Analytical Data Package Prepared For

Fluor Hanford

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MAY 07 2008
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Radiochemical Analysis By

TAL Richland TARL

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

Data Package Contains 118 Pages

Report Nbr: 37464

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05239	X07-048	B1PKY6	J7I260322-1	J7PLL1AA	9J7PLL10	7289514
		B1PKY6	J7I260322-1	J7PLL1AC	9J7PLL10	7289515
		B1PKY6	J7I260322-1	J7PLL1AD	9J7PLL10	7289516
		B1PKY6	J7I260322-1	J7PLL1AE	9J7PLL10	7289509
		B1PKY6	J7I260322-1	J7PLL1AF	9J7PLL10	7289517
		B1PKY6	J7I260322-1	J7PLL1AG	9J7PLL10	7289512
		B1PKY6	J7I260322-1	J7PLL1AH	9J7PLL10	7289520
		B1PKY6	J7I260322-1	J7PLL1AJ	9J7PLL10	7289510
		B1PKR8	J7J100335-1	J8MQ01AA	9J8MQ010	7289512
		B1PKR1	J7J100335-10	J8M141AA	9J8M1410	7289509
	X07-048	B1PKP9	J7J100335-11	J8M161AA	9J8M1610	7289509
		B1PKT0	J7J100335-12	J8M171AA	9J8M1710	7289520
		B1PKP7	J7J100335-13	J8M191AA	9J8M1910	7289516
		B1PKT2	J7J100335-14	J8M2G1AA	9J8M2G10	7289520
		B1PKT3	J7J100335-15	J8M2L1AA	9J8M2L10	7289510

Comments:

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Report Nbr: 37464

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05239	X07-048	B1PKT5	J7J100335-16	J8M201AA	9J8M2010	7289510
		B1PKT4	J7J100335-17	J8M251AA	9J8M2510	7289510
		B1PKP4	J7J100335-18	J8M3A1AC	9J8M3A10	7289515
		B1PKP4	J7J100335-18	J8M3A2AA	9J8M3A20	7316339
		B1PKT1	J7J100335-19	J8M3F1AA	9J8M3F10	7289520
		B1PKR9	J7J100335-2	J8MRE1AA	9J8MRE10	7289512
		B1PKR7	J7J100335-3	J8MRM1AA	9J8MRM10	7289517
		B1PKR7	J7J100335-3	J8MRM1AC	9J8MRM10	7289512
		B1PKR0	J7J100335-4	J8MR31AA	9J8MR310	7289509
		B1PKR4	J7J100335-5	J8MTN1AA	9J8MTN10	7289517
		B1PKR5	J7J100335-6	J8MVJ1AA	9J8MVJ10	7289517
		B1PKR3	J7J100335-7	J8M1Q1AA	9J8M1Q10	7289517
		B1PKR6	J7J100335-8	J8M1V1AA	9J8M1V10	7289517
		B1PKR2	J7J100335-9	J8M111AA	9J8M1110	7289517

Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

November 23, 2007

Attention: Steve Trent

SAF Number	:	X07-048
Date SDG Closed	:	October 10, 2007
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05239
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between September 26, 2007 and October 10, 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
B1PKY6	J7PLL	9/26/07	WATER
B1PKR8	J8MQ0	10/10/07	WATER
B1PKR9	J8MRE	10/10/07	WATER
B1KR7	J8MRM	10/10/07	WATER
B1PKR0	J8MR3	10/10/07	WATER
B1PKR4	J8MTN	10/10/07	WATER
B1PKR5	J8MVJ	10/10/07	WATER
B1PKR3	J8M1Q	10/10/07	WATER
B1PKR6	J8M1V	10/10/07	WATER
B1PKR2	J8M11	10/10/07	WATER
B1PKR1	J8M14	10/10/07	WATER
B1PKP9	J8M16	10/10/07	WATER
B1PKT0	J8M17	10/10/07	WATER
B1PKP7	J8M19	10/10/07	WATER
B1PKT2	J8M2G	10/10/07	WATER

B1PKT3	J8M2L	10/10/07	WATER
B1PKT5	J8M20	10/10/07	WATER
B1PKT4	J8M25	10/10/07	WATER
B1PKP4	J8M3A	10/10/07	WATER
B1PKT1	J8M3F	10/10/07	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
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 (LL) by method RICH-RC-5017
Liquid Scintillation Counting
Technetium-99 by TEVA method RICH-RC-5065
Tritium by method RICH-RC-5007
Laser Induced Phosphorimetry
Total Uranium by method RICH-RC-5058

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, samples and sample duplicate (B1PKR0) results are within contractual requirements.

