Analytical Data Package Prepared For

Fluor Hanford

REVISED

Entire package resubmitted

RECEIVED MAY 07 2008 EDMC

Radiochemical Analysis By

TAL Richland TARL

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

Data Package Contains 164 *Pages*

Report Nbr: 37657

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05240	S07-006	B1PYJ8	J7I270394-1	J7TTL1AA	9J7TTL10	7283544
		B1PYJ8	J7I270394-1	J7TTL1AC	9J7TTL10	7283543
		B1PYJ8	J7I270394-1	J7TTL1AD	9J7TTL10	7283552
		B1PYJ8	J7I270394-1	J7TTL1AE	9J7TTL10	7283550
		B1PYJ8	J7I270394-1	J7TTL1AF	9J7TTL10	7283551
	S07-007	B1NXJ0	J7I280282-1	J7WQC1AA	9J7WQC10	7283542
		B1NXH9	J7I280282-2	J7WQW1AA	9J7WQW10	7283542
	W07-008	B1P8V8	J7I280355-1	J7XAV1AC	9J7XAV10	7283547
		B1P8V8	J7I280355-1	J7XAV2AA	9J7XAV20	7330446
		B1P8V9	J7I280355-2	J7XAW1AC	9J7XAW10	7283547
		B1P8V9	J7I280355-2	J7XAW3AA	9J7XAW30	7330446
	I07-062	B1P5Y6	J7I290184-1	J70FG1AA	9J70FG10	7283540
	A07-009	B1PDB8	J7I290185-1	J70FQ1AA	9J70FQ10	7283543
	S07-006	B1NLC8	J7I290186-1	J70FV1AA	9J70FV10	7283542
	S07-008	B1P6V9	J7I290187-1	J70FX1AA	9J70FX10	7283562

AMENDED DATA

Comments:

RECEIVED FEB 07 2008

Rev. 1 00771162

Report Nbr: 37583

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05240	S07-008	B1P6V9	J7I290187-1	J70FX1AC	9J70FX10	7283543
		B1P6V8	J7I290187-2	J70F01AA	9J70F010	7283562
		B1P6V8	J7I290187-2	J70F01AC	9J70F010	7283543
	S07-006	B1NK72	J7J010190-1	J72DQ1AA	9J72DQ10	7283542
	S07-007	B1NXH2	J7J010192-1	J72DT1AA	9J72DT10	7283544
		B1NXH2	J7J010192-1	J72DT1AC	9J72DT10	7283543
		B1NXH2	J7J010192-1	J72DT1AE	9J72DT10	7283560
		B1NXH2	J7J010192-1	J72DT2AD	9J72DT20	7317406
		B1NXH3	J7J010192-2	J72DW1AA	9J72DW10	7283544
		B1NXH3	J7J010192-2	J72DW1AC	9J72DW10	7283543
		B1NXH3	J7J010192-2	J72DW1AD	9J72DW10	7283542
		B1NXH3	J7J010192-2	J72DW1AE	9J72DW10	7283560
	G07-009	B1PDD4	J7J020119-1	J72WL1AA	9J72WL10	7283554
		B1PDD4	J7J020119-1	J72WL1AD	9J72WL10	7283544
		B1PDD4	J7J020119-1	J72WL1AE	9J72WL10	7283550
		B1PDD4	J7J020119-1	J72WL2AC	9J72WL20	7330446
	W07-009	B1PJT5	J7J020124-1	J72XT1AA	9J72XT10	7283554
		B1PJT5	J7J020124-1	J72XT2AC	9J72XT20	7330446
		B1PJT6	J7J020124-2	J72XX1AA	9J72XX10	7283554
		B1PJT6	J7J020124-2	J72XX2AC	9J72XX20	7330446
	I07-062	B1P694	J7J020139-1	J722N1AA	9J722N10	7283543
		B1P694	J7J020139-1	J722N1AC	9J722N10	7283550
		B1P694	J7J020139-1	J722N1AD	9J722N10	7283551
	W07-008	B1P9B8	J7J020143-1	J72221AA	9J722210	7283544
		B1P9B8	J7J020143-1	J72221AC	9J722210	7283551
		B1P9B8	J7J020143-1	J72221AD	9J722210	7283540

Comments:

Report Nbr: 37583

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05240	107-061	B1P5R4	J7J020147-1	J723C1AA	9J723C10	7283543
		B1P5R1	J7J020147-2	J723E1AA	9J723E10	7283543

Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Amended Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

February 5, 2008

Attention: Steve Trent

SAF Number	:	S07-006, W07-008, S07-007, I07-062, G07-009, I07-061, S07-008, A07-009, W07-009
Date SDG Closed	:	October 1, 2007
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05240
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between September 27, 2007 and October 1, 2007 twenty water samples were received at TestAmerica Laboratories Richland (TALR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Fluor Hanford specific IDs:

PGW ID#	STLR ID#	DATE OF RECEIPT	MATRIX
B1PYJ8	J7TTL	9/27/07	WATER
B1NXJ0	J7WQC	9/28/07	WATER
B1NXH9	J7WQW	9/28/07	WATER
B1P8V8	J7XAV	9/28/07	WATER
B1P8V9	J7XAW	9/28/07	WATER
B1P5Y6	J70FG	9/28/07	WATER
B1PDB8	J70FQ	9/28/07	WATER
B1NLC8	J70FV	9/28/07	WATER
B1P6V9	J70FX	9/28/07	WATER
B1P6V8	J70F0	9/28/07	WATER
B1NK72	J72DQ	9/30/07	WATER
B1NXH2	J72DT	10/1/07	WATER
B1NXH3	J72DW	10/1/07	WATER
B1PDD4	J72WL	10/1/07	WATER
B1PJT5	J72XT	10/1/07	WATER

B1PJT6	J72XX	10/1/07	WATER
B1P694	J722N	10/1/07	WATER
B1P9B8	J7222	10/1/07	WATER
B1P5R4	J723C	10/1/07	WATER
B1P5R1	J723E	10/1/07	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 RICH-RC-5010
Uranium 234, 235 and 238 by method RICH-RC-5039
Gas Proportional Counting
Gross Alpha by method RICH-RC-5014
Gross Beta by method RICH-RC-5014
Strontium-90 by method RICH-RC-5006
Gamma Spectroscopy
Gamma Spec by method RICH-RC-5017
Iodine-129 (LL) by method RICH-RC-5025
Liquid Scintillation Counting
Technetium-99 by TEVA method RICH-RC-5065
Technetium-99 by method RICH-RC-5078
Tritium by method RICH-RC-5007
Enriched Tritium by method RICH-RC-5024
Laser Induced Phosphorimetry
Total Uranium by method RICH-RC-505

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 RICH-RC-5010:
The LCS, batch blank, sample and sample duplicate (*B1PYJ8*) results are within contractual requirements.

Uranium 234, 235 and 238 by method RICH-RC-5039:
The LCS, batch blank, sample and sample duplicate (B1NXH3) results are within contractual requirements.

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:
The LCS, batch blank, samples and sample duplicate (B1PJT6) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:
In the original analysis and its recount the LCS had a high recovery. The batch was reanalyzed with good results. Sample B1PDD4 did not meet CRDL but has results that exceed the achieved MDA. Except as noted, the LCS, batch blank, samples and sample duplicate (B1P8V9) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006
The LCS, batch blank, samples and sample duplicate (B1PDD4) results are within contractual requirements.

Gamma Spectroscopy

Gamma Spec by method RICH-RC-5017:
A volume of 1.90551 L was used for sample B1NXH3 instead of the usual 2L due to insufficient volume. The MDC for Cs-137 was achieved therefore the effect of the decreased sample volume is insignificant. U-238 was detected in sample B1P9B8 by the Th-234 lines but was not downloaded. The result is 21.23 +/- 13.67 pCi/L. Except as noted, the LCS, batch blank, samples and sample duplicate (B1NXH3) results are within contractual requirements.

Iodine-129 (LL) by method RICH-RC-5025:
The LCS, batch blank, samples and sample duplicate (B1P5R1) results are within contractual requirements.

Liquid Scintillation Counting

Technetium-99 by TEVA method RICH-RC-5065:
The LCS, batch blank, samples, sample duplicate (B1NWH6), and sample matrix spike (B1P9B8) results are within contractual requirements.

Technetium-99 by method RICH-RC-5078:
The LCS, batch blank, samples, sample duplicate (B1P9H8), and sample matrix spike (B1P8V8) results are within contractual requirements.

Tritium by method RICH-RC-5007:
The LCS, batch blank, samples and sample duplicate (B1P6V8) results are within contractual

requirements.

Enriched Tritium by method RICH-RC-5024
In the original analysis the sample and duplicate did not show agreement. They were recounted with good results. Data is accepted. Except as noted, the LCS, batch blank, samples and sample duplicate (B1NXH2) results are within contractual requirements.

Laser Induced Phosphorimetry
Total Uranium by method RICH-RC-5058:
The MS in this batch was spilled during processing. The client was notified and will accept the results based on the other QC. Except as noted, the LCS, batch blank, samples and sample duplicate (B1P9B8) 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

Sandra Seger
Project Manager

Drinking Water Method Cross References

	DRINKING WATER ASTM METHOD CROSS REFERENCES	
Referenced Method	Isotope(s)	STL Richland's SOP number
EPA 901.1	Cs-134, I-131	RICH-RC-5017
EPA 900.0	Alpha & Beta	RICH-RC-5014
EPA 00-02	Gross Alpha (Coprecipitation)	RICH-RC-5021
EPA 903.0	Total Alpha Radium (Ra-226)	RICH-RC-5027
EPA 903.1	Ra-226	RICH-RC-5005
EPA 904.0	Ra-228	RICH-RC-5005
EPA 905.0	Sr-89/90	RICH-RC-5006
ASTM D5174	Uranium	RICH-RC-5058
EPA 906.0	Tritium	RICH-RC-5007

Uncertainty Estimation

Test America 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 STL Richland.
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 STL Richland "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 STL Richland 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.

11/29/2007 12:21:31 PM

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 37583 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.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:
9J70F010	B1P6V8		MW6-SBB-A1	S07-008	W05240					09/28/2007 13:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283562	H-3	10028-17-8	7.33E+01	pCi/L	1.2E+02	1.4E+02	U	2.90E+02	100.0	906.0_H3_LSC	5.00E-03	L	10/26/2007 05:24	I
7283543	I-129L	15046-84-1	-1.89E-02	pCi/L	1.4E-01	1.4E-01	U	2.54E-01	95.9	I129LL_SEP_LEPS	3.8505E+00	L	11/13/2007 20:01	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:
9J70FG10	B1P5Y6		MW6-SBB-A1	I07-062	W05240					09/28/2007 13:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283540	Uranium	7440-61-1	2.44E+00	ug/L	2.5E-01	2.5E-01		8.34E-02		UTOT_KPA	2.513E-02	ML	11/20/2007 15:20	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:
9J70FQ10	B1PDB8		MW6-SBB-A1	A07-009	W05240					09/28/2007 11:04

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283543	I-129L	15046-84-1	1.11E-01	pCi/L	1.5E-01	1.5E-01	U	2.99E-01	100.0	I129LL_SEP_LEPS	3.9397E+00	L	11/13/2007 18:15	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:
9J70FV10	B1NLC8		MW6-SBB-A1	S07-006	W05240					09/28/2007 13:11

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283542	H-3	10028-17-8	6.96E+00	pCi/L	5.1E+00	7.6E+00	U	7.39E+00	100.0	TRITIUM_ELECT_L	1.50E-01	L	11/09/2007 22:05	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:
9J70FX10	B1P6V9		MW6-SBB-A1	S07-008	W05240					09/28/2007 08:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283562	H-3	10028-17-8	9.59E+01	pCi/L	1.2E+02	1.4E+02	U	2.95E+02	100.0	906.0_H3_LSC	5.00E-03	L	10/26/2007 04:02	I
7283543	I-129L	15046-84-1	-1.26E-01	pCi/L	1.2E-01	1.2E-01	U	1.83E-01	95.4	I129LL_SEP_LEPS	3.94E+00	L	11/13/2007 18:16	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:
9J722210	B1P9B8		MW6-SBB-A1	W07-008	W05240					09/30/2007 13:13

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283544	BE-7	13966-02-4	4.10E+00	pCi/L	2.5E+01	2.5E+01	U	4.33E+01		GAMMALL_GS	2.0001E+00	L	11/14/2007 15:02	I
7283544	CO-60	10198-40-0	4.20E+01	pCi/L	7.6E+00	7.6E+00		4.17E+00		GAMMALL_GS	2.0001E+00	L	11/14/2007 15:02	I
7283544	CS-134	13967-70-9	1.85E+00	pCi/L	2.2E+00	2.2E+00	U	4.25E+00		GAMMALL_GS	2.0001E+00	L	11/14/2007 15:02	I
7283544	CS-137	10045-97-3	6.05E-01	pCi/L	2.1E+00	2.1E+00	U	3.74E+00		GAMMALL_GS	2.0001E+00	L	11/14/2007 15:02	I

TAL Richland

rptFeadRadSummaryEdd v3.48

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.

7283544	EU-152	14683-23-9	2.22E+00	pCi/L	4.7E+00	4.7E+00	U	8.56E+00		GAMMALL_GS	2.0001E+00	L	11/14/2007	15:02	I
7283544	EU-154	15585-10-1	-1.61E+00	pCi/L	5.8E+00	5.8E+00	U	1.01E+01		GAMMALL_GS	2.0001E+00	L	11/14/2007	15:02	I
7283544	EU-155	14391-16-3	1.71E+00	pCi/L	3.8E+00	3.8E+00	U	6.63E+00		GAMMALL_GS	2.0001E+00	L	11/14/2007	15:02	I
7283544	K-40	13966-00-2	-1.64E+01	pCi/L	5.0E+01	5.0E+01	U	1.02E+02		GAMMALL_GS	2.0001E+00	L	11/14/2007	15:02	I
7283544	RU-106	13967-48-1	-1.89E+01	pCi/L	1.8E+01	1.8E+01	U	2.87E+01		GAMMALL_GS	2.0001E+00	L	11/14/2007	15:02	I
7283544	SB-125	14234-35-6	4.17E+00	pCi/L	5.1E+00	5.1E+00	U	9.27E+00		GAMMALL_GS	2.0001E+00	L	11/14/2007	15:02	I
7283551	TC-99	14133-76-7	1.66E+04	pCi/L	6.9E+01	9.8E+02		1.00E+01	100.0	TC99_ETVDSK_LS	1.2501E-01	L	11/08/2007	08:01	I
7283540	Uranium	7440-61-1	2.67E+02	ug/L	3.1E+01	3.1E+01		8.30E-02		UTOT_KPA	2.525E-02	ML	11/20/2007	15:22	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:
9J722N10	B1P694		MW6-SBB-A1	I07-062	W05240					10/01/2007 10:57

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283543	I-129L	15046-84-1	-1.40E-02	pCi/L	1.5E-01	1.5E-01	U	2.61E-01	95.9	I129LL_SEP_LEPS	3.9597E+00	L	11/13/2007 21:52	I
7283550	SR-90	10098-97-2	2.93E-01	pCi/L	2.8E-01	2.8E-01	U	5.50E-01	74.7	SRISO_SEP_PRE	1.00E+00	L	11/16/2007 06:50	I
7283551	TC-99	14133-76-7	9.16E+01	pCi/L	6.6E+00	1.1E+01		1.00E+01	100.0	TC99_ETVDSK_LS	1.2505E-01	L	11/08/2007 08:01	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:
9J723C10	B1P5R4		MW6-SBB-A1	I07-061	W05240					09/30/2007 09:27

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283543	I-129L	15046-84-1	3.87E+01	pCi/L	4.1E+00	4.1E+00		5.46E-01	94.1	I129LL_SEP_LEPS	3.8626E+00	L	11/13/2007 21:53	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:
9J723E10	B1P5R1		MW6-SBB-A1	I07-061	W05240					09/30/2007 11:34

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283543	I-129L	15046-84-1	1.34E-01	pCi/L	1.5E-01	1.5E-01	U	3.03E-01	96.5	I129LL_SEP_LEPS	3.8969E+00	L	11/13/2007 21:53	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:
9J72DQ10	B1NK72		MW6-SBB-A1	S07-006	W05240					09/30/2007 08:55

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283542	H-3	10028-17-8	9.67E+01	pCi/L	9.9E+00	2.1E+01		7.42E+00	100.0	TRITIUM_ELECT_L	1.50E-01	L	11/09/2007 22:05	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:
9J72DT10	B1NXH2		MW6-SBB-A1	S07-007	W05240					09/30/2007 10:20

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.

