810	0214446
		B264J0	J0G130416-2	L34C81AC	9L34C810	0214449
		B264J0	J0G130416-2	L34C81AD	9L34C810	0214438
		B264J0	J0G130416-2	L34C81AE	9L34C810	0214439
		B264J0	J0G130416-2	L34C81AF	9L34C810	0214444
		B264N2	J0G130416-3	L34DA1AA	9L34DA10	0214446
		B264N2	J0G130416-3	L34DA1AC	9L34DA10	0214449
		B264N2	J0G130416-3	L34DA1AD	9L34DA10	0214438
		B264N2	J0G130416-3	L34DA1AE	9L34DA10	0214439
		B264N2	J0G130416-3	L34DA1AF	9L34DA10	0214444
		B264M2	J0G130416-4	L34DD1AA	9L34DD10	0214446
		B264M2	J0G130416-4	L34DD1AC	9L34DD10	0214449
		B264M2	J0G130416-4	L34DD1AD	9L34DD10	0214438
		B264M2	J0G130416-4	L34DD1AE	9L34DD10	0214439
		B264M2	J0G130416-4	L34DD1AF	9L34DD10	0214444
		B264M7	J0G130416-5	L34DG1AA	9L34DG10	0214446
		B264M7	J0G130416-5	L34DG1AC	9L34DG10	0214449
		B264M7	J0G130416-5	L34DG1AD	9L34DG10	0214438
		B264M7	J0G130416-5	L34DG1AE	9L34DG10	0214439
		B264M7	J0G130416-5	L34DG1AF	9L34DG10	0214444
		B264L2	J0G130416-6	L34DW1AA	9L34DW10	0214446
		B264L2	J0G130416-6	L34DW1AC	9L34DW10	0214449

Comments:

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SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05947	X10-080	B264L2	J0G130416-6	L34DW1AD	9L34DW10	0214438
		B264L2	J0G130416-6	L34DW1AE	9L34DW10	0214439
		B264L2	J0G130416-6	L34DW1AF	9L34DW10	0214444
		B264N7	J0G130416-7	L34D31AA	9L34D310	0214446
		B264N7	J0G130416-7	L34D31AC	9L34D310	0214449
		B264N7	J0G130416-7	L34D31AD	9L34D310	0214438
		B264N7	J0G130416-7	L34D31AE	9L34D310	0214439
		B264N7	J0G130416-7	L34D31AF	9L34D310	0214444
		B264K0	J0G130416-8	L34D91AA	9L34D910	0214446
		B264K0	J0G130416-8	L34D91AC	9L34D910	0214449
		B264K0	J0G130416-8	L34D91AD	9L34D910	0214438
		B264K0	J0G130416-8	L34D91AE	9L34D910	0214439
		B264K0	J0G130416-8	L34D91AF	9L34D910	0214444
		B264C5	J0G130416-9	L34EG1AA	9L34EG10	0214446
		B264C5	J0G130416-9	L34EG1AC	9L34EG10	0214449
		B264C5	J0G130416-9	L34EG1AD	9L34EG10	0214438
		B264C5	J0G130416-9	L34EG1AE	9L34EG10	0214439
		B264C5	J0G130416-9	L34EG1AF	9L34EG10	0214444
	X10-074	B25K41	J0G130428-1	L34FM1AA	9L34FM10	0214438
		B267K5	J0G130428-2	L34FQ1AA	9L34FQ10	0214438
		B25K42	J0G130506-1	L342W1AA	9L342W10	0214438
		B25K51	J0G130506-2	L34271AA	9L342710	0214438
		B25K71	J0G130506-3	L343C1AA	9L343C10	0214438
		B267J5	J0G130506-4	L34341AA	9L343410	0214438
	X10-081	B265W8	J0G150576-1	L38TW1AA	9L38TW10	0205082
		B265W8	J0G150576-1	L38TW1AC	9L38TW10	0214450

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SDG Nbr	ORDER Nbr	*CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05947	X10-081	B265W8	J0G150576-1	L38TW1AD	9L38TW10	0214442
		B265W8	J0G150576-1	L38TW1AE	9L38TW10	0214445
		B265W8	J0G150576-1	L38TW1AF	9L38TW10	0214449
		B265W8	J0G150576-1	L38TW1AG	9L38TW10	0214438
		B265W8	J0G150576-1	L38TW1AH	9L38TW10	0214439
		B265W8	J0G150576-1	L38TW1AJ	9L38TW10	0214447
		B265W8	J0G150576-1	L38TW1AK	9L38TW10	0214448
		B265W8	J0G150576-1	L38TW1AL	9L38TW10	0214443
		B268P1	J0G150576-2	L38VP1AA	9L38VP10	0205082

Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

TestAmerica Laboratories, Inc.

CH2M Hill Plateau Remediation Company
P.O. Box 1600
Mail Stop – R3-60
Richland, WA 99352

September 30, 2010

Attention: Mike Neely

SAF Number	:	X10-080, X10-074, X10-081
Date SDG Closed	:	July 15, 2010
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05947
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between July 9, 2010 and July 15, 2010 twenty water samples were received at TestAmerica (TARL). Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the CH2M specific IDs:

CH2M ID#	TARL ID#	DATE OF RECEIPT	MATRIX
B264H5	L34CX	07/09/10	WATER
B264J0	L34C8	07/09/10	WATER
B264N2	L34DA	07/09/10	WATER
B264M2	L34DD	07/09/10	WATER
B264M7	L34DG	07/09/10	WATER
B264L2	L34DW	07/09/10	WATER
B264N7	L34D3	07/09/10	WATER
B264K0	L34D9	07/09/10	WATER
B264C5	L34EG	07/09/10	WATER
B264F6	L34EL	07/09/10	WATER
B264J5	L34EP	07/09/10	WATER
B264B0	L34ER	07/09/10	WATER
B267K5	L34FQ	07/09/10	WATER
B25K41	L34FM	07/09/10	WATER

B25K42	L342W	07/12/10	WATER
B25K51	L3427	07/12/10	WATER
B25K71	L343C	07/12/10	WATER
B267J5	L3434	07/12/10	WATER
B265W8	L38TW	07/15/10	WATER
B268P1	L38VP	07/15/10	WATER

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 (RICH-RC-5010)*
Thorium-228,230,232 by method RL-ALP-005 (RICH-RC-5084)*
Americium 241 by method RL-ALP-003 (RICH-RC-5072)*
Gas Proportional Counting
Gross Alpha by method RL-GPC-001 (RICH-RC-5014)*
Gross Beta by method RL-GPC-001 (RICH-RC-5014)*
Strontium-90 by method RL-GPC-003 (RICH-RC-5006)*
Gamma Spectroscopy
Gamma Spec (LL) by method RL-GAM-001 (RICH-RC-5017)*
Iodine-129 (LL) by method RL-GAM-002 (RICH-RC-5025)*
Liquid Scintillation Counting
Technetium-99 by TEVA method RL-LSC-014 (RICH-RC-5065)*
Tritium by method RL-LSC-005 (RICH-RC-5007)*
Carbon-14 by method RL-LSC-008 (RICH-RC-5022)*
Chemical Analysis
Hexavalent Chromium by EPA method 7196A

*SOP ID's changed effective 7-01-2008. Attached is a cross reference until SOP ID's are changed in all systems.

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 (RICH-RC-5010):
The LCS, batch blank, sample and sample duplicate (B264H5) results are within contractual requirements.

Thorium-228,230,232 by method RL-ALP-005 (RICH-RC-5084):
The LCS, batch blank, sample and sample duplicate (B264J0) results are within contractual requirements.

Americium 241 by method RL-ALP-003 (RICH-RC-5072):
The LCS, batch blank, sample and sample duplicate (B265W8) results are within contractual requirements.

Gas Proportional Counting

Gross Alpha by method RL-GPC-001 (RICH-RC-5014):
The LCS, batch blank, samples and sample duplicate (B265W8) results are within contractual requirements.

Gross Beta by method RL-GPC-001 (RICH-RC-5014):
The LCS, batch blank, samples and sample duplicate (B265W8) results are within contractual requirements.

Strontium-90 by method RL-GPC-003 (RICH-RC-5006):
The LCS, batch blank, samples and sample duplicate (B265W8) results are within contractual requirements.

Gamma Spectroscopy

Gamma Spec (LL) by method RL-GAM-001 (RICH-RC-5017):
There was insufficient volume for a duplicate. Sample B25K41 was recounted on a different detector for the duplicate (B25K41 DUP). The achieved MDA for sample B267J5 is greater than the CRDL due to a reduced volume based on activity screening. Except as noted, the LCS, batch blank, samples and sample duplicate (B25K41) results are within contractual requirements.

Iodine-129 (LL) by method RL-GAM-002 (RICH-RC-5025):
The LCS, batch blank, samples and sample duplicate (B264M7) results are within contractual requirements.

Liquid Scintillation Counting

Technetium-99 by TEVA method RL-LSC-014 (RICH-RC-5065):
The LCS, batch blank, samples, sample duplicate (B265W8), and sample matrix spike (B265W8) results are within contractual requirements.

Tritium by method RL-LSC-005 (RICH-RC-5007):
The LCS, batch blank, samples and sample duplicate (B265W8) results are within contractual requirements.

Carbon-14 by method RL-LSC-008 (RICH-RC-5022):
The LCS, batch blank, samples and sample duplicate (B264N2) results are within contractual requirements.

Chemical Analysis
Hexavalent Chromium by EPA method 7196A
The LCS, batch blank, samples, sample duplicate (B265W8), sample matrix spike (B265W8), and matrix spike duplicate (B265W8) 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:

Sandra Seger
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.

Isotope	Richland SOP #	Old Richland SOP #	Method Reference	Title
Asbestos	RL-ASB-001	N/A	NIOSH 7400	Fiber Counting by Phase Contrast Microscopy based on NIOSH 7400
Asbestos	RL-ASB-002	N/A	NIOSH 9002	Sample Prep and Analysis for Asbestos (bulk) by Polarized Light Microscopy based on NIOSH 9002
Alpha - Gross	ARCHIVED	RICH-RB-5035	Liquid Scintillation Anal/ Packard	DETERMINATION OF GROSS ALPHA IN NASAL SMEARS BY LIQUID SCINTILLATION COUNTING
Alpha - Gross	RL-GPC-001	RICH-RC-5014	9310 / EPA SW846 900.0 / EPA 600	DETERMINATION OF GROSS ALPHA AND GROSS BETA IN WATER BY METHOD 9310
Alpha - Gross	RL-GPC-007	RICH-RC-5020	SM 7110B EPA 680	DETERMINATION OF GROSS ALPHA AND GROSS BETA IN SOIL, SHORELINE SOIL, FOOD AND VEGETATION
Alpha - Gross	RL-GPC-002	RICH-RC-5021	08-02 EPA 520	DETERMINATION OF GROSS ALPHA ACTIVITY IN WATER BY COPRECIPITATION
Alpha - Gross	RL-GPC-008	RICH-RC-5036	ER100 / LANL	PREPARATION OF AIR FILTERS FOR GROSS ALPHA/BETA AND COMPOSITING AIR FILTERS
Am	RL-ALP-003	RICH-RC-5072	Mod RP 725 / DOE0089T EXT Chromatography	SEPARATION OF AMERICIUM, CURIUM, AND URANIUM BY EXTRACTION CHROMATOGRAPHY
Am	RL-ALP-010	RICH-RC-5080	Am03/Pu11HASL 300 NAS-NS-3606	SEQUENTIAL SEPARATION OF PLUTONIUM AND AMERICIUM
Beta - Gross	RL-GPC-001	RICH-RC-5014	9310 / EPA SW846 900.0 / EPA 600	DETERMINATION OF GROSS ALPHA AND GROSS BETA IN WATER BY METHOD 9310
Beta - Gross	RL-GPC-007	RICH-RC-5020	SM 7110B EPA 680	DETERMINATION OF GROSS ALPHA AND GROSS BETA IN SOIL, SHORELINE SOIL, FOOD AND VEGETATION
Beta - Gross	RL-GPC-008	RICH-RC-5036	ER100 / LANL	PREPARATION OF AIR FILTERS FOR GROSS ALPHA/BETA AND COMPOSITING AIR FILTERS
C14	RL-LSC-001	RICH-RB-5013	Mod H-02 / EPA 520	TRITIUM, CARBON-14, NICKEL-63 OR PHOSPHORUS-32 ANALYSIS IN URINE
C14	RL-LSC-008	RICH-RC-5022	EPA C-01 / EPA 520	CARBON 14 BY DIGESTION METHOD
C14	RL-LSC-009	RICH-RC-5040	Mod C14 / EPA 680	DETERMINATION OF CARBON-14 BY BENZENE SYNTHESIS
C14	RL-LSC-010	RICH-RC-5046	EPA C-01 / EPA 520	DETERMINATION OF CARBON-14 IN GRAPHITE AND SOIL
C14	RL-LSC-011	RICH-RC-5047	Mod H-02 / EPA 520	DETERMINATION OF CARBON-14 IN WATER BY DIRECT COUNTING
Cm	RL-ALP-003	RICH-RC-5072	Mod RP 725 / DOE0089T EXT Chromatography	SEPARATION OF AMERICIUM, CURIUM, AND URANIUM BY EXTRACTION CHROMATOGRAPHY
Coliform	RL-WC-001	RICH-WC-5001	9222B	DETERMINATION OF TOTAL COLIFORM: MULTIPLE TUBE FERMENTATION TECHNIQUE
Coliform	RL-WC-002	RICH-WC-5002	9131	TOTAL COLIFORMS BY MEMBRANE FILTRATION
Coliform	RL-WC-005	RICH-WC-5007	9223	TOTAL COLIFORM BY THE COLILERT METHOD
Cr6+	RL-WC-003	RICH-WC-5003	7196A, SW846	DETERMINATION OF HEXAVALENT CHROMIUM [Cr(VI)] IN WATER, SOIL, AND SIMILAR MATRICES
Cr6+	RL-WC-004	RICH-WC-5005	3060 / SW846	DETERMINATION OF HEXAVALENT CHROMIUM (CrVI) IN SOLID MATRICES WITH ALKALINE DIGESTION
Fe	RL-LSC-015	RICH-RC-5074	EXT Chromatography ModFe55/PNL-ALO-435	SEPARATION OF IRON AND NICKEL BY EXTRACTION CHROMATOGRAPHY
Fe55	RL-LSC-016	RICH-RC-5023	R4-73-014 / EPA HASL 300	DETERMINATION OF IRON-55 AND IRON-59 IN WATER
Fe59	RL-LSC-016	RICH-RC-5023	R4-73-014 / EPA HASL 300	DETERMINATION OF IRON-55 AND IRON-59 IN WATER
Gamma	RL-GAM-001	RICH-RC-5017	901.0 / HASL 300 ASTM D3649	PREPARATION OF ALL MATRICES FOR ANALYSIS BY GAMMA SPECTROSCOPY
H3	RL-LSC-001	RICH-RB-5013	Mod H-02 / EPA 520	TRITIUM, CARBON-14, NICKEL-63 OR PHOSPHORUS-32 ANALYSIS IN URINE
H3	RL-LSC-003	RICH-RB-5034	7500-3 / SM	DETERMINATION OF TRITIUM IN URINE BY DISTILLATION
H3	RL-LSC-004	RICH-RC-5004	H3 / EPA LV539	DETERMINATION OF TRITIUM IN AIR
H3	RL-LSC-005	RICH-RC-5007	Mod 906.0 / EPA 600	SEPARATION OF TRITIUM IN WATER AND AQUEOUS COMPONENT OF WINE
H3	RL-LSC-007	RICH-RC-5024	H-3 by EE EPA LV539 / HASL 300	DETERMINATION OF LOW LEVEL TRITIUM IN WATER BY ELECTROLYTIC ENRICHMENT
H3	RL-LSC-002	RICH-RC-5037	H-3 in Water/Tissue / LV 539	DETERMINATION OF TRITIUM BY CRYOGENIC DISTILLATION
H3	RL-LSC-006	RICH-RC-5048	H-3 in Water/Tissue / LV 539	TRITIUM PREPARATION IN MILK SAMPLES
I129	RL-GAM-002	RICH-RC-5025	R4-73-014I/EPA ASTM D2334 (Discontinued)	DETERMINATION OF IODINE-131 AND 129 IN WATER BY SOLVENT EXTRACTION METHOD
I131	RL-GAM-002	RICH-RC-5025	R4-73-014I/EPA ASTM D2334 (Discontinued)	DETERMINATION OF IODINE-131 AND 129 IN WATER BY SOLVENT EXTRACTION METHOD
I131	ARCHIVED	RICH-RC-5049	HASL 300 (1980)	DETERMINATION OF IODINE-131 IN MILK BY BATCH ION-EXCHANGE
Metals	ARCHIVED	BHI-MT-0001	6010	ICP-AE SPECTROSCOPY, SPECTROMETRIC METHOD FOR TRACE ELEMENT ANALYSIS, METHOD 6010A FOR Beckiel

Isotope	Richland SOP #	Old Richland SOP #	Method Reference	Title
Metals	RL-MT-001	RICH-MT-0001	6010B	ICP-AES for TRACE ELEMENT ANALYSIS, METHOD 6010B
Metals	RL-MT-002	RICH-MT-0002	SW846 3050B	ACID DIGESTION FOR ICP ANALYSIS
Metals	RL-MT-003	RICH-MT-0003	NIOSH 7300	DIGESTION PREP based on METHOD NIOSH 7300
Ni	RL-LSC-015	RICH-RC-5094	EXT Chromatography ModFe55/PNL-ALO-435	SEPARATION OF IRON AND NICKEL BY EXTRACTION CHROMATOGRAPHY
Ni63	RL-LSC-001	RICH-RB-5013	Mod H-02 / EPA 520	TRITIUM, CARBON-14, NICKEL-63 OR PHOSPHORUS-32 ANALYSIS IN URINE
Ni63	RL-LSC-017	RICH-RC-5069	EXT Chromatography Mod RP300 / DOE00089T	SEPARATION OF NI-63 BY EXTRACTION CHROMATOGRAPHY
Np	RL-ALP-013	RICH-RC-5009	NAS-NS-3060	DETERMINATION OF NEPTUNIUM-237 BY LIQUID-LIQUID EXTRACTION IN ALL MATRICES
Np	RL-ALP-006	RICH-RC-5064	EXT Chromatography	SEPARATION OF NEPTUNIUM BY EXTRACTION CHROMATOGRAPHY
P32	RL-LSC-001	RICH-RB-5013	Mod H-02 / EPA 520	TRITIUM, CARBON-14, NICKEL-63 OR PHOSPHORUS-32 ANALYSIS IN URINE
Pb	RL-ALP-011	RICH-RC-5076	EXT Chromatography	DETERMINATION OF LEAD-210 BY EXTRACTION CHROMATOGRAPHY
Po	RL-ALP-007	RICH-RB-5001	NAS-NS-3037 HASL 300	DETERMINATION OF POLONIUM-210 IN URINE
Po	RL-ALP-012	RICH-RC-5012	Po-03 / HASL 300 Mod U03 HASL 300	SEPARATION OF ISOTOPIC URANIUM AND POLONIUM-210 IN WATER, SOIL AND FILTERS
Prep - Bioassay	ARCHIVED	RICH-RB-0001		PREPARATION FOR RAPID BIOASSAY ANALYSIS
Prep - Bioassay	RL-PRP-001	RICH-RB-5002	Mod Pu06 / HASL 300	PREPARATION OF URINE AND BLOOD SAMPLES
Prep - Bioassay	ARCHIVED	RICH-RB-5004	ASTM D1429-95	DETERMINATION OF SPECIFIC GRAVITY OF URINE
Prep - Bioassay	RL-RPL-002	RICH-RB-5036	Pub 6490,6601 / PNL	PREPARATION OF SYNTHETIC URINE AND FECES USING RECIPES FROM HPS N13.30 PERFORMANCE TESTING
Prep - Bioassay	RL-PRP-002	RICH-RB-5037	LA-10300-M R200 ASTM D3865	PREPARATION OF FECAL SAMPLES USING HYDROFLUORIC ACID DIGESTION
Prep - Bioassay	RL-RPL-003	RICH-RC-5028	ICRP Publication 23	PREPARATION OF SYNTHETIC URINE AND FECES
Prep - Count	RL-ALP-016	RICH-RC-5003	G-03 / HASL 300	COPRECIPITATION OF SOME ACTINIDES ON NEODYMIUM FLUORIDE FOR ALPHA-PARTICLE SPECTROMETRY
Prep - Count	RL-ALP-015	RICH-RC-5039	G-03 / HASL 300 Anal Chem 1972	ELECTRODEPOSITION OF ACTINIDES
Prep - Count	RL-ALP-014	RICH-RC-5085	Morrison & Freiser NAS-NS-3050	ANHYDROUS ETHER EXTRACTION OF URANIUM
Prep - Env	RL-KPA-001	RICH-RC-5015	ASTM / D5174-97	ENVIRONMENTAL SAMPLE PREPARATION FOR URANIUM BY LASER-INDUCED PHOSPHORESCENCE
Prep - Env	RL-PRP-004	RICH-RC-5016	Sr02 / HASL 300	PREPARATION OF ENVIRONMENTAL MATRICES
Prep - Env	RL-PRP-007	RICH-RC-5045	Mod Pu02 / HASL 300	PREPARATION OF MIXED BED RESINS AND PRE-FILTERS
Prep - Env	RL-PRP-008	RICH-RC-5068	Mod ER100 / LA10300	PREPARATION OF SOIL, VEGETATION AND AIR FILTERS BY MIXED STRONG ACID LEACHING
Prep - Resin	RL-ALP-017	RICH-RC-5018	Mod Pu11 / Mod 300	ION-EXCHANGE PREPARATION
Prep - Soil	RL-PRP-003	RICH-RC-5013	Pu02A / HASL 300	PREPARATION OF SOIL SAMPLES
Prep - Soil	RL-PRP-005	RICH-RC-5019	D5259 / ASTM SW 846/3015/3051/3052	PREPARATION AND DISSOLUTION OF SEDIMENTS AND SOIL BY MICROWAVE BOMB DIGESTION
Prep - Soil	RL-PRP-006	RICH-RC-5032	Pu02A / HASL 300	COMPLETE DISSOLUTION BY MIXED ACIDS IN A TEFLON BEAKER
Prep - Soil	RL-PRP-009	RICH-RC-5077	Mod ER100 / LA10300	PREPARATION OF SMALL SOIL SAMPLES FOR GAMMA SPEC AND/OR RADIOCHEM ANAL BY ACID DIGESTION
Prep - Urine	RL-PRP-010	RICH-RC-5086	AnalyticaChemActa1992 RP800 / DOE00089T	URINE AND WATER SAMPLE PREPARATION BY CALCIUM PHOSPHATE PRECIPITATION
Prep - Water	RL-PRP-010	RICH-RC-5086	AnalyticaChemActa1992 RP800 / DOE00089T	URINE AND WATER SAMPLE PREPARATION BY CALCIUM PHOSPHATE PRECIPITATION
Pu	ARCHIVED	RICH-RB-5015	Pu11 / HASL 300	RAPID DETERMINATION OF PLUTONIUM IN FECES
Pu	RL-ALP-002	RICH-RC-5010	Pu11 / HASL 300	DETERMINATION OF ISOTOPIC PLUTONIUM IN ALL MATRICES
Pu	RL-ALP-010	RICH-RC-5080	Am03 HASL 300 Pu11 / HASL 300	SEQUENTIAL SEPARATION OF PLUTONIUM AND AMERICIUM
Pu	RL-ALP-003	RICH-RC-5087	AnalyticaChemActa1992 RP800 / DOE00089T	DETERMINATION OF PLUTONIUM BY EXTRACTION CHROMATOGRAPHY
Ra	RL-RA-001	RICH-RC-5005	903.1 / EPA 600	RADIUM-226 AND RADIUM-228 SEPARATION IN RADIOCHEMICAL MATRICES - ADAPTED FROM EPA 903.1 AND 904.0
Ra	RL-RA-001	RICH-RC-5005	904.0 / EPA 600	RADIUM-226 AND RADIUM-228 SEPARATION IN RADIOCHEMICAL MATRICES - ADAPTED FROM EPA 903.1 AND 904.0

Isotope	Richland SOP #	Old Richland SOP #	Method Reference	Title
Ra	RL-RA-002	RICH-RC-5027	Mod D2460/ ASTM 903.0 / EPA 600	DETERMINATION OF TOTAL RADIUM
Rn	RL-LSC-019	RICH-RC-5082	913.0 / EPA	DETERMINATION OF RADON-222 - ADAPTED FROM METHOD 913.0
S35	ARCHIVED	RICH-RB-5020	Hillebrand, Lundeell, Bright, Hoffman 1953	DETERMINATION OF SULPUR-35 IN URINE
Se79	RL-LSC-012	RICH-RC-5043	Selenium / NAS-NS-3030	RADIOCHEMICAL DETERMINATION OF SELENIUM-79
Solubility	ARCHIVED	RICH-RC-5035	Kalfward&Thomas PNL3716	DETERMINATION OF SOLUBILITY OF RADIOACTIVE PARTICLE CONSTITUENTS
Sr	RL-GPC-005	RICH-RB-5007	Mod Sr02 / HASL 300 Mod 905.0 / EPA 600	DETERMINATION OF TOTAL STRONTIUM IN URINE
Sr	RL-GPC-006	RICH-RB-5021	Mod Sr02 / HASL300 Mod 905.0 / EPA 600	DETERMINATION OF STRONTIUM IN FECES
Sr	ARCHIVED	RICH-RB-5022	Mod Sr02 / HASL300 Mod 905.0 / EPA 600	DETERMINATION OF TOTAL STRONTIUM IN URINE FOR RAPID ANALYSIS
Sr	ARCHIVED	RICH-RB-5031	Mod Sr02 / HASL300 Mod 905.0 / EPA 600	RAPID DETERMINATION OF TOTAL STRONTIUM IN FECES
Sr	RL-GPC-003	RICH-RC-5006	Mod Sr02 / HASL300 Mod 905.0 / EPA 600	STRONTIUM SEPARATION IN ENVIROMENTAL MATRICES
Sr - Yt	RL-GPC-004	RICH-RC-5071	Mod Sr02 / HASL300 Mod 905.0 / EPA 600	YTTRIUM-90 SEPARATION FOR STRONTIUM-90 DETERMINATION IN ALL MATRICES
Tc	RL-LSC-014	RICH-RC-5065	EXT Chromatography Mod RP550 / DOE0089T	DETERMINATION OF TECHNETIUM-99 BY EXTRACTION CHROMATOGRAPHY
Tc	RL-LSC-013	RICH-RC-5078	Tc01 / HASL 300	SEPARATION OF TECHNETIUM-99 IN ALL MATRICES
Th	RL-ALP-008	RICH-RB-5006	Mod Th01 / HASL 300	SEPARATION OF THORIUM FROM URINE AND FECAL SAMPLES
Th	RL-ALP-005	RICH-RC-5084	Mod Th01 / HASL 300 Anal Chim Acta 1982	DETERMINATION OF THORIUM ISOTOPIC IN ENVIRONMENTAL MATRICES
U	RL-ALP-012	RICH-RC-5012	Po-01 / HASL 300 Mod U01 / HASL 300	SEPARATION OF ISOTOPIC URANIUM AND POLONIUM-210 IN WATER, SOIL AND FILTERS
U	RL-KPA-002	RICH-RC-5031	Mod U01 / HASL 300	SEPARATION OF TOTAL URANIUM IN WATER AND URINE
U	RL-KPA-008	RICH-RC-5058	D5174 / ASTM	DETERMINATION OF URANIUM BY PHOSPHORESCENCE ANALYSIS
U	RL-ALP-004	RICH-RC-5067	EXT Chromatography Mod RP725 / DOE0089T	SEPARATION OF URANIUM BY EXTRACTION CHROMATOGRAPHY
U	RL-ALP-003	RICH-RC-5072	EXT Chrom Mod RP725 & 800 / DOE0089T	SEPARATION OF AMERICIUM, CURIUM, AND URANIUM BY EXTRACTION CHROMATOGRAPHY
U	RL-ALP-009	RICH-RC-5079	EXT Chromatography Mod RP725 / DOE0089T	DETERMINATION OF ISOTOPIC URANIUM IN ALL MATRICES