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:

Sample B1PKP4 was spilled during processing. The duplicate was on this sample and had acceptable results. The sample was rerun in batch 7316339 with good results. Data is accepted. Except as noted, the LCS, batch blank, samples and sample duplicate (B1PKP4) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:

Samples B1PKY6 and B1PKP4 were analyzed with reduced aliquot volumes based on elevated screen results. The results are higher than the achieved MDA. The RPD between the sample and duplicate is high at 31.66%. The activity found in the sample and duplicate is less than five times the CRDL and the difference in activity between the sample and duplicate is less than one CRDL. According to the contractual agreement the data can be accepted. Except as noted, the LCS, batch blank, samples and sample duplicate (B1PKY6) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006

The LCS, batch blank, samples and sample duplicate (B1PKR3) results are within contractual requirements.

Gamma Spectroscopy

Gamma Spec (LL) by method RICH-RC-5017:

The LCS, batch blank, samples and sample duplicate (B1PKP7) results are within contractual requirements.

Liquid Scintillation Counting

Technetium-99 by TEVA method RICH-RC-5065:

The LCS, batch blank, samples, sample duplicate (B1PKR7), and sample matrix spike (B1PKR9) results are within contractual requirements.

Tritium by method RICH-RC-5007:

The LCS, batch blank, samples and sample duplicate (B1PKT1) results are within contractual requirements.

Total Uranium

Total Uranium by method RICH-RC-5058:

The LCS, batch blank, samples, sample duplicate (B1PKT3), and sample matrix spike (B1PKT5) 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:

Fluor Hanford
November 26, 2007

Sherryl A. Adam
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.