11/29/2007 12:21:32 PM

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 37583 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283544	BE-7	13966-02-4	-2.20E+00	pCi/L	1.3E+01	1.3E+01	U	2.34E+01		GAMMALL_GS	2.0001E+00	L	11/14/2007 11:31	I
7283544	CO-60	10198-40-0	-4.82E-01	pCi/L	1.2E+00	1.2E+00	U	2.06E+00		GAMMALL_GS	2.0001E+00	L	11/14/2007 11:31	I
7283544	CS-134	13967-70-9	1.02E+00	pCi/L	1.1E+00	1.1E+00	U	2.25E+00		GAMMALL_GS	2.0001E+00	L	11/14/2007 11:31	I
7283544	CS-137	10045-97-3	2.99E-01	pCi/L	1.1E+00	1.1E+00	U	1.99E+00		GAMMALL_GS	2.0001E+00	L	11/14/2007 11:31	I
7283544	EU-152	14683-23-9	2.14E-01	pCi/L	2.5E+00	2.5E+00	U	4.44E+00		GAMMALL_GS	2.0001E+00	L	11/14/2007 11:31	I
7283544	EU-154	15585-10-1	-2.85E-01	pCi/L	2.9E+00	2.9E+00	U	5.47E+00		GAMMALL_GS	2.0001E+00	L	11/14/2007 11:31	I
7283544	EU-155	14391-16-3	-7.78E-01	pCi/L	2.1E+00	2.1E+00	U	3.54E+00		GAMMALL_GS	2.0001E+00	L	11/14/2007 11:31	I
7283544	K-40	13966-00-2	1.18E+01	pCi/L	2.8E+01	2.8E+01	U	2.01E+01		GAMMALL_GS	2.0001E+00	L	11/14/2007 11:31	I
7283544	RU-106	13967-48-1	5.32E+00	pCi/L	8.8E+00	8.8E+00	U	1.69E+01		GAMMALL_GS	2.0001E+00	L	11/14/2007 11:31	I
7283544	SB-125	14234-35-6	1.11E+00	pCi/L	2.7E+00	2.7E+00	U	4.96E+00		GAMMALL_GS	2.0001E+00	L	11/14/2007 11:31	I
7283543	I-129L	15046-84-1	8.12E-02	pCi/L	1.4E-01	1.4E-01	U	2.69E-01	98.1	I129LL_SEP_LEPS	3.8838E+00	L	11/13/2007 20:02	I
7283560	U-234	13966-29-5	2.05E-02	pCi/L	6.1E-02	6.1E-02	U	1.61E-01	104.1	UISO_PLATE_AEA	2.0005E-01	L	11/02/2007 21:31	I
7283560	U-235	15117-96-1	2.77E-02	pCi/L	6.0E-02	6.1E-02	U	1.21E-01	104.1	UISO_PLATE_AEA	2.0005E-01	L	11/02/2007 21:31	I
7283560	U-238	U-238	8.32E-02	pCi/L	1.0E-01	1.1E-01	U	1.50E-01	104.1	UISO_PLATE_AEA	2.0005E-01	L	11/02/2007 21:31	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:
9J72DT20	B1NXH2		MW6-SBB-A1	S07-007	W05240					09/30/2007 10:20

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7317406	H-3	10028-17-8	8.36E+00	pCi/L	4.8E+00	7.0E+00		6.96E+00	100.0	TRITIUM_ELECT_L	1.50E-01	L	11/14/2007 01:47	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:
9J72DW10	B1NXH3		MW6-SBB-A1	S07-007	W05240					09/30/2007 07:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283544	BE-7	13966-02-4	1.75E+01	pCi/L	2.7E+01	2.7E+01	U	4.89E+01		GAMMALL_GS	2.0001E+00	L	11/14/2007 11:31	I
7283544	CO-60	10198-40-0	8.73E-01	pCi/L	2.4E+00	2.4E+00	U	4.53E+00		GAMMALL_GS	2.0001E+00	L	11/14/2007 11:31	I
7283544	CS-134	13967-70-9	-3.21E-01	pCi/L	2.5E+00	2.5E+00	U	4.28E+00		GAMMALL_GS	2.0001E+00	L	11/14/2007 11:31	I
7283544	CS-137	10045-97-3	-1.60E-01	pCi/L	1.9E+00	1.9E+00	U	3.43E+00		GAMMALL_GS	2.0001E+00	L	11/14/2007 11:31	I
7283544	EU-152	14683-23-9	-7.95E-01	pCi/L	5.6E+00	5.6E+00	U	9.72E+00		GAMMALL_GS	2.0001E+00	L	11/14/2007 11:31	I
7283544	EU-154	15585-10-1	-2.46E+00	pCi/L	5.7E+00	5.7E+00	U	9.84E+00		GAMMALL_GS	2.0001E+00	L	11/14/2007 11:31	I
7283544	EU-155	14391-16-3	-7.59E-01	pCi/L	4.2E+00	4.2E+00	U	6.99E+00		GAMMALL_GS	2.0001E+00	L	11/14/2007 11:31	I
7283544	K-40	13966-00-2	-7.36E+01	pCi/L	4.7E+01	4.7E+01	U	9.31E+01		GAMMALL_GS	2.0001E+00	L	11/14/2007 11:31	I
7283544	RU-106	13967-48-1	-1.66E+01	pCi/L	1.9E+01	1.9E+01	U	3.15E+01		GAMMALL_GS	2.0001E+00	L	11/14/2007 11:31	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.

11/29/2007 12:21:32 PM

TAL Richland Report

Lab Code: TARI

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 37583 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

7283544	SB-125	14234-35-6	-3.20E+00	pCi/L	5.2E+00	5.2E+00	U	8.61E+00		GAMMALL_GS	2.0001E+00	L	11/14/2007	11:31	I
7283543	I-129L	15046-84-1	-5.53E-03	pCi/L	1.2E-01	1.2E-01	U	2.17E-01	98.1	I129LL_SEP_LEPS	3.9165E+00	L	11/13/2007	20:02	I
7283542	H-3	10028-17-8	6.99E+01	pCi/L	8.7E+00	1.6E+01		7.41E+00	100.0	TRITIUM_ELECT_L	1.50E-01	L	11/09/2007	22:05	I
7283560	U-234	13966-29-5	2.08E-02	pCi/L	6.2E-02	6.2E-02	U	1.64E-01	110.6	UISO_PLATE_AEA	2.00E-01	L	11/02/2007	21:31	I
7283560	U-235	15117-96-1	3.06E-02	pCi/L	6.1E-02	6.2E-02	U	1.23E-01	110.6	UISO_PLATE_AEA	2.00E-01	L	11/02/2007	21:31	I
7283560	U-238	U-238	1.84E-02	pCi/L	6.2E-02	6.2E-02	U	1.73E-01	110.6	UISO_PLATE_AEA	2.00E-01	L	11/02/2007	21:31	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:
9J72WL10	B1PDD4		MW6-SBB-A1	G07-009	W05240					09/30/2007 11:03

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283554	ALPHA	12587-46-1	1.24E+00	pCi/L	7.5E-01	8.1E-01		9.47E-01	100.0	9310_ALPHABETA	1.394E-01	L	11/20/2007 20:03	I
7283544	BE-7	13966-02-4	1.23E+01	pCi/L	2.0E+01	2.0E+01	U	3.83E+01		GAMMALL_GS	2.0001E+00	L	11/14/2007 13:21	I
7283544	CO-60	10198-40-0	-6.06E-01	pCi/L	1.7E+00	1.7E+00	U	3.02E+00		GAMMALL_GS	2.0001E+00	L	11/14/2007 13:21	I
7283544	CS-134	13967-70-9	-5.46E-01	pCi/L	1.6E+00	1.6E+00	U	2.84E+00		GAMMALL_GS	2.0001E+00	L	11/14/2007 13:21	I
7283544	CS-137	10045-97-3	3.68E-01	pCi/L	1.5E+00	1.5E+00	U	2.77E+00		GAMMALL_GS	2.0001E+00	L	11/14/2007 13:21	I
7283544	EU-152	14683-23-9	9.93E-01	pCi/L	4.3E+00	4.3E+00	U	7.82E+00		GAMMALL_GS	2.0001E+00	L	11/14/2007 13:21	I
7283544	EU-154	15585-10-1	-1.53E+00	pCi/L	4.7E+00	4.7E+00	U	8.41E+00		GAMMALL_GS	2.0001E+00	L	11/14/2007 13:21	I
7283544	EU-155	14391-16-3	2.97E-01	pCi/L	4.4E+00	4.4E+00	U	7.60E+00		GAMMALL_GS	2.0001E+00	L	11/14/2007 13:21	I
7283544	K-40	13966-00-2	-3.80E+01	pCi/L	3.4E+01	3.4E+01	U	6.63E+01		GAMMALL_GS	2.0001E+00	L	11/14/2007 13:21	I
7283544	RU-106	13967-48-1	-8.56E-01	pCi/L	1.3E+01	1.3E+01	U	2.32E+01		GAMMALL_GS	2.0001E+00	L	11/14/2007 13:21	I
7283544	SB-125	14234-35-6	2.08E+00	pCi/L	3.8E+00	3.8E+00	U	7.14E+00		GAMMALL_GS	2.0001E+00	L	11/14/2007 13:21	I
7283550	SR-90	10098-97-2	2.46E+03	pCi/L	1.5E+01	3.5E+02		1.03E+00	80.3	SRISO_SEP_PRE	7.7001E-01	L	11/16/2007 06:25	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:
9J72WL20	B1PDD4		MW6-SBB-A1	G07-009	W05240					09/30/2007 11:03

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7330446	BETA	12587-47-2	4.47E+03	pCi/L	5.1E+01	5.7E+02		7.20E+00	100.0	9310_ALPHABETA	7.08E-02	L	11/28/2007 09:56	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:
9J72XT10	B1PJT5		MW6-SBB-A1	W07-009	W05240					10/01/2007 10:11

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283554	ALPHA	12587-46-1	8.27E+00	pCi/L	2.2E+00	3.0E+00		1.72E+00	100.0	9310_ALPHABETA	1.308E-01	L	11/20/2007 20:03	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.

TAL Richland Report

AMENDED DATA

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 37657 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37657.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:
9J72XT20	B1PJT5		MW6-SBB-A1	W07-009	W05240					10/01/2007 10:11

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7330446	BETA	12587-47-2	7.59E+03	pCi/L	4.0E+01	9.6E+02		3.88E+00	100.0	9310_ALPHABETA	9.83E-02	L	11/28/2007 10:46	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:
9J72XX10	B1PJT6		MW6-SBB-A1	W07-009	W05240					10/01/2007 10:11

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283554	ALPHA	12587-46-1	4.94E+00	pCi/L	1.7E+00	2.0E+00		1.44E+00	100.0	9310_ALPHABETA	1.252E-01	L	11/20/2007 20:03	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:
9J72XX20	B1PJT6		MW6-SBB-A1	W07-009	W05240					10/01/2007 10:11

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7330446	BETA	12587-47-2	1.02E+04	pCi/L	4.7E+01	1.5E+03		3.97E+00	100.0	9310_ALPHABETA	9.43E-02	L	11/28/2007 10:46	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:
9J7TTL10	B1PYJ8		MW6-SBB-A1	S07-006	W05240					09/27/2007 09:18

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283544	BE-7	13966-02-4	1.26E+01	pCi/L	2.3E+01	2.3E+01	U	4.27E+01		GAMMALL_GS	2.0003E+00	L	11/14/2007 11:31	I
7283544	CO-60	10198-40-0	4.11E-01	pCi/L	1.9E+00	1.9E+00	U	3.59E+00		GAMMALL_GS	2.0003E+00	L	11/14/2007 11:31	I
7283544	CS-134	13967-70-9	5.51E-01	pCi/L	1.9E+00	1.9E+00	U	3.50E+00		GAMMALL_GS	2.0003E+00	L	11/14/2007 11:31	I
7283544	CS-137	10045-97-3	1.12E+00	pCi/L	1.7E+00	1.7E+00	U	3.28E+00		GAMMALL_GS	2.0003E+00	L	11/14/2007 11:31	I
7283544	EU-152	14683-23-9	7.02E-01	pCi/L	4.8E+00	4.8E+00	U	8.44E+00		GAMMALL_GS	2.0003E+00	L	11/14/2007 11:31	I
7283544	EU-154	15585-10-1	-2.32E+00	pCi/L	6.1E+00	6.1E+00	U	1.05E+01		GAMMALL_GS	2.0003E+00	L	11/14/2007 11:31	I
7283544	EU-155	14391-16-3	7.11E-01	pCi/L	3.6E+00	3.6E+00	U	6.21E+00		GAMMALL_GS	2.0003E+00	L	11/14/2007 11:31	I
7283544	K-40	13966-00-2	-7.31E+01	pCi/L	4.6E+01	4.6E+01	U	9.17E+01		GAMMALL_GS	2.0003E+00	L	11/14/2007 11:31	I
7283544	RU-106	13967-48-1	-1.13E+01	pCi/L	1.7E+01	1.7E+01	U	2.90E+01		GAMMALL_GS	2.0003E+00	L	11/14/2007 11:31	I
7283544	SB-125	14234-35-6	2.49E-01	pCi/L	4.1E+00	4.1E+00	U	7.28E+00		GAMMALL_GS	2.0003E+00	L	11/14/2007 11:31	I
7283543	I-129L	15046-84-1	2.73E+00	pCi/L	5.0E-01	5.0E-01		3.06E-01	99.5	I129LL_SEP_LEPS	3.8978E+00	L	11/13/2007 18:15	I
7283552	PU-238	13981-16-3	0.00E+00	pCi/L	7.9E-02	7.9E-02	U	1.86E-01	94.3	PUISO_PLATE_AE	2.0002E-01	L	11/02/2007 23:10	I
7283552	PU-239	PU-239/240	0.00E+00	pCi/L	7.9E-02	7.9E-02	U	1.86E-01	94.3	PUISO_PLATE_AE	2.0002E-01	L	11/02/2007 23:10	I
7283550	SR-90	10098-97-2	1.85E+02	pCi/L	2.6E+00	2.7E+01		5.46E-01	82.4	SRISO_SEP_PRE	1.00E+00	L	11/16/2007 06:50	I
7283551	TC-99	14133-76-7	3.86E+01	pCi/L	5.3E+00	8.1E+00		9.99E+00	100.0	TC99_ETVDSK_LS	1.2502E-01	L	11/08/2007 08:01	I

14

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.

11/29/2007 12:21:32 PM

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 37583 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.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:
9J7WQC10	B1NXJ0		MW6-SBB-A1	S07-007	W05240					09/28/2007 07:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283542	H-3	10028-17-8	6.75E+01	pCi/L	8.5E+00	1.6E+01		7.45E+00	100.0	TRITIUM_ELECT_L	1.50E-01	L	11/09/2007 22:05	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:
9J7WQW10	B1NXH9		MW6-SBB-A1	S07-007	W05240					09/28/2007 09:59

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283542	H-3	10028-17-8	1.77E+01	pCi/L	5.9E+00	8.8E+00		7.39E+00	100.0	TRITIUM_ELECT_L	1.50E-01	L	11/09/2007 22:05	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:
9J7XAV10	B1P8V8		MW6-SBB-A1	W07-008	W05240					09/28/2007 13:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283547	TC-99	14133-76-7	1.18E+01	pCi/L	4.9E+00	7.0E+00		1.13E+01	100.0	TC99_SEP_LSC	1.2501E-01	L	11/08/2007 15:26	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:
9J7XAV20	B1P8V8		MW6-SBB-A1	W07-008	W05240					09/28/2007 13:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7330446	BETA	12587-47-2	1.18E+01	pCi/L	2.0E+00	2.6E+00		2.86E+00	100.0	9310_ALPHABETA	2.041E-01	L	11/28/2007 09:56	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:
9J7XAW10	B1P8V9		MW6-SBB-A1	W07-008	W05240					09/28/2007 13:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283547	TC-99	14133-76-7	7.71E+00	pCi/L	4.7E+00	6.7E+00	U	1.09E+01	100.0	TC99_SEP_LSC	1.2503E-01	L	11/08/2007 15:26	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:
9J7XAW30	B1P8V9		MW6-SBB-A1	W07-008	W05240					09/28/2007 13:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7330446	BETA	12587-47-2	8.67E+00	pCi/L	1.8E+00	2.2E+00		2.78E+00	100.0	9310_ALPHABETA	1.988E-01	L	11/28/2007 09:56	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.

AMENDED DATA

THIS PAGE INTENTIALLY LEFT BLANK

Thursday, November 29, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583 Edd

Lab Sample Id:	J8MM01AB	Sdg/Rept Nbr:	W05240	37583	Collection Date: 09/30/2007 13:13
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BLK		Received Date: 10/01/2007

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
7283540	Uranium	-8.51E-03	ug/L	1.4E-03	U	8.38E-02			UTOT_KPA	2.501E-02	11/20/2007				D
BLK	7440-61-1			1.4E-03						ML	15:12				

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, November 29, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J8MN01AB	Sdg/Rept Nbr:	W05240 37583	Collection Date:	09/30/2007 11:34
Client Id:	NA	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	BLK	Received Date:	10/01/2007

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
7283543	I-129L	2.56E-02	pCi/L	1.5E-01	U	2.73E-01	94.1		I129LL_SEP_L	3.9175E+00	11/14/2007				D
BLK	15046-84-1			1.5E-01						L	06:17				

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, November 29, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J8MN91AB	Sdg/Rept Nbr:	W05240	37583	Collection Date: 09/30/2007 07:30
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BLK		Received Date: 10/01/2007

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
7283544	BE-7	1.89E+01	pCi/L	2.8E+01	U	5.15E+01			GAMMALL_GS	2.0001E+00	11/14/2007				D
BLK	13966-02-4			2.8E+01						L	15:02				
7283544	CO-60	-1.85E+00	pCi/L	2.1E+00	U	3.48E+00			GAMMALL_GS	2.0001E+00	11/14/2007				D
BLK	10198-40-0			2.1E+00						L	15:02				
7283544	CS-134	1.36E+00	pCi/L	2.3E+00	U	4.28E+00			GAMMALL_GS	2.0001E+00	11/14/2007				D
BLK	13967-70-9			2.3E+00						L	15:02				
7283544	CS-137	1.27E+00	pCi/L	2.1E+00	U	3.89E+00			GAMMALL_GS	2.0001E+00	11/14/2007				D
BLK	10045-97-3			2.1E+00						L	15:02				
7283544	EU-152	3.53E+00	pCi/L	5.7E+00	U	1.02E+01			GAMMALL_GS	2.0001E+00	11/14/2007				D
BLK	14683-23-9			5.7E+00						L	15:02				
7283544	EU-154	1.21E+00	pCi/L	5.9E+00	U	1.10E+01			GAMMALL_GS	2.0001E+00	11/14/2007				D
BLK	15585-10-1			5.9E+00						L	15:02				
7283544	EU-155	-2.91E+00	pCi/L	4.1E+00	U	6.70E+00			GAMMALL_GS	2.0001E+00	11/14/2007				D
BLK	14391-16-3			4.1E+00						L	15:02				
7283544	K-40	-2.76E+01	pCi/L	4.9E+01	U	1.01E+02			GAMMALL_GS	2.0001E+00	11/14/2007				D
BLK	13966-00-2			4.9E+01						L	15:02				
7283544	RU-106	-1.96E+00	pCi/L	2.0E+01	U	3.59E+01			GAMMALL_GS	2.0001E+00	11/14/2007				D
BLK	13967-48-1			2.0E+01						L	15:02				
7283544	SB-125	3.36E-01	pCi/L	5.3E+00	U	9.25E+00			GAMMALL_GS	2.0001E+00	11/14/2007				D
BLK	14234-35-6			5.3E+00						L	15:02				

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, November 29, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J8MNN1AB	Sdg/Rept Nbr:	W05240 37583	Collection Date:	09/30/2007 10:20
Client Id:	NA	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	BLK	Received Date:	10/01/2007

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
7283542	H-3	5.01E+00	pCi/L	7.3E+00	U	7.45E+00	100.0		TRITIUM_ELE	1.5001E-01	11/09/2007				D
BLK	10028-17-8			4.8E+00						L	22:05				

TAL Richland

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.