9/30/2010 1:59:50 PM

TestAmerica Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 44817 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9L342710	B25K51		MW6-SBB-A1	X10-074	W05947					07/09/2010 11:48

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0214438	BE-7	13966-02-4	6.90E+00	pCi/L	1.5E+01	1.5E+01	U	2.71E+01		GAMMALL_GS	2.0014E+00	L	09/03/2010 07:06	I
0214438	CO-60	10198-40-0	9.26E-01	pCi/L	1.3E+00	1.3E+00	U	2.64E+00		GAMMALL_GS	2.0014E+00	L	09/03/2010 07:06	I
0214438	CS-134	13967-70-9	2.90E-01	pCi/L	1.1E+00	1.1E+00	U	2.00E+00		GAMMALL_GS	2.0014E+00	L	09/03/2010 07:06	I
0214438	CS-137	10045-97-3	9.45E-01	pCi/L	1.1E+00	1.1E+00	U	2.18E+00		GAMMALL_GS	2.0014E+00	L	09/03/2010 07:06	I
0214438	EU-152	14683-23-9	2.43E+00	pCi/L	2.4E+00	2.4E+00	U	4.56E+00		GAMMALL_GS	2.0014E+00	L	09/03/2010 07:06	I
0214438	EU-154	15585-10-1	2.14E+00	pCi/L	3.6E+00	3.6E+00	U	7.09E+00		GAMMALL_GS	2.0014E+00	L	09/03/2010 07:06	I
0214438	EU-155	14391-16-3	2.24E-01	pCi/L	2.0E+00	2.0E+00	U	3.54E+00		GAMMALL_GS	2.0014E+00	L	09/03/2010 07:06	I
0214438	K-40	13966-00-2	1.63E-01	pCi/L	2.2E+01	2.2E+01	U	1.69E+01		GAMMALL_GS	2.0014E+00	L	09/03/2010 07:06	I
0214438	RU-106	13967-48-1	9.46E+00	pCi/L	1.0E+01	1.0E+01	U	1.92E+01		GAMMALL_GS	2.0014E+00	L	09/03/2010 07:06	I
0214438	SB-125	14234-35-6	1.30E+00	pCi/L	2.6E+00	2.6E+00	U	4.73E+00		GAMMALL_GS	2.0014E+00	L	09/03/2010 07:06	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9L342W10	B25K42		MW6-SBB-A1	X10-074	W05947					07/09/2010 08:35

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0214438	BE-7	13966-02-4	-7.77E+00	pCi/L	2.3E+01	2.3E+01	U	3.96E+01		GAMMALL_GS	2.0019E+00	L	09/03/2010 07:05	I
0214438	CO-60	10198-40-0	-9.46E-02	pCi/L	1.6E+00	1.6E+00	U	3.07E+00		GAMMALL_GS	2.0019E+00	L	09/03/2010 07:05	I
0214438	CS-134	13967-70-9	-1.62E+00	pCi/L	1.9E+00	1.9E+00	U	3.11E+00		GAMMALL_GS	2.0019E+00	L	09/03/2010 07:05	I
0214438	CS-137	10045-97-3	-6.42E-01	pCi/L	1.5E+00	1.5E+00	U	2.62E+00		GAMMALL_GS	2.0019E+00	L	09/03/2010 07:05	I
0214438	EU-152	14683-23-9	7.86E-01	pCi/L	4.2E+00	4.2E+00	U	7.46E+00		GAMMALL_GS	2.0019E+00	L	09/03/2010 07:05	I
0214438	EU-154	15585-10-1	1.10E+00	pCi/L	5.0E+00	5.0E+00	U	9.35E+00		GAMMALL_GS	2.0019E+00	L	09/03/2010 07:05	I
0214438	EU-155	14391-16-3	8.24E-01	pCi/L	2.6E+00	2.6E+00	U	4.66E+00		GAMMALL_GS	2.0019E+00	L	09/03/2010 07:05	I
0214438	K-40	13966-00-2	-2.91E+01	pCi/L	3.8E+01	3.8E+01	U	7.58E+01		GAMMALL_GS	2.0019E+00	L	09/03/2010 07:05	I
0214438	RU-106	13967-48-1	-2.51E+00	pCi/L	1.6E+01	1.6E+01	U	2.73E+01		GAMMALL_GS	2.0019E+00	L	09/03/2010 07:05	I
0214438	SB-125	14234-35-6	2.13E+00	pCi/L	3.9E+00	3.9E+00	U	7.18E+00		GAMMALL_GS	2.0019E+00	L	09/03/2010 07:05	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9L343410	B267J5		MW6-SBB-A1	X10-074	W05947					07/09/2010 13:15

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0214438	BE-7	13966-02-4	1.16E+02	pCi/L	2.6E+02	2.6E+02	U	4.72E+02		GAMMALL_GS	2.00E-01	L	09/03/2010 07:07	I
0214438	CO-60	10198-40-0	2.36E+00	pCi/L	1.7E+01	1.7E+01	U	3.19E+01		GAMMALL_GS	2.00E-01	L	09/03/2010 07:07	I

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

9/30/2010 1:59:51 PM

TestAmerica Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 44817 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

0214438	CS-134	13967-70-9	1.01E+01	pCi/L	1.9E+01	1.9E+01	U	3.63E+01		GAMMALL_GS	2.00E-01	L	09/03/2010	07:07	I
0214438	CS-137	10045-97-3	-9.44E+00	pCi/L	1.7E+01	1.7E+01	U	2.75E+01		GAMMALL_GS	2.00E-01	L	09/03/2010	07:07	I
0214438	EU-152	14683-23-9	-1.00E+01	pCi/L	4.2E+01	4.2E+01	U	7.18E+01		GAMMALL_GS	2.00E-01	L	09/03/2010	07:07	I
0214438	EU-154	15585-10-1	1.14E+01	pCi/L	4.9E+01	4.9E+01	U	9.32E+01		GAMMALL_GS	2.00E-01	L	09/03/2010	07:07	I
0214438	EU-155	14391-16-3	-8.04E+00	pCi/L	3.7E+01	3.7E+01	U	6.28E+01		GAMMALL_GS	2.00E-01	L	09/03/2010	07:07	I
0214438	K-40	13966-00-2	-4.51E+02	pCi/L	3.7E+02	3.7E+02	U	7.22E+02		GAMMALL_GS	2.00E-01	L	09/03/2010	07:07	I
0214438	RU-106	13967-48-1	-4.24E+01	pCi/L	1.6E+02	1.6E+02	U	2.69E+02		GAMMALL_GS	2.00E-01	L	09/03/2010	07:07	I
0214438	SB-125	14234-35-6	1.89E+01	pCi/L	4.1E+01	4.1E+01	U	7.45E+01		GAMMALL_GS	2.00E-01	L	09/03/2010	07:07	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9L343C10	B25K71		MW6-SBB-A1	X10-074	W05947					07/09/2010 12:27

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0214438	BE-7	13966-02-4	-6.48E+00	pCi/L	3.2E+01	3.2E+01	U	5.55E+01		GAMMALL_GS	2.0034E+00	L	09/03/2010 07:07	I
0214438	CO-60	10198-40-0	-4.36E-01	pCi/L	2.0E+00	2.0E+00	U	3.62E+00		GAMMALL_GS	2.0034E+00	L	09/03/2010 07:07	I
0214438	CS-134	13967-70-9	-3.45E-01	pCi/L	2.4E+00	2.4E+00	U	4.27E+00		GAMMALL_GS	2.0034E+00	L	09/03/2010 07:07	I
0214438	CS-137	10045-97-3	-7.77E-01	pCi/L	2.2E+00	2.2E+00	U	3.80E+00		GAMMALL_GS	2.0034E+00	L	09/03/2010 07:07	I
0214438	EU-152	14683-23-9	-1.07E+00	pCi/L	5.4E+00	5.4E+00	U	9.28E+00		GAMMALL_GS	2.0034E+00	L	09/03/2010 07:07	I
0214438	EU-154	15585-10-1	-5.19E+00	pCi/L	6.7E+00	6.7E+00	U	1.10E+01		GAMMALL_GS	2.0034E+00	L	09/03/2010 07:07	I
0214438	EU-155	14391-16-3	-1.60E+00	pCi/L	3.4E+00	3.4E+00	U	5.81E+00		GAMMALL_GS	2.0034E+00	L	09/03/2010 07:07	I
0214438	K-40	13966-00-2	4.69E+00	pCi/L	5.3E+01	5.3E+01	U	2.59E+01		GAMMALL_GS	2.0034E+00	L	09/03/2010 07:07	I
0214438	RU-106	13967-48-1	8.47E+00	pCi/L	2.0E+01	2.0E+01	U	3.72E+01		GAMMALL_GS	2.0034E+00	L	09/03/2010 07:07	I
0214438	SB-125	14234-35-6	-2.35E+00	pCi/L	5.3E+00	5.3E+00	U	8.92E+00		GAMMALL_GS	2.0034E+00	L	09/03/2010 07:07	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9L34C810	B264J0		MW6-SBB-A1	X10-080	W05947					07/08/2010 11:12

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0214449	C-14	14762-75-5	1.84E+00	pCi/L	3.3E+00	3.8E+00	U	7.94E+00	100.0	C14_LSC	2.00E-01	L	08/31/2010 01:53	I
0214438	BE-7	13966-02-4	-9.18E+00	pCi/L	2.3E+01	2.3E+01	U	3.88E+01		GAMMALL_GS	2.0013E+00	L	09/02/2010 17:00	I
0214438	CO-60	10198-40-0	-8.85E-02	pCi/L	1.7E+00	1.7E+00	U	3.09E+00		GAMMALL_GS	2.0013E+00	L	09/02/2010 17:00	I
0214438	CS-134	13967-70-9	-6.98E-01	pCi/L	1.8E+00	1.8E+00	U	3.19E+00		GAMMALL_GS	2.0013E+00	L	09/02/2010 17:00	I
0214438	CS-137	10045-97-3	-7.49E-01	pCi/L	1.6E+00	1.6E+00	U	2.70E+00		GAMMALL_GS	2.0013E+00	L	09/02/2010 17:00	I
0214438	EU-152	14683-23-9	-2.08E+00	pCi/L	4.4E+00	4.4E+00	U	7.47E+00		GAMMALL_GS	2.0013E+00	L	09/02/2010 17:00	I
0214438	EU-154	15585-10-1	9.71E-01	pCi/L	5.5E+00	5.5E+00	U	1.04E+01		GAMMALL_GS	2.0013E+00	L	09/02/2010 17:00	I

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

0214438	EU-155	14391-16-3	1.04E-01	pCi/L	3.4E+00	3.4E+00	U	5.97E+00		GAMMALL_GS	2.0013E+00	L	09/02/2010	17:00	I
0214438	K-40	13966-00-2	3.26E+01	pCi/L	4.2E+01	4.2E+01	U	8.65E+01		GAMMALL_GS	2.0013E+00	L	09/02/2010	17:00	I
0214438	RU-106	13967-48-1	-8.04E+00	pCi/L	1.6E+01	1.6E+01	U	2.70E+01		GAMMALL_GS	2.0013E+00	L	09/02/2010	17:00	I
0214438	SB-125	14234-35-6	-1.45E+00	pCi/L	4.1E+00	4.1E+00	U	7.02E+00		GAMMALL_GS	2.0013E+00	L	09/02/2010	17:00	I
0214439	I-129	15046-84-1	9.10E-03	pCi/L	9.7E-02	9.7E-02	U	1.75E-01	95.7	I129LL_SEP_LEPS	3.8804E+00	L	09/28/2010	13:31	I
0214444	PU-238	13981-16-3	-2.05E-01	pCi/L	7.4E-02	1.1E+00	U	4.96E-01	35.7	PUISO_PLATE_AE	2.003E-01	L	08/31/2010	16:25	I
0214444	PU-239	PU-239/240	1.12E+00	pCi/L	6.3E-01	6.6E-01		4.20E-01	35.7	PUISO_PLATE_AE	2.003E-01	L	08/31/2010	16:25	I
0214446	TH-228	14274-82-9	-1.64E-02	pCi/L	1.7E-01	1.7E-01	U	3.93E-01	94.5	THISO_IE_PRECIP	2.022E-01	L	09/01/2010	18:34	I
0214446	TH-230	14269-63-7	0.00E+00	pCi/L	1.6E-01	1.6E-01	U	3.72E-01	94.5	THISO_IE_PRECIP	2.022E-01	L	09/01/2010	18:34	I
0214446	TH-232	Th-232	0.00E+00	pCi/L	1.6E-01	1.6E-01	U	3.72E-01	94.5	THISO_IE_PRECIP	2.022E-01	L	09/01/2010	18:34	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9L34CX10	B264H5		MW6-SBB-A1	X10-080	W05947					07/08/2010 10:19

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0214449	C-14	14762-75-5	2.46E+00	pCi/L	3.4E+00	3.8E+00	U	7.95E+00	100.0	C14_LSC	2.00E-01	L	08/31/2010 01:10	I
0214438	BE-7	13966-02-4	-4.96E+00	pCi/L	2.2E+01	2.2E+01	U	3.71E+01		GAMMALL_GS	2.002E+00	L	09/02/2010 16:59	I
0214438	CO-60	10198-40-0	2.48E-01	pCi/L	1.6E+00	1.6E+00	U	2.96E+00		GAMMALL_GS	2.002E+00	L	09/02/2010 16:59	I
0214438	CS-134	13967-70-9	-4.42E-01	pCi/L	1.7E+00	1.7E+00	U	2.97E+00		GAMMALL_GS	2.002E+00	L	09/02/2010 16:59	I
0214438	CS-137	10045-97-3	8.80E-01	pCi/L	1.5E+00	1.5E+00	U	2.73E+00		GAMMALL_GS	2.002E+00	L	09/02/2010 16:59	I
0214438	EU-152	14683-23-9	2.74E+00	pCi/L	3.8E+00	3.8E+00	U	6.68E+00		GAMMALL_GS	2.002E+00	L	09/02/2010 16:59	I
0214438	EU-154	15585-10-1	-4.10E-01	pCi/L	4.9E+00	4.9E+00	U	8.72E+00		GAMMALL_GS	2.002E+00	L	09/02/2010 16:59	I
0214438	EU-155	14391-16-3	2.94E+00	pCi/L	3.8E+00	3.8E+00	U	6.74E+00		GAMMALL_GS	2.002E+00	L	09/02/2010 16:59	I
0214438	K-40	13966-00-2	-8.56E+01	pCi/L	4.8E+01	4.8E+01	U	9.24E+01		GAMMALL_GS	2.002E+00	L	09/02/2010 16:59	I
0214438	RU-106	13967-48-1	6.90E+00	pCi/L	1.4E+01	1.4E+01	U	2.45E+01		GAMMALL_GS	2.002E+00	L	09/02/2010 16:59	I
0214438	SB-125	14234-35-6	1.58E+00	pCi/L	3.7E+00	3.7E+00	U	6.57E+00		GAMMALL_GS	2.002E+00	L	09/02/2010 16:59	I
0214439	I-129	15046-84-1	6.54E-02	pCi/L	1.1E-01	1.1E-01	U	2.01E-01	100.0	I129LL_SEP_LEPS	3.8945E+00	L	09/28/2010 13:31	I
0214444	PU-238	13981-16-3	2.83E-01	pCi/L	7.0E-02	9.1E-01	U	2.40E-01	63.0	PUISO_PLATE_AE	2.017E-01	L	08/31/2010 16:25	I
0214444	PU-239	PU-239/240	3.01E-01	pCi/L	2.5E-01	2.5E-01		2.40E-01	63.0	PUISO_PLATE_AE	2.017E-01	L	08/31/2010 16:25	I
0214446	TH-228	14274-82-9	1.22E-02	pCi/L	1.3E-01	1.3E-01	U	4.20E-01	90.6	THISO_IE_PRECIP	2.028E-01	L	09/01/2010 18:34	I
0214446	TH-230	14269-63-7	1.16E-01	pCi/L	1.7E-01	1.7E-01	U	2.77E-01	90.6	THISO_IE_PRECIP	2.028E-01	L	09/01/2010 18:34	I
0214446	TH-232	Th-232	5.79E-02	pCi/L	1.2E-01	1.2E-01	U	2.77E-01	90.6	THISO_IE_PRECIP	2.028E-01	L	09/01/2010 18:34	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

9/30/2010 1:59:51 PM

TestAmerica Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 44817 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9L34D310	B264N7		MW6-SBB-A1	X10-080	W05947					07/08/2010 10:44

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0214449	C-14	14762-75-5	4.40E+00	pCi/L	3.4E+00	3.9E+00	U	7.94E+00	100.0	C14_LSC	2.00E-01	L	08/31/2010 06:10	I
0214438	BE-7	13966-02-4	6.79E+00	pCi/L	2.4E+01	2.4E+01	U	4.32E+01		GAMMALL_GS	2.0015E+00	L	09/02/2010 20:31	I
0214438	CO-60	10198-40-0	-1.04E+00	pCi/L	1.7E+00	1.7E+00	U	2.80E+00		GAMMALL_GS	2.0015E+00	L	09/02/2010 20:31	I
0214438	CS-134	13967-70-9	-4.97E-01	pCi/L	1.8E+00	1.8E+00	U	3.22E+00		GAMMALL_GS	2.0015E+00	L	09/02/2010 20:31	I
0214438	CS-137	10045-97-3	-8.36E-01	pCi/L	1.7E+00	1.7E+00	U	2.85E+00		GAMMALL_GS	2.0015E+00	L	09/02/2010 20:31	I
0214438	EU-152	14683-23-9	4.83E-01	pCi/L	3.9E+00	3.9E+00	U	7.04E+00		GAMMALL_GS	2.0015E+00	L	09/02/2010 20:31	I
0214438	EU-154	15585-10-1	8.45E-01	pCi/L	4.9E+00	4.9E+00	U	9.17E+00		GAMMALL_GS	2.0015E+00	L	09/02/2010 20:31	I
0214438	EU-155	14391-16-3	1.02E+00	pCi/L	2.7E+00	2.7E+00	U	4.72E+00		GAMMALL_GS	2.0015E+00	L	09/02/2010 20:31	I
0214438	K-40	13966-00-2	2.03E-01	pCi/L	3.8E+01	3.8E+01	U	7.97E+01		GAMMALL_GS	2.0015E+00	L	09/02/2010 20:31	I
0214438	RU-106	13967-48-1	1.66E+01	pCi/L	1.5E+01	1.5E+01	U	2.90E+01		GAMMALL_GS	2.0015E+00	L	09/02/2010 20:31	I
0214438	SB-125	14234-35-6	-1.04E-01	pCi/L	4.1E+00	4.1E+00	U	7.15E+00		GAMMALL_GS	2.0015E+00	L	09/02/2010 20:31	I
0214439	I-129	15046-84-1	8.45E-02	pCi/L	8.8E-02	8.8E-02	U	1.67E-01	95.4	I129LL_SEP_LEPS	3.855E+00	L	09/29/2010 02:43	I
0214444	PU-238	13981-16-3	-7.99E-01	pCi/L	2.5E-01	7.6E-01	U	3.05E-01	64.9	PUISO_PLATE_AE	2.00E-01	L	08/31/2010 16:29	I
0214444	PU-239	PU-239/240	3.56E-01	pCi/L	2.9E-01	2.9E-01		3.05E-01	64.9	PUISO_PLATE_AE	2.00E-01	L	08/31/2010 16:29	I
0214446	TH-228	14274-82-9	1.58E-01	pCi/L	2.0E-01	2.0E-01	U	3.40E-01	92.6	THISO_IE_PRECIP	2.003E-01	L	09/01/2010 18:34	I
0214446	TH-230	14269-63-7	-9.38E-03	pCi/L	9.6E-02	9.6E-02	U	2.24E-01	92.6	THISO_IE_PRECIP	2.003E-01	L	09/01/2010 18:34	I
0214446	TH-232	Th-232	0.00E+00	pCi/L	9.6E-02	9.6E-02	U	2.24E-01	92.6	THISO_IE_PRECIP	2.003E-01	L	09/01/2010 18:34	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9L34D910	B264K0		MW6-SBB-A1	X10-080	W05947					07/08/2010 10:35

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0214449	C-14	14762-75-5	5.59E+00	pCi/L	3.5E+00	3.9E+00	U	7.95E+00	100.0	C14_LSC	2.00E-01	L	08/31/2010 06:53	I
0214438	BE-7	13966-02-4	-7.51E+00	pCi/L	2.9E+01	2.9E+01	U	4.94E+01		GAMMALL_GS	2.0038E+00	L	09/02/2010 20:32	I
0214438	CO-60	10198-40-0	-1.09E+00	pCi/L	1.7E+00	1.7E+00	U	2.77E+00		GAMMALL_GS	2.0038E+00	L	09/02/2010 20:32	I
0214438	CS-134	13967-70-9	8.14E-01	pCi/L	2.0E+00	2.0E+00	U	3.74E+00		GAMMALL_GS	2.0038E+00	L	09/02/2010 20:32	I
0214438	CS-137	10045-97-3	-4.64E-01	pCi/L	1.9E+00	1.9E+00	U	3.35E+00		GAMMALL_GS	2.0038E+00	L	09/02/2010 20:32	I
0214438	EU-152	14683-23-9	-5.42E+00	pCi/L	5.1E+00	5.1E+00	U	7.87E+00		GAMMALL_GS	2.0038E+00	L	09/02/2010 20:32	I
0214438	EU-154	15585-10-1	-2.12E+00	pCi/L	5.5E+00	5.5E+00	U	9.57E+00		GAMMALL_GS	2.0038E+00	L	09/02/2010 20:32	I
0214438	EU-155	14391-16-3	2.10E+00	pCi/L	4.8E+00	4.8E+00	U	8.30E+00		GAMMALL_GS	2.0038E+00	L	09/02/2010 20:32	I
0214438	K-40	13966-00-2	-3.90E+01	pCi/L	5.4E+01	5.4E+01	U	1.14E+02		GAMMALL_GS	2.0038E+00	L	09/02/2010 20:32	I
0214438	RU-106	13967-48-1	7.05E+00	pCi/L	1.7E+01	1.7E+01	U	3.11E+01		GAMMALL_GS	2.0038E+00	L	09/02/2010 20:32	I

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

0214438	SB-125	14234-35-6	-9.10E-01	pCi/L	5.0E+00	5.0E+00	U	8.66E+00		GAMMALL_GS	2.0038E+00	L	09/02/2010	20:32	I
0214439	I-129	15046-84-1	1.03E-01	pCi/L	1.3E-01	1.3E-01	U	1.83E-01	93.0	I129LL_SEP_LEPS	3.8656E+00	L	09/29/2010	06:05	I
0214444	PU-238	13981-16-3	-4.34E-01	pCi/L	1.4E-01	9.1E-01	U	2.72E-01	43.2	PUISO_PLATE_AE	2.001E-01	L	08/31/2010	16:29	I
0214444	PU-239	PU-239/240	7.06E-01	pCi/L	4.5E-01	4.7E-01		4.18E-01	43.2	PUISO_PLATE_AE	2.001E-01	L	08/31/2010	16:29	I
0214446	TH-228	14274-82-9	1.41E-01	pCi/L	1.6E-01	1.7E-01	U	2.25E-01	93.5	THISO_IE_PRECIP	2.005E-01	L	09/01/2010	18:35	I
0214446	TH-230	14269-63-7	1.24E-01	pCi/L	1.5E-01	1.6E-01	U	2.13E-01	93.5	THISO_IE_PRECIP	2.005E-01	L	09/01/2010	18:35	I
0214446	TH-232	Th-232	-1.78E-02	pCi/L	9.2E-02	9.2E-02	U	2.51E-01	93.5	THISO_IE_PRECIP	2.005E-01	L	09/01/2010	18:35	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9L34DA10	B264N2		MW6-SBB-A1	X10-080	W05947					07/08/2010 12:13