11/23/2007 11:11:43 AM

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 37464 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.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:
9J7PLL10	B1PKY6		MW6-SBB-A1	X07-048	W05239					09/26/2007 09:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7289514	ALPHA	12587-46-1	2.81E+00	pCi/L	1.4E+00	1.6E+00		1.89E+00	100.0	9310_ALPHABETA	1.471E-01	L	11/09/2007 17:12	I
7289515	BETA	12587-47-2	1.20E+01	pCi/L	2.7E+00	3.1E+00		4.11E+00	100.0	9310_ALPHABETA	1.411E-01	L	11/09/2007 17:53	I
7289516	BE-7	13966-02-4	-1.07E+00	pCi/L	2.0E+01	2.0E+01	U	3.37E+01		GAMMA_GS	2.5001E+00	L	11/08/2007 17:00	I
7289516	CO-60	10198-40-0	2.07E-01	pCi/L	1.6E+00	1.6E+00	U	3.06E+00		GAMMA_GS	2.5001E+00	L	11/08/2007 17:00	I
7289516	CS-134	13967-70-9	1.04E+00	pCi/L	1.7E+00	1.7E+00	U	3.15E+00		GAMMA_GS	2.5001E+00	L	11/08/2007 17:00	I
7289516	CS-137	10045-97-3	-1.89E-01	pCi/L	1.5E+00	1.5E+00	U	2.68E+00		GAMMA_GS	2.5001E+00	L	11/08/2007 17:00	I
7289516	EU-152	14683-23-9	2.99E+00	pCi/L	4.0E+00	4.0E+00	U	7.24E+00		GAMMA_GS	2.5001E+00	L	11/08/2007 17:00	I
7289516	EU-154	15585-10-1	-4.51E-01	pCi/L	4.7E+00	4.7E+00	U	8.36E+00		GAMMA_GS	2.5001E+00	L	11/08/2007 17:00	I
7289516	EU-155	14391-16-3	7.67E-02	pCi/L	2.8E+00	2.8E+00	U	4.92E+00		GAMMA_GS	2.5001E+00	L	11/08/2007 17:00	I
7289516	K-40	13966-00-2	-3.47E+01	pCi/L	3.8E+01	3.8E+01	U	7.76E+01		GAMMA_GS	2.5001E+00	L	11/08/2007 17:00	I
7289516	RU-106	13967-48-1	3.46E+00	pCi/L	1.4E+01	1.4E+01	U	2.53E+01		GAMMA_GS	2.5001E+00	L	11/08/2007 17:00	I
7289516	SB-125	14234-35-6	1.18E+00	pCi/L	3.6E+00	3.6E+00	U	6.46E+00		GAMMA_GS	2.5001E+00	L	11/08/2007 17:00	I
7289509	PU-238	13981-16-3	-6.48E-03	pCi/L	6.6E-02	6.6E-02	U	1.55E-01	103.3	PUISO_PLATE_AE	2.0002E-01	L	11/01/2007 19:18	I
7289509	PU-239	PU-239/240	-1.29E-02	pCi/L	6.7E-02	6.7E-02	U	1.83E-01	103.3	PUISO_PLATE_AE	2.0002E-01	L	11/01/2007 19:18	I
7289517	SR-90	10098-97-2	2.24E-01	pCi/L	2.8E-01	2.8E-01	U	5.73E-01	73.3	SRISO_SEP_PRE	1.0101E+00	L	11/09/2007 07:00	I
7289512	TC-99	14133-76-7	-3.61E+00	pCi/L	4.0E+00	5.6E+00	U	9.89E+00	100.0	TC99_ETVDSK_LS	1.25E-01	L	11/01/2007 02:39	I
7289520	H-3	10028-17-8	8.04E+00	pCi/L	5.4E+00	8.1E+00	U	7.47E+00	100.0	TRITIUM_ELECT_L	1.5001E-01	L	11/13/2007 15:25	I
7289510	Uranium	7440-61-1	2.25E+00	ug/L	2.3E-01	2.3E-01		8.37E-02		UTOT_KPA	2.505E-02	ML	11/09/2007 09:07	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J8M1110	B1PKR2		MW6-SBB-A1	X07-048	W05239					10/10/2007 11:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7289517	SR-90	10098-97-2	2.82E+01	pCi/L	1.0E+00	4.2E+00		4.98E-01	84.8	SRISO_SEP_PRE	9.628E-01	L	11/09/2007 07:00	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:
9J8M1410	B1PKR1		MW6-SBB-A1		W05239					10/10/2007 11:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7289509	PU-238	13981-16-3	-1.28E-02	pCi/L	6.6E-02	6.6E-02	U	1.81E-01	98.0	PUISO_PLATE_AE	2.0006E-01	L	11/01/2007 19:19	I
7289509	PU-239	PU-239/240	1.34E+00	pCi/L	4.1E-01	4.6E-01		1.53E-01	98.0	PUISO_PLATE_AE	2.0006E-01	L	11/01/2007 19:19	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.