Thursday, November 29, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J8MP41AB	Sdg/Rept Nbr:	W05240	37583	Collection Date: 09/30/2007 11:03
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BLK		Received Date: 10/01/2007

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
7283550	SR-90	2.53E-01	pCi/L	2.7E-01	U	5.37E-01	78.5		SRISO_SEP_P	1.00E+00	11/16/2007				D
BLK	10098-97-2			2.7E-01						L	06:50				

TAL Richland

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.

Thursday, November 29, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id: J8MP91AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05240 37583
Matrix: WATER WATER
QC Type: BLK

Collection Date: 09/30/2007 13:13
Sample On Date:
Received Date: 10/01/2007

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
7283551	TC-99	-3.12E+00	pCi/L	5.7E+00	U	1.00E+01	100.0		TC99_ETVDSK	1.2501E-01	11/08/2007				D
BLK	14133-76-7			4.0E+00						L	08:01				

TAL Richland
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.

Thursday, November 29, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J8MPQ1AB	Sdg/Rept Nbr:	W05240	37583	Collection Date: 09/28/2007 13:00
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BLK		Received Date: 09/28/2007

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
7283547	TC-99	3.27E+00	pCi/L	6.5E+00	U	1.08E+01	100.0		TC99_SEP_LS	1.2506E-01	11/08/2007				D
BLK	14133-76-7			4.5E+00						L	15:26				

TAL Richland

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.

Thursday, November 29, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J8MQC1AB	Sdg/Rept Nbr:	W05240	37583	Collection Date: 09/27/2007 09:18
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BLK		Received Date: 09/27/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CE	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
7283552	PU-238	0.00E+00	pCi/L	9.4E-02	U	2.20E-01	94.0		PUISO_PLATE	2.0002E-01	11/02/2007				D
BLK	13981-16-3			9.4E-02						L	23:11				
7283552	PU-239	-2.76E-02	pCi/L	9.7E-02	U	2.90E-01	94.0		PUISO_PLATE	2.0002E-01	11/02/2007				D
BLK	PU-239/240			9.7E-02						L	23:11				

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, November 29, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J8MQD1AB	Sdg/Rept Nbr:	W05240 37583	Collection Date:	10/01/2007 10:11
Client Id:	NA	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	BLK	Received Date:	10/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CG	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
7283554	ALPHA	2.06E-01	pCi/L	2.9E-01	U	5.55E-01	100.0		9310_ALPHAB	2.011E-01	11/21/2007				D
BLK	12587-46-1			2.8E-01						L	07:05				

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, November 29, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J8MQF2AB	Sdg/Rept Nbr:	W05240	37583	Collection Date: 09/28/2007 13:00
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BLK		Received Date: 09/28/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CI	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
7330446	BETA	2.15E+00	pCi/L	9.5E-01		1.63E+00	100.0		9310_ALPHAB	2.035E-01	11/28/2007				D
BLK	12587-47-2			9.1E-01						L	10:46				

TAL Richland

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.

Thursday, November 29, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J8MQG1AB	Sdg/Rept Nbr:	W05240	37583	Collection Date: 09/30/2007 07:30
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BLK		Received Date: 10/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CK	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
7283560	U-234	2.08E-02	pCi/L	6.2E-02	U	1.63E-01	104.3		UISO_PLATE_	2.0002E-01	11/03/2007				D
BLK	13966-29-5			6.2E-02						L	10:10				
7283560	U-235	0.00E+00	pCi/L	6.1E-02	U	1.23E-01	104.3		UISO_PLATE_	2.0002E-01	11/03/2007				D
BLK	15117-96-1			6.1E-02						L	10:10				
7283560	U-238	2.08E-02	pCi/L	6.2E-02	U	1.63E-01	104.3		UISO_PLATE_	2.0002E-01	11/03/2007				D
BLK	U-238			6.2E-02						L	10:10				

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, November 29, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J8MQJ1AB	Sdg/Rept Nbr:	W05240	37583	Collection Date: 09/28/2007 13:00
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BLK		Received Date: 09/28/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CM	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
7283562	H-3	-1.97E+01	pCi/L	1.3E+02	U	2.85E+02	100.0		906.0_H3_LSC	5.00E-03	10/25/2007				D
BLK	10028-17-8			1.2E+02						L	22:30				

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, November 29, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J8MQJ1DX	Sdg/Rept Nbr:	W05240	37583	Collection Date: 09/28/2007 13:00
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BLK		Received Date: 09/28/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CO	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
7283562	H-3	-3.38E+01	pCi/L	1.3E+02	U	3.10E+02	100.0		906.0_H3_LSC	5.00E-03	10/26/2007				D
BLK	10028-17-8			1.2E+02						L	01:16				

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, November 29, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J8MM01CS	Sdg/Rept Nbr:	W05240	37583	Collection Date: 09/30/2007 13:13
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BS		Received Date: 10/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	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
7283540	Uranium	3.55E+01	ug/L	4.2E+00		8.27E-02		3.61E+01	UTOT_KPA	2.535E-02	11/20/2007			70	D
BS	7440-61-1			4.2E+00				98.4		ML	15:16			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, November 29, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J8MM01DS	Sdg/Rept Nbr:	W05240	37583	Collection Date: 09/30/2007 13:13
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BS		Received Date: 10/01/2007

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
7283540	Uranium	3.54E+00	ug/L	3.6E-01		8.28E-02		3.58E+00	UTOT_KPA	2.531E-02	11/20/2007			70	D
BS	7440-61-1			3.6E-01				99.0		ML	15:18			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, November 29, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J8MN01CS	Sdg/Rept Nbr:	W05240	37583	Collection Date: 09/30/2007 11:34
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BS		Received Date: 10/01/2007

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
7283543	I-129L	7.11E+00	pCi/L	9.1E-01		3.04E-01	130.1	9.82E+00	I129LL_SEP_L	3.951E+00	11/14/2007			70	D
BS	15046-84-1			9.1E-01				72.4		L	06:19			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, November 29, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J8MN91CS	**Sdg/Rept Nbr:**	W05240 37583	**Collection Date:**	09/30/2007 07:30
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	10/01/2007

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
7283544	CO-60	4.38E+01	pCi/L	7.3E+00		2.33E+00		3.84E+01	GAMMALL_GS	2.0006E+00	11/14/2007			70	D
BS	10198-40-0			7.3E+00				114.0		L	15:02			130	
7283544	CS-137	5.48E+01	pCi/L	7.7E+00		2.05E+00		4.96E+01	GAMMALL_GS	2.0006E+00	11/14/2007			70	D
BS	10045-97-3			7.7E+00				110.5		L	15:02			130	
7283544	EU-152	8.99E+01	pCi/L	1.4E+01		5.62E+00		7.73E+01	GAMMALL_GS	2.0006E+00	11/14/2007			70	D
BS	14683-23-9			1.4E+01				116.3		L	15:02			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, November 29, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J8MNN1CS	Sdg/Rept Nbr:	W05240 37583	Collection Date:	09/30/2007 10:20
Client Id:	NA	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	BS	Received Date:	10/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-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
7283542	H-3	5.64E+02	pCi/L	1.0E+02		7.43E+00	100.0	4.54E+02	TRITIUM_ELE	1.5002E-01	11/09/2007			70	D
BS	10028-17-8			2.3E+01				124.4		L	22:05			130	

TAL Richland

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.

Thursday, November 29, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J8MP41CS	**Sdg/Rept Nbr:**	W05240 37583	**Collection Date:**	09/30/2007 11:03
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	10/01/2007

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
7283550	SR-90	1.58E+01	pCi/L	2.4E+00		6.05E-01	70.6	1.37E+01	SRISO_SEP_P	1.00E+00	11/16/2007			70	D
BS	10098-97-2			8.5E-01				115.0		L	06:50			130	

TAL Richland

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.

Thursday, November 29, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J8MP91CS	**Sdg/Rept Nbr:**	W05240 37583	**Collection Date:**	09/30/2007 13:13
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	10/01/2007

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
7283551	TC-99	4.62E+02	pCi/L	3.3E+01		1.00E+01	100.0	5.40E+02	TC99_ETVDSK	1.2503E-01	11/08/2007			70	D
BS	14133-76-7			1.2E+01				85.4		L	08:01			130	

TAL Richland

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.

Thursday, November 29, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J8MPQ1CS	Sdg/Rept Nbr:	W05240 37583	Collection Date:	09/28/2007 13:00
Client Id:	NA	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	BS	Received Date:	09/28/2007

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
7283547	TC-99	4.80E+02	pCi/L	3.4E+01		1.05E+01	100.0	5.40E+02	TC99_SEP_LS	1.2501E-01	11/08/2007			70	D
BS	14133-76-7			1.3E+01				89.0		L	15:26			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, November 29, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J8MQC1CS	Sdg/Rept Nbr:	W05240 37583	Collection Date:	09/27/2007 09:18
Client Id:	NA	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	BS	Received Date:	09/27/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CF	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
7283552	PU-239	4.89E+00	pCi/L	1.1E+00		1.73E-01	93.5	4.61E+00	PUISO_PLATE	2.0001E-01	11/02/2007			70	D
BS	PU-239/240			8.4E-01				106.2		L	23:12			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, November 29, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J8MQD1CS	Sdg/Rept Nbr:	W05240	37583	Collection Date: 10/01/2007 10:11
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BS		Received Date: 10/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CH	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
7283554	ALPHA	1.84E+01	pCi/L	4.6E+00		5.68E-01	100.0	2.25E+01	9310_ALPHAB	2.018E-01	11/21/2007			70	D
BS	12587-46-1			2.0E+00				81.8		L	07:05			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, November 29, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J8MQF3CS	**Sdg/Rept Nbr:**	W05240 37583	**Collection Date:**	09/28/2007 13:00
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	09/28/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CJ	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
7330446	BETA	2.33E+01	pCi/L	3.4E+00		1.75E+00	100.0	2.25E+01	9310_ALPHAB	2.003E-01	11/28/2007			70	D
BS	12587-47-2			1.7E+00				103.6		L	10:46			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, November 29, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J8MQG1CS	**Sdg/Rept Nbr:**	W05240	37583	**Collection Date:** 09/30/2007 07:30
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 10/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CL	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
7283560	U-234	1.03E+01	pCi/L	2.0E+00		1.70E-01	107.7	8.67E+00	UISO_PLATE_	2.0005E-01	11/03/2007			70	D
BS	13966-29-5			1.1E+00				118.8		L	13:47			130	
7283560	U-238	9.28E+00	pCi/L	1.8E+00		1.50E-01	107.7	9.08E+00	UISO_PLATE_	2.0005E-01	11/03/2007			70	D
BS	U-238			1.1E+00				102.2		L	13:47			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, November 29, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J8MQJ1CS	Sdg/Rept Nbr:	W05240 37583	Collection Date:	09/28/2007 13:00
Client Id:	NA	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	BS	Received Date:	09/28/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CN	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
7283562	H-3	2.25E+03	pCi/L	2.3E+02		2.88E+02	100.0	2.72E+03	906.0_H3_LSC	5.00E-03	10/25/2007			70	D
BS	10028-17-8			1.9E+02				82.9		L	23:53			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, November 29, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J8MQJ1EM	Sdg/Rept Nbr:	W05240 37583	Collection Date:	09/28/2007 13:00
Client Id:	NA	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	BS	Received Date:	09/28/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CP	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
7283562	H-3	2.11E+03	pCi/L	2.2E+02		2.93E+02	100.0	2.72E+03	906.0_H3_LSC	5.00E-03	10/26/2007			70	D
BS	10028-17-8			1.8E+02				77.8		L	02:39			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, November 29, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J70F01DR	Sdg/Rept Nbr:	W05240	37583	Collection Date: 09/28/2007 13:00
Client Id:	B1P6V8	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	DUP		Received Date: 09/28/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-008	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
7283562	H-3	1.28E+02	pCi/L	1.4E+02	U	3.11E+02	100.0		906.0_H3_LSC	5.00E-03	10/26/2007	54.7	0.6		D
DUP	10028-17-8	7.33E+01		1.3E+02						L	06:47	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, November 29, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J72221ER	**Sdg/Rept Nbr:**	W05240 37583	**Collection Date:**	09/30/2007 13:13
Client Id:	B1P9B8	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	10/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-008	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
7283540	Uranium	2.66E+02	ug/L	3.1E+01		8.32E-02			UTOT_KPA	2.52E-02	11/20/2007	.2	0.		D
DUP	7440-61-1	2.67E+02		3.1E+01						ML	15:26	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, November 29, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J72221FR	Sdg/Rept Nbr:	W05240 37583	Collection Date:	09/30/2007 13:13
Client Id:	B1P9B8	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	DUP	Received Date:	10/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-008	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
7283551	TC-99	1.59E+04	pCi/L	9.4E+02		1.00E+01	100.0		TC99_ETVDSK	1.2505E-01	11/08/2007	4.0	1.		D
DUP	14133-76-7	1.66E+04		6.8E+01						L	08:01	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, November 29, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J723E1CR	Sdg/Rept Nbr:	W05240	37583	Collection Date: 09/30/2007 11:34
Client Id:	B1P5R1	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	DUP		Received Date: 10/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I07-061	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
7283543	I-129L	1.18E-01	pCi/L	1.6E-01	U	3.04E-01	97.8		I129LL_SEP_L	3.911E+00	11/14/2007	13.1	0.1		D
DUP	15046-84-1	1.34E-01		1.6E-01						L	06:15	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, November 29, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J72DT2FR	**Sdg/Rept Nbr:**	W05240	37583	**Collection Date:** 09/30/2007 10:20
Client Id:	B1NXH2	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 10/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-007	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
7317406	H-3	2.58E+00	pCi/L	6.5E+00	U	6.95E+00	100.0		TRITIUM_ELE	1.50E-01	11/14/2007	105.8	1.3		D
DUP	10028-17-8	8.36E+00		4.5E+00						L	01:47	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, November 29, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J72DW1FR	Sdg/Rept Nbr:	W05240	37583	Collection Date: 09/30/2007 07:30
Client Id:	B1NXH3	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	DUP		Received Date: 10/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-007	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
7283544	BE-7	-1.85E+01	pCi/L	1.6E+01	U	2.48E+01			GAMMALL_GS	1.9055E+00	11/14/2007	0.0	3.2		D
DUP	13966-02-4	1.75E+01		1.6E+01						L	13:20	20.0	3		
7283544	CO-60	3.90E-01	pCi/L	1.4E+00	U	2.59E+00			GAMMALL_GS	1.9055E+00	11/14/2007	76.5	0.5		D
DUP	10198-40-0	8.73E-01		1.4E+00						L	13:20	20.0	3		
7283544	CS-134	1.19E-01	pCi/L	1.5E+00	U	2.65E+00			GAMMALL_GS	1.9055E+00	11/14/2007	0.0	0.4		D
DUP	13967-70-9	-3.21E-01		1.5E+00						L	13:20	20.0	3		
7283544	CS-137	7.99E-01	pCi/L	1.3E+00	U	2.44E+00			GAMMALL_GS	1.9055E+00	11/14/2007	299.9	1.		D
DUP	10045-97-3	-1.60E-01		1.3E+00						L	13:20	20.0	3		
7283544	EU-152	-2.03E+00	pCi/L	3.5E+00	U	5.89E+00			GAMMALL_GS	1.9055E+00	11/14/2007	0.0	0.5		D
DUP	14683-23-9	-7.95E-01		3.5E+00						L	13:20	20.0	3		
7283544	EU-154	-2.32E+00	pCi/L	3.5E+00	U	5.78E+00			GAMMALL_GS	1.9055E+00	11/14/2007	0.0	0.1		D
DUP	15585-10-1	-2.46E+00		3.5E+00						L	13:20	20.0	3		
7283544	EU-155	-5.52E-01	pCi/L	3.1E+00	U	5.34E+00			GAMMALL_GS	1.9055E+00	11/14/2007	0.0	0.1		D
DUP	14391-16-3	-7.59E-01		3.1E+00						L	13:20	20.0	3		
7283544	K-40	2.99E+00	pCi/L	2.1E+01	U	4.15E+01			GAMMALL_GS	1.9055E+00	11/14/2007	0.0	5.1		D
DUP	13966-00-2	-7.36E+01		2.1E+01						L	13:20	20.0	3		
7283544	RU-106	-1.21E+01	pCi/L	1.3E+01	U	2.05E+01			GAMMALL_GS	1.9055E+00	11/14/2007	0.0	0.5		D
DUP	13967-48-1	-1.66E+01		1.3E+01						L	13:20	20.0	3		
7283544	SB-125	-5.00E+00	pCi/L	3.6E+00	U	5.43E+00			GAMMALL_GS	1.9055E+00	11/14/2007	0.0	0.7		D
DUP	14234-35-6	-3.20E+00		3.6E+00						L	13:20	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, November 29, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J72DW1GR	Sdg/Rept Nbr:	W05240	37583	Collection Date: 09/30/2007 07:30
Client Id:	B1NXH3	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	DUP		Received Date: 10/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-007	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
7283560	U-234	1.81E-02	pCi/L	6.1E-02	U	1.70E-01	108.6		UISO_PLATE_	2.0003E-01	11/03/2007	14.2	0.1		D
DUP	13966-29-5	2.08E-02		6.1E-02						L	10:10	20.0	3		
7283560	U-235	-2.41E-03	pCi/L	6.0E-02	U	1.21E-01	108.6		UISO_PLATE_	2.0003E-01	11/03/2007	234.2	0.8		D
DUP	15117-96-1	3.06E-02		6.0E-02						L	10:10	20.0	3		
7283560	U-238	-7.24E-03	pCi/L	6.1E-02	U	1.50E-01	108.6		UISO_PLATE_	2.0003E-01	11/03/2007	460.0	0.6		D
DUP	U-238	1.84E-02		6.1E-02						L	10:10	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, November 29, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J72WL1FR	Sdg/Rept Nbr:	W05240	37583	Collection Date: 09/30/2007 11:03
Client Id:	B1PDD4	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	DUP		Received Date: 10/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
G07-009	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
7283550	SR-90	2.16E+03	pCi/L	3.1E+02		1.06E+00	89.7		SRISO_SEP_P	7.7002E-01	11/16/2007	13.1	1.4		D
DUP	10098-97-2	2.46E+03		1.4E+01						L	06:25	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, November 29, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J72XX1DR	**Sdg/Rept Nbr:**	W05240	37583	**Collection Date:** 10/01/2007 10:11
Client Id:	B1PJT6	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 10/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-009	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
7283554	ALPHA	4.47E+00	pCi/L	1.9E+00		1.42E+00	100.0		9310_ALPHAB	1.248E-01	11/20/2007	10.0	0.3		D
DUP	12587-46-1	4.94E+00		1.6E+00						L	20:03	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.