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0214449	C-14	14762-75-5	3.55E+00	pCi/L	3.4E+00	3.8E+00	U	7.93E+00	100.0	C14_LSC	2.00E-01	L	08/31/2010 02:35	I
0214438	BE-7	13966-02-4	1.25E+01	pCi/L	3.0E+01	3.0E+01	U	5.30E+01		GAMMALL_GS	2.0017E+00	L	09/02/2010 17:01	I
0214438	CO-60	10198-40-0	9.06E-01	pCi/L	2.6E+00	2.6E+00	U	4.79E+00		GAMMALL_GS	2.0017E+00	L	09/02/2010 17:01	I
0214438	CS-134	13967-70-9	2.33E+00	pCi/L	2.5E+00	2.5E+00	U	4.76E+00		GAMMALL_GS	2.0017E+00	L	09/02/2010 17:01	I
0214438	CS-137	10045-97-3	3.18E-01	pCi/L	2.2E+00	2.2E+00	U	3.99E+00		GAMMALL_GS	2.0017E+00	L	09/02/2010 17:01	I
0214438	EU-152	14683-23-9	3.11E-01	pCi/L	5.4E+00	5.4E+00	U	9.35E+00		GAMMALL_GS	2.0017E+00	L	09/02/2010 17:01	I
0214438	EU-154	15585-10-1	3.04E+00	pCi/L	5.6E+00	5.6E+00	U	1.10E+01		GAMMALL_GS	2.0017E+00	L	09/02/2010 17:01	I
0214438	EU-155	14391-16-3	5.07E-01	pCi/L	3.7E+00	3.7E+00	U	6.33E+00		GAMMALL_GS	2.0017E+00	L	09/02/2010 17:01	I
0214438	K-40	13966-00-2	-6.02E+01	pCi/L	5.0E+01	5.0E+01	U	1.03E+02		GAMMALL_GS	2.0017E+00	L	09/02/2010 17:01	I
0214438	RU-106	13967-48-1	-8.10E+00	pCi/L	2.1E+01	2.1E+01	U	3.55E+01		GAMMALL_GS	2.0017E+00	L	09/02/2010 17:01	I
0214438	SB-125	14234-35-6	2.37E+00	pCi/L	5.4E+00	5.4E+00	U	9.64E+00		GAMMALL_GS	2.0017E+00	L	09/02/2010 17:01	I
0214439	I-129	15046-84-1	5.68E-02	pCi/L	1.0E-01	1.0E-01	U	1.92E-01	96.2	I129LL_SEP_LEPS	3.863E+00	L	09/28/2010 17:12	I
0214444	PU-238	13981-16-3	-4.25E-01	pCi/L	1.5E-01	9.8E-01	U	3.80E-01	42.5	PUISO_PLATE_AE	2.02E-01	L	08/31/2010 16:25	I
0214444	PU-239	PU-239/240	5.39E-01	pCi/L	4.2E-01	4.3E-01		3.80E-01	42.5	PUISO_PLATE_AE	2.02E-01	L	08/31/2010 16:25	I
0214446	TH-228	14274-82-9	5.06E-02	pCi/L	1.8E-01	1.8E-01	U	4.77E-01	92.3	THISO_IE_PRECIP	2.007E-01	L	09/01/2010 18:34	I
0214446	TH-230	14269-63-7	0.00E+00	pCi/L	1.6E-01	1.6E-01	U	3.82E-01	92.3	THISO_IE_PRECIP	2.007E-01	L	09/01/2010 18:34	I
0214446	TH-232	Th-232	0.00E+00	pCi/L	1.6E-01	1.6E-01	U	3.82E-01	92.3	THISO_IE_PRECIP	2.007E-01	L	09/01/2010 18:34	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9L34DD10	B264M2		MW6-SBB-A1	X10-080	W05947					07/08/2010 13:35

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0214449	C-14	14762-75-5	4.00E+00	pCi/L	3.4E+00	3.9E+00	U	7.95E+00	100.0	C14_LSC	2.00E-01	L	08/31/2010 04:01	I

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

9/30/2010 1:59:51 PM **TestAmerica Report** **Lab Code:** TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 44817 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

0214438	BE-7	13966-02-4	-4.05E+00	pCi/L	1.3E+01	1.3E+01	U	2.32E+01		GAMMALL_GS	2.0029E+00	L	09/02/2010	17:01	I
0214438	CO-60	10198-40-0	1.20E-02	pCi/L	1.1E+00	1.1E+00	U	2.06E+00		GAMMALL_GS	2.0029E+00	L	09/02/2010	17:01	I
0214438	CS-134	13967-70-9	-4.58E-01	pCi/L	1.2E+00	1.2E+00	U	2.15E+00		GAMMALL_GS	2.0029E+00	L	09/02/2010	17:01	I
0214438	CS-137	10045-97-3	9.04E-01	pCi/L	1.2E+00	1.2E+00	U	2.21E+00		GAMMALL_GS	2.0029E+00	L	09/02/2010	17:01	I
0214438	EU-152	14683-23-9	1.32E-01	pCi/L	2.5E+00	2.5E+00	U	4.31E+00		GAMMALL_GS	2.0029E+00	L	09/02/2010	17:01	I
0214438	EU-154	15585-10-1	5.37E-01	pCi/L	3.7E+00	3.7E+00	U	6.83E+00		GAMMALL_GS	2.0029E+00	L	09/02/2010	17:01	I
0214438	EU-155	14391-16-3	2.90E-01	pCi/L	1.8E+00	1.8E+00	U	3.27E+00		GAMMALL_GS	2.0029E+00	L	09/02/2010	17:01	I
0214438	K-40	13966-00-2	-1.11E+01	pCi/L	2.3E+01	2.3E+01	U	4.38E+01		GAMMALL_GS	2.0029E+00	L	09/02/2010	17:01	I
0214438	RU-106	13967-48-1	-2.99E+00	pCi/L	8.7E+00	8.7E+00	U	1.50E+01		GAMMALL_GS	2.0029E+00	L	09/02/2010	17:01	I
0214438	SB-125	14234-35-6	-7.12E-01	pCi/L	2.6E+00	2.6E+00	U	4.44E+00		GAMMALL_GS	2.0029E+00	L	09/02/2010	17:01	I
0214439	I-129	15046-84-1	3.82E-02	pCi/L	1.0E-01	1.0E-01	U	1.68E-01	103.0	I129LL_SEP_LEPS	3.8742E+00	L	09/28/2010	17:13	I
0214444	PU-238	13981-16-3	-4.79E-01	pCi/L	1.6E-01	9.0E-01	U	3.85E-01	50.5	PUISO_PLATE_AE	2.003E-01	L	08/31/2010	16:25	I
0214444	PU-239	PU-239/240	4.77E-01	pCi/L	3.6E-01	3.7E-01		3.26E-01	50.5	PUISO_PLATE_AE	2.003E-01	L	08/31/2010	16:25	I
0214446	TH-228	14274-82-9	1.86E-01	pCi/L	2.2E-01	2.2E-01	U	2.97E-01	90.7	THISO_IE_PRECIP	2.008E-01	L	09/01/2010	18:34	I
0214446	TH-230	14269-63-7	-1.17E-02	pCi/L	1.2E-01	1.2E-01	U	2.81E-01	90.7	THISO_IE_PRECIP	2.008E-01	L	09/01/2010	18:34	I
0214446	TH-232	Th-232	0.00E+00	pCi/L	1.2E-01	1.2E-01	U	2.81E-01	90.7	THISO_IE_PRECIP	2.008E-01	L	09/01/2010	18:34	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9L34DG10	B264M7		MW6-SBB-A1	X10-080	W05947					07/08/2010 09:29

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0214449	C-14	14762-75-5	2.12E+00	pCi/L	3.4E+00	3.8E+00	U	7.94E+00	100.0	C14_LSC	2.00E-01	L	08/31/2010 04:44	I
0214438	BE-7	13966-02-4	-1.32E+01	pCi/L	2.3E+01	2.3E+01	U	3.74E+01		GAMMALL_GS	2.0006E+00	L	09/02/2010 17:01	I
0214438	CO-60	10198-40-0	8.45E-01	pCi/L	1.6E+00	1.6E+00	U	3.23E+00		GAMMALL_GS	2.0006E+00	L	09/02/2010 17:01	I
0214438	CS-134	13967-70-9	8.02E-02	pCi/L	1.7E+00	1.7E+00	U	3.05E+00		GAMMALL_GS	2.0006E+00	L	09/02/2010 17:01	I
0214438	CS-137	10045-97-3	4.02E-01	pCi/L	1.5E+00	1.5E+00	U	2.69E+00		GAMMALL_GS	2.0006E+00	L	09/02/2010 17:01	I
0214438	EU-152	14683-23-9	6.62E-01	pCi/L	4.2E+00	4.2E+00	U	7.46E+00		GAMMALL_GS	2.0006E+00	L	09/02/2010 17:01	I
0214438	EU-154	15585-10-1	2.73E-01	pCi/L	4.4E+00	4.4E+00	U	8.29E+00		GAMMALL_GS	2.0006E+00	L	09/02/2010 17:01	I
0214438	EU-155	14391-16-3	5.01E-02	pCi/L	2.7E+00	2.7E+00	U	4.72E+00		GAMMALL_GS	2.0006E+00	L	09/02/2010 17:01	I
0214438	K-40	13966-00-2	-2.25E+01	pCi/L	3.6E+01	3.6E+01	U	7.42E+01		GAMMALL_GS	2.0006E+00	L	09/02/2010 17:01	I
0214438	RU-106	13967-48-1	3.60E+00	pCi/L	1.6E+01	1.6E+01	U	2.90E+01		GAMMALL_GS	2.0006E+00	L	09/02/2010 17:01	I
0214438	SB-125	14234-35-6	5.93E-01	pCi/L	4.0E+00	4.0E+00	U	7.15E+00		GAMMALL_GS	2.0006E+00	L	09/02/2010 17:01	I
0214439	I-129	15046-84-1	-2.61E-03	pCi/L	1.1E-01	1.1E-01	U	2.00E-01	97.3	I129LL_SEP_LEPS	3.8445E+00	L	09/28/2010 21:01	I
0214444	PU-238	13981-16-3	-2.56E-01	pCi/L	7.9E-02	9.3E-01	U	3.63E-01	49.5	PUISO_PLATE_AE	2.007E-01	L	08/31/2010 16:27	I

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

0214444	PU-239	PU-239/240	4.87E-01	pCi/L	3.6E-01	3.7E-01		3.62E-01	49.5	PUISO_PLATE_AE	2.007E-01	L	08/31/2010	16:27	I
0214446	TH-228	14274-82-9	0.00E+00	pCi/L	1.3E-01	1.3E-01	U	2.95E-01	92.8	THISO_IE_PRECIP	2.005E-01	L	09/01/2010	18:34	I
0214446	TH-230	14269-63-7	5.83E-02	pCi/L	1.2E-01	1.2E-01	U	2.79E-01	92.8	THISO_IE_PRECIP	2.005E-01	L	09/01/2010	18:34	I
0214446	TH-232	Th-232	0.00E+00	pCi/L	1.2E-01	1.2E-01	U	2.79E-01	92.8	THISO_IE_PRECIP	2.005E-01	L	09/01/2010	18:34	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9L34DW10	B264L2		MW6-SBB-A1	X10-080	W05947					07/08/2010 12:35

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0214449	C-14	14762-75-5	6.24E+00	pCi/L	3.5E+00	4.0E+00	U	7.94E+00	100.0	C14_LSC	2.00E-01	L	08/31/2010 05:27	I
0214438	BE-7	13966-02-4	-2.10E+01	pCi/L	3.1E+01	3.1E+01	U	5.07E+01		GAMMALL_GS	2.0018E+00	L	09/02/2010 17:02	I
0214438	CO-60	10198-40-0	-1.71E+00	pCi/L	1.7E+00	1.7E+00	U	2.54E+00		GAMMALL_GS	2.0018E+00	L	09/02/2010 17:02	I
0214438	CS-134	13967-70-9	-4.51E-01	pCi/L	2.0E+00	2.0E+00	U	3.57E+00		GAMMALL_GS	2.0018E+00	L	09/02/2010 17:02	I
0214438	CS-137	10045-97-3	-6.11E-02	pCi/L	1.9E+00	1.9E+00	U	3.34E+00		GAMMALL_GS	2.0018E+00	L	09/02/2010 17:02	I
0214438	EU-152	14683-23-9	1.89E+00	pCi/L	5.1E+00	5.1E+00	U	9.01E+00		GAMMALL_GS	2.0018E+00	L	09/02/2010 17:02	I
0214438	EU-154	15585-10-1	-1.64E+00	pCi/L	4.8E+00	4.8E+00	U	8.58E+00		GAMMALL_GS	2.0018E+00	L	09/02/2010 17:02	I
0214438	EU-155	14391-16-3	-3.70E+00	pCi/L	4.9E+00	4.9E+00	U	8.06E+00		GAMMALL_GS	2.0018E+00	L	09/02/2010 17:02	I
0214438	K-40	13966-00-2	-1.01E+02	pCi/L	5.3E+01	5.3E+01	U	1.06E+02		GAMMALL_GS	2.0018E+00	L	09/02/2010 17:02	I
0214438	RU-106	13967-48-1	1.57E+01	pCi/L	1.8E+01	1.8E+01	U	3.38E+01		GAMMALL_GS	2.0018E+00	L	09/02/2010 17:02	I
0214438	SB-125	14234-35-6	9.12E-02	pCi/L	4.5E+00	4.5E+00	U	7.89E+00		GAMMALL_GS	2.0018E+00	L	09/02/2010 17:02	I
0214439	I-129	15046-84-1	3.99E-02	pCi/L	1.1E-01	1.1E-01	U	1.90E-01	106.8	I129LL_SEP_LEPS	3.8324E+00	L	09/29/2010 02:42	I
0214444	PU-238	13981-16-3	-7.83E-01	pCi/L	2.6E-01	7.5E-01	U	2.80E-01	60.9	PUISO_PLATE_AE	2.022E-01	L	08/31/2010 16:28	I
0214444	PU-239	PU-239/240	6.89E-01	pCi/L	4.1E-01	4.2E-01		2.80E-01	60.9	PUISO_PLATE_AE	2.022E-01	L	08/31/2010 16:28	I
0214446	TH-228	14274-82-9	4.64E-02	pCi/L	9.5E-02	9.5E-02	U	2.22E-01	93.5	THISO_IE_PRECIP	2.006E-01	L	09/01/2010 18:34	I
0214446	TH-230	14269-63-7	8.79E-02	pCi/L	1.3E-01	1.3E-01	U	2.11E-01	93.5	THISO_IE_PRECIP	2.006E-01	L	09/01/2010 18:34	I
0214446	TH-232	Th-232	4.40E-02	pCi/L	9.0E-02	9.0E-02	U	2.11E-01	93.5	THISO_IE_PRECIP	2.006E-01	L	09/01/2010 18:34	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9L34EG10	B264C5		MW6-SBB-A1	X10-080	W05947					07/08/2010 13:31

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0214449	C-14	14762-75-5	1.14E+00	pCi/L	3.3E+00	3.8E+00	U	7.94E+00	100.0	C14_LSC	2.00E-01	L	08/31/2010 07:36	I
0214438	BE-7	13966-02-4	7.58E+00	pCi/L	1.3E+01	1.3E+01	U	2.50E+01		GAMMALL_GS	2.0024E+00	L	09/02/2010 20:33	I
0214438	CO-60	10198-40-0	6.35E-01	pCi/L	1.1E+00	1.1E+00	U	2.19E+00		GAMMALL_GS	2.0024E+00	L	09/02/2010 20:33	I
0214438	CS-134	13967-70-9	1.73E-01	pCi/L	1.2E+00	1.2E+00	U	2.21E+00		GAMMALL_GS	2.0024E+00	L	09/02/2010 20:33	I

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

9/30/2010 1:59:51 PM **TestAmerica Report** Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 44817 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

0214438	CS-137	10045-97-3	1.03E+00	pCi/L	1.1E+00	1.1E+00	U	2.10E+00		GAMMALL_GS	2.0024E+00	L	09/02/2010	20:33	I
0214438	EU-152	14683-23-9	1.22E+00	pCi/L	2.4E+00	2.4E+00	U	4.43E+00		GAMMALL_GS	2.0024E+00	L	09/02/2010	20:33	I
0214438	EU-154	15585-10-1	-7.93E-01	pCi/L	3.3E+00	3.3E+00	U	5.95E+00		GAMMALL_GS	2.0024E+00	L	09/02/2010	20:33	I
0214438	EU-155	14391-16-3	-6.49E-01	pCi/L	1.8E+00	1.8E+00	U	3.15E+00		GAMMALL_GS	2.0024E+00	L	09/02/2010	20:33	I
0214438	K-40	13966-00-2	-9.69E+00	pCi/L	2.1E+01	2.1E+01	U	4.15E+01		GAMMALL_GS	2.0024E+00	L	09/02/2010	20:33	I
0214438	RU-106	13967-48-1	-3.92E+00	pCi/L	1.0E+01	1.0E+01	U	1.71E+01		GAMMALL_GS	2.0024E+00	L	09/02/2010	20:33	I
0214438	SB-125	14234-35-6	-8.69E-01	pCi/L	2.4E+00	2.4E+00	U	4.08E+00		GAMMALL_GS	2.0024E+00	L	09/02/2010	20:33	I
0214439	I-129	15046-84-1	6.46E-02	pCi/L	8.3E-02	8.3E-02	U	1.62E-01	97.6	I129LL_SEP_LEPS	3.834E+00	L	09/29/2010	06:05	I
0214444	PU-238	13981-16-3	-2.17E-01	pCi/L	6.2E-02	8.7E-01	U	2.76E-01	59.2	PUISO_PLATE_AE	2.01E-01	L	08/31/2010	16:29	I
0214444	PU-239	PU-239/240	2.68E-01	pCi/L	2.5E-01	2.5E-01		2.53E-01	59.2	PUISO_PLATE_AE	2.01E-01	L	08/31/2010	16:29	I
0214446	TH-228	14274-82-9	0.00E+00	pCi/L	9.9E-02	9.9E-02	U	2.32E-01	91.0	THISO_IE_PRECIP	2.00E-01	L	09/01/2010	18:35	I
0214446	TH-230	14269-63-7	0.00E+00	pCi/L	9.3E-02	9.3E-02	U	2.19E-01	91.0	THISO_IE_PRECIP	2.00E-01	L	09/01/2010	18:35	I
0214446	TH-232	Th-232	0.00E+00	pCi/L	9.3E-02	9.3E-02	U	2.19E-01	91.0	THISO_IE_PRECIP	2.00E-01	L	09/01/2010	18:35	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9L34EL10	B264F6		MW6-SBB-A1	SKS4130110 X10-080	W05947					07/08/2010 11:48

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0214449	C-14	14762-75-5	6.78E+00	pCi/L	3.5E+00	4.0E+00	U	7.94E+00	100.0	C14_LSC	2.00E-01	L	08/31/2010 08:18	I
0214438	BE-7	13966-02-4	1.36E+01	pCi/L	3.0E+01	3.0E+01	U	5.47E+01		GAMMALL_GS	2.0026E+00	L	09/02/2010 20:33	I
0214438	CO-60	10198-40-0	8.09E-01	pCi/L	2.1E+00	2.1E+00	U	4.06E+00		GAMMALL_GS	2.0026E+00	L	09/02/2010 20:33	I
0214438	CS-134	13967-70-9	2.87E+00	pCi/L	2.5E+00	2.5E+00	U	4.82E+00		GAMMALL_GS	2.0026E+00	L	09/02/2010 20:33	I
0214438	CS-137	10045-97-3	-9.65E-01	pCi/L	2.1E+00	2.1E+00	U	3.53E+00		GAMMALL_GS	2.0026E+00	L	09/02/2010 20:33	I
0214438	EU-152	14683-23-9	-1.80E+00	pCi/L	5.5E+00	5.5E+00	U	9.35E+00		GAMMALL_GS	2.0026E+00	L	09/02/2010 20:33	I
0214438	EU-154	15585-10-1	-2.75E+00	pCi/L	5.5E+00	5.5E+00	U	9.40E+00		GAMMALL_GS	2.0026E+00	L	09/02/2010 20:33	I
0214438	EU-155	14391-16-3	-3.90E-02	pCi/L	3.6E+00	3.6E+00	U	6.07E+00		GAMMALL_GS	2.0026E+00	L	09/02/2010 20:33	I
0214438	K-40	13966-00-2	-6.16E+01	pCi/L	5.1E+01	5.1E+01	U	1.04E+02		GAMMALL_GS	2.0026E+00	L	09/02/2010 20:33	I
0214438	RU-106	13967-48-1	4.71E+00	pCi/L	1.9E+01	1.9E+01	U	3.41E+01		GAMMALL_GS	2.0026E+00	L	09/02/2010 20:33	I
0214438	SB-125	14234-35-6	1.67E+00	pCi/L	5.2E+00	5.2E+00	U	9.17E+00		GAMMALL_GS	2.0026E+00	L	09/02/2010 20:33	I
0214444	PU-238	13981-16-3	-1.10E+00	pCi/L	4.0E-01	7.4E-01	U	3.46E-01	53.5	PUISO_PLATE_AE	2.005E-01	L	08/31/2010 16:29	I
0214444	PU-239	PU-239/240	7.29E-01	pCi/L	4.2E-01	4.4E-01		2.46E-01	53.5	PUISO_PLATE_AE	2.005E-01	L	08/31/2010 16:29	I
0214446	TH-228	14274-82-9	1.24E-01	pCi/L	1.6E-01	1.6E-01	U	2.67E-01	94.5	THISO_IE_PRECIP	2.013E-01	L	09/01/2010 18:35	I
0214446	TH-230	14269-63-7	6.61E-02	pCi/L	1.0E-01	1.1E-01	U	1.76E-01	94.5	THISO_IE_PRECIP	2.013E-01	L	09/01/2010 18:35	I
0214446	TH-232	Th-232	2.20E-02	pCi/L	7.6E-02	7.6E-02	U	2.08E-01	94.5	THISO_IE_PRECIP	2.013E-01	L	09/01/2010 18:35	I

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

9/30/2010 1:59:51 PM

TestAmerica Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 44817 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9L34EP10	B264J5		MW6-SBB-A1	X10-080	W05947					07/08/2010 12:07

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0214449	C-14	14762-75-5	4.18E+00	pCi/L	3.4E+00	3.9E+00	U	7.95E+00	100.0	C14_LSC	2.00E-01	L	08/31/2010 09:44	I
0214438	BE-7	13966-02-4	2.39E+00	pCi/L	2.7E+01	2.7E+01	U	4.69E+01		GAMMALL_GS	2.0019E+00	L	09/02/2010 20:34	I
0214438	CO-60	10198-40-0	1.51E-02	pCi/L	1.7E+00	1.7E+00	U	3.15E+00		GAMMALL_GS	2.0019E+00	L	09/02/2010 20:34	I
0214438	CS-134	13967-70-9	5.22E-01	pCi/L	1.7E+00	1.7E+00	U	3.30E+00		GAMMALL_GS	2.0019E+00	L	09/02/2010 20:34	I
0214438	CS-137	10045-97-3	-2.15E-01	pCi/L	1.6E+00	1.6E+00	U	2.84E+00		GAMMALL_GS	2.0019E+00	L	09/02/2010 20:34	I
0214438	EU-152	14683-23-9	5.97E-01	pCi/L	4.5E+00	4.5E+00	U	8.09E+00		GAMMALL_GS	2.0019E+00	L	09/02/2010 20:34	I
0214438	EU-154	15585-10-1	5.24E-01	pCi/L	5.0E+00	5.0E+00	U	9.40E+00		GAMMALL_GS	2.0019E+00	L	09/02/2010 20:34	I
0214438	EU-155	14391-16-3	7.41E-01	pCi/L	3.5E+00	3.5E+00	U	6.21E+00		GAMMALL_GS	2.0019E+00	L	09/02/2010 20:34	I
0214438	K-40	13966-00-2	3.40E+01	pCi/L	4.1E+01	4.1E+01	U	8.52E+01		GAMMALL_GS	2.0019E+00	L	09/02/2010 20:34	I
0214438	RU-106	13967-48-1	1.77E+00	pCi/L	1.6E+01	1.6E+01	U	2.92E+01		GAMMALL_GS	2.0019E+00	L	09/02/2010 20:34	I
0214438	SB-125	14234-35-6	1.18E+00	pCi/L	4.2E+00	4.2E+00	U	7.58E+00		GAMMALL_GS	2.0019E+00	L	09/02/2010 20:34	I
0214439	I-129	15046-84-1	-5.22E-02	pCi/L	1.0E-01	1.0E-01	U	1.70E-01	98.1	I129LL_SEP_LEPS	3.8852E+00	L	09/29/2010 09:27	I
0214444	PU-238	13981-16-3	-1.73E-01	pCi/L	5.1E-02	9.1E-01	U	4.15E-01	48.6	PUISO_PLATE_AE	2.016E-01	L	08/31/2010 16:30	I
0214444	PU-239	PU-239/240	7.60E-01	pCi/L	4.4E-01	4.5E-01		3.41E-01	48.6	PUISO_PLATE_AE	2.016E-01	L	08/31/2010 16:30	I
0214446	TH-228	14274-82-9	2.07E-01	pCi/L	2.1E-01	2.1E-01	U	2.47E-01	89.8	THISO_IE_PRECIP	2.004E-01	L	09/01/2010 22:18	I
0214446	TH-230	14269-63-7	-1.96E-02	pCi/L	1.0E-01	1.0E-01	U	2.76E-01	89.8	THISO_IE_PRECIP	2.004E-01	L	09/01/2010 22:18	I
0214446	TH-232	Th-232	-9.78E-03	pCi/L	1.0E-01	1.0E-01	U	2.34E-01	89.8	THISO_IE_PRECIP	2.004E-01	L	09/01/2010 22:18	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9L34ER10	B264B0		MW6-SBB-A1	X10-080	W05947					07/08/2010 09:13

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0214449	C-14	14762-75-5	4.84E+00	pCi/L	3.5E+00	3.9E+00	U	7.94E+00	100.0	C14_LSC	2.00E-01	L	08/31/2010 10:27	I
0214438	BE-7	13966-02-4	2.71E+00	pCi/L	2.0E+01	2.0E+01	U	3.58E+01		GAMMALL_GS	2.00E+00	L	09/02/2010 20:35	I
0214438	CO-60	10198-40-0	-4.76E-01	pCi/L	1.5E+00	1.5E+00	U	2.55E+00		GAMMALL_GS	2.00E+00	L	09/02/2010 20:35	I
0214438	CS-134	13967-70-9	-3.39E-01	pCi/L	1.5E+00	1.5E+00	U	2.69E+00		GAMMALL_GS	2.00E+00	L	09/02/2010 20:35	I
0214438	CS-137	10045-97-3	2.15E-01	pCi/L	1.3E+00	1.3E+00	U	2.38E+00		GAMMALL_GS	2.00E+00	L	09/02/2010 20:35	I
0214438	EU-152	14683-23-9	-4.78E-02	pCi/L	3.3E+00	3.3E+00	U	5.71E+00		GAMMALL_GS	2.00E+00	L	09/02/2010 20:35	I
0214438	EU-154	15585-10-1	1.89E+00	pCi/L	4.0E+00	4.0E+00	U	7.64E+00		GAMMALL_GS	2.00E+00	L	09/02/2010 20:35	I
0214438	EU-155	14391-16-3	-6.12E-01	pCi/L	3.2E+00	3.2E+00	U	5.33E+00		GAMMALL_GS	2.00E+00	L	09/02/2010 20:35	I

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

0214438	K-40	13966-00-2	4.25E+00	pCi/L	2.0E+01	2.0E+01	U	3.86E+01		GAMMALL_GS	2.00E+00	L	09/02/2010	20:35	I
0214438	RU-106	13967-48-1	2.88E+00	pCi/L	1.2E+01	1.2E+01	U	2.22E+01		GAMMALL_GS	2.00E+00	L	09/02/2010	20:35	I
0214438	SB-125	14234-35-6	3.69E+00	pCi/L	3.4E+00	3.4E+00	U	6.41E+00		GAMMALL_GS	2.00E+00	L	09/02/2010	20:35	I
0214439	I-129	15046-84-1	7.33E-02	pCi/L	7.8E-02	7.8E-02	U	1.26E-01	98.1	I129LL_SEP_LEPS	3.8902E+00	L	09/29/2010	09:27	I
0214444	PU-238	13981-16-3	-4.23E-01	pCi/L	1.6E-01	1.0E+00	U	5.52E-01	38.2	PUISO_PLATE_AE	2.015E-01	L	08/31/2010	16:30	I
0214444	PU-239	PU-239/240	8.70E-01	pCi/L	5.6E-01	5.9E-01		4.45E-01	38.2	PUISO_PLATE_AE	2.015E-01	L	08/31/2010	16:30	I
0214446	TH-228	14274-82-9	0.00E+00	pCi/L	1.1E-01	1.1E-01	U	2.50E-01	88.8	THISO_IE_PRECIP	2.011E-01	L	09/01/2010	22:18	I
0214446	TH-230	14269-63-7	3.95E-02	pCi/L	1.0E-01	1.0E-01	U	2.36E-01	88.8	THISO_IE_PRECIP	2.011E-01	L	09/01/2010	22:18	I
0214446	TH-232	Th-232	-9.89E-03	pCi/L	1.0E-01	1.0E-01	U	2.36E-01	88.8	THISO_IE_PRECIP	2.011E-01	L	09/01/2010	22:18	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9L34FM10	B25K41		MW6-SBB-A1	X10-074	W05947					07/09/2010 08:26

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0214438	BE-7	13966-02-4	1.55E+01	pCi/L	2.2E+01	2.2E+01	U	4.03E+01		GAMMALL_GS	2.0011E+00	L	09/02/2010 20:35	I
0214438	CO-60	10198-40-0	-2.29E-01	pCi/L	1.6E+00	1.6E+00	U	2.77E+00		GAMMALL_GS	2.0011E+00	L	09/02/2010 20:35	I
0214438	CS-134	13967-70-9	1.16E+00	pCi/L	1.7E+00	1.7E+00	U	3.19E+00		GAMMALL_GS	2.0011E+00	L	09/02/2010 20:35	I
0214438	CS-137	10045-97-3	-5.06E-01	pCi/L	1.5E+00	1.5E+00	U	2.57E+00		GAMMALL_GS	2.0011E+00	L	09/02/2010 20:35	I
0214438	EU-152	14683-23-9	4.15E+00	pCi/L	3.9E+00	3.9E+00	U	6.98E+00		GAMMALL_GS	2.0011E+00	L	09/02/2010 20:35	I
0214438	EU-154	15585-10-1	2.54E+00	pCi/L	4.3E+00	4.3E+00	U	8.32E+00		GAMMALL_GS	2.0011E+00	L	09/02/2010 20:35	I
0214438	EU-155	14391-16-3	1.71E+00	pCi/L	3.6E+00	3.6E+00	U	6.38E+00		GAMMALL_GS	2.0011E+00	L	09/02/2010 20:35	I
0214438	K-40	13966-00-2	-6.32E+01	pCi/L	4.8E+01	4.8E+01	U	9.43E+01		GAMMALL_GS	2.0011E+00	L	09/02/2010 20:35	I
0214438	RU-106	13967-48-1	2.77E+00	pCi/L	1.5E+01	1.5E+01	U	2.66E+01		GAMMALL_GS	2.0011E+00	L	09/02/2010 20:35	I
0214438	SB-125	14234-35-6	1.13E+00	pCi/L	3.7E+00	3.7E+00	U	6.52E+00		GAMMALL_GS	2.0011E+00	L	09/02/2010 20:35	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9L34FQ10	B267K5		MW6-SBB-A1	X10-074	W05947					07/09/2010 09:42

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0214438	BE-7	13966-02-4	9.02E+00	pCi/L	2.8E+01	2.8E+01	U	5.04E+01		GAMMALL_GS	2.0032E+00	L	09/03/2010 07:05	I
0214438	CO-60	10198-40-0	-9.79E-01	pCi/L	2.0E+00	2.0E+00	U	3.50E+00		GAMMALL_GS	2.0032E+00	L	09/03/2010 07:05	I
0214438	CS-134	13967-70-9	2.54E+00	pCi/L	2.1E+00	2.1E+00	U	4.15E+00		GAMMALL_GS	2.0032E+00	L	09/03/2010 07:05	I
0214438	CS-137	10045-97-3	6.69E-01	pCi/L	1.8E+00	1.8E+00	U	3.38E+00		GAMMALL_GS	2.0032E+00	L	09/03/2010 07:05	I
0214438	EU-152	14683-23-9	3.35E+00	pCi/L	5.1E+00	5.1E+00	U	9.07E+00		GAMMALL_GS	2.0032E+00	L	09/03/2010 07:05	I
0214438	EU-154	15585-10-1	-2.03E+00	pCi/L	5.1E+00	5.1E+00	U	9.05E+00		GAMMALL_GS	2.0032E+00	L	09/03/2010 07:05	I

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

9/30/2010 1:59:51 PM **TestAmerica Report** Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 44817 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

0214438	EU-155	14391-16-3	1.55E+00	pCi/L	4.8E+00	4.8E+00	U	8.38E+00		GAMMALL_GS	2.0032E+00	L	09/03/2010	07:05	I
0214438	K-40	13966-00-2	-1.94E+01	pCi/L	5.5E+01	5.5E+01	U	1.16E+02		GAMMALL_GS	2.0032E+00	L	09/03/2010	07:05	I
0214438	RU-106	13967-48-1	1.60E+01	pCi/L	1.9E+01	1.9E+01	U	3.56E+01		GAMMALL_GS	2.0032E+00	L	09/03/2010	07:05	I
0214438	SB-125	14234-35-6	-1.91E+00	pCi/L	5.0E+00	5.0E+00	U	8.46E+00		GAMMALL_GS	2.0032E+00	L	09/03/2010	07:05	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9L38TW10	B265W8		MW6-SBB-A1	X10-081	W05947					07/15/2010 09:19

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
0214450	H-3	10028-17-8	2.95E+03	pCi/L	2.1E+02	2.3E+02		3.03E+02	100.0	906.0_H3_LSC	5.00E-03	L	08/25/2010	22:45	I
0214442	ALPHA	12587-46-1	1.38E+00	pCi/L	1.1E+00	1.1E+00	U	1.64E+00	100.0	9310_ALPHABETA	2.006E-01	L	09/01/2010	09:48	I
0214443	BETA	12587-47-2	3.50E+01	pCi/L	3.2E+00	5.5E+00		3.22E+00	100.0	9310_ALPHABETA	1.995E-01	L	08/31/2010	20:12	I
0214445	AM-241	14596-10-2	-1.45E-02	pCi/L	7.5E-02	7.5E-02	U	2.04E-01	103.7	AMCMISO_EIE_PL	2.016E-01	L	09/02/2010	15:57	I
0214449	C-14	14762-75-5	5.94E-01	pCi/L	3.3E+00	3.7E+00	U	7.95E+00	100.0	C14_LSC	2.00E-01	L	08/31/2010	11:10	I
0214438	BE-7	13966-02-4	6.91E+00	pCi/L	1.8E+01	1.8E+01	U	3.21E+01		GAMMALL_GS	2.0032E+00	L	09/03/2010	07:08	I
0214438	CO-60	10198-40-0	7.19E-01	pCi/L	1.4E+00	1.4E+00	U	2.63E+00		GAMMALL_GS	2.0032E+00	L	09/03/2010	07:08	I
0214438	CS-134	13967-70-9	-3.68E-01	pCi/L	1.5E+00	1.5E+00	U	2.66E+00		GAMMALL_GS	2.0032E+00	L	09/03/2010	07:08	I
0214438	CS-137	10045-97-3	2.36E-02	pCi/L	1.3E+00	1.3E+00	U	2.24E+00		GAMMALL_GS	2.0032E+00	L	09/03/2010	07:08	I
0214438	EU-152	14683-23-9	7.78E-01	pCi/L	3.5E+00	3.5E+00	U	6.15E+00		GAMMALL_GS	2.0032E+00	L	09/03/2010	07:08	I
0214438	EU-154	15585-10-1	3.49E-01	pCi/L	3.6E+00	3.6E+00	U	6.67E+00		GAMMALL_GS	2.0032E+00	L	09/03/2010	07:08	I
0214438	EU-155	14391-16-3	-2.77E+00	pCi/L	2.8E+00	2.8E+00	U	4.50E+00		GAMMALL_GS	2.0032E+00	L	09/03/2010	07:06	I
0214438	K-40	13966-00-2	3.73E-01	pCi/L	2.1E+01	2.1E+01	U	3.96E+01		GAMMALL_GS	2.0032E+00	L	09/03/2010	07:08	I
0214438	RU-106	13967-48-1	-6.95E+00	pCi/L	1.3E+01	1.3E+01	U	2.14E+01		GAMMALL_GS	2.0032E+00	L	09/03/2010	07:08	I
0214438	SB-125	14234-35-6	2.57E+00	pCi/L	3.2E+00	3.2E+00	U	5.85E+00		GAMMALL_GS	2.0032E+00	L	09/03/2010	07:08	I
0214439	I-129	15046-84-1	2.19E-01	pCi/L	1.9E-01	1.9E-01		1.86E-01	98.9	I129LL_SEP_LEPS	3.8774E+00	L	09/29/2010	12:54	I
0214447	SR-90	10098-97-2	7.99E-02	pCi/L	2.5E-01	2.5E-01	U	5.36E-01	81.9	SRISO_SEP_PREC	1.0006E+00	L	09/03/2010	07:09	I
0214448	TC-99	14133-76-7	9.73E+01	pCi/L	6.6E+00	1.1E+01		9.52E+00	100.0	TC99_ETVDSK_LS	1.253E-01	L	08/31/2010	20:09	I

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Feadl\V\Rad\W05947.Edd, h:\Reportdb\edd\Feadl\V\Rad\44817.Edd

Lab Sample Id:	L41H11AB	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/15/2010 09:19
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 07/15/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BF	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214442	ALPHA	1.10E-01	pCi/L	5.4E-01	U	1.11E+00	100.0		9310_ALPHAB	1.982E-01	09/01/2010				D
BLK	12587-46-1			5.4E-01						L	09:48				

TestAmerica
rptFeadRadEdd v3.68

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

1

Thursday, September 30, 2010

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L41H21AB	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/15/2010 09:19
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 07/15/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BH	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214443	BETA	6.95E-01	pCi/L	1.2E+00	U	2.61E+00	100.0		9310_ALPHAB	1.988E-01	08/31/2010				D
BLK	12587-47-2			1.2E+00						L	20:12				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L41H31AB	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/08/2010 10:19
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 07/09/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BJ	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214444	PU-238	6.38E-01	pCi/L	1.2E+00	U	4.60E-01	45.6		PUISO_PLATE	2.004E-01	08/31/2010				D
BLK	13981-16-3			1.8E-01						L	16:30				
0214444	PU-239	7.88E-01	pCi/L	5.1E-01		4.20E-01	45.6		PUISO_PLATE	2.004E-01	08/31/2010				D
BLK	PU-239/240			4.9E-01						L	16:30				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L41H41AB	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/15/2010 09:19
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 07/15/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BL	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214445	AM-241	1.07E-01	pCi/L	1.6E-01	U	2.83E-01	92.4		AMCMISO_EIE	2.019E-01	09/02/2010				D
BLK	14596-10-2			1.6E-01						L	15:57				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadI\V\Rad\W05947.Edd, h:\Reportdb\edd\FeadI\V\Rad\44817.Edd

Lab Sample Id:	L41H51AB	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/08/2010 11:12
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 07/09/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BN	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214446	TH-228	3.81E-02	pCi/L	9.7E-02	U	2.28E-01	89.7		THISO_IE_PR	2.014E-01	09/01/2010				D
BLK	14274-82-9			9.7E-02						L	22:19				
0214446	TH-230	0.00E+00	pCi/L	9.2E-02	U	2.16E-01	89.7		THISO_IE_PR	2.014E-01	09/01/2010				D
BLK	14269-63-7			9.2E-02						L	22:19				
0214446	TH-232	0.00E+00	pCi/L	9.2E-02	U	2.16E-01	89.7		THISO_IE_PR	2.014E-01	09/01/2010				D
BLK	Th-232			9.2E-02						L	22:19				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L41H61AB	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/15/2010 09:19
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 07/15/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Sufix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BP	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214447	SR-90	1.00E-01	pCi/L	2.2E-01	U	4.54E-01	84.7		SRISO_SEP_P	1.0001E+00	09/03/2010				D
BLK	10098-97-2			2.2E-01						L	07:10				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L41H71AB	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/15/2010 09:19
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 07/15/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BR	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214448	TC-99	7.94E+00	pCi/L	5.8E+00	U	9.54E+00	100.0		TC99_ETVDSK	1.252E-01	08/31/2010				D
BLK	14133-76-7			4.2E+00						L	23:17				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L41H81AB	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/08/2010 12:13
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 07/09/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BT	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214449	C-14	2.62E-01	pCi/L	3.7E+00	U	7.95E+00	100.0		C14_LSC	2.00E-01	08/31/2010				D
BLK	14762-75-5			3.3E+00						L	11:53				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L41H91AB	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/15/2010 09:19
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 07/15/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BV	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214450	H-3	-1.74E+01	pCi/L	1.3E+02	U	3.05E+02	100.0		906.0_H3_LSC	5.00E-03	08/26/2010				D
BLK	10028-17-8			1.2E+02						L	01:29				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id: L41H91DX **Sdg/Rept Nbr:** W05947 44817 **Collection Date:** 07/15/2010 09:19

Client Id: NA **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 07/15/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BX	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214450	H-3	5.45E+01	pCi/L	1.4E+02	U	3.13E+02	100.0		906.0_H3_LSC	5.00E-03	08/26/2010				D
BLK	10028-17-8			1.3E+02						L	05:34				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id: L41HT1AB **Sdg/Rept Nbr:** W05947 44817 **Collection Date:** 07/09/2010 08:26

Client Id: NA **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 07/09/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BZ	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214438	BE-7	5.99E+00	pCi/L	1.6E+01	U	2.80E+01			GAMMALL_GS	2.0041E+00	09/03/2010				D
BLK	13966-02-4			1.6E+01						L	07:08				
0214438	CO-60	-1.53E-01	pCi/L	1.9E+00	U	3.40E+00			GAMMALL_GS	2.0041E+00	09/03/2010				D
BLK	10198-40-0			1.9E+00						L	07:08				
0214438	CS-134	7.15E-01	pCi/L	1.8E+00	U	3.19E+00			GAMMALL_GS	2.0041E+00	09/03/2010				D
BLK	13967-70-9			1.8E+00						L	07:08				
0214438	CS-137	-1.54E+00	pCi/L	1.5E+00	U	2.32E+00			GAMMALL_GS	2.0041E+00	09/03/2010				D
BLK	10045-97-3			1.5E+00						L	07:08				
0214438	EU-152	1.07E+00	pCi/L	3.8E+00	U	6.66E+00			GAMMALL_GS	2.0041E+00	09/03/2010				D
BLK	14683-23-9			3.8E+00						L	07:08				
0214438	EU-154	1.98E+00	pCi/L	4.7E+00	U	8.86E+00			GAMMALL_GS	2.0041E+00	09/03/2010				D
BLK	15585-10-1			4.7E+00						L	07:08				
0214438	EU-155	1.93E+00	pCi/L	3.8E+00	U	6.54E+00			GAMMALL_GS	2.0041E+00	09/03/2010				D
BLK	14391-16-3			3.8E+00						L	07:08				
0214438	K-40	-3.15E+01	pCi/L	4.9E+01	U	9.83E+01			GAMMALL_GS	2.0041E+00	09/03/2010				D
BLK	13966-00-2			4.9E+01						L	07:08				
0214438	RU-106	-8.30E+00	pCi/L	1.4E+01	U	2.29E+01			GAMMALL_GS	2.0041E+00	09/03/2010				D
BLK	13967-48-1			1.4E+01						L	07:08				
0214438	SB-125	1.23E+00	pCi/L	3.7E+00	U	6.51E+00			GAMMALL_GS	2.0041E+00	09/03/2010				D
BLK	14234-35-6			3.7E+00						L	07:08				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L41HV1AB	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/08/2010 09:29
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 07/09/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CB	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214439	I-129	8.86E-02	pCi/L	7.4E-02	U	1.48E-01	95.9		I129LL_SEP_L	4.0002E+00	09/29/2010				D
BLK	15046-84-1			7.4E-02						L	12:55				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L41H11CS	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/15/2010 09:19
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 07/15/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BG	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214442	ALPHA	2.29E+01	pCi/L	5.6E+00		1.03E+00	100.0	2.24E+01	9310_ALPHAB	2.026E-01	09/01/2010			70	D
BS	12587-46-1			3.1E+00				102.2		L	10:51			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L41H21CS	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/15/2010 09:19
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 07/15/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BI	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214443	BETA	2.11E+01	pCi/L	3.6E+00		2.63E+00	100.0	2.27E+01	9310_ALPHAB	1.996E-01	08/31/2010			70	D
BS	12587-47-2			2.4E+00				93.0		L	20:12			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L41H31CS	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/08/2010 10:19
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 07/09/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BK	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214444	PU-239	4.72E+00	pCi/L	1.3E+00		2.84E-01	60.0	4.55E+00	PUISO_PLATE	2.016E-01	08/31/2010			70	D
BS	PU-239/240			1.0E+00				103.7		L	16:30			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L41H41CS	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/15/2010 09:19
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 07/15/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BM	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214445	AM-241	2.03E+01	pCi/L	4.0E+00		2.71E-01	62.3	2.22E+01	AMCMISO_EIE	2.033E-01	09/02/2010			70	D
BS	14596-10-2			2.1E+00				91.7		L	15:58			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L41H51CS	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/08/2010 11:12
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 07/09/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BO	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214446	TH-230	1.05E+01	pCi/L	2.0E+00		1.75E-01	93.9	1.12E+01	THISO_IE_PR	2.016E-01	09/01/2010			70	D
BS	14269-63-7			1.2E+00				93.4		L	22:19			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L41H61CS	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/15/2010 09:19
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 07/15/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BQ	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214447	SR-90	1.39E+01	pCi/L	2.1E+00		6.15E-01	76.9	1.36E+01	SRISO_SEP_P	1.0004E+00	09/03/2010			70	D
BS	10098-97-2			6.9E-01				101.8		L	07:10			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L41H71CS	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/15/2010 09:19
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 07/15/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BS	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214448	TC-99	4.12E+02	pCi/L	2.8E+01		9.57E+00	100.0	5.42E+02	TC99_ETVDSK	1.252E-01	09/01/2010			70	D
BS	14133-76-7			1.2E+01				75.9		L	00:20			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L41H81CS	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:**	07/08/2010 12:13
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:**	07/09/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BU	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214449	C-14	7.45E+03	pCi/L	4.3E+02		3.19E+02	100.0	7.27E+03	C14_LSC	5.00E-03	08/31/2010			70	D
BS	14762-75-5			3.0E+02				102.5		L	12:36			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L41H91CS	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/15/2010 09:19
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 07/15/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW8-SBB-A19981								BW	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214450	H-3	2.62E+03	pCi/L	2.2E+02		3.05E+02	100.0	2.72E+03	906.0_H3_LSC	5.00E-03	08/26/2010			70	D
BS	10028-17-8			2.1E+02				96.5		L	02:51			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L41H91EM	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/15/2010 09:19
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 07/15/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BY	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214450	H-3	2.92E+03	pCi/L	2.3E+02		3.06E+02	100.0	2.72E+03	906.0_H3_LSC	5.00E-03	08/26/2010			70	D
BS	10028-17-8			2.1E+02				107.5		L	04:12			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L41HT1CS	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/09/2010 08:26
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 07/09/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CA	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214438	CO-60	4.09E+01	pCi/L	7.0E+00		3.61E+00		3.79E+01	GAMMALL_GS	2.0026E+00	09/03/2010			70	D
BS	10198-40-0			7.0E+00				108.0		L	10:35			130	
0214438	CS-137	4.90E+01	pCi/L	8.4E+00		2.94E+00		4.97E+01	GAMMALL_GS	2.0026E+00	09/03/2010			70	D
BS	10045-97-3			8.4E+00				98.6		L	10:35			130	
0214438	EU-152	7.69E+01	pCi/L	1.3E+01		8.40E+00		7.70E+01	GAMMALL_GS	2.0026E+00	09/03/2010			70	D
BS	14683-23-9			1.3E+01				99.9		L	10:35			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L41HV1CS	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/08/2010 09:29
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 07/09/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CC	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214439	I-129	9.97E+00	pCi/L	1.2E+00		2.79E-01	97.1	9.69E+00	I129LL_SEP_L	4.00E+00	09/29/2010			70	D
BS	15046-84-1			1.2E+00				102.9		L	16:24			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L34C81GR	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/08/2010 11:12
Client Id:	B264J0	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 07/09/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
X10-080	MW6-SBB-A19981								AT	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214446	TH-228	4.95E-02	pCi/L	1.7E-01	U	4.66E-01	95.7		THISO_IE_PR	2.014E-01	09/01/2010	398.3	0.5		D
DUP	14274-82-9	-1.64E-02		1.7E-01						L	18:34	20.0	3		
0214446	TH-230	2.19E-01	pCi/L	2.7E-01	U	3.74E-01	95.7		THISO_IE_PR	2.014E-01	09/01/2010	200.0	1.1		D
DUP	14269-63-7	0.00E+00		2.7E-01						L	18:34	20.0	3		
0214446	TH-232	0.00E+00	pCi/L	1.6E-01	U	3.74E-01	95.7		THISO_IE_PR	2.014E-01	09/01/2010	0.0	0.		D
DUP	Th-232	0.00E+00		1.6E-01						L	18:34	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L34CX1GR	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/08/2010 10:19
Client Id:	B264H5	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 07/09/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
X10-080	MW6-SBB-A19981								AU	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214444	PU-238	-4.28E-01	pCi/L	1.0E+00	U	4.90E-01	40.0		PUISO_PLATE	2.003E-01	08/31/2010	0.0	1.		D
DUP	13981-16-3	2.83E-01		1.6E-01						L	16:25	20.0	3		
0214444	PU-239	9.52E-01	pCi/L	6.0E-01		4.15E-01	40.0		PUISO_PLATE	2.003E-01	08/31/2010	104.0	1.5		D
DUP	PU-239/240	3.01E-01		5.8E-01						L	16:25	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L34DA1GR	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/08/2010 12:13
Client Id:	B264N2	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 07/09/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
X10-080	MW6-SBB-A19981								AV	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214449	C-14	2.33E+00	pCi/L	3.8E+00	U	7.93E+00	100.0		C14_LSC	2.00E-01	08/31/2010	41.5	0.5		D
DUP	14762-75-5	3.55E+00		3.4E+00						L	03:18	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L34DG1GR	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/08/2010 09:29
Client Id:	B264M7	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 07/09/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
X10-080	MW6-SBB-A19981								AW	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214439	I-129	-1.57E-02	pCi/L	7.7E-02	U	1.38E-01	96.5		I129LL_SEP_L	3.8771E+00	09/28/2010	0.0	0.2		D
DUP	15046-84-1	-2.61E-03		7.7E-02						L	22:54	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L34FM1CR	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/09/2010 08:26
Client Id:	B25K41	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 07/09/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
X10-074	MW6-SBB-A19981								AX	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qual	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214438	BE-7	-2.30E+00	pCi/L	1.9E+01	U	3.33E+01			GAMMALL_GS	2.0011E+00	09/02/2010	269.7	1.3		D
DUP	13966-02-4	1.55E+01		1.9E+01						L	17:04	20.0	3		
0214438	CO-60	-8.61E-01	pCi/L	1.6E+00	U	2.67E+00			GAMMALL_GS	2.0011E+00	09/02/2010	0.0	0.6		D
DUP	10198-40-0	-2.29E-01		1.6E+00						L	17:04	20.0	3		
0214438	CS-134	-1.27E+00	pCi/L	1.6E+00	U	2.60E+00			GAMMALL_GS	2.0011E+00	09/02/2010	0.0	2.2		D
DUP	13967-70-9	1.16E+00		1.6E+00						L	17:04	20.0	3		
0214438	CS-137	7.98E-01	pCi/L	1.3E+00	U	2.40E+00			GAMMALL_GS	2.0011E+00	09/02/2010	894.4	1.4		D
DUP	10045-97-3	-5.06E-01		1.3E+00						L	17:04	20.0	3		
0214438	EU-152	-1.43E+00	pCi/L	3.5E+00	U	5.90E+00			GAMMALL_GS	2.0011E+00	09/02/2010	410.6	2.3		D
DUP	14683-23-9	4.15E+00		3.5E+00						L	17:04	20.0	3		
0214438	EU-154	-7.74E-01	pCi/L	4.0E+00	U	7.17E+00			GAMMALL_GS	2.0011E+00	09/02/2010	375.3	1.2		D
DUP	15585-10-1	2.54E+00		4.0E+00						L	17:04	20.0	3		
0214438	EU-155	-4.24E+00	pCi/L	3.0E+00	U	4.59E+00			GAMMALL_GS	2.0011E+00	09/02/2010	0.0	2.8		D
DUP	14391-16-3	1.71E+00		3.0E+00						L	17:04	20.0	3		
0214438	K-40	2.23E+00	pCi/L	2.0E+01	U	2.73E+01			GAMMALL_GS	2.0011E+00	09/02/2010	0.0	4.7		D
DUP	13966-00-2	-6.32E+01		2.0E+01						L	17:04	20.0	3		
0214438	RU-106	-3.62E+00	pCi/L	1.3E+01	U	2.25E+01			GAMMALL_GS	2.0011E+00	09/02/2010	0.0	0.7		D
DUP	13967-48-1	2.77E+00		1.3E+01						L	17:04	20.0	3		
0214438	SB-125	-8.91E-04	pCi/L	3.3E+00	U	5.76E+00			GAMMALL_GS	2.0011E+00	09/02/2010	200.3	0.5		D
DUP	14234-35-6	1.13E+00		3.3E+00						L	17:04	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L38TW1QR	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/15/2010 09:19
Client Id:	B265W8	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 07/15/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
X10-081	MW6-SBB-A19981								AY	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214442	ALPHA	1.87E+00	pCi/L	1.2E+00		1.14E+00	100.0		9310_ALPHAB	2.027E-01	09/01/2010	30.1	0.6		D
DUP	12587-46-1	1.38E+00		1.2E+00						L	09:48	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L38TW1RR	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/15/2010 09:19
Client Id:	B265W8	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 07/15/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
X10-081	MW6-SBB-A19981								AZ	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214443	BETA	3.11E+01	pCi/L	4.8E+00		3.23E+00	100.0		9310_ALPHAB	2.003E-01	08/31/2010	11.6	1.1		D
DUP	12587-47-2	3.50E+01		3.0E+00						L	20:12	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L38TW1TR	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/15/2010 09:19
Client Id:	B265W8	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 07/15/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
X10-081	MW6-SBB-A19981								BA	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214445	AM-241	0.00E+00	pCi/L	9.8E-02	U	2.29E-01	90.4		AMCMISO_EIE	2.017E-01	09/02/2010	0.0	0.2		D
DUP	14596-10-2	-1.45E-02		9.8E-02						L	15:57	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L38TW1UR	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/15/2010 09:19
Client Id:	B265W8	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 07/15/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
X10-081	MW6-SBB-A19981								BB	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214447	SR-90	-1.35E-02	pCi/L	2.5E-01	U	5.34E-01	81.8		SRISO_SEP_P	9.9981E-01	09/03/2010	281.0	0.5		D
DUP	10098-97-2	7.99E-02		2.5E-01						L	07:10	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id: L38TW1WR **Sdg/Rept Nbr:** W05947 44817 **Collection Date:** 07/15/2010 09:19