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37657.Edd

Lab Sample Id:	J7TTL1GR	**Sdg/Rept Nbr:**	W05240	37657	**Collection Date:**	09/27/2007 09:18
Client Id:	B1PYJ8	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:**	09/27/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-006	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
7283552	PU-238	7.52E-02	pCi/L	1.1E-01	U	1.80E-01	93.6		PUISO_PLATE	2.0003E-01	11/02/2007	200.0	1.		D
DUP	13981-16-3	0.00E+00		1.1E-01						L	23:11	20.0	3		
7283552	PU-239	-7.52E-03	pCi/L	7.7E-02	U	1.80E-01	93.6		PUISO_PLATE	2.0003E-01	11/02/2007	0.0	0.1		D
DUP	PU-239/240	0.00E+00		7.7E-02						L	23:11	20.0	3		

AMENDED DATA

P.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, November 29, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J7XAV1DR	Sdg/Rept Nbr:	W05240	37583	Collection Date: 09/28/2007 13:00
Client Id:	B1P8V8	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	DUP		Received Date: 09/28/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-008	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
7283547	TC-99	1.11E+01	pCi/L	6.9E+00		1.08E+01	100.0		TC99_SEP_LS	1.2501E-01	11/08/2007	5.8	0.1		D
DUP	14133-76-7	1.18E+01		4.8E+00						L	15:26	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, November 29, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J7XAW3ER	Sdg/Rept Nbr:	W05240 37583	Collection Date:	09/28/2007 13:00
Client Id:	B1P8V9	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	DUP	Received Date:	09/28/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-008	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
7330446	BETA	8.00E+00	pCi/L	2.0E+00		2.70E+00	100.0		9310_ALPHAB	2.021E-01	11/28/2007	8.1	0.5		D
DUP	12587-47-2	8.67E+00		1.8E+00						L	09:56	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, November 29, 2007

TAL Richland Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J722N1EW	Sdg/Rept Nbr:	W05240	37583	Collection Date: 10/01/2007 10:57
Client Id:	B1P694	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	MS		Received Date: 10/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I07-062	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
7283551	TC-99	3.13E+03	pCi/L	2.0E+02		1.00E+01	100.0	3.59E+03	TC99_ETVDSK	1.2501E-01	11/08/2007			60	D
MS	14133-76-7			3.1E+01				87.1		L	08:01			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.

Thursday, November 29, 2007

TAL Richland Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05240.Edd, h:\Reportdb\edd\FeadIV\Rad\37583.Edd

Lab Sample Id:	J7XAW1DW	Sdg/Rept Nbr:	W05240	37583	Collection Date: 09/28/2007 13:00
Client Id:	B1P8V9	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	MS		Received Date: 09/28/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-008	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
7283547	TC-99	3.21E+03	pCi/L	2.0E+02		1.05E+01	100.0	3.60E+03	TC99_SEP_LS	1.2503E-01	11/08/2007			60	D
MS	14133-76-7			3.1E+01				89.3		L	15:26			140	
7283547	TC-99	3.21E+03	pCi/L	2.0E+02		1.05E+01	100.0	3.60E+03	TC99_SEP_LS	1.2503E-01	11/08/2007			60	D
MS	14133-76-7			3.1E+01				89.0		L	15:26			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.

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/13/2007 5:05:51 PM

Lot No., Due Date: J7I270394; 11/15/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7283552; RPUISO Pulso by ALP

SDG, Matrix: W05240; WATER

1.0 COC

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

2.0 QC Batch

2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet? Yes ✓ No N/A

2.2 Are the QC appropriate for the analysis included in the batch? Yes ✓ No N/A

2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc? Yes ✓ No N/A

2.4 Does the Worksheets include a Tracer Vial label for each sample? Yes ✓ No N/A

3.0 QC & Samples

3.1 Is the blank results, yield, and MDA within contract limits? Yes ✓ No N/A

3.2 Is the LCS result, yield, and MDA within contract limits? Yes ✓ No N/A

3.3 Are the MS/MSD results, yields, and MDA within contract limits? Yes No N/A ✓

3.4 Are the duplicate result, yields, and MDAs within contract limits? Yes ✓ No N/A

3.5 Are the sample yields and MDAs within contract limits? Yes ✓ No N/A

4.0 Raw Data

4.1 Were results calculated in the correct units? Yes ✓ No N/A

4.2 Were analysis volumes entered correctly? Yes ✓ No N/A

4.3 Were Yields entered correctly? Yes ✓ No N/A

4.4 Were spectra reviewed/meet contractual requirements? Yes ✓ No N/A

4.5 Were raw counts reviewed for anomalies? Yes ✓ No N/A

5.0 Other

5.1 Are all nonconformances included and noted? Yes No N/A ✓

5.2 Are all required forms filled out? Yes ✓ No N/A

5.3 Was the correct methodology used? Yes ✓ No N/A

5.4 Was transcription checked? Yes ✓ No N/A

5.5 Were all calculations checked at a minimum frequency? Yes No N/A ✓

5.6 Are worksheet entries complete and correct? Yes ✓ No N/A

6.0 Comments on any No response:

First Level Review John Norton Date 11-13-7

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 728355 2
W05240

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: Cheryl A. Wilson Date: 11-14-07

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

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/14/2007 11:06:17 AM

Lot No., Due Date: J7J010192; 11/15/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7283560; RUISO Uiso by ALP

SDG, Matrix: W05240; 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 Review John Norton **Date** 11-14-7

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7283560
W05240

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: Sheryl A Adam Date: 11-15-07

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

TAL RICHLAND

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/21/2007 2:29:23 PM

Lot No., Due Date: J7J020119,J7J020124; 11/15/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7283554; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05240; WATER

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

6.0 Comments on any No response:

First Level Review [signature] Date 11/21/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7283554
W05240

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: Sheryl A Adam Date: 11-23-07

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

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/28/2007 3:46:37 PM

Lot No., Due Date: J7J020119,J7J020124,J7I280355; 11/15/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7330446; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05240; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	✓		
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used Analysis Volume => J72WL2AC 70.80<200.00 J72XT2AC 98.30<200.00 J72XX2AC 94.30<200.00 Q:VB		✓	
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK	✓		
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	✓		
8.19 Sample Specific MDC <= CRDL. MDC/MDA > CRDL => J72WL2AC BETA 7.2E+00>4.0E+00 Q:C1		✓	
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => J7XAV2AA BETA 1.2E+01 L:2.9E+00 J7XAW3AA BETA 8.7E+00 L:2.8E+00 J72WL2AC BETA 4.5E+03 L:7.2E+00 J72XT2AC BETA 7.6E+03 L:3.9E+00 J72XX2AC BETA 1.0E+04 L:4.0E+00		✓	
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => BETA OK; No Callin Level Found => BETA	✓		

8.24 Result + 3s >=0, Not Too Negative. Yes ✓ No N/A
OK

8.25 Counting Spectrum are within FWHM Limits. Yes No N/A ✓
No FWHM found in Batch Data!

8.26 Instruments have Current Calibrations. Yes No N/A

8.27 Correct Count Library Used. Yes No N/A ✓
No Count Library found in Batch Data!

8.28 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later version.) Yes No N/A

8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later version.) Yes No N/A

8.3 Comments.

8.31 Results Blank Subtracted as Appropriate. Yes ✓ No N/A
OK

First Level Review Lisa Autonson Date 11/28/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7330446

W05240

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: See NCM

Second Level Review: Sheryl A Adam Date: 11-28-07

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

Clouseau
Nonconformance Memo

TestAmerica

NCM #:	10-11342		
NCM Initiated By:	Lisa Antonson	Classification:	Anomaly
Date Opened:	11/28/2007	Status:	PMREVIEW
Date Closed:		Production Area:	Environmental - Prep
		Tests:	Beta by GPC-Sr/Y
		Lot #'s (Sample #'s):	J7I280355 (1,2), J7J020119 (1), J7J020124 (1,2), J7J100000 (557),
		QC Batches:	7283557,
Nonconformance:	Other (describe in detail)		
Subcategory:	Other (explanation required)		

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	11/28/2007	This batch had a high LCS that was verified with a recount. The batch was rerun, 7330446, with good results. Sample J72WL2AC didn't meet CRDL but has a result that exceeds the MDA achieved.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	11/28/2007	The samples were rerun.

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: 11/28/2007

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/16/2007 1:43:48 PM

Lot No., Due Date: J7J020139,J7J020119,J7I270394; 11/15/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7283550; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05240; 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?	✓		

6.0 Comments on any No response:

First Level Review John Norton Date 11-16-7

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 7L83550
W05270

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: Sheryl A Adam Date: 11-14-07

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

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/16/2007 9:14:45 AM

Lot No., Due Date: J7J020143,J7J010192,J7J020119,J7I270394; 11/15/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7283544; RGAMMA Gamma by GER

SDG, Matrix: W05240; 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:
See NCM # 10-11241 for additional information.

First Level Review Matt Lardy Date 11-16-07

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 725544
W05240

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: Sheryl A. Adams Date: 11-16-07

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

Clouseau
Nonconformance Memo

TestAmerica

NCM #:	10-11241		
NCM Initiated By:	Matt Lardy	Classification:	Anomaly
Date Opened:	11/16/2007	Status:	GLREVIEW
Date Closed:		Production Area:	Environmental - Prep
		Tests:	Gamma by GER
		Lot #'s (Sample #'s):	J7J010192 (2), J7J020143 (1),
		QC Batches:	7283544,
Nonconformance:	Other (describe in detail)		
Subcategory:	Other (explanation required)		

Problem Description / Root Cause

Name	Date	Description
Matt Lardy	11/16/2007	Customer: Hanford, PGW A volume of 1.90551 L was used for sample J72DW1AF instead of the typical 2.0 L due to insufficent sample volume supplied. The MDC for Cs-137 was achieved therefore the effect of the decreased sample volume is insignificant. U-238 was detected in sample J72221AA by the Th-234 lines but was not downloaded. The result is 21.23 +/- 13.67 pCi/L.

Corrective Action

Name	Date	Corrective Action
Matt Lardy	11/16/2007	The results will be reported.

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: 11/16/2007

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/15/2007 1:29:56 PM

Lot No., Due Date: J7I290187,J7I290185,J7J020139,J7J020147,J7J010192,J7I270394; 11/15/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7283543; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05240; WATER

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

6.0 Comments on any No response:

First Level Review Matt Lerch Date 11-15-07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7283543
W05240

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: Sheryl A Adam Date: 11-16-07

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/13/2007 4:49:27 PM

Lot No., Due Date: J7J020143,J7J020139,J7I270394; 11/15/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7283551; RTC99 Tc-99 by LSC

SDG, Matrix: W05240; WATER

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

6.0 Comments on any No response:

First Level Review John Norton **Date** 11-13-7

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7283551
W05240

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: Sheryl A Adam Date: 11-14-07

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

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/11/2007 2:04:53 PM

Lot No., Due Date:	J7I280355; 11/15/2007
Client, Site:	384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test:	7283547; RTC99 Tc-99 by LSC
SDG, Matrix:	W05240; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	✓		
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used OK	✓		
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. OK	✓		
8.17 Tracer within Control Limits. No Tracers found in Batch!			✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!			✓
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK Calc_IDL Not Calculated	✓		
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => TC-99 OK; No Callin Level Found => TC-99	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

8.26 Instruments have Current Calibrations. Yes No N/A

8.27 Correct Count Library Used. Yes No N/A ✓
No Count Library found in Batch Data!

8.28 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later versions) Yes No N/A

8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later versions) Yes No N/A

8.3 Comments:

8.31 Results Blank Subtracted as Appropriate. Yes No N/A ✓
OK

First Level Review Lisa Anderson Date 11/11/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7283547
W05240

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: Sheryl A. Adam Date: 11-12-07

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/13/2007 4:51:10 PM

Lot No., Due Date: J7I290187; 11/15/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7283562; RTRITIUM H-3 by LSC

SDG, Matrix: W05240; 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 Review John Norton Date 11-13-7

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 728/3562 W05240

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: Sheryl A. Adam Date: 11-14-07

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/15/2007 8:22:55 AM

Lot No., Due Date:	J7I290186,J7J010190,J7J010192,J7I280282; 11/15/2007
Client, Site:	384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test:	7283542; RH3EE H3EE by LSC
SDG, Matrix:	W05240; 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#10-11231

First Level Review John Norton Date 11-15-7

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7283542
W05240

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: See NCM

Second Level Review: Sherryl R Adam Date: 11-15-07

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: 10-11231
NCM Initiated By: John Norton
Date Opened: 11/15/2007
Date Closed:

Classification: **Anomaly**
Status: **CHREVIEW**
Production Area: Counting
Tests: H3EE by LSC
Lot #'s (Sample #'s): J7I280282 (1,2), J7I290186 (1), J7J010190 (1), J7J010192 (1,2), J7J100000 (542),
QC Batches: 7283542,

Nonconformance: Dups not within acceptance limits
Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
John Norton	11/15/2007	The duplicate and sample did not show acceptable agreement.

Corrective Action

Name	Date	Corrective Action
John Norton	11/15/2007	The sample and duplicate were re-counted in batch #7317406, and are both below the RDL, the data can be accepted.

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/15/2007 8:25:23 AM

Lot No., Due Date: J7J010192; 11/15/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7317406; RH3EE H3EE by LSC

SDG, Matrix: W05240; 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?	✓		

6.0 Comments on any No response:
PLease see NCM#10-11231

First Level Review John Horton **Date** 11-15-7

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7317406
W05240

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?	11-15-07 /		/
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: See NCM

Second Level Review: Sherryl A Adam Date: 11-15-07

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: 10-11231
NCM Initiated By: John Norton
Date Opened: 11/15/2007
Date Closed:

Classification: **Anomaly**
Status: **PMREVIEW**
Production Area: Counting
Tests: H3EE by LSC
Lot #'s (Sample #'s): J7I280282 (1,2), J7I290186 (1), J7J010190 (1), J7J010192 (1,2), J7J100000 (542),
QC Batches: 7283542,

Nonconformance: Dups not within acceptance limits
Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
John Norton	11/15/2007	The duplicate and sample did not show acceptable agreement.

Corrective Action

Name	Date	Corrective Action
John Norton	11/15/2007	The sample and duplicate were re-counted in batch #7317406, and are both below the RDL, the data can be accepted.

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

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/21/2007 1:24:27 PM

Lot No., Due Date:	J7I290184,J7J020143; 11/15/2007
Client. Site:	384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test:	7283540; RUNAT UNat by KPA
SDG, Matrix:	W05240; WATER

1.0 COC

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

2.0 QC Batch

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

3.0 QC & Samples

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

4.0 Raw Data

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

5.0 Other

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

5.0 Comments on any No response:

NCM 10-11287

First Level Review Lisa Anderson Date 11/21/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7283540
W05240

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: See NCM

Second Level Review: Sheryl A. Adam Date: 11-23-07

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

Clouseau
Nonconformance Memo

TestAmerica

NCM #:	10-11287		
NCM Initiated By:	Lisa Antonson	Classification:	**Deficiency**
Date Opened:	11/21/2007	Status:	**PMREVIEW**
Date Closed:		Production Area:	Environmental - Sep
		Tests:	UNat by KPA
		Lot #'s (Sample #'s):	J7I290184 (1), J7J020143 (1), J7J100000 (540),
		QC Batches:	7283540,
Nonconformance:	Other (describe in detail)		
Subcategory:	Other (explanation required)		

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	11/21/2007	The MS in this Unat batched was spilled during processing.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	11/21/2007	The client was contacted and will accept the batch based on the other acceptable QC.

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7I270394 W05240 DUE 11-12-07 J7TTL

C.O.C. # S07-006-30

Page 1 of 1

Collector: Kevin Patterson, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JUNE 2007	HAF-N-506-7	Ice Chest No.: ERC-1 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NKB9		W	9-27-07	0918	1x20-mL P	Activity Scan	None
B1NKB9		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1NKB9		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1NKB9		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1NKB9		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1NKB9		W			1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	HNO3 to pH <2

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Kevin Patterson, Fluor Hanford	SEP 27 2007 1445	Dave Williamson, Fluor Hanford	SEP 27 2007 1445
Dave Williamson	9/27/07 1500	L J LANE TAL-R	9-27-07 1500

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

RAT RICHLAND

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

DUE 11-12-07

Date/Time Received: 9-27-07 1520

Client: PGW SDG #: W05240 NA[ ] SAF #: S07-006 NA [ ]

Work Order Number: J7I270394 Chain of Custody # S07-006-30

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ___ Tape
   - ✓ Custody Seals
   - ✓ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ___ Broken
   - ___ Leaking
   - ___ Have Air Bubbles
   (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 9-27-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7I280282 W05240 Due 11/12/07

C.O.C. # S07-007-149

Page 1 of 1

Collector: Fluor Hanford K. E. HULSE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-007	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JULY 2007	HNF-N-506-5	Ice Chest No. Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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 ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NXJ0		W	9/28/07	0730	1x20-mL P	Activity Scan	None
B1NXJ0		W	↓	↓	3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None
						J7WQC	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford K. E. HULSE			SEP 28 2007 1243	J. Heirich			SEP 28 2007 1243
J Heirich			9/28/07 1245	S. Smith			09.28.07 1245

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

TAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

JTI280282 WO5240 Due 11/12/07

C.O.C. # S07-007-148

Page 1 of 1

Collector: Hanford, B. HULSE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-007	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JULY 2007	HNF-N-506-5	Ice Chest No. Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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 ☐

All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.