Client Id: B265W8 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 07/15/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
X10-081	MW6-SBB-A19981								BD	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214448	TC-99	1.02E+02	pCi/L	1.1E+01		9.47E+00	100.0		TC99_ETVDSK	1.26E-01	08/31/2010	4.9	0.6		D
DUP	14133-76-7	9.73E+01		6.6E+00						L	22:14	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L38TW1XR	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/15/2010 09:19
Client Id:	B265W8	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 07/15/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
X10-081	MW6-SBB-A19981								BE	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214450	H-3	3.11E+03	pCi/L	2.4E+02		3.03E+02	100.0		906.0_H3_LSC	5.00E-03	08/26/2010	5.4	1.		D
DUP	10028-17-8	2.95E+03		2.2E+02						L	00:07	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, September 30, 2010

TestAmerica Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05947.Edd, h:\Reportdb\edd\FeadIV\Rad\44817.Edd

Lab Sample Id:	L38TW1VW	**Sdg/Rept Nbr:**	W05947	44817	**Collection Date:** 07/15/2010 09:19
Client Id:	B265W8	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	MS		**Received Date:** 07/15/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
X10-081	MW6-SBB-A19981								BC	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
0214448	TC-99	2.83E+03	pCi/L	1.7E+02		9.48E+00	100.0	3.52E+03	TC99_ETVDSK	1.268E-01	08/31/2010			60	D
MS	14133-76-7			2.9E+01				80.4		L	21:11			140	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TA Richland
Hexavalent Chromium - Water

Analyst:	D. Petty	Calibration Curve Information				SOP Information		BATCH #	0205082
Start Date:	7/16/2010		Amount	Conc.(mg/L)	ABS.	RL-WC-003		SDG #	W05947
Start Time:		Blank	0.000	0.000	0.000	Revision 0		Matrix	Water
End Date:	7/16/2010	Std. 1	0.100	0.050	0.095				
End Time		Std. 2	0.500	0.250	0.467			Instrument Information	
		Std. 3	0.750	0.375	0.698	MDL (mg/L)	0.0037	Instrument:	Hach DR2010
Analyst Signature:		Std. 4	1.500	0.750	1.365			Wavelength:	540
		Std 5	2.000	1.000	1.802			R Squared	0.99983
Date:	07/24/10	Standard Volume (mL):			100.000			Slope:	1.80167
		Date of Curve:						Intercept:	0.00966

	Calibration Information:	ICV Information:		LCS Information:		Matrix Spike Information:	
Dilution ID #	Cr-10-00190	Cr-10-00191		Cr-10-00190		Cr-10-00190	
Prep Date:	07/16/10	07/16/10		07/16/10		07/16/10	
Concentration (mg/L)	50	50		50		50	
Expiration Date:	07/17/10	07/17/10		07/17/10		07/17/10	
Pipettor(s)	70,190	190		190		190	
Volume Used (Expected Value		1.000	0.50000	1.00	0.50000	0.50	0.26316

Expected values are only amounts added in mg and not final concentrations

Sample ID	Client ID	Type	Sample Volume (mL)	Sample ABS.	Blank ABS.	Corrected ABS.	Dilution Factor	Curve Conc. (mg/L)	Final Conc. (mg/L)	% Rec. / RPD
n/a	n/a	ICV	100.000	0.919	0.000	0.919	1	0.5047	0.505	100.94%
n/a	n/a	ICB	100.000	0.001	0.000	0.001	1	-0.0048	<MDL	
L4M8C1AA	n/a	Prep Blank	100.000	0.001		0.001	1	-0.0048	<MDL	
L4M8C1AC	n/a	LCS	100.000	0.908		0.908	1	0.4986	0.499	99.72%
L38TW1AA	B265W8'	Sample	100.000	0.027		0.027	1	0.0096	0.010	0.279 SICS
L38TW1AC-S	B265W8'-MS	MS	100.000	0.530		0.530	1	0.2888	~~0.289~~	106.09%
L38TW1AD-D	B265W8'-MSD	MSD	100.000	0.524		0.524	1	0.2855	~~0.285~~	104.82% 8/26/10
L38TW1AE-X	B265W8'-DUP	Duplicate	100.000	0.026		0.026	1	0.0091	0.009	5.94%
L38VP1AA	B268P1'	Sample	100.000	0.027		0.027	1	0.0096	0.010	0.275
			100.000				1			
			100.000				1			
			100.000				1			
n/a	n/a	CCV	100.000	0.918		0.918	1	0.5042	0.504	100.83%
n/a	n/a	CCB	100.000	0.001		0.001	1	-0.0048	<MDL	
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

9/13/2010 12:41:01 PM

Lot No., Due Date: J0G130416; 08/30/2010
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 0214444; RPUISO Pulso by ALP
SDG, Matrix: W05947; WATER

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

6.0 Comments on any No response:

First Level: Lisa Ostrom **Date** 9/13/10

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 0214444

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: 9/27/10

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

9/3/2010 3:07:48 PM

Lot No., Due Date: J0G130416; 08/30/2010
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 0214446; RTHISO Thiso by ALP
SDG, Matrix: W05947; WATER

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

6.0 Comments on any No response:

First Level [signature] Date 9/3/10

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 0214446

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: 9/11/10

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

9/8/2010 2:26:42 PM

Lot No., Due Date: J0G150576; 08/30/2010
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 0214445; RAMISO Amiso by ALP
SDG, Matrix: W05947; WATER

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?	✓		

5.9 Comments on any No response:

First Level [signature] Date 9/8/10

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 0214445

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 C. Date: 9/11/10

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

9/3/2010 2:43:20 PM

Lot No., Due Date: J0G150576; 08/30/2010
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 0214442; RALPHA-A Alpha by GPC-Am
SDG, Matrix: W05947; WATER

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

6.0 Comments on any No response:

First Level: Lisa Autenrath Date 9/3/10

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 0214442

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: 9/11/10

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

9/3/2010 2:37:17 PM

Lot No., Due Date: J0G150576; 08/30/2010
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 0214443; RBETA-SR Beta by GPC-Sr/Y
SDG, Matrix: W05947; WATER

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

6.0 Comments on any No response:

First Level Lisa Anderson Date 9/3/10

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 0214443

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 C Date: 9/11/10

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

9/8/2010 2:50:15 PM

Lot No., Due Date: J0G150576; 08/30/2010
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 0214447; RSR85907 Sr-85/90 by GPC-7
SDG, Matrix: W05947; WATER

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

6.0 Comments on any No response:

First Level Lisa Hutchison Date 9/8/10

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 021447

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: 9/11/10

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

9/9/2010 2:36:30 PM

Lot No., Due Date: J0G130506,J0G130416,J0G130428,J0G150576; 08/30/2010
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 0214438; RGAMMA Gamma by GER
SDG, Matrix: W05947; WATER

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

6.0 Comments on any No response:

First Level Lisa Chutonson Date 9/9/10

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 0214438

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: Sample B26715 MDA > CRDL due to reduced aliquot based on activity screen.

Second Level Review: Jodie C Date: 9/11/10

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

9/30/2010 9:08:53 AM

Lot No., Due Date: J0G130416,J0G150576; 08/30/2010
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 0214439; RGAMLEPS Gamma by LEPS
SDG, Matrix: W05947; WATER

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

6.0 Comments on any No response:

First Level Lisa Antonson Date 9/30/10

TestAmerica Richland
QAS_RADCALC v4.8.44

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 0214439

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 C. Date: 9/30/10

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

9/3/2010 2:47:41 PM

Lot No., Due Date: J0G150576; 08/30/2010
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 0214448; RTC99 Tc-99 by LSC
SDG, Matrix: W05947; WATER

1.0 COC

	Yes	No	N/A
1.1 Is the COC 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?	✓		

5.8 Comments on any No response:

First Level Lisa Anderson Date 9/3/10

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 0214448

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: 9/11/10

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

8/31/2010 12:15:50 PM

Lot No., Due Date: J0G150576; 08/30/2010
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 0214450; RTRITIUM H-3 by LSC
SDG, Matrix: W05947; WATER

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

6.0 Comments on any No response:
Please see NCM # 10-16533

First Level John Norton **Date** 8-31-10

TestAmerica Richland
QAS_RADCALCv4.8.44

Page 1

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 0214450

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: 9/11/10

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: 10-16533
NCM Initiated By: John Norton
Date Opened: 08/31/2010
Date Closed:

Classification: **Anomaly**
Status: **PMREVIEW**
Production Area: Environmental - Prep
Tests: H-3 by LSC
Lot #'s (Sample #'s): J0G150576 (1), J0H020000 (450),
QC Batches: 0214450,

Nonconformance: Blank result above Contract Limit
Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
John Norton	08/31/2010	The matrix blank result was approximately equal to the expected yield of the matrix spike, and the matrix spike yield was very low, probable blank spike switch.

Corrective Action

Name	Date	Corrective Action
John Norton	08/31/2010	The apparent switch was corrected in data review.

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: 8/31/2010

Page 1 of 1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

9/3/2010 11:28:42 AM

Lot No., Due Date: J0G130416,J0G150576; 08/30/2010
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 0214449; RC14 C-14 by LSC
SDG, Matrix: W05947; WATER

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

6.0 Comments on any No response:

First Level Lisa Autonson Date 9/3/10

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 0214449

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 C. Date: 9/11/10

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Check List
Hexavalent Chromium

Batch Number:0205082

Lab Sample Numbers or SDG: W05947 JOG150576

Method/Test/Parameter: **Cr+6 in Water / RL-WC-003**

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

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

Comments on any:

The time shown is off by one hour. The incorrect time has been crossed out and the correct time is shown.

Analyst: _____ Date 7/24/10

Second-Level Review: _____ Date: 8/26/10

Form CG-191, Rev. 4, 2/03 page 2 of 2

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # X10-080-22
		Page 1 of 1

Collector L.D. Wall CHPRC	Contact/Requester Karen Waters-Husted	Telephone No. 376-4650
SAF No. X10-080	Sampling Origin Hanford Site	Purchase Order/Charge Code 300118ES20
Project Title FDURA JULY 2010	Logbook No: HNF-N-506 34 / 32	Ice Chest No. N/A GWS-187
Shipped To (Lab) TestAmerica Incorporated Richland	Method of Shipment Government Vehicle	Bill of Lading/Air Bill No. N/A
Protocol CERCLA	Priority: 45 Days	Offsite Property No. N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Do not combine samples from this SAF with other data sets. Need SDG to be stand alone.
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401922.
Please report all TICs.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B264H5	N	W	07/08/10	1019	1x20-mL P	Activity Scan	6 Months	None
B264H5	N	W			2x1000-mL G/P	C14_LSC: C-14 (1)	6 Months	None
B264H5	N	W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
B264H5	N	W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
B264H5	N	W			1x1000-mL G/P	Isotopic Thorium	6 Months	HNO3 to pH <2
B264H5	N	W	07/08/10	1019	1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	6 Months	HNO3 to pH <2

L34 X

J0G130416
SDG #W05947
DUE

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
L.D. Wall CHPRC	L.D. Wall	L.D. Wall	JUL 08 2010 1600	SSU-1			JUL 08 2010 1600
SSU-1			JUL 09 2010 1100	KB Hulse CHPRC		KB Hulse	JUL 09 2010 1100
KB Hulse CHPRC		KB Hulse	JUL 09 2010 1400		TALR Angel Garcia	Angel Garcia	JUL 09 2010 1400
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

A-6004-842 (05/10)

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # X10-080-30
		Page 1 of 1

Collector L.D. Wall CHPRC	Contact/Requester Karen Waters-Husted	Telephone No. 376-4650
SAF No. X10-080	Sampling Origin Hanford Site	Purchase Order/Charge Code 300118ES20
Project Title FDURA, JULY 2010	Logbook No: HNF-N-506 34 / 32	Ice Chest No. N/A GW3-060
Shipped To (Lab) TestAmerica Incorporated Richland	Method of Shipment Government Vehicle	Bill of Lading/Air Bill No. N/A
Protocol CERCLA	Priority: 45 Days	Offsite Property No. N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Do not combine samples from this SAF with other data sets. Need SDG to be stand alone.
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401922.
Please report all TICs.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B264J0	N	W	07/08/10	1112	1x20-mL P	Activity Scan	6 Months	None
B264J0	N	W			2x1000-mL G/P	C14_LSC: C-14 (1)	6 Months	None
B264J0	N	W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
B264J0	N	W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
B264J0	N	W			1x1000-mL G/P	Isotopic Thorium	6 Months	HNO3 to pH <2
B264J0	N	W	07/08/10	1112	1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	6 Months	HNO3 to pH <2

L34C8 JOG130410 SDG1W0947

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
L.D. Wall CHPRC L.D. Wall	1600 JUL 08 2010	SSU-1	1600 JUL 08 2010
SSU-1	1100 JUL 09 2010	KB Hulse CHPRC KB Hulse	1100 JUL 09 2010
KB Hulse CHPRC KB Hulse	1400 JUL 09 2010	TRIR Angel Garcia	1400 JUL 09 2010
Relinquished By	Date/Time	Received By	Date/Time

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

A-6004-842 (05/10)

CHPRC PGW	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # X10-080-98 Page 1 of 1

Collector RA Shepard CHPRC	Contact/Requester Karen Waters-Husted	Telephone No. 376-4650
SAF No. X10-080	Sampling Origin Hanford Site	Purchase Order/Charge Code 300118ES20
Project Title FDURA JULY 2010	Logbook No: HNF-N-506 32/27	Ice Chest No. N/A GWS-188
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment Government Vehicle	Bill of Lading/Air Bill No. N/A
Protocol CERCLA	Priority: 45 Days	Offsite Property No. N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Do not combine samples from this SAF with other data sets. Need SDG to be stand alone.
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401922.
Please report all TICs.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B264N2	N	W	7-8-10	1213	1x20-mL P	Activity Scan	6 Months	None
B264N2	N	W			2x1000-mL G/P	C14_LSC: C-14 (1)	6 Months	None
B264N2	N	W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
B264N2	N	W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
B264N2	N	W			1x1000-mL G/P	Isotopic Thorium	6 Months	HNO3 to pH <2
B264N2	N	W			1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	6 Months	HNO3 to pH <2

L34DA
JOG130416
SDG1W05947

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
RA Shepard CHPRC			JUL 08 2010 1400	SSU #1			JUL 08 2010 1400
SSU-1			JUL 09 2010 1100	KB Hulse CHPRC			JUL 09 2010 1100
KB Hulse CHPRC			JUL 09 2010 1406	ANGIE GARCIA TMA			JUL 09 2010 1406
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

A-6004-842 (05/10)

CHPRC PGW

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # X10-080-82

Page 1 of 1

Collector: L.D. Wall	Contact/Requester: Karen Waters-Husted	Telephone No.: 376-4650
SAF No.: CHPRC X10-080	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300118ES20
Project Title: FDURA, JULY 2010	Logbook No: HNF-N-506 34, 32	Ice Chest No.: N/A GWS-188
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Government Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time — Total Activity Exemption: Yes ☑ No ☐
Do not combine samples from this SAF with other data sets. Need SDG to be stand alone.
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401922.
Please report all TICs.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B264M2	N	W	07/08/10	1335	1x20-mL P	Activity Scan	6 Months	None
B264M2	N	W			2x1000-mL G/P	C14_LSC: C-14 (1)	6 Months	None
B264M2	N	W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
B264M2	N	W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
B264M2	N	W			1x1000-mL G/P	Isotopic Thorium	6 Months	HNO3 to pH <2
B264M2	N	W	07/08/10	1335	1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	6 Months	HNO3 to pH <2

L34DD JOG130416 SDGW05947

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
L.D. Wall CHPRC	JUL 08 2010 1600	SSU-1	JUL 08 2010 1600
SSU-1	JUL 09 2010 1100	KB Hulse CHPRC	JUL 09 2010 1100
KB Hulse CHPRC	JUL 09 2010 1406	Angel Garcia	JUL 09 2010 1406

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

FINAL SAMPLE DISPOSITION — Disposal Method (e.g., Return to customer, per lab procedure, used in process) — Disposed By — Date/Time

A-6004-842 (05/10)

CHPRC RA Shepard CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # X10-080-90 Page 1 of 1

Collector	Contact/Requester Karen Waters-Husted	Telephone No. 376-4650
SAF No. X10-080	Sampling Origin Hanford Site	Purchase Order/Charge Code 300118ES20
Project Title FDURA, JULY 2010	Logbook No: HNF-N-506 32/27	Ice Chest No. N/A GWS-094
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment Government Vehicle	Bill of Lading/Air Bill No. N/A
Protocol CERCLA	Priority: 45 Days	Offsite Property No. N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Do not combine samples from this SAF with other data sets. Need SDG to be stand alone.
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401922.
Please report all TICs.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B264M7	N	W	7-8-10	0929	1x20-mL P	Activity Scan	6 Months	None
B264M7	N	W			2x1000-mL G/P	C14_LSC: C-14 (1)	6 Months	None
B264M7	N	W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
B264M7	N	W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
B264M7	N	W			1x1000-mL G/P	Isotopic Thorium	6 Months	HNO3 to pH <2
B264M7	N	W			1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	6 Months	HNO3 to pH <2

L34D6T JOG130416
SPG1W05947

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
RA Shepard CHPRC			JUL 0 8 2010 1400	SSU #1			JUL 0 8 2010 1400
SSU-1			JUL 0 9 2010 1100	KB Hulse CHPRC			JUL 0 9 2010 1100
KB Hulse CHPRC			JUL 0 9 2010 1400	ANGEL Garcia			JUL 0 9 2010 1400
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

A-6004-842 (05/10)

CHPRC

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # X10-080-66

Collector: KB Hulse, CHPRC	Contact/Requester: Karen Waters-Husted	Telephone No.: 376-4650
SAF No.: X10-080	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300118ES20
Project Title: FDURA JULY 2010	Logbook No: HNF-N-506 33/21	Ice Chest No.: N/A
Shipped To (Lab): TestAmerica Incorporated Richland	Method of Shipment: Government Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time — Total Activity Exemption: Yes ☑ No ☐
Do not combine samples from this SAF with other data sets. Need SDG to be stand alone.
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401922.
Please report all TICs.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B264L2	N	W	7-8-10	1235	1x20-mL P	Activity Scan	6 Months	None
B264L2	N	W			2x1000-mL G/P	C14_LSC: C-14 (1)	6 Months	None
B264L2	N	W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
B264L2	N	W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
B264L2	N	W			1x1000-mL G/P	Isotopic Thorium	6 Months	HNO3 to pH <2
B264L2	N	W	7-8-10	1235	1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	6 Months	HNO3 to pH <2

L34DW

JOG130416
SDGW05947

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
KB Hulse, CHPRC			JUL 08 2010 1500	SSU-1			JUL 08 2010 1500
SSU-1			JUL 09 2010 1100	KB Hulse, CHPRC			JUL 09 2010 1100
KB Hulse, CHPRC			JUL 09 2010 1400	Angel Garcia			JUL 9 10 1400
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

A-6004-842 (05/10)

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # X10-080-106
DGLS		Page 1 of 1

Collector: RA Shepard CHPRC	Contact/Requester: Karen Waters-Husted	Telephone No.: 376-4650
SAF No.: X10-080	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300118ES20
Project Title: FDURA JULY 2010	Logbook No: HNF-N-506 32/27	Ice Chest No.: N/A GWS-094
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Government Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Do not combine samples from this SAF with other data sets. Need SDG to be stand alone.
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401922.
Please report all TICs.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B264N7	N	W	7-8-10	1044	1x20-mL P	Activity Scan	6 Months	None
B264N7	N	W			2x1000-mL G/P	C14_LSC: C-14 (1)	6 Months	None
B264N7	N	W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
B264N7	N	W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
B264N7	N	W			1x1000-mL G/P	Isotopic Thorium	6 Months	HNO3 to pH <2
B264N7	N	W			1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	6 Months	HNO3 to pH <2

L34D3

JOG130416
SDGW05947

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
RA Shepard CHPRC			JUL 08 2010 1400	SSU #1			JUL 08 2010 1400
SSU-1			JUL 09 2010 1100	KB Hulse CHPRC			JUL 09 2010 1100
KB Hulse CHPRC			JUL 09 2010 1406				JUL 9.10 1406

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

A-6004-842 (05/10)

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # X10-080-46
		Page 1 of 1

Collector: KB Hulse, CHPRC	Contact/Requester: Karen Waters-Husted	Telephone No.: 376-4650
SAF No.: X10-080	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300118ES20
Project Title: FDURA, JULY 2010	Logbook No: HNF-N-506 33/21	Ice Chest No.: N/A
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Government Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time — Total Activity Exemption: Yes ☑ No ☐
Do not combine samples from this SAF with other data sets. Need SDG to be stand alone.
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401922.
Please report all TICs.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B264K0	N	W	7-8-10	1035	1x20-mL P	Activity Scan	6 Months	None
B264K0	N	W			2x1000-mL G/P	C14_LSC: C-14 (1)	6 Months	None
B264K0	N	W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
B264K0	N	W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
B264K0	N	W			1x1000-mL G/P	Isotopic Thorium	6 Months	HNO3 to pH <2
B264K0	N	W	7-8-10	1035	1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	6 Months	HNO3 to pH <2

L3409 JDG130416 JDGW05947

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
KB Hulse, CHPRC	JUL 08 2010 1500	SSU-1	JUL 08 2010 1500
SSU-1	JUL 09 2010 1100	KB Hulse, CHPRC	JUL 09 2010 1100
KB Hulse, CHPRC	JUL 09 2010 1400	[illegible]	JUL 09 2010 1400

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

A-6004-842 (05/10)

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # X10-080-2
		Page 1 of 1

Collector: KB Hulse CHPRC	Contact/Requester: Karen Waters-Husted	Telephone No.: 376-4650
SAF No.: X10-080	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300118ES20
Project Title: FDURA JULY 2010	Logbook No: HNF-N-506 33/21	Ice Chest No.: N/A
Shipped To (Lab): TestAmerica Incorporated Richland	Method of Shipment: Government Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time — Total Activity Exemption: Yes ☑ No ☐
Do not combine samples from this SAF with other data sets. Need SDG to be stand alone.
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401922.
Please report all TICs.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B264C5	N	W	7-8-10	1331	1x20-mL P	Activity Scan	6 Months	None
B264C5	N	W			2x1000-mL G/P	C14_LSC: C-14 (1)	6 Months	None
B264C5	N	W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
B264C5	N	W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
B264C5	N	W			1x1000-mL G/P	Isotopic Thorium	6 Months	HNO3 to pH <2
B264C5	N	W	7-8-10	1331	1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	6 Months	HNO3 to pH <2

L34EG

JOG130416
JDGW05947

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
KB Hulse CHPRC		KB Hulse	JUL 08 2010 1500	SSU-1			JUL 08 2010 1500
SSU-1			JUL 09 2010 1100	KB Hulse CHPRC		KB Hulse	JUL 09 2010 1100
KB Hulse CHPRC		KB Hulse	JUL 09 2010 1406				JUL 09 2010 1406
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

A-6004-842 (05/10)

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # X10-080-14
		Page 1 of 1

Collector KB Hulse CHPRC	Contact/Requester Karen Waters-Husted	Telephone No. 376-4650
SAF No. X10-080	Sampling Origin Hanford Site	Purchase Order/Charge Code 300118ES20
Project Title FDURA JULY 2010	Logbook No: HNF-N-506 33 / 21	Ice Chest No. N/A
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment Government Vehicle	Bill of Lading/Air Bill No. N/A
Protocol CERCLA	Priority: 45 Days	Offsite Property No. N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Do not combine samples from this SAF with other data sets. Need SDG to be stand alone.
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401922.
Please report all TICs.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B264F6	N	W	7-8-10	1148	1x20-mL P	Activity Scan	6 Months	None
B264F6	N	W			2x1000-mL G/P	C14_LSC: C-14 (1)	6 Months	None
B264F6	N	W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
B264F6	N	W			1x1000-mL G/P	Isotopic Thorium	6 Months	HNO3 to pH <2
B264F6	N	W	7-8-10	1148	1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	6 Months	HNO3 to pH <2

L34EL JOG130416
SDGW05947

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
KB Hulse CHPRC		KB Hulse	JUL 08 2010 1500	SSU-1			JUL 08 2010 1500
SSU-1			JUL 09 2010 1100	KB Hulse CHPRC		KB Hulse	JUL 09 2010 1100
KB Hulse CHPRC		KB Hulse	JUL 09 2010 1406	ANGEL Garcia		Angel Garcia	JUL 09 2010 1406
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

A-6004-842 (05/10)

CHPRC PGW	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # X10-080-38
		Page 1 of 1

Collector: L.D. Wall	Contact/Requester: Karen Waters-Husted	Telephone No.: 376-4650
SAF No.: CHPRC X10-080	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300118ES20
Project Title: FDURA JULY 2010	Logbook No: HNF-N-506 34 / 32	Ice Chest No.: N/A GWS-068
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Government Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Do not combine samples from this SAF with other data sets. Need SDG to be stand alone.
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401922.
Please report all TICs.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B264J5	N	W	07/08/10	1207	1x20-mL P	Activity Scan	6 Months	None
B264J5	N	W			2x1000-mL G/P	C14_LSC: C-14 (1)	6 Months	None
B264J5	N	W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
B264J5	N	W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
B264J5	N	W			1x1000-mL G/P	Isotopic Thorium	6 Months	HNO3 to pH <2
B264J5	N	W	07/08/10	1207	1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	6 Months	HNO3 to pH <2

L34EP

JOG130416
SDGW05947

Relinquished By	Received By	Date/Time
L.D. Wall CHPRC (Print / Sign)	SSU-1 (Print / Sign)	1600 JUL 08 2010
SSU-1	KB Hulse CHPRC	1100 JUL 09 2010
KB Hulse CHPRC	Angel Garcia	1406 JUL 09 2010

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

A-6004-842 (05/10)

CHPRC DGW	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # X10-080-130 Page 1 of 1

Collector L.D. Wall	Contact/Requester Karen Waters-Husted	Telephone No. 376-4650
SAF No. CHPRC X10-080	Sampling Origin Hanford Site	Purchase Order/Charge Code 300118ES20
Project Title FDURA JULY 2010	Logbook No: HNF-N-506 34 / 32	Ice Chest No. N/A 6W3-187
Shipped To (Lab) TestAmerica Incorporated Richland	Method of Shipment Government Vehicle	Bill of Lading/Air Bill No. N/A
Protocol CERCLA	Priority: 45 Days	Offsite Property No. N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Do not combine samples from this SAF with other data sets. Need SDG to be stand alone.
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401922.
Please report all TICs.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B264B0	N	W	07/08/10	0913	1x20-mL P	Activity Scan	6 Months	None
B264B0	N	W			2x1000-mL G/P	C14_LSC: C-14 (1)	6 Months	None
B264B0	N	W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
B264B0	N	W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
B264B0	N	W			1x1000-mL G/P	Isotopic Thorium	6 Months	HNO3 to pH <2
B264B0	N	W	07/08/10	0913	1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	6 Months	HNO3 to pH <2

J0G130416

L34ER

J0G130416
SDGW05947

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
L.D. Wall CHPRC	L.D. Wall		1600 JUL 08 2010	SSU-1			1600 JUL 08 2010
SSU-1			1100 JUL 09 2010	KB Hulse CHPRC			1100 JUL 09 2010
KB Hulse CHPRC			1400 JUL 09 2010	TACR Angel Ramirez			1400 JUL 09 2010
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

A-6004-842 (05/10)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: July 9. 10@ 1400 GM Screen Results (out) .2 (in) .3 Initials [✓]

Client: FGW SDG #: W0594/7 NA [ ] SAF #: X10-080 NA [ ]

Work Order Number: JOG130416 Chain of Custody # X10-080-22; 30; 98; 82; 90; 66; 106; 46; 2; 14; 38; 139

Shipping Container ID: Hand Delivery NA [✓] Air Bill # _____ NA [ ]

*See Below 7/21/10

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

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

Item 6 through 10 for samples. Initial appropriate response.