WSCF: Batch all GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NXH9		W	9/28/07	0959	1x20-mL P	Activity Scan	None
B1NXH9		W	↓	↓	3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None
						JTWQW	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Hanford, B. HULSE			SEP 28 2007 1243	S. Smith	J. Henrick		SEP 28 2007 1243
J. Henrick			9/28/07 1245	S. Smith			09-28-07 1245

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 09-28-07 1245

Client: PGW SDG #: W05240 NA[ ] SAF #: 807-007 NA [ ]

Work Order Number: J7I280282 Chain of Custody # 807-007-148,149

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ____ Custody Seals
   - ____ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles
   (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 09-28-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7I280355 W05240 Due 11.12.07

C.O.C. # W07-008-689

Page 1 of 1

Collector: Steve Overdahl, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W07-008	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, AUGUST 2007	HNF-N-506 10	Ice Chest No.: STING 1 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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 ☐

All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
All SDG?s are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1P8V8		W	9-28-07	1300	1x20-mL P	Activity Scan	None
B1P8V8		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
B1P8V8		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
						J7XAV	

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Steve Overdahl, Fluor Hanford	SEP 28 2007 1350	FM HALL	SEP 28 2007 1350
FM HALL	9-28-07 1435	S. Smith	9-28-07 1435

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

TAL RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W07-008-690
	J7I280355 W05240 Due 11 12 07	Page 1 of 1

Collector: ~~Steve Overdahl~~ Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W07-008	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, AUGUST 2007	HNF-N-506 10	Ice Chest No.: 0 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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 ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
All SDG?s are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1P8V9		W	9-28-07	1300	1x20-mL P	Activity Scan	None
B1P8V9		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
B1P8V9		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
						J7XAW	

Relinquished By	Date/Time	Received By	Date/Time
Steve Overdahl Fluor Hanford (Print) (Sign)	SEP 28 2007 1350	FM HALL (Print) (Sign)	SEP 28 2007 1350
FM HALL	9-28-07 1435	S. Smith	9-28-07 1435

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 09-28-07 1435

Client: PGW SDG #: W05240 NA[ ] SAF #: W07-008 NA [ ]

Work Order Number: JTI280355 Chain of Custody # W07-008-689, 690

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - _____ Tape
   - _____ Custody Seals
   - _____ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - _____ Broken
   - _____ Leaking
   - _____ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 09-28-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7I290184 W05240 Due 11-12-07

C.O.C. # I07-062-306

Page 1 of 1

Collector: Steve Overdahl, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: 107-062	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2ZP1-LOI, AUGUST 2007	HNF-N-506 10	Ice Chest No.: STING 1 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.

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 ☐

All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.

WSCF: Batch all GW samples submitted into one SDG, daily closure.

All SDG's are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1P5Y6		W	9-28-07	1300	1x20-mL P	Activity Scan	None
B1P5Y6		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						J70FG	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Steve Overdahl, Fluor Hanford			SEP 2 8 2007 1355	FM HALL			SEP 2 8 2007 1355
FM HALL			9-28-07 1435	S. Smith		S. Smith	9-28-07 1435

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 09.28.07 1435

Client: PGW SDG #: W05240 NA[ ] SAF #: I07-062 NA [ ]

Work Order Number: JTI090184 Chain of Custody # I07-062-306

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   _____ Tape
   _____ Custody Seals
   _____ Hazard Lables
   ___✓___ Appropriate Sample Lables
9. Samples are:
   ___✓___ In Good Condition
   _____ Broken
   _____ Leaking
   _____ Have Air Bubbles
   (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: L. Smith Date: 09.28.07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TAL RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST JTI290185 W05240 Due 111207	C.O.C. # A07-009-19 Page 1 of 1

Collector: Steve Overdahl, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: A07-009	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: LLWMA(3)-PA, SEPTEMBER 2007	HNF-N-506 10	Ice Chest No.: STING 1 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: Other	Priority: 45 Days	Offsite Property No.

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 ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
All SDG?s are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PDB8		W	9-28-07	1104	1x20-mL P	Activity Scan	None
B1PDB8		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						J70FQ	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Steve Overdahl, Fluor Hanford			SEP 28 2007 1350	Fay Hall			SEP 28 2007 1350
Fay Hall			9-28-07 1435	S. Smith		S. Smith	9-28-07 1435

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

101

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 09.28.07 1435

Client: PGW SDG #: W05240 NA[ ] SAF #: A07-009 NA [ ]

Work Order Number: J7I290185 Chain of Custody # A07-009-19

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ____ Custody Seals
   - ____ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 09.28.07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TAL RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J7I290186 W05240 Due 11.12.07	C.O.C. # S07-006-370 Page 1 of 1

Collector: Dave Williamson Fluor Hanford	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. S07-006	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURV, JUNE 2007	HHF-N-506-11	Ice Chest No. #56 Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol SURV	Priority: 45 Days	Offsite Property No.

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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NLC8		W	9/28/7	1311	1x20-mL P	Activity Scan	None
B1NLC8		W	↓	↓	3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None
						J70FV	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Dave Williamson Fluor Hanford	Dave Hill	SEP 28 2007	1350	FM Hall		SEP 28 2007	1350
Relinquished By FM Hall			Date/Time 1435 9-28-07	Received By S. Smith	S. Smith		Date/Time 1435 9-28-07
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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 09-28-07 1435

Client: PGW SDG #: W05240 NA[ ] SAF #: 507-006 NA [ ]

Work Order Number: J7I290186 Chain of Custody # 507-006-370

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - _____ Tape
   - _____ Custody Seals
   - _____ Hazard Lables
   - 1 Appropriate Sample Lables
9. Samples are:
   - 1 In Good Condition
   - _____ Broken
   - _____ Leaking
   - _____ Have Air Bubbles
   (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: L. Smith Date: 09-28-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7I 290187 W05240 Due 11-12-07

C.O.C. # S07-008-19

Page 1 of 1

Collector: ~~Steve Overdahl~~ Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-008	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, AUGUST 2007	HNF-N-506 10	Ice Chest No: STING 1 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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 ☐

All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
All SDG?s are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1P6V9		W	9-28-07	08:00	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1P6V9		W	↓	↓	1x20-mL P	Activity Scan	None
B1P6V9		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						J70FX	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
~~Steve Overdahl~~ Fluor Hanford			SEP 28 2007 1350	FM Hall			SEP 28 2007 1350
FM Hall			9-28-07 1435	S. Smith		S. Smith	9-28-07 1435

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

105

TAL RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S07-008-18
	J7I290187 W05240 Due 11-12-07	Page 1 of 1

Collector: ~~Steve Overdahl~~ Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-008	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, AUGUST 2007	HNF-N-506 10	Ice Chest No.: STING 1 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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 ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
All SDG?s are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1P6V8		W	9-28-07	1200	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1P6V8		W	↓	↓	1x20-mL P	Activity Scan	None
B1P6V8		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						J70F0	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Steve Overdahl Fluor Hanford			SEP 2 8 2007 1350	FM Hall			SEP 2 8 2007 1350
FM Hall			9-28-07 1435	S. Smith		S. Smith	9-28-07 1435

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

106

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 09.28.07 1435

Client: PGW SDG #: W05240 NA[ ] SAF #: 807.008 NA [ ]

Work Order Number: JTI290 187 Chain of Custody # 807-008-19

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   _____ Tape
   _____ Custody Seals
   _____ Hazard Lables
   ✓ Appropriate Sample Lables
9. Samples are:
   ✓ In Good Condition
   _____ Broken
   _____ Leaking
   _____ Have Air Bubbles
   (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: S. Smith Date: 09.28.07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

FAL RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J7J010190 W05240 Due 11-15-07	C.O.C. # S07-006-432 Page 1 of 1

Collector: Steve Overdahl, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JUNE 2007	HNF-N-506 10	Ice Chest No: GRP-03-09 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NK72		W	9-30-07	0855	1x20-mL P	Activity Scan	None
B1NK72		W	↓	↓	3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None
						J72DQ	

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Steve Overdahl, Fluor Hanford	9-30-07 1440 OCT 0 1 2007 SEP 30 2007	Dave Williamson, Fluor Hanford	9-30-07 1650 OCT 0 1 2007 SEP 30 2007
Dave Williamson, Fluor Hanford	OCT 0 1 2007	S. Smith	1440 OCT 0 1 2007

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 10·01·07 1440

Client: PGW SDG #: W05240 NA[ ] SAF #: S07-006 NA [ ]

Work Order Number: JRI010190 Chain of Custody # S07-006-432

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - _____ Tape
   - _____ Custody Seals
   - _____ Hazard Lables
   - 1 Appropriate Sample Lables
9. Samples are:
   - 1 In Good Condition
   - _____ Broken
   - _____ Leaking
   - _____ Have Air Bubbles
   (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: L. Smith Date: 10·01·07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TAL RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST JTJ010192 WO5240 Due 11-15-07	C.O.C. # S07-007-134 Page 1 of 1

Collector Dave Williamson Fluor Hanford	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. S07-007	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURV. JULY 2007	HHF-N-506-5	Ice Chest No. ERC1 Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol SURV	Priority: 45 Days	Offsite Property No.

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 ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NXH2		W	9/30/7	1020	1x20-mL P	Activity Scan	None
B1NXH2		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1NXH2		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1NXH2		W			3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None
B1NXH2		W			1x1000-mL G/P	UISO_PLATE_AEA: List-1 (3)	HNO3 to pH <2
						JT20T	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Dave Williamson Fluor Hanford	Dave Williamson	Dave Williamson	1440 OCT 0 1 2007	S. Smith	S. Smith	S. Smith	1440 OCT 0 1 2007
Relinquished By			Date/Time	Received By			Date/Time
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

TAL RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S07-007-135
	JPS010192 W05240 Due 11-15-07	Page 1 of 1

Collector: Dave Williamson, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-007	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JULY 2007	HNF-N-506-5	Ice Chest No.: ERC 1 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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 ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NXH3		W	9/30/07	0730	1x20-mL P	Activity Scan	None
B1NXH3		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1NXH3		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1NXH3		W			3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None
B1NXH3		W			1x1000-mL G/P	UISO_PLATE_AEA: List-1 (3)	HNO3 to pH <2
						J72DW	

Relinquished By: Dave Williamson, Fluor Hanford — Print / Sign	Date/Time: 1440 OCT 01 2007	Received By: S. Smith — Print / Sign	Date/Time: 1440 OCT 01 2007
Relinquished By	Date/Time	Received By	Date/Time
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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 10·01·07 1440

Client: PBW SDG #: W05240 NA[ ] SAF #: 507-007 NA [ ]

Work Order Number: JJJ010192 Chain of Custody # 507-007-134

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ____ Custody Seals
   - ____ Hazard Lables
   - 1 Appropriate Sample Lables
9. Samples are:
   - 1 In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: L. Smith Date: 10·01·07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TAL RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST JJ020119 W05240 Due 11-15-07	C.O.C. # G07-009-11 Page 1 of 1

Collector: F. H. Hall, Fluor Hanford Inc	Contact/Requester: Steve Trent	Telephone No.: 509373-5869 MSIN FAX
SAF No.: G07-009	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 1NR2-RB, SEPTEMBER 2007	HNF-N-506 11	Ice Chest No.: GRP-03-019 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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 ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
All SDG?s are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PDD4		W	9/30/07	1103	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1PDD4		W	↓	↓	1x20-mL P	Activity Scan	None
B1PDD4		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1PDD4		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						JJ2WL	

Relinquished By	Date/Time	Received By	Date/Time
Print: F. H. Hall, Fluor Hanford Inc; Sign: [signature]	OCT 01 2007 1050	Print: Dave Williamson, Fluor Hanford; Sign: [signature]	OCT 01 2007 1050
Print: Dave Williamson, Fluor Hanford; Sign: [signature]	OCT 01 2007 1440	Print: S. Smith; Sign: S. Smith	OCT 01 2007 1440

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 10·01·07 1440

Client: PGW SDG #: W05240 NA[ ] SAF #: G07·009 NA [ ]

Work Order Number: JTJ020119 Chain of Custody # G07·009-11

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ____ Custody Seals
   - ____ Hazard Lables
   - 1 Appropriate Sample Lables
9. Samples are:
   - 1 In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: L. Smith Date: 10·01·07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

FAL RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J7J020124 W05240 Due 11-15-07	C.O.C. # W07-009-324 Page 1 of 1

Collector: Fluor Hanford K.B. HULSE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W07-009	Sampling Origin: Hanford Site HNF-N-506-5	Purchase Order/Charge Code
Project Title: RCRA, SEPTEMBER 2007		Ice Chest No. Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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 ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
All SDG?s are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PJT5		W	10/1/07	1011	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1PJT5		W	10/1/07	1011	1x20-mL P	Activity Scan	None
						J72XT	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford	K.B. HULSE		OCT 01 2007 1020	Fluor Hanford	Kevin Patterson		OCT 01 2007 1026
Fluor Hanford	Kevin Patterson		OCT 01 2007 1440				1440 10-01-07

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

115

FINAL RECEIVED

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W07-009-325
		Page 1 of 1

Collector: Fluor Hanford K. B. HULSE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W07-009	Sampling Origin: Hanford Site HNF-N-506-5	Purchase Order/Charge Code
Project Title: RCRA, SEPTEMBER 2007		Ice Chest No. Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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 ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
All SDG?s are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PJT6		W	10/1/07	1011	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1PJT6		W	10/1/07	1011	1x20-mL P	Activity Scan	None
						J72XX	

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Fluor Hanford K. B. HULSE	OCT 0 1 2007 1020	Kevin Patterson Fluor Hanford	OCT 0 1 2007 1020
Kevin Patterson Fluor Hanford	OCT 0 1 2007 1440	S. Smith	10-01-07 1440
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 = 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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 10·01·07 1440

Client: PGW SDG #: W05240 NA[ ] SAF #: W07-009 NA [ ]

Work Order Number: _____ Chain of Custody # W07-009-324

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [✓] Yes [X] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [X] No [ ]
3. Chain of Custody record present? NA [ ] Yes [X] No [ ]
4. Cooler Temperature: _____ NA [X] 5. Vermiculite/packing materials is NA [X] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? NA [X] Yes [ ] No [ ]
8. Samples have:
   _____ Tape
   _____ Custody Seals
   _____ Hazard Lables
   ✓ Appropriate Sample Lables
9. Samples are:
   ✓ In Good Condition
   _____ Broken
   _____ Leaking
   _____ Have Air Bubbles
   (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: S. Smith Date: 10·01·07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J020139 W05240 Due 11/15/07

C.O.C. # I07-062-130

Page 1 of 1

Collector: D. WALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: 107-062	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2ZP1-LOI AUGUST 2007	HNF-N-506-10	Ice Chest No. Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.

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 ☐

All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.

WSCF: Batch all GW samples submitted into one SDG, daily closure.

All SDG?s are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1P694		W	10/1/07	1057	1x20-mL P	Activity Scan	None
B1P694		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1P694		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1P694		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

J722N

R. Wall 10/1/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. WALL		R.D. Wall	OCT 01 2007 1440			S. Sm Yh	OCT 01 2007 1440
Relinquished By			Date/Time	Received By			Date/Time
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 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

118

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 10·01·07 1440

Client: Pow SDG #: W05240 NA[ ] SAF #: I07-062 NA [ ]

Work Order Number: J7J020139 Chain of Custody # I07-062-130

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ____ Custody Seals
   - ____ Hazard Lables
   - 1 Appropriate Sample Lables
9. Samples are:
   - 1 In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles
   (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: S. Smith Date: 10·01·07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7I020143 W05240 Due 11-15-07

C.O.C. # W07-008-49

Page 1 of 1

Collector: Josh Herrick, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W07-008	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, AUGUST 2007	HNF-IN-506-7	Ice Chest No.: GRP-03-019 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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 ☐

All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.

WSCF: Batch all GW samples submitted into one SDG, daily closure.

All SDG?s are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1P9B8		W	9-30-07	1313	1x20-mL P	Activity Scan	None
B1P9B8		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1P9B8		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1P9B8		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

J7222

Relinquished By	Print/Sign	Date/Time	Received By	Print/Sign	Date/Time
Josh Herrick, Fluor Hanford		OCT 01 2007 1050	Dave Williamson, Fluor Hanford		OCT 01 2007 1050
Dave Williamson, Fluor Hanford		OCT 01 2007 1440	S. Smith		OCT 01 2007 1440

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 10·01·07 1440

Client: PGW SDG #: W05240 NA[ ] SAF #: W07-008 NA [ ]

Work Order Number: JTJ020143 Chain of Custody # W07-008-49

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ____ Custody Seals
   - ____ Hazard Lables
   - 1 Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: L. Smith Date: 10·01·07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J020147 W05240 Due 11-15-07

C.O.C. # I07-061-131

Page 1 of 1

Collector: Josh Herrick, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I07-061	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2UPI-LOI, AUGUST 2007	HNF-IN-506-7	Ice Chest No.: ERC 1 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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 ☐

All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
All SDG?s are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1P5R4		W	9-30-07	0927	1x20-mL P	Activity Scan	None
B1P5R4		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						J723C	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Josh Herrick, Fluor Hanford			9/30/07 SEP 30 2007	Dave Williamson, Fluor Hanford			OCT 01 2007 1050 9/30/07 SEP 30 2007
Dave Williamson, Fluor Hanford			OCT 01 2007 1440	S. Smith			OCT 01 2007 1440

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

JTJ030147 W05240 Due 11.15.07

C.O.C. # I07-061-125

Page 1 of 1

Collector: ~~Josh Henrick~~ ~~Fluor Hanford~~	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I07-061	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2UP1-LOL AUGUST 2007	HNF-N-506 7	Ice Chest No. ERC1 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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 ☐

All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.

WSCF: Batch all GW samples submitted into one SDG, daily closure.

All SDG's are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1P5R1		W	9-30-07	1134	1x20-mL P	Activity Scan	None
B1P5R1		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

J723E

Relinquished By	Date/Time	Received By	Date/Time
~~Josh Henrick~~ ~~Fluor Hanford~~ Print / Sign	OCT 0 1 2007 1050	Dave Williamson ~~Fluor Hanford~~ Print / Sign	OCT 0 1 2007 1050
Dave Williamson ~~Fluor Hanford~~	OCT 0 1 2007 1440		OCT 0 1 2007 1440

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 10·01·07 1440

Client: PGW SDG #: W05240 NA[ ] SAF #: I07-061 NA [ ]

Work Order Number: JTJ020147 Chain of Custody # I07-061-131

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ____ Custody Seals
   - ____ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: L. Smith Date: 10·02·07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TAL RICHLAND

10/31/2007 6:09:42 AM

Sample Preparation/Analysis

Balance Id:1120373922

384868. Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

6D Pu PrpRC5016, SepRC5010(5039)
SO Plutonium-238,239/40 by Alpha Spec
5I CLIENT: HANFORD

Pipet #:

AnalyDueDate: 11/15/2007

Sep1 DT/Tm Tech:

Batch: 7283552 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WoodT

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J7TTL-1-AD J7I270394-1-SAMP 09/27/2007 09:18		200.02g,in AmtRec: VIAL20,500MLP,4XLP,3X4LP #Containers: 9	PUTC10913 08/22/07,pd 03/13/07,r	200		Scr:	Alpha: -2.03E-03 uCi/Sa	Beta: 3.08E-03 uCi/Sa
2 J7TTL-1-AG-X J7I270394-1-DUP 09/27/2007 09:18		200.03g,in AmtRec: VIAL20,500MLP,4XLP,3X4LP #Containers: 9	PUTC10914 08/22/07,pd 03/13/07,r			Scr:	Alpha: -2.03E-03 uCi/Sa	Beta: 3.08E-03 uCi/Sa
3 J8MQC-1-AA-B J7J100000-552-BLK 09/27/2007 09:18		200.02g,in AmtRec:	PUTC10915 08/22/07,pd 03/13/07,r #Containers: 1			Scr:	Alpha:	Beta:
4 J8MQC-1-AC-C J7J100000-552-LCS 09/27/2007 09:18		200.01g,in AmtRec:	PUSG0942 08/22/07,pd 03/13/07,r #Containers: 1			Scr:	Alpha:	Beta:

128 / 129 / 131 / 132

Comments: pH <2.0 10/31/07 JSW

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

J7TTL1AD-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						

J8MQC1AA-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						

J8MQC1AC-LCS:

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

10/31/2007 6:09:48 AM

Sample Preparation/Analysis

6D Pu PrpRC5016, SepRC5010(5039)
SO Plutonium-238,239/40 by Alpha Spec
5I CLIENT: HANFORD

Balance Id:1120373922

Pipet #: _____

AnalyDueDate: 11/15/2007

Sep1 DT/Tm Tech:

Batch: 7283552 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WoodT

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

```
J7TTL1AD-SAMP Calc Info:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J8MQC1AA-BLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J8MQC1AC-LCS:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

TAL RICHLAND

10/31/2007 10:10:02 AM

Sample Preparation/Analysis

Balance Id:1120373922

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

7Y Uiso PrpRC5016/5086, SepRC5067(5039)
SR Uranium-234,235,238 by Alpha Spec

Pipet #: ___

AnalyDueDate: 11/15/2007

5I CLIENT: HANFORD

Sep1 DT/Tm Tech:

Batch: 7283560 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WoodT

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J72DT-1-AE J7J010192-1-SAMP 09/30/2007 10:20		AmtRec: 20ML,4XLP,3X4LP	200.05g,in #Containers: 8	200.05g	UITC18642 10/25/07,pd 01/20/04,r	200	Scr:	Alpha: -3.39E-03 uCi/Sa	Beta: 2.56E-03 uCi/Sa	
2 J72DW-1-AE J7J010192-2-SAMP 09/30/2007 07:30		AmtRec: 20ML,4XLP,3X4LP	200.00g,in #Containers: 8	200.00g	UITC18643 10/25/07,pd 01/20/04,r		Scr:	Alpha: -2.91E-03 uCi/Sa	Beta: 1.87E-03 uCi/Sa	
3 J72DW-1-AG-X J7J010192-2-DUP 09/30/2007 07:30		AmtRec: 20ML,4XLP,3X4LP	200.03g,in #Containers: 8	200.03g	UITC18644 10/25/07,pd 01/20/04,r		Scr:	Alpha: -2.91E-03 uCi/Sa	Beta: 1.87E-03 uCi/Sa	
4 J8MQG-1-AA-B J7J100000-560-BLK 09/30/2007 07:30		AmtRec:	200.02g,in #Containers: 1	200.02g	UITC18645 10/25/07,pd 01/20/04,r		Scr:	Alpha:	Beta:	
5 J8MQG-1-AC-C J7J100000-560-LCS 09/30/2007 07:30		AmtRec:	200.05g,in #Containers: 1	200.05g	UISG1528 10/25/07,pd 01/20/04,r		Scr:	Alpha:	Beta:	

Comments: pH<2.0 [illegible] 10/31/07

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

J72DT1AE-SAMP Constituent List:

U-232	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	U-234	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:

10/31/2007 10:10:08 AM

Sample Preparation/Analysis

7Y Uiso PrpRC5016/5086, SepRC5067(5039)
SR Uranium-234,235,238 by Alpha Spec
5I CLIENT: HANFORD

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

AnalyDueDate: 11/15/2007

Batch: 7283560 pCi/L
SEQ Batch, Test: None

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

```
 U-235        RDL:1.00E+00   pCi/L   LCL:      UCL:      RPD:      U-238      RDL:1.00E+00   pCi/L   LCL:      UCL:      RPD:

J8MQG1AA-BLK:
 U-232        RDL:           pCi/L   LCL:20    UCL:105   RPD:20    U-234      RDL:1.00E+00   pCi/L   LCL:      UCL:      RPD:
 U-235        RDL:1.00E+00   pCi/L   LCL:      UCL:      RPD:      U-238      RDL:1.00E+00   pCi/L   LCL:      UCL:      RPD:

J8MQG1AC-LCS:
 U-232        RDL:           pCi/L   LCL:20    UCL:105   RPD:20    Uranium    RDL:           pCi/L   LCL:70    UCL:130   RPD:20

J72DT1AE-SAMP Calc Info:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
J8MQG1AA-BLK:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
J8MQG1AC-LCS:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

Approved By _____ Date: _____

TAL RICHLAND

11/20/2007 8:22:10 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AZ Gross Alpha PrpRC5014
S7 Gross Alpha by GPC using Am-241 curve
5I CLIENT: HANFORD

Pipet #: 235

AnalyDueDate: 11/15/2007 WO5240

Sep1 DT/Tm Tech:

Batch: 7283554 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7283544 AWTA, 7283550 CLTL, 7283554 AZS7, 7283557 BCS8.

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 J72WL-1-AA J7J020119-1-SAMP 09/30/2007 11:03		139.40g,in AmtRec: 20ML,4XLP,4LP #Containers: 6		1.5	15.8 100	~~100~~ 50 min 11/20/07	10F	2054	11/20/07	Scr: Alpha: 8.73E-04 uCi/Sa Beta: 1.02E-02 uCi/Sa 7.1E-02L
2 J72XT-1-AA J7J020124-1-SAMP 10/01/2007 10:11		130.80g,in AmtRec: 20ML,LP #Containers: 2			38.4	100	10A			Scr: Alpha: 9.42E-04 uCi/Sa 1.9E-01L Beta: 7.41E-05 uCi/Sa
3 J72XX-1-AA J7J020124-2-SAMP 10/01/2007 10:11		125.20g,in AmtRec: 20ML,LP #Containers: 2			29.2		10B			Scr: Alpha: 7.42E-04 uCi/Sa 2.4E-01L Beta: -1.26E-05 uCi/Sa
4 J72XX-1-AD-X J7J020124-2-DUP 10/01/2007 10:11		124.80g,in AmtRec: 20ML,LP #Containers: 2			30.4		10D			Scr: Alpha: 7.42E-04 uCi/Sa 2.4E-01L Beta: -1.26E-05 uCi/Sa
5 J8MQD-1-AA-B J7J100000-554-BLK 10/01/2007 10:11		201.10g,in AmtRec: #Containers: 1			0.4		11F	0756	11/21/07	Scr: Alpha: Beta:
6 J8MQD-1-AC-C J7J100000-554-LCS 10/01/2007 10:11		201.80g,in AmtRec: #Containers: 1	ASD4330 10/31/07,pd 06/01/01 r		0.9		15F			Scr: Alpha: Beta:

TA Richland Key: In - Initial Amt. fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1 ISV - Insufficient Volume for Analysis WO Cnt: 6
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4 8 29

TAL RICHLAND

11/26/2007 3:54:55 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

BC Gross Beta PrpRC5014
S8 Gross Beta by GPC using Sr/Y-90 curve
5I CLIENT: HANFORD

PRIORITY

Pipet #: _____

AnalyDueDate: 11/15/2007

Sep1 DT/Tm Tech:

Batch: 7330446 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ Harris, D

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 J7XAV-2-AA J7I280355-1-SAMP 09/28/2007 13:00		204.10g,in AmtRec: 20ML,4XLP #Containers: 5		1.5	86.1	100	[illegible]	1043	11/28/07 RHS Scr: Alpha: 4.41E-04 uCi/Sa	Beta: 2.24E-04 uCi/Sa
2 J7XAW-3-AA J7I280355-2-SAMP 09/28/2007 13:00		198.80g,in AmtRec: 20ML,4XLP #Containers: 5			85.1		26B		Scr: Alpha: -4.62E-04 uCi/Sa	Beta: 3.98E-04 uCi/Sa
3 J7XAW-3-AE-X J7I280355-2-DUP 09/28/2007 13:00		202.10g,in AmtRec: 20ML,4XLP #Containers: 5			77.3		26C		Scr: Alpha: -4.62E-04 uCi/Sa	Beta: 3.98E-04 uCi/Sa
4 J72WL-2-AC J7J020119-1-SAMP 09/30/2007 11:03		70.80g,in AmtRec. 20ML,4XLP,4LP #Containers: 6			20.9	100	26D		Scr: Alpha: 8.73E-04 uCi/Sa	Beta: 1.02E-02 uCi/Sa 7.1E-02L
5 J72XT-2-AC J7J020124-1-SAMP 10/01/2007 10:11		98.30g,in AmtRec: 20ML,LP #Containers: 2			95.5	200	27A	1223	Scr: Alpha: 9.42E-04 uCi/Sa 1.9E-01L	Beta: 7.41E-05 uCi/Sa
6 J72XX-2-AC J7J020124-2-SAMP 10/01/2007 10:11		94.30g,in AmtRec: 20ML,LP #Containers: 2			89.0		27B		Scr: Alpha: 7.42E-04 uCi/Sa 2.4E-01L	Beta: -1.26E-05 uCi/Sa
7 J8MQF-2-AA-B J7J100000-557-BLK 09/28/2007 13:00		203.50g,in AmtRec: #Containers: 1			0.2	200	27C		Scr: Alpha:	Beta:

TA Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1 ISV - Insufficient Volume for Analysis WO Cnt: 7
Richland Wa. pd - Prep Dt. r - Reference Dt. ec-Enrichment Cell, ct-Cocktailed Added Prep, SamplePrep v4.8.29

130

TAL RICHLAND

11/26/2007 3:54:56 PM

Sample Preparation/Analysis

BC Gross Beta PrpRC5014
S8 Gross Beta by GPC using Sr/Y-90 curve
5I CLIENT: HANFORD

Balance Id:1120482733
Pipet #:

AnalyDueDate: 11/15/2007

Sep1 DT/Tm Tech:

Batch: 7330446 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:
8 J8MQF-3-AC-C J7J100000-557-LCS 09/28/2007 13:00		200.30g,in AmtRec:	BESB3165 10/22/07,pd 08/08/06 r #Containers: 1	1.5	0.3	200	27D	1223	11/28/07 RCL	

Scr: Alpha: Beta:

Comments: J72WL-SAMP "Comments. Aliquot reduced due to high screen results. JB 11/20/07"

pH <2.0. All other aliquots reduced due to weight screens. DWB 11/26/07

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

J7XAV2AA-SAMP Constituent List:

J8MQF2AA-BLK:

J8MQF3AC-LCS:

J7XAV2AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8MQF2AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8MQF3AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TAL RICHLAND

11/14/2007 3:56:59 PM

Sample Preparation/Analysis

Balance Id:1120373922,1120373922,1120

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

CL Sr-90 Prp/SepRC5006(5071)
TL Sr-85 by NaI and Sr-90 by GPC 7 day ingrowth
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 11/15/2007

Sep1 DT/Tm Tech: 11/07/2007 15:17,ManisD

Batch: 7283550 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7283543 BNTB, 7283544 AWTA, 7283550 CLTL, 7283551 FPS5, 7283552 6DSO.

Prep Tech: ManisD

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 J7TTL-1-AE J7I270394-1-SAMP		1000.03g,in	SRTB15446 10/22/07,pd 05/22/07,r		1.0	23.2	100	[illegible] 7A	dark 0735	11/15/5 11/15/5	
						11/07/2007 15:17;s1					
09/27/2007 09:18		AmtRec: VIAL20,500MLP,4XLP,3X4LP #Containers: 9						Scr:	Alpha: -2.03E-03 uCi/Sa	Beta: 3.08E-03 uCi/Sa	
2 J72WL-1-AE J7J020119-1-SAMP		770.01g,in	SRTB15447 10/22/07,pd 05/22/07,r		1.0	23.2	100	7B 7A	SD ~~[illegible]~~ dark	11/15/5 11/15/5	
						11/07/2007 15:17;s1					
09/30/2007 11:03		AmtRec: 20ML,4XLP,4LP		#Containers: 6				Scr:	Alpha: 8.73E-04 uCi/Sa	Beta: 1.02E-02 uCi/Sa	7.1E-02L
3 J72WL-1-AF-X J7J020119-1-DUP		770.02g,in	SRTB15448 10/22/07,pd 05/22/07,r		1.0	23.1	100	7C 7B	SD ~~[illegible]~~ 0730 dark	11/15/5 11/15/5	
						11/07/2007 15:17;s1					
09/30/2007 11:03		AmtRec: 20ML,4XLP,4LP		#Containers: 6				Scr:	Alpha: 8.73E-04 uCi/Sa	Beta: 1.02E-02 uCi/Sa	7.1E-02L
4 J722N-1-AC J7J020139-1-SAMP		1000.01g,in	SRTB15449 10/22/07,pd 05/22/07,r		1.0	23.1	100	1A 7B	dark 0735	11/15/5 11/15/5	
						11/07/2007 15:17;s1					
10/01/2007 10:57		AmtRec: 20ML,500ML,3XLP,2X4LP #Containers: 7						Scr:	Alpha: -1.52E-04 uCi/Sa	Beta: 1.59E-03 uCi/Sa	

TAL RICHLAND

11/14/2007 3:56:59 PM

Sample Preparation/Analysis

Balance Id:1120373922,1120373922,1120

CL Sr-90 Prp/SepRC5006(5071)
TL Sr-85 by NaI and Sr-90 by GPC 7 day ingrowth
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 11/15/2007

Sep1 DT/Tm Tech: 11/07/2007 15:17,ManisD

Batch: 7283550 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ManisD

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:
5 J8MP4-1-AA-B J7J100000-550-BLK		1000.01g,in	SRTB15445 10/22/07,pd 05/22/07,r		1.0	23.4	100	1B	Clm	11/15	
						11/07/2007 15:17,s1		TC	0735	11/15	
09/30/2007 11:03		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:
6 J8MP4-1-AC-C J7J100000-550-LCS		1000.04g,in	SRSG1395 10/22/07,pd 05/22/07,r		1.0	23.1	100	1C	Clm	11/15	
						11/07/2007 15:17,s1		1D	0735	11/16	
09/30/2007 11:03		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:

Comments:

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

J7TTL1AE-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

J8MP41AA-BLK:

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

J8MP41AC-LCS:

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

J7TTL1AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8MP41AA-BLK:

TAL RICHLAND

11/13/2007 10:08:10 AM

Sample Preparation/Analysis

Balance Id:1120373922

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AW Gamma PrpRC5017
TA Gamma by HPGE
5I CLIENT: HANFORD

Pipet #:

AnalyDueDate: 11/15/2007

Sep1 DT/Tm Tech:

Batch: 7283544 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ManisD,Barcotl | Back 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 J7TTL-1-AA J7I270394-1-SAMP 09/27/2007 09:18		2000.30g,in AmtRec: VIAL20,500MLP,4XLP,3X4LP #Containers: 9			100mL	200	G15	1451	11/14/07	
							Scr:	Alpha: -2.03E-03 uCi/Sa		Beta: 3.08E-03 uCi/Sa
2 J72DT-1-AA J7J010192-1-SAMP 09/30/2007 10:20		2000.10g,in AmtRec: 20ML,4XLP,3X4LP #Containers: 8					G11	1451		
							Scr:	Alpha: -3.39E-03 uCi/Sa		Beta: 2.56E-03 uCi/Sa
3 J72DW-1-AA J7J010192-2-SAMP 09/30/2007 07:30		2000.14g,in AmtRec: 20ML,4XLP,3X4LP #Containers: 8					G14	1451		
							Scr:	Alpha: -2.91E-03 uCi/Sa		Beta: 1.87E-03 uCi/Sa
4 J72DW-1-AF-X J7J010192-2-DUP 09/30/2007 07:30		1905.51g,in Reduce Aliquot do to ISV AmtRec: 20ML,4XLP,3X4LP #Containers: 8					G10	1640	11/14/07	
							Scr:	Alpha: -2.91E-03 uCi/Sa		Beta: 1.87E-03 uCi/Sa
5 J72WL-1-AD J7J020119-1-SAMP 09/30/2007 11:03		2000.08g,in AmtRec: 20ML,4XLP,4LP #Containers: 6					G7	1641		
							Scr:	Alpha: 8.73E-04 uCi/Sa		Beta: 1.02E-02 uCi/Sa 7.1E-02L
6 J7222-1-AA J7J020143-1-SAMP 09/30/2007 13:13		2000.11g,in AmtRec: 20ML,2X500ML,4LP #Containers: 4					G15	1822	11/14/07	
							Scr:	Alpha: 3.06E-06 uCi/Sa		Beta: -2.81E-07 uCi/Sa
7 J8MN9-1-AA-B J7J100000-544-BLK 09/30/2007 07:30		2000.13g,in AmtRec: #Containers: 1					G14	1822		
							Scr:	Alpha:		Beta:

TA Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1 ISV - Insufficient Volume for Analysis WO Cnt: 7

Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4.8.29

TAL RICHLAND

11/13/2007 10:08:16 AM

Sample Preparation/Analysis

AW Gamma PrpRC5017
TA Gamma by HPGE
5I CLIENT: HANFORD

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

AnalyDueDate: 11/15/2007

Batch: 7283544 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:
8 J8MN9-1-AC-C J7J100000-544-LCS 09/30/2007 07:30		2000.64g,in AmtRec:	QCAG1417 10/31/07,pd 03/07/05 #Containers: 1		100mL	200	911	1832	11/14/07	