6. Number of samples in shipping container (Each sample may contain multiple bottles): _____
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   - ✓ tape
   - ✓ custody seals
   - ✓ hazard labels
   - ✓ appropriate sample labels
9. Samples are:
   - ✓ in good condition
   - ____ broken
   - ____ leaking
   - ____ have air bubbles (Only for samples requiring head space)

   (BOTH)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ] Amount of HNO3 Added _____
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): NA [✓]

*ICEChest 6WS-187, 6WS-060, 6WS-188, 6WS-094, 6WS-060

see other side for additional comments

Sample Custodian: [signature] Date: July 9. 10@ 1400

Client Informed on N/A by N/A Person contacted N/A

[✓] No action necessary; process as is.

Project Manager [signature] Date 7/21/10

LS-023, Rev. 10, 10/09

CHPRC PGW	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # X10-074-212. Page 1 of 1

Collector: PB Cano CHPRC	Contact/Requester: Karen Waters-Husted	Telephone No.: 376-4650
SAF No.: X10-074	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300104ES20
Project Title: NDURA JUNE 2010	Logbook No: HNF-N-506 32128	Ice Chest No.: N/A
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Government Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Do not combine samples from this SAF with other data sets. Need SDG to be stand alone.
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is unknown.
Please report all TICs.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B267K5	N	W	7/9/10	0942	1x20-mL P	Activity Scan	6 Months	None
B267K5	N	W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2

L34FQ JOG130428
SDG # W05947

J0G130428

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
PB Cano CHPRC			JUL 09 2010 1015	KB Hulse			JUL 09 2010 1015
KB Hulse CHPRC			JUL 09 2010 1406	TALK Angel Garcia			JUL 09 2010 1406
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

A-6004-842 (05/10)

CHPRC DGW	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # X10-074-48 Page 1 of 1

Collector: PB Cano CHPRC	Contact/Requester: Karen Waters-Husted	Telephone No.: 376-4650
SAF No.: X10-074	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300104ES20
Project Title: NDURA JUNE 2010	Logbook No: HNF-N-506 32 128	Ice Chest No.: N/A
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Government Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Do not combine samples from this SAF with other data sets. Need SDG to be stand alone.
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is unknown.
Please report all TICs.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B25K41	N	W	7/9/10	0826	1x20-mL P	Activity Scan	6 Months	None
B25K41	N	W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2

L34FM JOG 13X428 SDG #W05947 DW

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
PB Cano CHPRC			JUL 09 2010 1015	KB Hulse			JUL 09 2010 1015
KB Hulse CHPRC			JUL 09 2010 1400	Received By	Print	Sign	JUL 09 2010 1400
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SR = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

A-6004-842 (05/10)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 7.09.10 1406 GM Screen Results (out) .3 (in) .3 Initials [ ]

Client: PGW SDG #: W0594 NA [ ] SAF #: X10-074 NA [ ]

Work Order Number: JOG130428 Chain of Custody # X10-074-212, 48

Shipping Container ID: Hand Delivery NA [✓] Air Bill # _____ NA [✓]

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

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

Item 6 through 10 for samples. Initial appropriate response.

6. Number of samples in shipping container (Each sample may contain multiple bottles): 2
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   - ___ tape
   - ✓ custody seals
   - ___ hazard labels
   - ✓ appropriate sample labels
9. Samples are:
   - ✓ in good condition
   - ___ broken
   - ___ leaking
   - ___ have air bubbles (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ] Amount of HNO3 Added _____
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): NA [✓] _____

see other side for additional comments

Sample Custodian: [signature] Date: 7.09.10 Q1406

Client Informed on N/A by N/A Person contacted N/A

[ ] No action necessary; process as is.

Project Manager [signature] Date 7/21/10

LS-023, Rev. 10, 10/09

TestAmerica

CHPRC PGW	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # X10-074-49 Page 1 of 1

Collector: S.J. Southerland ChPRC	Contact/Requester: Karen Waters-Husted	Telephone No.: 376-4650
SAF No.: X10-074	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300104ES20
Project Title: NDURA JUNE 2010	Logbook No: HNF-N-506 25 / 59	Ice Chest No.: N/A
Shipped To (Lab): TestAmerica Incorporated Richland	Method of Shipment: Government Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Do not combine samples from this SAF with other data sets. Need SDG to be stand alone.
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is unknown.
Please report all TICs.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B25K42	N	W	7/9/10	0835	1x20-mL P	Activity Scan	6 Months	None
B25K42	N	W	7/9/10	0835	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2

L3420

JOG130506
SDG1W05947

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
S.J. Southerland CHPRC			1330 JUL 09 2010	SSU #1			1330 JUL 09 2010
SSU-1			JUL 12 2010 0700	RD Julian CHPRC			JUL 12 2010 0700
RD Julian CHPRC			JUL 12 2010 12:30	David Sorgenson			JUL 12 2010 12:30

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

A-6004-842 (05/10)

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # X10-074-56
		Page 1 of 1

Collector S.J. Southerland CHPRC	Contact/Requester Karen Waters-Husted	Telephone No. 376-4650
SAF No. X10-074	Sampling Origin Hanford Site	Purchase Order/Charge Code 300104ES20
Project Title NDURA JUNE 2010	Logbook No: HNF-N-506 25159	Ice Chest No. N/A
Shipped To (Lab) TestAmerica Incorporated Richland	Method of Shipment Government Vehicle	Bill of Lading/Air Bill No. N/A
Protocol CERCLA	Priority: 45 Days	Offsite Property No. N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Do not combine samples from this SAF with other data sets. Need SDG to be stand alone.
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is unknown.
Please report all TICs.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B25K51	N	W	7/9/10	1148	1x20-mL P	Activity Scan	6 Months	None
B25K51	N	W	7/9/10	1148	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2

L3421

JOG130506
JDGW05947

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
S.J. Southerland CHPRC		1330	JUL 09 2010	SSU #1		1330	JUL 09 2010
SSU-1			JUL 12 2010 0700	RD Julian CHPRC			JUL 12 2010 0700
RD Julian CHPRC			JUL 12 2010 12:30	Daniel Jorgenson			JUL 12 2010 12:30
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

A-6004-842 (05/10)

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # X10-074-88
		Page 1 of 1

Collector: PB Cano CHPRC	Contact/Requester: Karen Waters-Husted	Telephone No.: 376-4650
SAF No.: X10-074	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300104ES20
Project Title: NDURA JUNE 2010	Logbook No: HNF-N-506 32/28	Ice Chest No.: N/A
Shipped To (Lab): TestAmerica Incorporated Richland	Method of Shipment: Government Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Do not combine samples from this SAF with other data sets. Need SDG to be stand alone.
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is unknown.
Please report all TICs.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B25K71	N	W	7/9/10	1227	1x20-mL P	Activity Scan	6 Months	None
B25K71	N	W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2

L343C

JOG130506
ODGW05947

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
PB Cano CHPRC			JUL 09 2010 1500	SSU-1			JUL 09 2010 1500
SSU-1			JUL 12 2010 0700	RD Julian CHPRC			JUL 12 2010 0700
RD Julian CHPRC			JUL 12 2010 12:30	Daniel Dorgenson			JUL 12 2010 12:30
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

CHPRC PGW

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # X10-074-205

Page 1 of 1

Collector: PB Cano CHPRC	Contact/Requester: Karen Waters-Husted	Telephone No.: 376-4650
SAF No.: X10-074	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300104ES20
Project Title: NDURA JUNE 2010	Logbook No: HNF-N-506 32 / 28	Ice Chest No.: N/A
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Government Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time — Total Activity Exemption: Yes ☑ No ☐
Do not combine samples from this SAF with other data sets. Need SDG to be stand alone.
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is unknown.
Please report all TICs.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B267J5	N	W	7/9/10	1315	1x20-mL P	Activity Scan	6 Months	None
B267J5	N	W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2

L3434 JOG130506 SDG-W059-47

JOG130506

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
PB Cano CHPRC			JUL 09 2010 1500	SSU-1			JUL 09 2010 1500
SSU-1			JUL 12 2010 0700	RD Julian CHPRC			JUL 12 2010 0700
RD Julian CHPRC			JUL 12 2010 12:30	Daniel Jorgenson			JUL 12 2010 12:30
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

A-6004-842 (05/10)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 7·12·10 @ 1230 pm GM Screen Results (out) .2 (in) .2 Initials [✓]

Client: PGW SDG #: W05947 NA [ ] SAF #: X10-074 NA [ ]

Work Order Number: 06713050 Chain of Custody # X10-074-205; 88;

Shipping Container ID: Hand Delivery NA [✓] Air Bill # 56; 49 NA [ ]

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

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

Item 6 through 10 for samples. Initial appropriate response.

6. Number of samples in shipping container (Each sample may contain multiple bottles): 4
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   - ___ tape
   - ✓ custody seals
   - ___ hazard labels
   - ✓ appropriate sample labels
9. Samples are:
   - ✓ in good condition
   - ___ broken
   - ___ leaking
   - ___ have air bubbles (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ] Amount of HNO3 Added ___
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): NA [✓] ___

see other side for additional comments

Sample Custodian: [signature] Date: 7·12·10 @ 1230 pm

Client Informed on N/A by N/A Person contacted N/A

[✓] No action necessary; process as is.

Project Manager [signature] Date 7/21/10

LS-023, Rev. 10, 10/09

CHPRC

PGW

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # X10-081-213

Page 1 of 1

Collector AR McIntyre	Contact/Requester Karen Waters-Husted	Telephone No. 376-4650
SAF No. X10-081	Sampling Origin Hanford site	Purchase Order/Charge Code 300118ES20
Project Title JU2, JU6DURA, JULY 2010	Logbook No: HNF-N-506 34/136	Ice Chest No. N/A
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment Government Vehicle	Bill of Lading/Air Bill No. N/A
Protocol CERCLA	Priority: 45 Days	Offsite Property No. N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time
Site Wide Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401922.
Please report all TICs.

Total Activity Exemption: Yes ☑ No ☐

JOG150576 / SDG1W05947

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B265W8	N	W	7-15-10	0919	1x20-mL P	Activity Scan	6 Months	None
B265W8	N	W			2x1000-mL G/P	C14_LSC: C-14 (1)	6 Months	None
B265W8	N	W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
B265W8	N	W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
B265W8	N	W			1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	24 Hours	Cool~4C
B265W8	N	W			1x1000-mL P	906.0_H3_LSC: Tritium (1) L38TW	6 Months	None
B265W8	N	W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	6 Months	HNO3 to pH <2
B265W8	N	W			1x1000-mL G/P	AMCMISO_EIE_PLT_AEA: Am-241 (1)	6 Months	HNO3 to pH <2
B265W8	N	W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	6 Months	HNO3 to pH <2
B265W8	N	W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	6 Months	HCl to pH <2
B268P1	Y	W	↓	↓	1x500-mL aG	7196_CR6: Hexavalent Chromium (1) L38VP	24 Hours	Cool~4C

JOG150576

Relinquished By	Received By
Print: AR McIntyre Sign: [signature] Date/Time: 1015 JUL 15 2010	Print: SE Hamaker CHPRC Sign: [signature] Date/Time: 1015 JUL 15 2010
Relinquished By: SCOTT HAMAKER [signature] Date/Time: 1305 7/15/10	Received By: ANGEL Garcia [signature] Date/Time: 1305 7/15/10
Relinquished By: Date/Time:	Received By: Date/Time:
Relinquished By: Date/Time:	Received By: Date/Time:

Matrix *

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

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

A-6004-842 (05/10)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 1305pm 7.15.10 @ GM Screen Results (out) .3 (in) .3 Initials

Client: PGW SDG #: W05947 NA [ ] SAF #: X10-081 NA [ ]

Work Order Number: JOG150576 Chain of Custody # X10-081-213

Shipping Container ID: Hand Delivery NA [ ] Air Bill # _____ NA [ ]

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

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

Item 6 through 10 for samples. Initial appropriate response.

6. Number of samples in shipping container (Each sample may contain multiple bottles): 2@15 Containers
7. Sample holding times exceeded? NA [ ] Yes [ ] No [ ]
8. Samples have:
   - tape
   - custody seals
   - hazard labels
   - appropriate sample labels
9. Samples are:
   - in good condition
   - broken
   - leaking
   - have air bubbles
   - (Only for samples requiring head space)

   (BOTH)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [ ] pH>9 [ ] Amount of HNO3 Added _____
11. Sample Location, Sample Collector Listed? * Yes [ ] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [ ]
13. Description of anomalies (include sample numbers): NA [ ]

see other side for additional comments

Sample Custodian: Angel Garcia Date: 7.15.10 @ 1305pm

Client Informed on N/A by N/A Person contacted N/A

[ ] No action necessary, process as is.

Project Manager [signature] Date 7/21/10

LS-023, Rev. 10, 10/09

8/19/2010 12:01:34 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

6D Pu Prp PRP004, Sep ALP002(ALP015)
SO Plutonium-238,239/40 by Alpha Spec
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 08/30/2010 W05947

Sep1 DT/Tm Tech:

Batch: 0214444 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 0214438 AWTA, 0214439 BNTB, 0214444 6DSO, 0214446 9NS1, 0214449 5SS3,

Prep Tech: ,LucasD

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 L34CX-1-AF J0G130416-1-SAMP 07/08/2010 10:19		201.70g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	PUTC11781 08/12/10,pd 07/01/10,r	200		Scr: Alpha: -3.59E-04 uCi/Sa	Beta: -9.31E-04 uCi/Sa	
2 L34CX-1-AG-X J0G130416-1-DUP 07/08/2010 10:19		200.30g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	PUTC11782 08/12/10,pd 07/01/10,r			Scr: Alpha: -3.59E-04 uCi/Sa	Beta: -9.31E-04 uCi/Sa	
3 L34C8-1-AF J0G130416-2-SAMP 07/08/2010 11:12		200.30g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	PUTC11783 08/12/10,pd 07/01/10,r			Scr: Alpha: 7.14E-04 uCi/Sa	Beta: -1.79E-03 uCi/Sa	
4 L34DA-1-AF J0G130416-3-SAMP 07/08/2010 12:13		202.00g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	PUTC11784 08/12/10,pd 07/01/10,r			Scr: Alpha: 1.40E-03 uCi/Sa	Beta: -2.30E-03 uCi/Sa	
5 L34DD-1-AF J0G130416-4-SAMP 07/08/2010 13:35		200.30g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	PUTC11785 08/12/10,pd 07/01/10,r			Scr: Alpha: -4.07E-04 uCi/Sa	Beta: -7.62E-05 uCi/Sa	
6 L34DG-1-AF J0G130416-5-SAMP 07/08/2010 09:29		200.70g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	PUTC11786 08/12/10,pd 07/01/10,r			Scr: Alpha: -1.71E-03 uCi/Sa	Beta: 1.12E-03 uCi/Sa	
7 L34DW-1-AF J0G130416-6-SAMP 07/08/2010 12:35		202.20g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	PUTC11787 08/12/10,pd 07/01/10,r			Scr: Alpha: 6.73E-04 uCi/Sa	Beta: -4.18E-04 uCi/Sa	

8/19/2010 12:01:35 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

6D Pu Prp PRP004, Sep ALP002(ALP015)
SO Plutonium-238,239/40 by Alpha Spec
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 08/30/2010

Sep1 DT/Tm Tech:

Batch: 0214444 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,LucasD

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 L34D3-1-AF J0G130416-7-SAMP 07/08/2010 10:44		200.00g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	PUTC11788 08/12/10,pd 07/01/10,r	200		Scr:	Alpha: -2.82E-04 uCi/Sa	Beta: 7.80E-04 uCi/Sa
9 L34D9-1-AF J0G130416-8-SAMP 07/08/2010 10:35		200.10g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	PUTC11789 08/12/10,pd 07/01/10,r			Scr:	Alpha: 1.76E-03 uCi/Sa	Beta: -2.47E-04 uCi/Sa
10 L34EG-1-AF J0G130416-9-SAMP 07/08/2010 13:31		201.00g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	PUTC11790 08/12/10,pd 07/01/10,r			Scr:	Alpha: -2.42E-04 uCi/Sa	Beta: -5.89E-04 uCi/Sa
11 L34EL-1-AF J0G130416-10-SAMP 07/08/2010 11:48		200.50g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	PUTC11791 08/12/10,pd 07/01/10,r			Scr:	Alpha: 1.36E-03 uCi/Sa	Beta: -4.66E-04 uCi/Sa
12 L34EP-1-AF J0G130416-11-SAMP 07/08/2010 12:07		201.60g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	PUTC11792 08/12/10,pd 07/01/10,r			Scr:	Alpha: -3.95E-04 uCi/Sa	Beta: 9.52E-04 uCi/Sa
13 L34ER-1-AF J0G130416-12-SAMP 07/08/2010 09:13		201.50g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	PUTC11793 08/12/10,pd 07/01/10,r			Scr:	Alpha: 1.02E-03 uCi/Sa	Beta: -4.19E-04 uCi/Sa
14 L41H3-1-AA-B J0H020000-444-BLK 08/03/2010 09:28 pd		200.40g,in AmtRec: #Containers: 1	PUTC11794 08/12/10,pd 07/01/10,r			Scr:	Alpha:	Beta:

8/19/2010 12:01:36 PM

Sample Preparation/Analysis

6D Pu Prp PRP004, Sep ALP002(ALP015)
SO Plutonium-238,239/40 by Alpha Spec
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 08/30/2010

Sep1 DT/Tm Tech:

Batch: 0214444 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,LucasD

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 L41H3-1-AC-C		201.60g,in	PUSG1032	200				
J0H020000-444-LCS			07/19/10,pd					
08/03/2010 09:28 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

2/7

Comments:

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SS , 57671

L34CX1AF-SAMP Constituent List:

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

L41H31AA-BLK:

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

L41H31AC-LCS:

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

L34CX1AF-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

L41H31AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

L41H31AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

9/13/2010 12:40:18 PM

ICOC Fraction Transfer/Status Report

ByDate: 9/13/2009, 9/18/2010, Batch: '0214444', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
	0214444						
AC			Rev1C	LucasD	8/19/2010 11:27:16		
SC				Wagarr	IsBatched	8/3/2010 9:31:10 AM	ICOC_RADCALC v4.8.40
SC				LucasD	InPrep	8/19/2010 11:27:16 AM	RL-COC-002 Revision 1
SC				JorgensonD	Prep2C	8/26/2010 5:17:43 PM	RL-PRP-010 REVISION 1
SC				JorgensonD	Sep1C	8/30/2010 3:55:24 PM	RL-ALP-001 REVISION 2
SC				Barcotl	InSep2	8/31/2010 11:56:15 AM	RL-ALP-015 REVISION 1
SC				ClarkR	InCnt1	8/31/2010 1:35:45 PM	RL-CI-008 REVISION 1
SC				DAWKINSO	CalcC	8/31/2010 9:02:39 PM	RL-CI-008 REVISION 1
SC				antonsonl	Rev1C	9/13/2010 12:40:09 PM	RL-DR-001 Rev 0
AC				JorgensonD	8/26/2010 5:17:43 PM		
AC				JorgensonD	8/30/2010 3:55:24 PM		
AC				Barcotl	8/31/2010 11:56:15		
AC				ClarkR	8/31/2010 1:35:45 PM		
AC				DAWKINSO	8/31/2010 9:02:39 PM		
AC				antonsonl	9/13/2010 12:40:09		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 7

ICOCFractions v4.8.44

8/19/2010 12:19:25 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

9N Thiso Prp PRP004, Sep ALP005(ALP016)
S1 Thorium-228,230,232 by Alpha Spec
01 STANDARD TEST SET

Pipet #: _____

AnalyDueDate: 08/30/2010 WO 5947

Sep1 DT/Tm Tech:

Batch: 0214446 WATER pCi/L

PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,LucasD

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:
171 1 L34CX-1-AA J0G130416-1-SAMP 07/08/2010 10:19		AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	202.80g,in	202.80g	THTC19884 06/16/10,pd 07/20/10,r	200		Scr:	Alpha: -3.59E-04 uCi/Sa	Beta: -9.31E-04 uCi/Sa
172 2 L34C8-1-AA J0G130416-2-SAMP 07/08/2010 11:12		AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	202.20g,in	202.20g	THTC19885 08/16/10,pd 07/20/10,r			Scr:	Alpha: 7.14E-04 uCi/Sa	Beta: -1.79E-03 uCi/Sa
173 3 L34C8-1-AG-X J0G130416-2-DUP 07/08/2010 11:12		AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	201.40g,in	201.40g	THTC19886 08/16/10,pd 07/20/10,r			Scr:	Alpha: 7.14E-04 uCi/Sa	Beta: -1.79E-03 uCi/Sa
174 4 L34DA-1-AA J0G130416-3-SAMP 07/08/2010 12:13		AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	200.70g,in	200.70g	THTC19887 08/16/10,pd 07/20/10,r			Scr:	Alpha: 1.40E-03 uCi/Sa	Beta: -2.30E-03 uCi/Sa
176 5 L34DD-1-AA J0G130416-4-SAMP 07/08/2010 13:35		AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	200.80g,in	200.80g	THTC19888 08/16/10,pd 07/20/10,r			Scr:	Alpha: -4.07E-04 uCi/Sa	Beta: -7.62E-05 uCi/Sa
177 6 L34DG-1-AA J0G130416-5-SAMP 07/08/2010 09:29		AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	200.50g,in	200.50g	THTC19889 08/16/10,pd 07/20/10,r			Scr:	Alpha: -1.71E-03 uCi/Sa	Beta: 1.12E-03 uCi/Sa
178 7 L34DW-1-AA J0G130416-6-SAMP 07/08/2010 12:35		AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	200.60g,in	200.60g	THTC19890 08/16/10,pd 07/20/10,r			Scr:	Alpha: 6.73E-04 uCi/Sa	Beta: -4.18E-04 uCi/Sa

8/19/2010 12:19:26 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

9N Thiso Prp PRP004, Sep ALP005(ALP016)
S1 Thorium-228,230,232 by Alpha Spec
01 STANDARD TEST SET

Pipet #: _____

AnalyDueDate: 08/30/2010

Sep1 DT/Tm Tech:

Batch: 0214446 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,LucasD

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 L34D3-1-AA J0G130416-7-SAMP 07/08/2010 10:44		AmtRec: VIAL20,4XLP,3X4LP	200.30g,in #Containers: 8	200.30g	THTC19891 08/16/10,pd 07/20/10,r	200		Scr:	Alpha: -2.82E-04 uCi/Sa	Beta: 7.80E-04 uCi/Sa
9 L34D9-1-AA J0G130416-8-SAMP 07/08/2010 10:35		AmtRec: VIAL20,4XLP,3X4LP	200.50g,in #Containers: 8	200.50g	THTC19892 08/16/10,pd 07/20/10,r			Scr:	Alpha: 1.76E-03 uCi/Sa	Beta: -2.47E-04 uCi/Sa
10 L34EG-1-AA J0G130416-9-SAMP 07/08/2010 13:31		AmtRec: VIAL20,4XLP,3X4LP	200.00g,in #Containers: 8	200.00g	THTC19893 08/16/10,pd 07/20/10,r			Scr:	Alpha: -2.42E-04 uCi/Sa	Beta: -5.89E-04 uCi/Sa
11 L34EL-1-AA J0G130416-10-SAMP 07/08/2010 11:48		AmtRec: VIAL20,4XLP,3X4LP	201.30g,in #Containers: 8	201.30g	THTC19894 08/16/10,pd 07/20/10,r			Scr:	Alpha: 1.36E-03 uCi/Sa	Beta: -4.66E-04 uCi/Sa
12 L34EP-1-AA J0G130416-11-SAMP 07/08/2010 12:07		AmtRec: VIAL20,4XLP,3X4LP	200.40g,in #Containers: 8	200.40g	THTC19895 08/16/10,pd 07/20/10,r			Scr:	Alpha: -3.95E-04 uCi/Sa	Beta: 9.52E-04 uCi/Sa
13 L34ER-1-AA J0G130416-12-SAMP 07/08/2010 09:13		AmtRec: VIAL20,4XLP,3X4LP	201.10g,in #Containers: 8	201.10g	THTC19896 08/16/10,pd 07/20/10,r			Scr:	Alpha: 1.02E-03 uCi/Sa	Beta: -4.19E-04 uCi/Sa
14 L41H5-1-AA-B J0H020000-446-BLK 08/03/2010 09:28 pd		AmtRec:	201.40g,in #Containers: 1	201.40g	THTC19897 08/16/10,pd 07/20/10,r			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 2 ISV - Insufficient Volume for Analysis WO Cnt: 14 Prep_SamplePrep v4.8.41