Scr: Alpha: Beta:

Comments:

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

J7TTL1AA-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:

J8MN91AA-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:

J8MN91AC-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						

J7TTL1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8MN91AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8MN91AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

135

11/5/2007 3:36:58 PM

Sample Preparation/Analysis

Balance Id:2113224201

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

BN I-129 Prp/SepRC5025
TB Gamma by LEPD
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 11/15/2007 W05240

Sep1 DT/Tm Tech:

Batch: 7283543 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7283543 BNTB, 7283544 AWTA, 7283550 CLTL, 7283551 FPS5, 7283552 6DSO,

Prep Tech: ,BostedD

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 J7TTL-1-AC J7I270394-1-SAMP 09/27/2007 09:18	AmtRec: VIAL20,500MLP,4XLP,3X4LP #Containers: 9	3897.80g,in	ITA6680 10/09/07		36.8	100	L2	1955 Scr: Alpha: -2.03E-03 uCi/Sa	11/13/07 CR Beta: 3.08E-03 uCi/Sa	
2 J70FQ-1-AA J7I290185-1-SAMP 09/28/2007 11:04	AmtRec: 20ML,2X4LP #Containers: 3	3939.70g,in	ITA6681 10/09/07		37.0		L4	1955 Scr: Alpha: -3.42E-04 uCi/Sa	Beta: 7.28E-05 uCi/Sa	
3 J70FX-1-AC J7I290187-1-SAMP 09/28/2007 08:00	AmtRec: 20ML,LP,2X4LP #Containers: 4	3940.00g,in	ITA6682 10/09/07		35.3		L5	1956 Scr: Alpha: -9.98E-04 uCi/Sa	Beta: 6.99E-04 uCi/Sa	
4 J70F0-1-AC J7I290187-2-SAMP 09/28/2007 13:00	AmtRec: 20ML,LP,2X4LP #Containers: 4	3850.50g,in	ITA6683 10/09/07		35.5		L2	2141 Scr: Alpha: -8.02E-05 uCi/Sa	Beta: 5.05E-04 uCi/Sa	
5 J72DT-1-AC J7J010192-1-SAMP 09/30/2007 10:20	AmtRec: 20ML,4XLP,3X4LP #Containers: 8	3883.80g,in	ITA6684 10/09/07		36.3		L4	2142 Scr: Alpha: -3.39E-03 uCi/Sa	Beta: 2.56E-03 uCi/Sa	
6 J72DW-1-AC J7J010192-2-SAMP 09/30/2007 07:30	AmtRec: 20ML,4XLP,3X4LP #Containers: 8	3916.50g,in	ITA6685 10/09/07		36.3		L5	↓ Scr: Alpha: -2.91E-03 uCi/Sa	Beta: 1.87E-03 uCi/Sa	
7 J722N-1-AA J7J020139-1-SAMP 10/01/2007 10:57	AmtRec: 20ML,500ML,3XLP,2X4LP #Containers: 7	3959.70g,in	ITA6686 10/09/07		35.5		L2	2332 Scr: Alpha: -1.52E-04 uCi/Sa	Beta: 1.59E-03 uCi/Sa	

TA Richland
Richland Wa.

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

Page 1

ISV - Insufficient Volume for Analysis

WO Cnt: 7
Prep_SamplePrep v4.8.29

136

11/5/2007 3:36:59 PM

Sample Preparation/Analysis

Balance Id:2113224201

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

BN I-129 Prp/SepRC5025
TB Gamma by LEPD
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 11/15/2007

Sep1 DT/Tm Tech:

Batch: 7283543 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BostedD

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 J723C-1-AA J7J020147-1-SAMP 09/30/2007 09:27		3862.60g,in AmtRec: 20ML,2X4LP #Containers: 3	ITA6687 10/09/07		34.8	100	L4	2335 Scr: Alpha: -8.25E-04 uCi/Sa	11/13/07 RO Beta: -1.01E-04 uCi/Sa	
9 J723E-1-AA J7J020147-2-SAMP 09/30/2007 11:34		3896.90g,in AmtRec: 20ML,2X4LP #Containers: 3	ITA6688 10/09/07		35.7		L5	2335 Scr: Alpha: 4.48E-04 uCi/Sa	11/13/07 RO Beta: -1.88E-04 uCi/Sa	
10 J723E-1-AC-X J7J020147-2-DUP 09/30/2007 11:34		3911.00g,in AmtRec: 20ML,2X4LP #Containers: 3	ITA6689 10/09/07		36.2		L2	0755 Scr: Alpha: 4.48E-04 uCi/Sa	11/14/07 RC/S Beta: -1.88E-04 uCi/Sa	
11 J8MN0-1-AA-B J7J100000-543-BLK 09/30/2007 11:34		3917.50g,in AmtRec: #Containers: 1	ITA6690 10/09/07		34.8		L4	0757 Scr: Alpha:	Beta:	
12 J8MN0-1-AC-C J7J100000-543-LCS 09/30/2007 11:34		3951.00g,in AmtRec: #Containers: 1	ISD0788 10/31/07		36.3		L5	0759 Scr: Alpha:	Beta:	

Comments:

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

J7TTL1AC-SAMP Constituent List:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:

TAL RICHLAND

137

TAL RICHLAND

11/5/2007 3:37:00 PM

Sample Preparation/Analysis

Balance Id:2113224201

BN I-129 Prp/SepRC5025
TB Gamma by LEPD
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 11/15/2007

Sep1 DT/Tm Tech:

Batch: 7283543 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BostedD

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:

```
J8MN01AA-BLK:
  I-129        RDL:1.00E+00    pCi/L    LCL:        UCL:        RPD:
J8MN01AC-LCS:
  I-129        RDL:5           pCi/L    LCL:70      UCL:130     RPD:20
J7TTL1AC-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
J8MN01AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
J8MN01AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

Approved By _____ Date: _____

TAL RICHLAND

10/31/2007 6:56:11 AM

Sample Preparation/Analysis

Balance Id:1120373922

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

FP Tc-99 Prp/SepRC5065
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 11/15/2007

Sep1 DT/Tm Tech:

Batch: 7283551 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WoodT

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J7TTL-1-AF J7I270394-1-SAMP 09/27/2007 09:18		AmtRec: VIAL20,500MLP,4XLP,3X4LP #Containers: 9	125.02g,in	125.02g		00		Scr:	Alpha: -2.03E-03 uCi/Sa	Beta: 3.08E-03 uCi/Sa
2 J722N-1-AD J7J020139-1-SAMP 10/01/2007 10:57		AmtRec: 20ML,500ML,3XLP,2X4LP #Containers: 7	125.05g,in	125.05g				Scr:	Alpha: -1.52E-04 uCi/Sa	Beta: 1.59E-03 uCi/Sa
3 J722N-1-AE-S J7J020139-1-MS 10/01/2007 10:57		AmtRec: 20ML,500ML,3XLP,2X4LP #Containers: 7	125.01g,in	125.01g	TCSG1913 08/23/07,pd 01/10/06,r			Scr:	Alpha: -1.52E-04 uCi/Sa	Beta: 1.59E-03 uCi/Sa
4 J7222-1-AC J7J020143-1-SAMP 09/30/2007 13:13		AmtRec: 20ML,2X500ML,4LP #Containers: 4	125.01g,in	125.01g				Scr:	Alpha: 3.06E-06 uCi/Sa	Beta: -2.81E-07 uCi/Sa
5 J7222-1-AF-X J7J020143-1-DUP 09/30/2007 13:13		AmtRec: 20ML,2X500ML,4LP #Containers: 4	125.05g,in	125.05g				Scr:	Alpha: 3.06E-06 uCi/Sa	Beta: -2.81E-07 uCi/Sa
6 J8MP9-1-AA-B J7J100000-551-BLK 09/30/2007 13:13		AmtRec: #Containers: 1	125.01g,in	125.01g				Scr:	Alpha.	Beta:
7 J8MP9-1-AC-C J7J100000-551-LCS 09/30/2007 13:13		AmtRec: #Containers: 1	125.03g,in	125.03g	TCSE2172 10/22/07,pd 01/10/06,r			Scr:	Alpha:	Beta:

139

TAL RICHLAND

10/31/2007 6:56:20 AM

Sample Preparation/Analysis

FP Tc-99 Prp/SepRC5065
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

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

AnalyDueDate: 11/15/2007

Batch: 7283551 pCi/L
SEQ Batch, Test: None

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 J8MP9-1-AD-BN J7J100000-551-IBLK 09/30/2007 13:13			AmtRec:	#Containers: 1		60		Scr:	Alpha:	Beta:

Comments: pH < 2.0 JSW 10/31/07

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

J7TTL1AF-SAMP Constituent List:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
J722N1AE-MS:

J8MP91AA-BLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
J8MP91AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
J8MP91AD-IBLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:

J7TTL1AF-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J722N1AE-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8MP91AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8MP91AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8MP91AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TAL RICHLAND

10/31/2007 6:33:27 AM

Sample Preparation/Analysis

Balance Id:I4 A

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AM Tc-99 Prp/SepRC5078
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

Pipet #: ___

AnalyDueDate: 11/15/2007

Sep1 DT/Tm Tech:

Batch: 7283547 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WoodT

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J7XAV-1-AC J7I280355-1-SAMP 09/28/2007 13:00		125.01g,in AmtRec: 20ML,4XLP	#Containers: 5			Scr:	Alpha: 4.41E-04 uCi/Sa	Beta: 2.24E-04 uCi/Sa
2 J7XAV-1-AD-X J7I280355-1-DUP 09/28/2007 13:00		125.01g,in AmtRec: 20ML,4XLP	#Containers: 5			Scr:	Alpha: 4.41E-04 uCi/Sa	Beta: 2.24E-04 uCi/Sa
3 J7XAW-1-AC J7I280355-2-SAMP 09/28/2007 13:00		125.03g,in AmtRec: 20ML,4XLP	#Containers: 5			Scr:	Alpha: -4.62E-04 uCi/Sa	Beta: 3.98E-04 uCi/Sa
4 J7XAW-1-AD-S J7I280355-2-MS 09/28/2007 13:00		125.03g,in AmtRec: 20ML,4XLP	TCSG1916 10/02/07,pd 01/10/06,r #Containers: 5			Scr:	Alpha: -4.62E-04 uCi/Sa	Beta: 3.98E-04 uCi/Sa
5 J8MPQ-1-AA-B J7J100000-547-BLK 09/28/2007 13:00		125.06g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 J8MPQ-1-AC-C J7J100000-547-LCS 09/28/2007 13:00		125.01g,in AmtRec:	TCSE2171 10/22/07,pd 01/10/06,r #Containers: 1			Scr:	Alpha:	Beta:
7 J8MPQ-1-AD-BN J7J100000-547-IBLK 09/28/2007 13:00		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

TA Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1 ISV - Insufficient Volume for Analysis WO Cnt: 7

Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4.8.29

141

TAL RICHLAND

10/31/2007 6:33:36 AM

Sample Preparation/Analysis

AM Tc-99 Prp/SepRC5078
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

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

AnalyDueDate: 11/15/2007

Batch: 7283547 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:

Comments: pH < 2 0 JSN 10/31/07

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

J7XAV1AC-SAMP Constituent List:
Tc-99 RDL:1.50E+01 pCi/L LCL:70 UCL:130 RPD:20
J7XAW1AD-MS:

J8MPQ1AA-BLK:
Tc-99 RDL:1.50E+01 pCi/L LCL: UCL: RPD:
J8MPQ1AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
J8MPQ1AD-IBLK:
Tc-99 RDL:1.50E+01 pCi/L LCL: UCL: RPD:

J7XAV1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J7XAW1AD-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8MPQ1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8MPQ1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8MPQ1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

142

TAL RICHLAND

10/10/2007 3:32:26 PM

Sample Preparation/Analysis

Balance Id: 2445

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AR H-3 Prp/SepRC5007
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

Pipet #:

AnalyDueDate: 11/15/2007 WO5540

Sep1 DT/Tm Tech: 10-23-07 [illegible]

Batch: 7283562 WATER pCi/L PM, Quote: SA , 57671

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:
1 J70FX-1-AA J7I290187-1-SAMP 09/28/2007 08:00		AmtRec: 20ML,LP,2X4LP	#Containers: 4			Scr:	Alpha: -9.98E-04 uCi/Sa	Beta: 6.99E-04 uCi/Sa
2 J70F0-1-AA J7I290187-2-SAMP 09/28/2007 13:00		AmtRec: 20ML,LP,2X4LP	#Containers: 4			Scr:	Alpha: -8.02E-05 uCi/Sa	Beta: 5.05E-04 uCi/Sa
3 J70F0-1-AD-X J7I290187-2-DUP 09/28/2007 13:00		AmtRec: 20ML,LP,2X4LP	#Containers: 4			Scr:	Alpha: -8.02E-05 uCi/Sa	Beta: 5.05E-04 uCi/Sa
4 J8MQJ-1-AA-B J7J100000-562-BLK 09/28/2007 13:00		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
5 J8MQJ-1-AC-C J7J100000-562-LCS 09/28/2007 13:00		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 J8MQJ-1-AD-BX J7J100000-562-MBLK 09/28/2007 13:00		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
7 J8MQJ-1-AE-CM J7J100000-562-MLCS 09/28/2007 13:00		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

STL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1 ISV - Insufficient Volume for Analysis WO Cnt: 7

Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added ICOC v4.8.26

TAL RICHLAND

10/10/2007 3:32:27 PM

Sample Preparation/Analysis

AR H-3 Prp/SepRC5007
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 10-23-07
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 11/15/2007

Batch: 7283562 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:
8 J8MQJ-1-AF-BN J7J100000-562-IBLK 09/28/2007 13:00	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
9 J8MQJ-1-AG-BN J7J100000-562-IBLK 09/28/2007 13:00	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Comments:

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

J70FX1AA-SAMP Constituent List:

H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20
J8MQJ1AA-BLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:
J8MQJ1AC-LCS:					
H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20
J8MQJ1AD-MBLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:
J8MQJ1AE-MLCS:					
H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20
J8MQJ1AF-IBLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:
J8MQJ1AG-IBLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:

J70FX1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8MQJ1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8MQJ1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

10/10/2007 3:32:27 PM

Sample Preparation/Analysis

AR H-3 Prp/SepRC5007
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 10-23-07 ar
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 11/15/2007

Batch: 7283562 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:

J8MQJ1AD-MBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8MQJ1AE-MLCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8MQJ1AF-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8MQJ1AG-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

10/10/2007 3:32:12 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

AS H-3 Prp/SepRC5024
U3 Enriched Tritium by Liquid Scint
5I CLIENT: HANFORD

AnalyDueDate: 11/15/2007 W05240

Batch: 7283542 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

Balance Id: 12424
Pipet #:
Sep1 DT/Tm Tech: 10-30-07
Sep2 DT/Tm Tech:
Prep Tech: 10-23-07

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 J7WQC-1-AA J7I280282-1-SAMP 09/28/2007 07:30		AmtRec: 20ML,3xLP	#Containers: 4			Scr:	Alpha: -1.81E-04 uCi/Sa	Beta: 3.88E-04 uCi/Sa
2 J7WQW-1-AA J7I280282-2-SAMP 09/28/2007 09:59		AmtRec: 20ML,3xLP	#Containers: 4			Scr:	Alpha: 1.29E-04 uCi/Sa	Beta: -6.29E-04 uCi/Sa
3 J70FV-1-AA J7I290186-1-SAMP 09/28/2007 13:11		AmtRec: 20ML,3XLP	#Containers: 4			Scr:	Alpha: -8.19E-04 uCi/Sa	Beta: 5.52E-04 uCi/Sa
4 J72DQ-1-AA J7J010190-1-SAMP 09/30/2007 08:55		AmtRec: 20ML,3XLP	#Containers: 4			Scr:	Alpha: -5.94E-05 uCi/Sa	Beta: -7.02E-05 uCi/Sa
5 J72DT-1-AD J7J010192-1-SAMP 09/30/2007 10:20		AmtRec: 20ML,4XLP,3X4LP	#Containers: 8			Scr:	Alpha: -3.39E-03 uCi/Sa	Beta: 2.56E-03 uCi/Sa
6 J72DT-1-AF-X J7J010192-1-DUP 09/30/2007 10:20		AmtRec: 20ML,4XLP,3X4LP	#Containers: 8			Scr:	Alpha: -3.39E-03 uCi/Sa	Beta: 2.56E-03 uCi/Sa
7 J72DW-1-AD J7J010192-2-SAMP 09/30/2007 07:30		AmtRec: 20ML,4XLP,3X4LP	#Containers: 8			Scr:	Alpha: -2.91E-03 uCi/Sa	Beta: 1.87E-03 uCi/Sa

TAL RICHLAND
146

10/10/2007 3:32:13 PM

Sample Preparation/Analysis

AS H-3 Prp/SepRC5024
U3 Enriched Tritium by Liquid Scint
5I CLIENT: HANFORD

Balance Id: 12434
Pipet #:
Sep1 DT/Tm Tech: 10-30-07 pm
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 11/15/2007

Batch: 7283542 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:
8 J8MNN-1-AA-B J7J100000-542-BLK 09/30/2007 10:20		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
9 J8MNN-1-AC-C J7J100000-542-LCS 09/30/2007 10:20		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
10 J8MNN-1-AD-BN J7J100000-542-IBLK 09/30/2007 10:20		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

J7WQC1AA-SAMP Constituent List:
  H-3          RDL:1.00E+01    pCi/L     LCL:70      UCL:130     RPD:20
J8MNN1AA-BLK:
  H-3          RDL:1.00E+01    pCi/L     LCL:        UCL:        RPD:
J8MNN1AC-LCS:
  H-3          RDL:10          pCi/L     LCL:70      UCL:130     RPD:20
J8MNN1AD-IBLK:
  H-3          RDL:1.00E+01    pCi/L     LCL:        UCL:        RPD:
J7WQC1AA-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J8MNN1AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J8MNN1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```


TAL RICHLAND
147

10/10/2007 3:32:14 PM

Sample Preparation/Analysis

AS H-3 Prp/SepRC5024
U3 Enriched Tritium by Liquid Scint
5I CLIENT: HANFORD

Balance Id: D424
Pipet #:
Sep1 DT/Tm Tech: 10-30-07 [illegible]
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 11/15/2007

Batch: 7283542 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:

J8MNN1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TAL RICHLAND
148

11/13/2007 1:34:33 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory .
Pacific Northwest National Lab

AS H-3 Prp/SepRC5024
U3 Enriched Tritium by Liquid Scint
5I CLIENT: HANFORD

AnalyDueDate: 11/15/2007

Batch: 7317406 WATER pCi/L PM, Quote: SA , 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 J72DT-2-AD

J7J010192-1-SAMP

09/30/2007 10:20 AmtRec: 20ML,4XLP,3X4LP #Containers: 8 Scr: Alpha: -3.39E-03 uCi/Sa Beta: 2.56E-03 uCi/Sa

2 J72DT-2-AF-X

J7J010192-1-DUP

09/30/2007 10:20 AmtRec: 20ML,4XLP,3X4LP #Containers: 8 Scr: Alpha: -3.39E-03 uCi/Sa Beta: 2.56E-03 uCi/Sa

3 J8MNN-2-AD-B

J7J100000-542-BLK

09/30/2007 10:20 AmtRec: #Containers: 1 Scr: Alpha: Beta:

Comments:

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

J72DT2AD-SAMP Constituent List:

J8MNN2AD-BLK:

J72DT2AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8MNN2AD-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TAL RICHLAND

TAL RICHLAND

11/13/2007 10:47:58 AM

Sample Preparation/Analysis

Balance Id:1120373922

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

DH UNat_Laser PrpRC5015
SS Total Uranium by KPA
5I CLIENT: HANFORD

Pipet #:

AnalyDueDate: 11/15/2007

Sep1 DT/Tm Tech:

Batch: 7283540 WATER ug/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEO Batch, Test: None

Prep Tech: ,Barcotl

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 J70FG-1-AA J7I290184-1-SAMP 09/28/2007 13:00		25.13g,in AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: 1.79E-05 uCi/Sa	Beta: 1.17E-05 uCi/Sa
2 J70FG-1-AC-S J7I290184-1-MS 09/28/2007 13:00		25.22g,in AmtRec: 20ML,500MLP	UNSF4048 11/12/07,pd 02/01/96 r #Containers: 2			Scr:	Alpha: 1.79E-05 uCi/Sa	Beta: 1.17E-05 uCi/Sa
3 J7222-1-AD J7J020143-1-SAMP 09/30/2007 13:13		25.25g,in AmtRec: 20ML,2X500ML,4LP	#Containers: 4			Scr:	Alpha: 3.06E-06 uCi/Sa	Beta: -2.81E-07 uCi/Sa
4 J7222-1-AE-X J7J020143-1-DUP 09/30/2007 13:13		25.20g,in AmtRec: 20ML,2X500ML,4LP	#Containers: 4			Scr:	Alpha: 3.06E-06 uCi/Sa	Beta: -2.81E-07 uCi/Sa
5 J8MM0-1-AA-B J7J100000-540-BLK 09/30/2007 13:13		25.10g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 J8MM0-1-AC-C J7J100000-540-LCS 09/30/2007 13:13		25.35g,in AmtRec:	UNSF4049 11/12/07,pd 02/01/96 r #Containers: 1			Scr:	Alpha:	Beta:
7 J8MM0-1-AD-C J7J100000-540-LCS 09/30/2007 13:13		25.31g,in AmtRec:	UNSC2009 10/30/07,pd 04/28/96 r #Containers: 1			Scr:	Alpha:	Beta:

150

TAL RICHLAND

11/13/2007 10:48:04 AM

Sample Preparation/Analysis

DH UNat_Laser PrpRC5015
SS Total Uranium by KPA
5I CLIENT: HANFORD

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

AnalyDueDate: 11/15/2007

Batch: 7283540 ug/L
SEO 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: No MS. TRN 11/20/07

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

J70FG1AA-SAMP Constituent List:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
J70FG1AC-MS Constituent List:

J8MM01AA-BLK:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
J8MM01AC-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20
J8MM01AD-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20

J70FG1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J70FG1AC-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8MM01AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8MM01AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8MM01AD-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

151

11/13/2007 5:05:01 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/13/2006, 11/18/2007, Batch: '7283552', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7283552						
AC		CalcC	WoodT	10/31/2007 5:50:40		
SC			wagarr	IsBatched	10/10/2007 3:42:23 PM	ICOC_RADCALC v4.8.26
SC			WoodT	InPrep	10/31/2007 5:50:40 AM	RICH-RC-5016 Revision 7
SC			WoodT	Prep1C	10/31/2007 6:09:48 AM	RICH-RC-5016 REVISION 7
SC			FABREM	Sep1C	11/1/2007 5:53:33 PM	RICH-RC-5010 REVISION 5
SC			AshworthA	Sep2C	11/2/2007 3:22:30 PM	RICH-RC-5039 REV5
SC			DAWKINSO	InCnt1	11/2/2007 4:01:24 PM	RICH-RD-0008 REVISION 4
SC			DAWKINSO	CalcC	11/3/2007 2:21:39 PM	RICH-RD-0008 REVISION 4
AC			WoodT	10/31/2007 6:09:48		
AC			FABREM	11/1/2007 5:53:33 PM		
AC			AshworthA	11/2/2007 3:22:30 PM		
AC			DAWKINSO	11/2/2007 4:01:24 PM		
AC			DAWKINSO	11/3/2007 2:21:39 PM		

AC: Accepting Entry, SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.29

11/14/2007 11:05:29 AM

ICOC Fraction Transfer/Status Report

ByDate: 11/14/2006, 11/19/2007, Batch: '7283560', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7283560						
AC		CalcC	WoodT	10/31/2007 9:58:18		
SC			wagarr	IsBatched	10/10/2007 3:42:23 PM	ICOC_RADCALC v4.8.26
SC			WoodT	InPrep	10/31/2007 9:58:18 AM	RICH-RC-5016 Revision 7
SC			WoodT	Prep1C	10/31/2007 10:10:01 AM	RICH-RC-5016 REVISION 7
SC			AshworthA	Prep2C	11/1/2007 8:49:50 AM	RICH-RC-5086 REV3
SC			AshworthA	Sep2C	11/2/2007 3:22:16 PM	RICH-RC-5039 REV5
SC			DAWKINSO	InCnt1	11/2/2007 4:00:14 PM	RICH-RD-0008 REVISION 4
SC			DAWKINSO	CalcC	11/4/2007 1:26:47 PM	RICH-RD-0008 REVISION 4
AC			WoodT	10/31/2007 10:10:01		
AC			AshworthA	11/1/2007 8:49:50		
AC			AshworthA	11/2/2007 3:22:16 PM		
AC			DAWKINSO	11/2/2007 4:00:14 PM		
AC			DAWKINSO	11/4/2007 1:26:47 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.29

11/21/2007 2:28:49 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/21/2006, 11/26/2007, Batch: '7283554', User: *ALL Order By DateTimeAccepting

O	Batch	Work Ord	CurStatus	Accepting			Comments
7283554							
AC			CalcC	BockJ	11/20/2007 8:17:27		
SC				wagarr	IsBatched	10/10/2007 3:42:23 PM	ICOC RADCALC v4.8.26
SC				BockJ	InPrep	11/20/2007 8:17:27 AM	RICH-RC-5021 Revision 5
SC				BockJ	Prep1C	11/20/2007 8:22:15 AM	RICH-RC-5014 REVISION 7
SC				BostedD	Prep2C	11/20/2007 6:17:48 PM	RICH-RC-5014 REVISION 7
SC				DAWKINSO	InCnt1	11/20/2007 6:33:33 PM	RICH-RD-0003 REVISION 5
SC				ClarkR	CalcC	11/21/2007 8:50:08 AM	RICH-RD-0003 REVISION 5
AC				BockJ	11/20/2007 8:22:15		
AC				BostedD	11/20/2007 6:17:48		
AC				DAWKINSO	11/20/2007 6:33:33		
AC				ClarkR	11/21/2007 8:50:08		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.30

11/28/2007 3:44:50 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/28/2006, 12/3/2007, Batch: '7330446', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
7330446							
AC			CalcC	BockJ	11/26/2007 2:28:50		
SC				antonsonl	IsBatched	11/26/2007 1:19:21 PM	ICOC_RADCALC v4.8.29
SC				BockJ	InPrep	11/26/2007 2:28:50 PM	RICH-RC-5014 Revision 7
SC				BockJ	Prep1C	11/26/2007 4:17:56 PM	RICH-RC-5014 REVISION 7
SC				AshworthA	Prep2C	11/28/2007 8:54:37 AM	RICH-RC-5014 REVISION 7
SC				ClarkR	InCnt1	11/28/2007 8:58:14 AM	RICH-RD-0003 REVISION 5
SC				ClarkR	CalcC	11/28/2007 12:51:41 PM	RICH-RD-0003 REVISION 5
AC				BockJ	11/26/2007 4:17:56		
AC				AshworthA	11/28/2007 8:54:37		
AC				ClarkR	11/28/2007 8:58:14		
AC				ClarkR	11/28/2007 12:51:41		

AC: Accepting Entry; SC: Status Change

11/16/2007 1:42:51 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/16/2006, 11/21/2007, Batch: '7283550', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
7283550							
AC			CalcC	WoodT	10/31/2007 8:29:00		
SC				wagarr	IsBatched	10/10/2007 3:42:23 PM	ICOC_RADCALC v4.8.26
SC				WoodT	InPrep	10/31/2007 8:29:00 AM	RICH-RC-5016 Revision 7
SC				WoodT	Prep1C	10/31/2007 9:15:48 AM	RICH-RC-5016 REVISION 7
SC				ManisD	InSep1	11/1/2007 7:00:49 AM	RICH-RC-5006 REV 7
SC				ManisD	Sep1C	11/7/2007 5:08:32 PM	RICH-RC-5006 REV 7
SC				DAWKINSO	InCnt1	11/7/2007 5:25:11 PM	RICH-RD-0007 REVISION 6
SC				DAWKINSO	Cnt1C	11/7/2007 9:57:36 PM	RICH-RD-0007 REVISION 6
SC				ManisD	InSep2	11/13/2007 6:57:53 AM	RICH-RC-5071 REV 5
SC				ManisD	Sep2C	11/14/2007 4:03:47 PM	RICH-RC-5071 REV 5
SC				DAWKINSO	InCnt2	11/14/2007 4:39:01 PM	RICH-RD-0003 REVISION 5
SC				BlackCL	CalcC	11/16/2007 8:36:21 AM	RICH-RD-0003 REVISION 5
AC				WoodT	10/31/2007 9:15:48		
AC				ManisD	11/1/2007 7:00:49		
AC				ManisD	11/7/2007 5:08:32 PM		
AC				DAWKINSO	11/7/2007 5:25:11 PM		
AC				DAWKINSO	11/7/2007 9:57:36 PM		rEVISION 6
AC				ManisD	11/13/2007 6:57:53		
AC				ManisD	11/14/2007 4:03:47		
AC				DAWKINSO	11/14/2007 4:39:01		
AC				BlackCL	11/16/2007 8:36:21		

AC: Accepting Entry, SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 10

ICOCFractions v4.8.29

11/16/2007 9:06:04 AM

ICOC Fraction Transfer/Status Report

ByDate: 11/16/2006, 11/21/2007,. Batch: '7283544', User: *ALL Order By DateTimeAccepting

O Batch	Work Ord	CurStatus	Accepting			Comments
7283544						
AC		CalcC	BockJ	11/13/2007 10:35:20		
SC			wagarr	IsBatched	10/10/2007 3:42:23 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep2	11/13/2007 10:35:20 AM	RICH-RC-5017 REVISION 6
SC			BockJ	Prep2C	11/14/2007 11:22:00 AM	RICH-RC-5017 REVISION 6
SC			BlackCL	InCnt1	11/14/2007 11:31:54 AM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	CalcC	11/14/2007 9:21:44 PM	RICH-RD-0007 REVISION 6
AC			BockJ	11/14/2007 11:22:00		
AC			BlackCL	11/14/2007 11:31:54		
AC			DAWKINSO	11/14/2007 9:21:44		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.29

11/15/2007 12:02:31 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/15/2006, 11/20/2007, Batch: '7283543', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7283543						
AC		CalcC	BostedD	11/13/2007 10:02:27		
SC			wagarr	IsBatched	10/10/2007 3:42:23 PM	ICOC_RADCALC v4.8.26
SC			BostedD	InPrep2	11/13/2007 10:02:27 AM	RICHRC5025 REVISION 4
SC			BostedD	Prep2C	11/13/2007 5:50:58 PM	RICHRC5025 REVISION 4
SC			DAWKINSO	InCnt1	11/13/2007 6:19:28 PM	RICH-RD-0007 REVISION 6
SC			BlackCL	CalcC	11/14/2007 10:19:41 AM	RICH-RD-0007 REVISION 6
AC			BostedD	11/13/2007 5:50:58		
AC			DAWKINSO	11/13/2007 6:19:28		
AC			BlackCL	11/14/2007 10:19:41		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.29

11/13/2007 4:48:07 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/13/2006, 11/18/2007, Batch: '7283551', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7283551						
AC		CalcC	WoodT	10/31/2007 6:41:00		
SC			wagarr	IsBatched	10/10/2007 3:42:23 PM	ICOC_RADCALC v4.8.26
SC			WoodT	InPrep	10/31/2007 6:41:00 AM	RICH-RC-5016 Revision 7
SC			WoodT	Prep1C	10/31/2007 6:56:13 AM	RICH-RC-5016 REVISION 7
SC			FABREM	Sep1C	11/7/2007 5:07:03 PM	RICH-RC-5065 REVISION 6
SC			DAWKINSO	InCnt1	11/7/2007 5:24:36 PM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	11/8/2007 9:12:14 AM	RICH-RD-0001 REVISION 4
AC			WoodT	10/31/2007 6:56:13		
AC			FABREM	11/7/2007 5:07:03 PM		
AC			DAWKINSO	11/7/2007 5:24:36 PM		rEVISION 4
AC			BlackCL	11/8/2007 9:12:14		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.29

11/11/2007 2:04:24 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/11/2006, 11/16/2007, Batch: '7283547', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7283547						
AC		CalcC	WoodT	10/31/2007 6:15:18		
SC			wagarr	IsBatched	10/10/2007 3:42:23 PM	ICOC_RADCALC v4.8.26
SC			WoodT	InPrep	10/31/2007 6:15:18 AM	RICH-RC-5016 Revision 7
SC			WoodT	Prep1C	10/31/2007 6:33:28 AM	RICH-RC-5016 REVISION 7
SC			FABREM	Sep1C	11/7/2007 8:50:06 PM	RICH-RC-5078 REVISION 4
SC			DAWKINSO	InCnt1	11/7/2007 9:24:06 PM	RICH-RD-0001 REVISION 4
SC			DAWKINSO	CalcC	11/8/2007 9:23:28 PM	RICH-RD-0001 REVISION 4
AC			WoodT	10/31/2007 6:33:28		
AC			FABREM	11/7/2007 8:50:06 PM		
AC			DAWKINSO	11/7/2007 9:24:06 PM		
AC			DAWKINSO	11/8/2007 9:23:28 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa

Grp Rec Cnt: 5

ICOCFractions v4.8.29

11/13/2007 4:50:20 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/13/2006, 11/18/2007, Batch: '7283562', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7283562						
AC		CalcC	McDowellD	10/24/2007 4:18:15		
SC			wagarr	IsBatched	10/10/2007 3:42:23 PM	ICOC_RADCALC v4.8.26
SC			McDowellD	Sep1C	10/24/2007 4:18:15 PM	RICH-RC-5007 REVISION 6
SC			DAWKINSO	InCnt1	10/24/2007 5:18:09 PM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	10/26/2007 9:01:07 AM	RICH-RD-0001 REVISION 4
AC			DAWKINSO	10/24/2007 5:18:09		
AC			BlackCL	10/26/2007 9:01:07		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 3

ICOCFractions v4.8.29

11/15/2007 8:19:52 AM

ICOC Fraction Transfer/Status Report

ByDate: 11/15/2006, 11/20/2007, Batch: '7283542', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7283542						
AC		CalcC	McDowellD	10/23/2007 1:23:40		
SC			wagarr	IsBatched	10/10/2007 3:42:23 PM	ICOC_RADCALC v4.8.26
SC			McDowellD	InPrep	10/23/2007 1:23:40 PM	RICH-RC-5024 REVISION 2
SC			McDowellD	InSep1	10/30/2007 9:47:16 AM	RICH-RC-5024 REVISION 2
SC			McDowellD	Sep1C	11/9/2007 3:35:39 PM	RICH-RC-5024 REVISION 2
SC			DAWKINSO	InCnt1	11/9/2007 3:46:58 PM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	11/11/2007 6:16:09 AM	RICH-RD-0001 REVISION 4
AC			McDowellD	10/30/2007 9:47:16		
AC			McDowellD	11/9/2007 3:35:39 PM		
AC			DAWKINSO	11/9/2007 3:46:58 PM		
AC			BlackCL	11/11/2007 6:16:09		

AC: Accepting Entry, SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.29

TAL RICHLAND

11/15/2007 8:24:05 AM

ICOC Fraction Transfer/Status Report

ByDate: 11/15/2006, 11/20/2007, Batch: '7317406', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7317406						
AC		CalcC	BlackCL	11/14/2007 11:04:25		
SC			nortonj	IsBatched	11/13/2007 12:07:53 PM	ICOC_RADCALC v4.8.29
SC			BlackCL	CalcC	11/14/2007 11:04:25 AM	RICH-RD-0001 REVISION 4

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 1

ICOCFractions v4.8.29

TAL RICHLAND

11/21/2007 1:11:12 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/21/2006, 11/26/2007, Batch: '7283540', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7283540						
AC		Cnt1C	BockJ	11/13/2007 2:59:27		
SC			wagarr	IsBatched	10/10/2007 3:42:23 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep2	11/13/2007 2:59:27 PM	RICH-RC-5015 REVISION 6
SC			BostedD	Prep2C	11/19/2007 6:38:16 PM	RICH-RC-5015 REVISION 6
SC			NelsonT	Cnt1C	11/20/2007 3:37:53 PM	RICH-RC-5058 REV 7
AC			BostedD	11/19/2007 6:38:16		
AC			NelsonT	11/20/2007 3:37:53		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 3

ICOCFractions v4.8 30