8/19/2010 12:19:27 PM

Sample Preparation/Analysis

9N Thiso Prp PRP004, Sep ALP005(ALP016)
S1 Thorium-228,230,232 by Alpha Spec
01 STANDARD TEST SET

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 08/30/2010

Sep1 DT/Tm Tech:

Batch: 0214446 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,LucasD

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 L41H5-1-AC-C			201.60g,in	201.60g	THSI2521	200				
J0H020000-446-LCS					08/16/10,pd 07/20/10,r					
08/03/2010 09:28 pd		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:

Comments:

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SS , 57671

L34CX1AA-SAMP Constituent List:

Th-228	RDL:1	pCi/L	LCL:	UCL:	RPD:	Th-230	RDL:1	pCi/L	LCL:70	UCL:130	RPD:20
Th-232	RDL:1	pCi/L	LCL:	UCL:	RPD:	Th-234	RDL:	pCi/L	LCL:20	UCL:115	RPD:20

L41H51AA-BLK:

Th-228	RDL:1	pCi/L	LCL:	UCL:	RPD:	Th-230	RDL:1	pCi/L	LCL:	UCL:	RPD:
Th-232	RDL:1	pCi/L	LCL:	UCL:	RPD:	Th-234	RDL:	pCi/L	LCL:20	UCL:115	RPD:20

L41H51AC-LCS:

Th-230	RDL:1	pCi/L	LCL:70	UCL:130	RPD:20	Th-234	RDL:	pCi/L	LCL:20	UCL:115	RPD:20

L34CX1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

L41H51AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

L41H51AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

9/3/2010 3:05:45 PM

ICOC Fraction Transfer/Status Report

ByDate: 9/3/2009, 9/8/2010, Batch: '0214446', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
0214446							
AC			Rev1C	LucasD	8/19/2010 12:04:39		
SC				Wagarr	IsBatched	8/3/2010 9:31:10 AM	ICOC_RADCALC v4.8.40
SC				LucasD	InPrep	8/19/2010 12:04:39 PM	RL-COC-002 Revision 1
SC				Barcotl	InSep1	8/30/2010 2:02:49 PM	ALP-001 REVISION 2
SC				JorgensonD	Sep2C	9/1/2010 1:41:33 PM	RL-ALP-016 REVISION 1
SC				ClarkR	InCnt1	9/1/2010 1:53:10 PM	RL-CI-008 REVISION 1
SC				BlackCL	CalcC	9/2/2010 6:10:48 AM	RL-CI-008 REVISION 1
SC				antonsonl	Rev1C	9/3/2010 3:05:33 PM	RL-DR-001 Rev 0
AC				Barcotl	8/30/2010 2:02:49 PM		
AC				JorgensonD	9/1/2010 1:41:33 PM		
AC				ClarkR	9/1/2010 1:53:10 PM		
AC				BlackCL	9/2/2010 6:10:48 AM		
AC				antonsonl	9/3/2010 3:05:33 PM		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 6

ICOCFractions v4.8.44

8/27/2010 11:59:00 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

8I Am Prp PRP004/PRP010, Sep ALP003(ALP016)
SX Americium-241 by Alpha Spec
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 08/30/2010 W05947

Sep1 DT/Tm Tech:

Batch: 0214445 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,LucasD

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 L38TW-1-AE J0G150576-1-SAMP 07/15/2010 09:19		201.60g,in AmtRec: VIAL20,8XLP,2X500,3X4LP #Containers: 14	AMTC2762 08/26/10,pd 04/04/05 r	200		Scr:	Alpha: 1.57E-03 uCi/Sa	Beta: -4.50E-04 uCi/Sa
2 L38TW-1-AT-X J0G150576-1-DUP 07/15/2010 09:19		201.70g,in AmtRec: VIAL20,8XLP,2X500,3X4LP #Containers: 14	AMTC2763 08/26/10,pd 04/04/05 r			Scr:	Alpha: 1.57E-03 uCi/Sa	Beta: -4.50E-04 uCi/Sa
3 L41H4-1-AA-B J0H020000-445-BLK 08/03/2010 09:28 pd		201.90g,in AmtRec:	AMTC2764 08/26/10,pd 04/04/05 r #Containers: 1			Scr:	Alpha:	Beta:
4 L41H4-1-AC-C J0H020000-445-LCS 08/03/2010 09:28 pd		203.30g,in AmtRec:	AMSK0335 08/26/10,pd 04/04/05 r #Containers: 1			Scr:	Alpha:	Beta:

Comments:

pH < 2.0 DL 8/27/10

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SS , 57671

L38TW1AE-SAMP Constituent List:

Am-241	RDL:1.00E+00	pCi/L	LCL:70	UCL:130	RPD:20	AM-243	RDL:	pCi/L	LCL:20	UCL:105	RPD:20

L41H41AA-BLK:

Am-241	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:	AM-243	RDL:	pCi/L	LCL:20	UCL:105	RPD:20

L41H41AC-LCS:

Am-241	RDL:1	pCi/L	LCL:70	UCL:130	RPD:20	AM-243	RDL:	pCi/L	LCL:20	UCL:105	RPD:20

8/27/2010 11:59:01 AM

Sample Preparation/Analysis

8I Am Prp PRP004/PRP010, Sep ALP003(ALP016)
SX Americium-241 by Alpha Spec
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 08/30/2010

Sep1 DT/Tm Tech:

Batch: 0214445 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,LucasD

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:

```
L38TW1AE-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
L41H41AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
L41H41AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

9/8/2010 2:26:09 PM

ICOC Fraction Transfer/Status Report

ByDate: 9/8/2009, 9/13/2010, Batch: '0214445', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
0214445						
AC		Rev1C	LucasD	8/27/2010 11:55:43		
SC			Wagarr	IsBatched	8/3/2010 9:31:10 AM	ICOC_RADCALC v4.8.40
SC			LucasD	InPrep	8/27/2010 11:55:43 AM	RL-PRP-004 Revision 1
SC			JorgensonD	Prep2C	8/30/2010 3:44:52 PM	RL-PRP-010 REVISION 1
SC			JorgensonD	Sep1C	8/31/2010 3:11:59 PM	RL-ALP-001 REVISION 2
SC			JorgensonD	Sep2C	9/2/2010 1:49:35 PM	RL-ALP-016 REVISION 1
SC			ClarkR	InCnt1	9/2/2010 2:01:51 PM	RL-CI-008 REVISION 1
SC			antonsonl	Rev1C	9/8/2010 2:26:04 PM	RL-DR-001 Rev 0
AC			JorgensonD	8/30/2010 3:44:52 PM		
AC			JorgensonD	8/31/2010 3:11:59 PM		
AC			JorgensonD	9/2/2010 1:49:35 PM		
AC			ClarkR	9/2/2010 2:01:51 PM		
AC			antonsonl	9/8/2010 2:26:04 PM		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

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Grp Rec Cnt: 6

ICOCFractions v4.8.44

8/25/2010 3:27:31 PM

Sample Preparation/Analysis

Balance Id:1117411003

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AZ Gross Alpha Prp GPC001
S7 Gross Alpha by GPC using Am-241 curve
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 08/30/2010 W05947

Sep1 DT/Tm Tech:

Batch: 0214442 WATER pCi/L

PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

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 L38TW-1-AD J0G150576-1-SAMP 07/15/2010 09:19		200.60g,in AmtRec: VIAL20,8XLP,2X500,3X4LP #Containers: 14		1.5	36.9	50	10B Scr:	1014 Alpha: 1.57E-03 uCi/Sa	9/1/10 RC Beta: -4.50E-04 uCi/Sa	
2 L38TW-1-AQ-X J0G150576-1-DUP 07/15/2010 09:19		202.70g,in AmtRec: VIAL20,8XLP,2X500,3X4LP #Containers: 14			37.1		10C Scr:	Alpha: 1.57E-03 uCi/Sa	Beta: -4.50E-04 uCi/Sa	
3 L41H1-1-AA-B J0H020000-442-BLK 08/03/2010 09:28 pd		198.20g,in AmtRec: #Containers: 1			0.2		10D Scr:	Alpha:	Beta:	
4 L41H1-1-AC-C J0H020000-442-LCS 08/03/2010 09:28 pd		202.60g,in AmtRec: #Containers: 1	ASD4967 07/22/10,pd 04/04/05 r		0.1		10B Scr:	H17 Alpha:	9/1/10 m Beta:	

Comments: pH <2.0 JB 8-25-10

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SS , 57671

L38TW1AD-SAMP Constituent List:

ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
L41H11AA-BLK:					
ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
L41H11AC-LCS:					
Am-241	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

L38TW1AD-SAMP Calc Info:

8/25/2010 3:27:31 PM

Sample Preparation/Analysis

AZ Gross Alpha Prp GPC001
S7 Gross Alpha by GPC using Am-241 curve
5I CLIENT: HANFORD

Balance Id:1117411003

Pipet #: _____

AnalyDueDate: 08/30/2010

Sep1 DT/Tm Tech:

Batch: 0214442 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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:

```
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
L41H11AA-BLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
L41H11AC-LCS:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

9/3/2010 2:42:43 PM

ICOC Fraction Transfer/Status Report

ByDate: 9/3/2009, 9/8/2010, Batch: '0214442', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
0214442							
AC			Rev1C	BockJ	8/25/2010 3:24:13 PM		
SC				Wagarr	IsBatched	8/3/2010 9:31:10 AM	ICOC_RADCALC v4.8.40
SC				BockJ	InPrep	8/25/2010 3:24:13 PM	RL-PRP-004 REVISION 1
SC				BockJ	Prep1C	8/25/2010 3:30:52 PM	RL-GPC-001 REVISION 1
SC				BockJ	InPrep2	8/26/2010 2:19:49 PM	RL-GPC-001 REVISION 1
SC				BockJ	Prep2C	8/31/2010 5:02:12 PM	RL-GPC-001 REVISION 1
SC				DAWKINSO	InCnt1	8/31/2010 5:26:49 PM	RL-CI-006 REVISION 1
SC				DAWKINSO	CalcC	9/1/2010 3:52:55 PM	RL-CI-006 REVISION 1
SC				antonsonl	Rev1C	9/3/2010 2:42:38 PM	RL-DR-001 Rev 0
AC				BockJ	8/25/2010 3:30:52 PM		
AC				BockJ	8/26/2010 2:19:49 PM		
AC				BockJ	8/31/2010 5:02:12 PM		
AC				DAWKINSO	8/31/2010 5:26:49 PM		
AC				DAWKINSO	9/1/2010 3:52:55 PM		
AC				antonsonl	9/3/2010 2:42:38 PM		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 7

ICOCFractions v4.8.44

8/25/2010 3:24:03 PM

Sample Preparation/Analysis

Balance Id:1117411003

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

BC Gross Beta Prp GPC001
S8 Gross Beta by GPC using Sr/Y-90 curve
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 08/30/2010 W05947

Sep1 DT/Tm Tech:

Batch: 0214443 WATER pCi/L

PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

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 L38TW-1-AL J0G150576-1-SAMP 07/15/2010 09:19		199.50g,in AmtRec: VIAL20,8XLP,2X500,3X4LP #Containers: 14		1.5	74.8	100	32D Scr:	2101 Alpha: 1.57E-03 uCi/Sa	8/31/1000 Beta: -4.50E-04 uCi/Sa	
2 L38TW-1-AR-X J0G150576-1-DUP 07/15/2010 09:19		200.30g,in AmtRec: VIAL20,8XLP,2X500,3X4LP #Containers: 14			75.5		26A Scr:	Alpha: 1.57E-03 uCi/Sa	Beta: -4.50E-04 uCi/Sa	
3 L41H2-1-AA-B J0H020000-443-BLK 08/03/2010 09:28 pd		198.80g,in AmtRec: #Containers: 1			0		26B Scr:	Alpha:	Beta:	
4 L41H2-1-AC-C J0H020000-443-LCS 08/03/2010 09:28 pd		199.60g,in AmtRec: #Containers: 1	BESB3565 07/14/10,pd 10/01/01,r		0.2		26C Scr:	Alpha:	Beta:	

Comments: pH <2.0 JB 8-25-10

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SS , 57671

L38TW1AL-SAMP Constituent List:

BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
L41H21AA-BLK:					
BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
L41H21AC-LCS:					
Sr-90	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

L38TW1AL-SAMP Calc Info:

8/25/2010 3:24:04 PM

Sample Preparation/Analysis

Balance Id:1117411003

BC Gross Beta Prp GPC001
S8 Gross Beta by GPC using Sr/Y-90 curve
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 08/30/2010

Sep1 DT/Tm Tech:

Batch: 0214443 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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:

```
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
L41H21AA-BLK:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
L41H21AC-LCS:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

9/3/2010 2:36:45 PM

ICOC Fraction Transfer/Status Report

ByDate: 9/3/2009, 9/8/2010, Batch: '0214443', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
	0214443						
AC			Rev1C	BockJ	8/25/2010 3:19:08 PM		
SC				Wagarr	IsBatched	8/3/2010 9:31:10 AM	ICOC_RADCALC v4.8.40
SC				BockJ	InPrep	8/25/2010 3:19:08 PM	RL-PRP-004 REVISION 1
SC				BockJ	Prep1C	8/25/2010 3:30:44 PM	RL-GPC-001 REVISION 1
SC				BockJ	InPrep2	8/26/2010 2:19:44 PM	RL-GPC-001 REVISION 1
SC				BockJ	Prep2C	8/31/2010 5:02:31 PM	RL-GPC-001 REVISION 1
SC				DAWKINSO	InCnt1	8/31/2010 5:27:08 PM	RL-CI-006 REVISION 1
SC				DAWKINSO	CalcC	8/31/2010 9:54:15 PM	RL-CI-006 REVISION 1
SC				antonsonl	Rev1C	9/3/2010 2:36:40 PM	RL-DR-001 Rev 0
AC				BockJ	8/25/2010 3:30:44 PM		
AC				BockJ	8/26/2010 2:19:44 PM		
AC				BockJ	8/31/2010 5:02:31 PM		
AC				DAWKINSO	8/31/2010 5:27:08 PM		
AC				DAWKINSO	8/31/2010 9:54:15 PM		
AC				antonsonl	9/3/2010 2:36:40 PM		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland,Wa.

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Grp Rec Cnt: 7

ICOCFractions v4.8.44

8/19/2010 12:05:25 PM

Sample Preparation/Analysis

Balance Id:1120373922

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

CL Sr-90 Prp/Sep GPC003(GPC004)
TL Sr-85 by NaI and Sr-90 by GPC 7 day ingrowth
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 08/30/2010 W05947

Sep1 DT/Tm Tech: 17:05 8/24/10 APA

Batch: 0214447 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech: 11:10 9/1/10 APA

SEQ Batch, Test: None

Prep Tech: ,AshworthA

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 L38TW-1-AJ J0G150576-1-SAMP		1000.61g,in	SRTB17086 07/15/10	89.69%	1"	23.2	100	7" 9/8/10 ~~4B~~ 4D 4D	1034 0520 0754	8/25/10 mc 9/8/10 9/1/10 mc	
1.797/2.0036 = 0.8969											
07/15/2010 09:19		AmtRec: VIAL20,8XLP,2X500,3X4LP #Containers: 14						Scr:	Alpha: 1.57E-03 uCi/Sa	Beta: -4.50E-04 uCi/Sa	
2 L38TW-1-AU-X J0G150576-1-DUP		999.81g,in	SRTB17087 07/15/10	91.01%	1.5"	22.8		7" 9/8/10 ~~4B~~ 5A 5A	1106 0520 0754	8/25/10 mc 9/8/10 9/1/10 mc	
1.823/2.0030 = 0.9101											
07/15/2010 09:19		AmtRec: VIAL20,8XLP,2X500,3X4LP #Containers: 14						Scr:	Alpha: 1.57E-03 uCi/Sa	Beta: -4.50E-04 uCi/Sa	
3 L41H6-1-AA-B J0H020000-447-BLK		1000.09g,in	SRTB17088 07/15/10	89.66%		24.0		7" 9/8/10 ~~4B~~ 5B 5B	1132 0520 0754	8/25/10 mc 9/8/10 9/1/10 mc	
1.792/1.9987 = 0.8966											
08/03/2010 09:28 pd		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:	
4 L41H6-1-AC-C J0H020000-447-LCS		1000.40g,in	SRSG1582 07/15/10	86.38%		22.6		7" 9/8/10 ~~4B~~ 5C 5C	1209 0520 0754	8/25/10 mc 9/8/10 9/1/10 mc	
1.733/2.0063 = 0.8638											
08/03/2010 09:28 pd		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:	

8/19/2010 12:05:26 PM

Sample Preparation/Analysis

CL Sr-90 Prp/Sep GPC003(GPC004)
TL Sr-85 by NaI and Sr-90 by GPC 7 day ingrowth
5I CLIENT: HANFORD

Balance Id:1120373922
Pipet #: _____

AnalyDueDate: 08/30/2010

Sep1 DT/Tm Tech:

Batch: 0214447 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,AshworthA

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

Comments:

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SS , 57671

L38TW1AJ-SAMP Constituent List:

Sr-85	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:70	UCL:130	RPD:20

L41H61AA-BLK:

Sr-85	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:	UCL:	RPD:

L41H61AC-LCS:

Sr-85	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:70	UCL:130	RPD:20

L38TW1AJ-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
L41H61AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
L41H61AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

9/8/2010 2:48:24 PM

ICOC Fraction Transfer/Status Report

ByDate: 9/8/2009, 9/13/2010, Batch: '0214447', User: *ALL Order By DateTimeAccepting

Batch / Work Ord	CurStatus	Accepting			Comments
0214447					
AC	Rev1C	AshworthA	8/19/2010 12:33:54		
SC		Wagarr	IsBatched	8/3/2010 9:31:10 AM	ICOC_RADCALC v4.8.40
SC		AshworthA	Prep1C	8/19/2010 12:33:54 PM	RL-PRP-004 REVISION 1
SC		AshworthA	Sep1C	8/24/2010 5:49:25 PM	RL-GPC-003 REVISION 1
SC		DAWKINSO	InCnt1	8/24/2010 6:18:06 PM	RL-CI-007 REVISION 1
SC		ClarkR	Cnt1C	8/25/2010 12:13:35 PM	RL-CI-007 REVISION 1
SC		AshworthA	Sep2C	9/1/2010 4:03:46 PM	RL-GPC-004 REVISION 1
SC		DAWKINSO	InCnt2	9/1/2010 4:32:45 PM	RL-CI-006 REVISION 1
SC		BlackCL	CalcC	9/3/2010 11:05:54 AM	RL-CI-006 REVISION 1
SC		antonsonl	Rev1C	9/8/2010 2:48:12 PM	RL-DR-001 Rev 0
AC		AshworthA	8/24/2010 5:49:25 PM		
AC		DAWKINSO	8/24/2010 6:18:06 PM		
AC		ClarkR	8/25/2010 12:13:35		
AC		AshworthA	9/1/2010 4:03:46 PM		
AC		DAWKINSO	9/1/2010 4:32:46 PM		
AC		BlackCL	9/3/2010 11:05:54		
AC		antonsonl	9/8/2010 2:48:12 PM		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 8

ICOCFractions v4.8.44

8/31/2010 10:20:56 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AW Gamma Prp GAM001
TA Gamma by HPGE
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 08/30/2010 W05947

Sep1 DT/Tm Tech:

Batch: 0214438 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,LucasD Book 9

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 L34CX-1-AD J0G130416-1-SAMP 07/08/2010 10:19		2002.00g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8			100mL	200	G13 Scr:	2019 Alpha: -3.59E-04 uCi/Sa	9/2/1000 Beta: -9.31E-04 uCi/Sa	
2 L34C8-1-AD J0G130416-2-SAMP 07/08/2010 11:12		2001.30g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8					G7 Scr:	2019 Alpha: 7.14E-04 uCi/Sa	Beta: -1.79E-03 uCi/Sa	
3 L34DA-1-AD J0G130416-3-SAMP 07/08/2010 12:13		2001.70g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8					G14 Scr:	2020 Alpha: 1.40E-03 uCi/Sa	Beta: -2.30E-03 uCi/Sa	
4 L34DD-1-AD J0G130416-4-SAMP 07/08/2010 13:35		2002.90g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8					G11 Scr:	2021 Alpha: -4.07E-04 uCi/Sa	Beta: -7.62E-05 uCi/Sa	
5 L34DG-1-AD J0G130416-5-SAMP 07/08/2010 09:29		2000.60g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8					G15 Scr:	2021 Alpha: -1.71E-03 uCi/Sa	Beta: 1.12E-03 uCi/Sa	
6 L34DW-1-AD J0G130416-6-SAMP 07/08/2010 12:35		2001.80g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8					G5 Scr:	2022 Alpha: 6.73E-04 uCi/Sa	Beta: -4.18E-04 uCi/Sa	
7 L34D3-1-AD J0G130416-7-SAMP 07/08/2010 10:44		2001.50g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8					G15 Scr:	2357 Alpha: -2.82E-04 uCi/Sa	Beta: 7.80E-04 uCi/Sa	

8/31/2010 10:20:57 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AW Gamma Prp GAM001
TA Gamma by HPGE
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 08/30/2010

Sep1 DT/Tm Tech:

Batch: 0214438 WATER pCi/L PM, Quote: SS , 57671

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,LucasD

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 L34D9-1-AD J0G130416-8-SAMP 07/08/2010 10:35		2003.80g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8			100mL	200	G5	2352	9/2/10 OAO	
								Scr: Alpha: 1.76E-03 uCi/Sa	Beta: -2.47E-04 uCi/Sa	
9 L34EG-1-AD J0G130416-9-SAMP 07/08/2010 13:31		2002.40g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8					G11	2353		
								Scr: Alpha: -2.42E-04 uCi/Sa	Beta: -5.89E-04 uCi/Sa	
10 L34EL-1-AD J0G130416-10-SAMP 07/08/2010 11:48		2002.60g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8					G14	2355 9/2/10 OAO		
								Scr: Alpha: 1.38E-03 uCi/Sa	Beta: -4.66E-04 uCi/Sa	
11 L34EP-1-AD J0G130416-11-SAMP 07/08/2010 12:07		2001.90g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8					G7	2355		
								Scr: Alpha: -3.95E-04 uCi/Sa	Beta: 9.52E-04 uCi/Sa	
12 L34ER-1-AD J0G130416-12-SAMP 07/08/2010 09:13		2000.00g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8					G10	2355		
								Scr: Alpha: 1.02E-03 uCi/Sa	Beta: -4.19E-04 uCi/Sa	
13 L34FM-1-AA J0G130428-1-SAMP 07/09/2010 08:26		2001.10g,in AmtRec: VIAL20,1X4LP #Containers: 2					G13	2355		
								Scr: Alpha: -1.16E-05 uCi/Sa	Beta: 3.66E-04 uCi/Sa	
14 L34FM-1-AC-X J0G130428-1-DUP 07/09/2010 08:26		ISV AmtRec: VIAL20,1X4LP #Containers: 2					G10	2024		
								Scr: Alpha: -1.16E-05 uCi/Sa	Beta: 3.66E-04 uCi/Sa	

TestAmerica Richland Wa. Key: In - Initial Amt, fi - Final Amt, dl - 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 v4.8.41

8/31/2010 10:20:58 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AW Gamma Prp GAM001
TA Gamma by HPGE
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 08/30/2010

Sep1 DT/Tm Tech:

Batch: 0214438 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,LucasD

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 L34FQ-1-AA J0G130428-2-SAMP 07/09/2010 09:42		2003.20g,in AmtRec: VIAL20,1X4LP #Containers: 2			100mL	200	G5	1025	9/3/10	Scr: Alpha: -1.11E-04 uCi/Sa Beta: 4.52E-04 uCi/Sa
16 L342W-1-AA J0G130506-1-SAMP 07/09/2010 08:35		2001.90g,in AmtRec: VIAL20,1X4LP #Containers: 2					G15	1025		Scr: Alpha: 3.61E-04 uCi/Sa Beta: 5.79E-04 uCi/Sa
17 L3427-1-AA J0G130506-2-SAMP 07/09/2010 11:48		2001.40g,in AmtRec: VIAL20,1X4LP #Containers: 2					G11	1026		Scr: Alpha: -3.23E-04 uCi/Sa Beta: 5.80E-04 uCi/Sa
18 L343C-1-AA J0G130506-3-SAMP 07/09/2010 12:27		2003.40g,in AmtRec: VIAL20,1X4LP #Containers: 2					G14	1027		Scr: Alpha: -1.71E-04 uCi/Sa Beta: 1.52E-04 uCi/Sa
19 L3434-1-AA J0G130506-4-SAMP 07/09/2010 13:15		200.00g,in AmtRec: VIAL20,1X4LP #Containers: 2					G7	1027		Scr: Alpha: 1.46E-02 uCi/Sa 4.9E-02L Beta: 4.71E-02 uCi/Sa 7.6E-03L
20 L38TW-1-AG J0G150576-1-SAMP 07/15/2010 09:19		2003.20g,in AmtRec: VIAL20,8XLP,2X500,3X4LP #Containers: 14					G10	1028		Scr: Alpha: 1.57E-03 uCi/Sa Beta: -4.50E-04 uCi/Sa
21 L41HT-1-AA-B J0H020000-438-BLK 08/03/2010 09:28 pd		2004.10g,in AmtRec: #Containers: 1					G13	1028		Scr: Alpha: Beta:

8/31/2010 10:20:59 AM

Sample Preparation/Analysis

AW Gamma Prp GAM001
TA Gamma by HPGE
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 08/30/2010

Sep1 DT/Tm Tech:

Batch: 0214438 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,LucasD

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:
22 L41HT-1-AC-C J0H020000-438-LCS 08/03/2010 09:28 pd		2002.60g,in AmtRec:	QCAG1654 07/27/10,pd #Containers: 1		150	200	615	1355	9/3 KJS Scr: Alpha:	Beta:

Comments: L34FM-SAMP "Comments: ISV - DL 8/31/10" #14 (DUP.) Please recount on diff detector. JB 9-2-10
L3434-SAMP "Comments: Aliquot volume reduced due to screening results.- DL 8/31/10"

Sample #16 (L34ZW) dirty sample. JB 9-2-10

pH < 2.0 DL 8/31/10

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SS , 57671

L34CX1AD-SAMP Constituent List:

Co-60	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
Cs-137	RDL:6.00E+00	pCi/L	LCL:70	UCL:130	RPD:20	Cs-137DA	RDL:6.00E+00	pCi/L	LCL:70	UCL:130	RPD:20
Eu-154	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Eu-155	RDL:.00E+00	pCi/L	LCL:	UCL:	RPD:
K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Sb-125	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:

L41HT1AA-BLK:

Co-60	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
Cs-137	RDL:6.00E+00	pCi/L	LCL:	UCL:	RPD:	Cs-137DA	RDL:6.00E+00	pCi/L	LCL:	UCL:	RPD:
Eu-154	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Eu-155	RDL:.00E+00	pCi/L	LCL:	UCL:	RPD:
K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Sb-125	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:

L41HT1AC-LCS:

Cs-137	RDL:15	pCi/L	LCL:70	UCL:130	RPD:20	Cs-137DA	RDL:15	pCi/L	LCL:70	UCL:130	RPD:20
K-40	RDL:6	pCi/L	LCL:70	UCL:130	RPD:20	Ra-226	RDL:--	pCi/L	LCL:70	UCL:130	RPD:20
RA-228	RDL:--	pCi/L	LCL:70	UCL:130	RPD:20	RA-228DA	RDL:--	pCi/L	LCL:70	UCL:130	RPD:20
U-238	RDL:--	pCi/L	LCL:70	UCL:130	RPD:20						

L34CX1AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
L41HT1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
L41HT1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

8/31/2010 10:20:59 AM

Sample Preparation/Analysis

AW Gamma Prp GAM001
TA Gamma by HPGE
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 08/30/2010

Sep1 DT/Tm Tech:

Batch: 0214438 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,LucasD

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:

9/9/2010 2:35:56 PM

ICOC Fraction Transfer/Status Report

ByDate: 9/9/2009, 9/14/2010, Batch: '0214438', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
0214438							
AC			Rev1C	LucasD	8/31/2010 9:40:20		
SC				Wagarr	IsBatched	8/3/2010 9:31:10 AM	ICOC_RADCALC v4.8.40
SC				LucasD	InPrep	8/31/2010 9:40:20 AM	RL-PRP-004 Revision 1
SC				BockJ	InPrep2	8/31/2010 11:11:05 AM	RL-GAM-001 REVISION 1
SC				BockJ	Prep2C	9/2/2010 4:30:45 PM	RL-GAM-001 REVISION 1
SC				DAWKINSO	InCnt1	9/2/2010 5:01:13 PM	RL-CI-007 REVISION 1
SC				BlackCL	CalcC	9/3/2010 2:16:27 PM	RL-CI-007 REVISION 1
SC				antonsonl	Rev1C	9/9/2010 2:35:26 PM	RL-DR-001 Rev 0
AC				BockJ	8/31/2010 11:11:05		
AC				BockJ	9/2/2010 4:30:45 PM		
AC				DAWKINSO	9/2/2010 5:01:13 PM		
AC				BockJ	9/2/2010 6:38:57 PM		
AC				BlackCL	9/3/2010 2:16:27 PM		
AC				antonsonl	9/9/2010 2:35:26 PM		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 7

ICOCFractions v4.8.44

9/20/2010 8:27:38 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

BN I-129 Prp/Sep GAM002
TB Gamma by LEPD
5I CLIENT: HANFORD

AnalyDueDate: 08/30/2010 W05947

Batch: 0214439 WATER pCi/L PM, Quote: SS , 57671
SEQ Batch, Test: None All Tests: 0214438 AWTA, 0214439 BNTB, 0214444 6DSO, 0214446 9NS1, 0214449 5SS3,

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

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 L34CX-1-AE J0G130416-1-SAMP 07/08/2010 10:19		3894.50g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	ITA9866 09/08/10		37.0	200	L4	1651 Scr: Alpha: -3.59E-04 uCi/Sa	9/28/10	Beta: -9.31E-04 uCi/Sa
2 L34C8-1-AE J0G130416-2-SAMP 07/08/2010 11:12		3880.40g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	ITA9867 09/08/10		35.4		L5	1651 Scr: Alpha: 7.14E-04 uCi/Sa		Beta: -1.79E-03 uCi/Sa
3 L34DA-1-AE J0G130416-3-SAMP 07/08/2010 12:13		3863.00g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	ITA9868 09/08/10		35.6		L4	2032 Scr: Alpha: 1.40E-03 uCi/Sa	9/28/10	Beta: -2.30E-03 uCi/Sa
4 L34DD-1-AE J0G130416-4-SAMP 07/08/2010 13:35		3874.20g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	ITA9869 09/08/10		38.1		L5	2033 Scr: Alpha: -4.07E-04 uCi/Sa		Beta: -7.62E-05 uCi/Sa
5 L34DG-1-AE J0G130416-5-SAMP 07/08/2010 09:29		3844.50g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	ITA9870 09/08/10		36.0		L4	0021 Scr: Alpha: -1.71E-03 uCi/Sa		Beta: 1.12E-03 uCi/Sa
6 L34DG-1-AG-X J0G130416-5-DUP 07/08/2010 09:29		3877.10g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	ITA9871 09/08/10		35.7		L5	0214 Scr: Alpha: -1.71E-03 uCi/Sa		Beta: 1.12E-03 uCi/Sa
7 L34DW-1-AE J0G130416-6-SAMP 07/08/2010 12:35		3832.40g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	ITA9872 09/08/10		39.5		L4	0608 Scr: Alpha: 6.73E-04 uCi/Sa	9/29/10	Beta: -4.18E-04 uCi/Sa

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 v4.8.41

9/20/2010 8:33:03 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

BN I-129 Prp/Sep GAM002
TB Gamma by LEPD
5I CLIENT: HANFORD

AnalyDueDate: 08/30/2010

Batch: 0214439 WATER pCi/L PM, Quote: SS , 57671
SEQ Batch, Test: None

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

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:
6 L34D3-1-AE J0G130416-7-SAMP 07/08/2010 10:44	AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	3855.00g,in	ITA9873 09/08/10		35.3	200	LS	Scr: Alpha: -2.82E-04 uCi/Sa	0003 9/29/10	Beta: 7.80E-04 uCi/Sa
9 L34D9-1-AE J0G130416-8-SAMP 07/08/2010 10:35	AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	3865.60g,in	ITA9874 09/08/10		34.4		LY	Scr: Alpha: 1.78E-03 uCi/Sa	0925	Beta: -2.47E-04 uCi/Sa
10 L34EG-1-AE J0G130416-9-SAMP 07/08/2010 13:31	AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	3834.00g,in	ITA9875 09/08/10		36.1		LS	Scr: Alpha: -2.42E-04 uCi/Sa	0925	Beta: -5.89E-04 uCi/Sa
11 L34EP-1-AE J0G130416-11-SAMP 07/08/2010 12:07	AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	3885.20g,in	ITA9876 09/08/10		36.3		LY	Scr: Alpha: -3.85E-04 uCi/Sa	1247 9/29/10	Beta: 9.52E-04 uCi/Sa
12 L34ER-1-AE J0G130416-12-SAMP 07/08/2010 09:13	AmtRec: VIAL20,4XLP,3X4LP #Containers: 8	3890.20g,in	ITA9877 09/08/10		36.3		LS	Scr: Alpha: 1.02E-03 uCi/Sa	1247	Beta: -4.19E-04 uCi/Sa
13 L38TW-1-AH J0G150576-1-SAMP 07/15/2010 09:19	AmtRec: VIAL20,8XLP,2X500,3X4LP #Containers: 14	3877.40g,in	ITA9878 09/08/10		36.6		LY	Scr: Alpha: 1.57E-03 uCi/Sa	1614 9/21/10	Beta: -4.50E-04 uCi/Sa
14 L41HV-1-AA-B J0H020000-439-BLK 08/03/2010 09:28 pd	AmtRec: #Containers: 1	4000.20g,in	ITA9879 09/08/10		35.5		LS	Scr: Alpha:	1615	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 2 ISV - Insufficient Volume for Analysis WO Cnt: 14 Prep_SamplePrep v4.8.41

9/20/2010 8:33:04 AM

Sample Preparation/Analysis

BN I-129 Prp/Sep GAM002
TB Gamma by LEPD
5I CLIENT: HANFORD

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

AnalyDueDate: 08/30/2010

Batch: 0214439 pCi/L
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 L41HV-1-AC-C J0H020000-439-LCS		4000.00g,In	ISD1084 08/16/10		36.8	200	L4	1944	9/29/100	
08/03/2010 09:28 pd		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:

Comments:

```
All Clients for Batch:
   384868, Pacific Northwest National Laboratory      Pacific Northwest National Lab,  SS , 57671

L34CX1AE-SAMP Constituent List:
  I-129       RDL:0.50E+00    pCi/L    LCL:        UCL:        RPD:
L41HV1AA-BLK:
  I-129       RDL:0.50E+00    pCi/L    LCL:        UCL:        RPD:
L41HV1AC-LCS:
  I-129       RDL:5           pCi/L    LCL:70      UCL:130     RPD:20
L34CX1AE-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
L41HV1AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
L41HV1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

9/30/2010 9:08:20 AM

ICOC Fraction Transfer/Status Report

ByDate: 9/30/2009, 10/5/2010, Batch: '0214439', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
0214439						
AC		Rev1C	HoganS	9/20/2010 8:18:44		
SC			Wagarr	IsBatched	8/3/2010 9:31:10 AM	ICOC_RADCALC v4.8.40
SC			HoganS	InPrep	9/20/2010 8:18:44 AM	RL-GAM-002 REVISION 1
SC			BockJ	Sep1C	9/23/2010 10:05:57 AM	RL-GAM-002 REVISION 1
SC			BlackCL	InCnt1	9/23/2010 10:48:22 AM	RL-CI-007 REVISION 1
SC			DAWKINSO	CalcC	9/29/2010 10:12:22 PM	RL-CI-007 REVISION 1
SC			antonsonl	Rev1C	9/30/2010 9:08:12 AM	RL-DR-001 Rev 2
AC			BockJ	9/23/2010 10:05:57		
AC			BlackCL	9/23/2010 10:48:22		
AC			DAWKINSO	9/29/2010 10:12:22		
AC			antonsonl	9/30/2010 9:08:12		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

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Grp Rec Cnt: 5

ICOCFractions v4.8.44

8/19/2010 12:29:01 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

FP Tc-99 Prp/Sep LSC014
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 08/30/2010 WO 5947

Sep1 DT/Tm Tech:

Batch: 0214448 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,LucasD

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 L38TW-1-AK J0G150576-1-SAMP 07/15/2010 09:19		AmtRec: VIAL20,8XLP,2X500,3X4LP #Containers: 14	125.30g,in	125.30g		60	Scr:	Alpha: 1.57E-03 uCi/Sa	Beta: -4.50E-04 uCi/Sa	
2 L38TW-1-AV-S J0G150576-1-MS 07/15/2010 09:19		AmtRec: VIAL20,8XLP,2X500,3X4LP #Containers: 14	126.80g,in	126.80g	TCSG2631 05/17/10,pd 07/01/05,r		Scr:	Alpha: 1.57E-03 uCi/Sa	Beta: -4.50E-04 uCi/Sa	
3 L38TW-1-AW-X J0G150576-1-DUP 07/15/2010 09:19		AmtRec: VIAL20,8XLP,2X500,3X4LP #Containers: 14	126.00g,in	126.00g			Scr:	Alpha: 1.57E-03 uCi/Sa	Beta: -4.50E-04 uCi/Sa	
4 L41H7-1-AA-B J0H020000-448-BLK 08/03/2010 09:28 pd		AmtRec: #Containers: 1	125.20g,in	125.20g			Scr:	Alpha:	Beta:	
5 L41H7-1-AC-C J0H020000-448-LCS 08/03/2010 09:28 pd		AmtRec: #Containers: 1	125.20g,in	125.20g	TCSE2391 07/30/10,pd 07/01/05,r		Scr:	Alpha:	Beta:	
6 L41H7-1-AD-BN J0H020000-448-IBLK 08/03/2010 09:28 pd		AmtRec: #Containers: 1					Scr:	Alpha:	Beta:	

8/19/2010 12:29:02 PM

Sample Preparation/Analysis

FP Tc-99 Prp/Sep LSC014
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

AnalyDueDate: 08/30/2010

Batch: 0214448 pCi/L
SEQ Batch, Test: None

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

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:

Comments:

```
All Clients for Batch:
   384868, Pacific Northwest National Laboratory      Pacific Northwest National Lab,  SS , 57671

L38TW1AK-SAMP Constituent List:
  Tc-99        RDL:15          pCi/L     LCL:70      UCL:130     RPD:20
L38TW1AV-MS Constituent List:

L41H71AA-BLK:
  Tc-99        RDL:15          pCi/L     LCL:        UCL:        RPD:
L41H71AC-LCS:
  Tc-99        RDL:15          pCi/L     LCL:70      UCL:130     RPD:20
L41H71AD-IBLK:
  Tc-99        RDL:15          pCi/L     LCL:        UCL:        RPD:

L38TW1AK-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
L38TW1AV-MS Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
L41H71AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
L41H71AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
L41H71AD-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

9/3/2010 2:46:41 PM

ICOC Fraction Transfer/Status Report

ByDate: 9/3/2009, 9/8/2010, Batch: '0214448', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
0214448							
AC			Rev1C	LucasD	8/19/2010 12:22:32		
SC				Wagarr	IsBatched	8/3/2010 9:31:10 AM	ICOC_RADCALC v4.8.40
SC				LucasD	InPrep	8/19/2010 12:22:32 PM	RL-COC-002 Revision 1
SC				JorgensonD	Sep2C	8/30/2010 5:45:23 PM	RL-LSC-014 REVISION 1
SC				DAWKINSO	InCnt1	8/30/2010 6:13:06 PM	RL-CI-005 REVISION 1
SC				BlackCL	CalcC	9/1/2010 7:17:15 AM	RL-CI-005 REVISION 1
SC				antonsonl	Rev1C	9/3/2010 2:46:34 PM	RL-DR-001 Rev 0
AC				JorgensonD	8/30/2010 5:45:23 PM		
AC				DAWKINSO	8/30/2010 6:13:06 PM		
AC				BlackCL	9/1/2010 7:17:15 AM		
AC				antonsonl	9/3/2010 2:46:34 PM		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

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Grp Rec Cnt: 5

ICOCFractions v4.8.44

8/3/2010 9:28:30 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

AnalyDueDate: 08/30/2010 WO54 594A

AR H-3 Prp/Sep LSC005
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

Batch: 0214450 WATER pCi/L
SEQ Batch, Test: None

Rev 8/3/10

PM, Quote: SS , 57671

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 L38TW-1-AC J0G150576-1-SAMP 07/15/2010 09:19		AmtRec: VIAL20,8XLP,2X500,3X4LP #Containers: 14				Scr:	Alpha: 1.57E-03 uCi/Sa	Beta: -4.50E-04 uCi/Sa
2 L38TW-1-AX-X J0G150576-1-DUP 07/15/2010 09:19		AmtRec: VIAL20,8XLP,2X500,3X4LP #Containers: 14				Scr:	Alpha: 1.57E-03 uCi/Sa	Beta: -4.50E-04 uCi/Sa
3 L41H9-1-AA-B J0H020000-450-BLK 08/03/2010 09:28 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
4 L41H9-1-AC-C J0H020000-450-LCS 08/03/2010 09:28 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
5 L41H9-1-AD-BX J0H020000-450-MBLK 08/03/2010 09:28 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 L41H9-1-AE-CM J0H020000-450-MLCS 08/03/2010 09:28 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
7 L41H9-1-AF-BN J0H020000-450-IBLK 08/03/2010 09:28 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

8/3/2010 9:28:30 AM

Sample Preparation/Analysis

AR H-3 Prp/Sep LSC005
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

AnalyDueDate: 08/30/2010

Batch: 0214450 pCi/L
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 L41H9-1-AG-BN								
J0H020000-450-IBLK								
08/03/2010 09:28 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SS , 57671

L38TW1AC-SAMP Constituent List:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
L41H91AA-BLK:

L41H91AC-LCS:

L41H91AD-MBLK:

L41H91AE-MLCS:

L41H91AF-IBLK:

L41H91AG-IBLK:

L38TW1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
L41H91AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
L41H91AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
L41H91AD-MBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
L41H91AE-MLCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
L41H91AF-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

8/3/2010 9:28:30 AM

Sample Preparation/Analysis

AR H-3 Prp/Sep LSC005
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

Balance Id:

Pipet #:

AnalyDueDate: 08/30/2010

Sep1 DT/Tm Tech:

Batch: 0214450 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

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

L41H91AG-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

8/31/2010 12:14:30 PM

ICOC Fraction Transfer/Status Report

ByDate: 8/31/2009, 9/5/2010, Batch: '0214450', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
0214450						
AC		**Rev1C**	**NelsonT**	8/25/2010 1:22:01 PM		
SC			Wagarr	IsBatched	8/3/2010 9:31:10 AM	ICOC_RADCALC v4.8.40
SC			NelsonT	Sep1C	8/25/2010 1:22:01 PM	RL-LSC-005 REVISION 1
SC			DAWKINSO	InCnt1	8/25/2010 2:23:02 PM	RL-CI-005 REVISION 1
SC			BlackCL	CalcC	8/27/2010 5:27:59 AM	RL-CI-005 REVISION 1
SC			nortonj	Rev1C	8/31/2010 12:14:19 PM	RL-DR-001 Rev 0
AC			**DAWKINSO**	8/25/2010 2:23:02 PM		
AC			**BlackCL**	8/27/2010 5:27:59		
AC			**nortonj**	8/31/2010 12:14:19		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

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Grp Rec Cnt: 4

ICOCFractions v4.8.44

8/3/2010 9:28:28 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 08/30/2010 W05947

Batch: 0214449 WATER pCi/L PM, Quote: SS , 57671
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 L34CX-1-AC								
J0G130416-1-SAMP								
07/08/2010 10:19		AmtRec: VIAL20,4XLP,3X4LP	#Containers: 8			Scr:	Alpha: -3.59E-04 uCi/Sa	Beta: -9.31E-04 uCi/Sa
2 L34C8-1-AC								
J0G130416-2-SAMP								
07/08/2010 11:12		AmtRec: VIAL20,4XLP,3X4LP	#Containers: 8			Scr:	Alpha: 7.14E-04 uCi/Sa	Beta: -1.79E-03 uCi/Sa
3 L34DA-1-AC								
J0G130416-3-SAMP								
07/08/2010 12:13		AmtRec: VIAL20,4XLP,3X4LP	#Containers: 8			Scr:	Alpha: 1.40E-03 uCi/Sa	Beta: -2.30E-03 uCi/Sa
4 L34DA-1-AG-X								
J0G130416-3-DUP								
07/08/2010 12:13		AmtRec: VIAL20,4XLP,3X4LP	#Containers: 8			Scr:	Alpha: 1.40E-03 uCi/Sa	Beta: -2.30E-03 uCi/Sa
5 L34DD-1-AC								
J0G130416-4-SAMP								
07/08/2010 13:35		AmtRec: VIAL20,4XLP,3X4LP	#Containers: 8			Scr:	Alpha: -4.07E-04 uCi/Sa	Beta: -7.62E-05 uCi/Sa
6 L34DG-1-AC								
J0G130416-5-SAMP								
07/08/2010 09:29		AmtRec: VIAL20,4XLP,3X4LP	#Containers: 8			Scr:	Alpha: -1.71E-03 uCi/Sa	Beta: 1.12E-03 uCi/Sa
7 L34DW-1-AC								
J0G130416-6-SAMP								
07/08/2010 12:35		AmtRec: VIAL20,4XLP,3X4LP	#Containers: 8			Scr:	Alpha: 6.73E-04 uCi/Sa	Beta: -4.18E-04 uCi/Sa

8/3/2010 9:28:29 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 08/30/2010

Batch: 0214449 WATER pCi/L PM, Quote: SS , 57671
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 L34D3-1-AC J0G130416-7-SAMP 07/08/2010 10:44		AmtRec: VIAL20,4XLP,3X4LP #Containers: 8				Scr:	Alpha: -2.82E-04 uCi/Sa	Beta: 7.80E-04 uCi/Sa
9 L34D9-1-AC J0G130416-8-SAMP 07/08/2010 10:35		AmtRec: VIAL20,4XLP,3X4LP #Containers: 8				Scr:	Alpha: 1.76E-03 uCi/Sa	Beta: -2.47E-04 uCi/Sa
10 L34EG-1-AC J0G130416-9-SAMP 07/08/2010 13:31		AmtRec: VIAL20,4XLP,3X4LP #Containers: 8				Scr:	Alpha: -2.42E-04 uCi/Sa	Beta: -5.89E-04 uCi/Sa
11 L34EL-1-AC J0G130416-10-SAMP 07/08/2010 11:48		AmtRec: VIAL20,4XLP,3X4LP #Containers: 8				Scr:	Alpha: 1.38E-03 uCi/Sa	Beta: -4.66E-04 uCi/Sa
12 L34EP-1-AC J0G130416-11-SAMP 07/08/2010 12:07		AmtRec: VIAL20,4XLP,3X4LP #Containers: 8				Scr:	Alpha: -3.95E-04 uCi/Sa	Beta: 9.52E-04 uCi/Sa
13 L34ER-1-AC J0G130416-12-SAMP 07/08/2010 09:13		AmtRec: VIAL20,4XLP,3X4LP #Containers: 8				Scr:	Alpha: 1.02E-03 uCi/Sa	Beta: -4.19E-04 uCi/Sa
14 L38TW-1-AF J0G150576-1-SAMP 07/15/2010 09:19		AmtRec: VIAL20,8XLP,2X500,3X4LP #Containers: 14				Scr:	Alpha: 1.57E-03 uCi/Sa	Beta: -4.50E-04 uCi/Sa

8/3/2010 9:28:29 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: 08/30/2010

Batch: 0214449 pCi/L
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 L41H8-1-AA-B J0H020000-449-BLK 08/03/2010 09:28 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
16 L41H8-1-AC-C J0H020000-449-LCS 08/03/2010 09:28 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
17 L41H8-1-AD-BN J0H020000-449-IBLK 08/03/2010 09:28 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
18 L41H8-1-AE-BN J0H020000-449-IBLK 08/03/2010 09:28 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SS , 57671

L34CX1AC-SAMP Constituent List:
C-14 RDL:2.00E+02 pCi/L LCL:70 UCL:130 RPD:20
L41H81AA-BLK:

L41H81AC-LCS:

L41H81AD-IBLK:

8/3/2010 9:28:30 AM

Sample Preparation/Analysis

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

AnalyDueDate: 08/30/2010

Batch: 0214449 pCi/L
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:

```
L41H81AE-IBLK:

L34CX1AC-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
L41H81AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
L41H81AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
L41H81AD-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
L41H81AE-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

9/3/2010 11:28:02 AM

ICOC Fraction Transfer/Status Report

ByDate: 9/3/2009, 9/8/2010, Batch: '0214449', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
	0214449						
AC			Rev1C	NelsonT	8/30/2010 1:08:58 PM		
SC				Wagarr	IsBatched	8/3/2010 9:31:10 AM	ICOC_RADCALC v4.8.40
SC				NelsonT	Sep1C	8/30/2010 1:08:58 PM	RL-LSC-008 REVISION 1
SC				DAWKINSO	InCnt1	8/30/2010 4:03:53 PM	RL-CI-005 REVISION 1
SC				DAWKINSO	CalcC	8/31/2010 9:03:08 PM	RL-CI-005 REVISION 1
SC				antonsonl	Rev1C	9/3/2010 11:27:49 AM	RL-DR-001 Rev 0
AC				DAWKINSO	8/30/2010 4:03:53 PM		
AC				DAWKINSO	8/31/2010 9:03:08 PM		
AC				antonsonl	9/3/2010 11:27:49		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

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Grp Rec Cnt:4

ICOCFractions v4.8.44

7/24/2010 4:39:53 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
EA Chromium, Hexavalent (7196A)

AnalyDueDate: 08/30/2010

5I CLIENT: HANFORD

Batch: 0205082 WATER mg/L PM, Quote: SS , 57671

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 L38TW-1-AA J0G150576-1-SAMP 07/15/2010 09:19		AmtRec: VIAL20,8XLP,2X500,3X4LP #Containers: 14				Scr:	Alpha: 1.57E-03 uCi/Sa	Beta: -4.50E-04 uCi/Sa
2 L38TW-1-AM-S J0G150576-1-MS 07/15/2010 09:19		AmtRec: VIAL20,8XLP,2X500,3X4LP #Containers: 14				Scr:	Alpha: 1.57E-03 uCi/Sa	Beta: -4.50E-04 uCi/Sa
3 L38TW-1-AN-D J0G150576-1-MSD 07/15/2010 09:19		AmtRec: VIAL20,8XLP,2X500,3X4LP #Containers: 14				Scr:	Alpha: 1.57E-03 uCi/Sa	Beta: -4.50E-04 uCi/Sa
4 L38TW-1-AP-X J0G150576-1-DUP 07/15/2010 09:19		AmtRec: VIAL20,8XLP,2X500,3X4LP #Containers: 14				Scr:	Alpha: 1.57E-03 uCi/Sa	Beta: -4.50E-04 uCi/Sa
5 L38VP-1-AA J0G150576-2-SAMP 07/15/2010 09:19		AmtRec: 1X500MLAG #Containers: 1				Scr:	Alpha:	Beta:
6 L4M8C-1-AA-B J0G240000-82-BLK 07/24/2010 16:39 pd		AmtRec: #Containers: 1				Scr:	Alpha:	Beta:
7 L4M8C-1-AC-C J0G240000-82-LCS 07/24/2010 16:39 pd		AmtRec: #Containers: 1				Scr:	Alpha:	Beta:

7/24/2010 4:39:54 PM

Sample Preparation/Analysis

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
EA Chromium, Hexavalent (7196A)
5I CLIENT: HANFORD

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

AnalyDueDate: 08/30/2010

Batch: 0205082 mg/L
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:

Comments:

```
All Clients for Batch:
   384868, Pacific Northwest National Laboratory      Pacific Northwest National Lab,  SS , 57671

L38TW1AA-SAMP Constituent List:
  HEXCHROME   RDL:0.0037      mg/L      LCL:85      UCL:115      RPD:20
L38TW1AM-MS Constituent List:

L38TW1AN-MSD:

L4M8C1AA-BLK:

L4M8C1AC-LCS:

L38TW1AA-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
L38TW1AM-MS Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
L38TW1AN-MSD:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
L4M8C1AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
L4M8C1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
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