11/23/2007 11:11:43 AM

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 37464 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.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:
9J8M1610	B1PKP9		MW6-SBB-A1	X07-048	W05239					10/10/2007 11:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7289509	PU-238	13981-16-3	0.00E+00	pCi/L	1.1E-01	1.1E-01	U	2.52E-01	64.4	PUISO_PLATE_AE	2.0005E-01	L	11/01/2007 19:19	I
7289509	PU-239	PU-239/240	2.00E+00	pCi/L	6.5E-01	7.3E-01		2.52E-01	64.4	PUISO_PLATE_AE	2.0005E-01	L	11/01/2007 19:19	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:
9J8M1710	B1PKT0		MW6-SBB-A1	X07-048	W05239					10/10/2007 11:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7289520	H-3	10028-17-8	2.72E+02	pCi/L	1.6E+01	5.0E+01		7.49E+00	100.0	TRITIUM_ELECT_L	1.50E-01	L	11/13/2007 15:25	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:
9J8M1910	B1PKP7		MW6-SBB-A1	X07-048	W05239					10/10/2007 11:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7289516	BE-7	13966-02-4	1.89E+00	pCi/L	1.6E+01	1.6E+01	U	2.80E+01		GAMMA_GS	2.5001E+00	L	11/08/2007 17:01	I
7289516	CO-60	10198-40-0	8.70E+01	pCi/L	1.3E+01	1.3E+01		2.04E+00		GAMMA_GS	2.5001E+00	L	11/08/2007 17:01	I
7289516	CS-134	13967-70-9	2.35E-01	pCi/L	1.4E+00	1.4E+00	U	2.42E+00		GAMMA_GS	2.5001E+00	L	11/08/2007 17:01	I
7289516	CS-137	10045-97-3	2.28E+02	pCi/L	2.8E+01	2.8E+01		2.23E+00		GAMMA_GS	2.5001E+00	L	11/08/2007 17:01	I
7289516	EU-152	14683-23-9	2.53E+00	pCi/L	3.5E+00	3.5E+00	U	6.21E+00		GAMMA_GS	2.5001E+00	L	11/08/2007 17:01	I
7289516	EU-154	15585-10-1	-1.85E+00	pCi/L	3.1E+00	3.1E+00	U	5.19E+00		GAMMA_GS	2.5001E+00	L	11/08/2007 17:01	I
7289516	EU-155	14391-16-3	4.42E-01	pCi/L	2.8E+00	2.8E+00	U	4.78E+00		GAMMA_GS	2.5001E+00	L	11/08/2007 17:01	I
7289516	K-40	13966-00-2	1.94E+01	pCi/L	2.2E+01	2.2E+01	U	1.73E+01		GAMMA_GS	2.5001E+00	L	11/08/2007 17:01	I
7289516	RU-106	13967-48-1	-8.17E+00	pCi/L	1.2E+01	1.2E+01	U	2.00E+01		GAMMA_GS	2.5001E+00	L	11/08/2007 17:01	I
7289516	SB-125	14234-35-6	3.34E+00	pCi/L	3.5E+00	3.5E+00	U	6.34E+00		GAMMA_GS	2.5001E+00	L	11/08/2007 17:01	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:
9J8M1Q10	B1PKR3		MW6-SBB-A1	X07-048	W05239					10/10/2007 11:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7289517	SR-90	10098-97-2	3.30E+01	pCi/L	1.2E+00	4.9E+00		6.55E-01	67.0	SRISO_SEP_PRE	1.0047E+00	L	11/09/2007 07:00	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:
9J8M1V10	B1PKR6		MW6-SBB-A1	X07-048	W05239					10/10/2007 11:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7289517	SR-90	10098-97-2	1.81E+03	pCi/L	1.2E+01	2.6E+02		8.41E-01	75.3	SRISO_SEP_PRE	9.813E-01	L	11/09/2007 10:14	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.

11/23/2007 11:11:43 AM

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 37464 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.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:
9J8M2010	B1PKT5		MW6-SBB-A1	X07-048	W05239					10/10/2007 11:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7289510	Uranium	7440-61-1	3.60E+02	ug/L	4.2E+01	4.2E+01		8.37E-02		UTOT_KPA	2.504E-02	ML	11/09/2007 09:21	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:
9J8M2510	B1PKT4		MW6-SBB-A1	X07-048	W05239					10/10/2007 11:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7289510	Uranium	7440-61-1	3.90E+02	ug/L	4.6E+01	4.6E+01		8.37E-02		UTOT_KPA	2.504E-02	ML	11/09/2007 09:29	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:
9J8M2G10	B1PKT2		MW6-SBB-A1	X07-048	W05239					10/10/2007 11:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7289520	H-3	10028-17-8	3.12E+02	pCi/L	1.6E+01	5.7E+01		7.47E+00	100.0	TRITIUM_ELECT_L	1.50E-01	L	11/13/2007 15:25	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:
9J8M2L10	B1PKT3		MW6-SBB-A1	X07-048	W05239					10/10/2007 11:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7289510	Uranium	7440-61-1	3.69E+02	ug/L	4.3E+01	4.3E+01		8.38E-02		UTOT_KPA	2.501E-02	ML	11/09/2007 09:12	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:
9J8M3A10	B1PKP4		MW6-SBB-A1	X07-048	W05239					10/10/2007 11:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7289515	BETA	12587-47-2	1.18E+02	pCi/L	6.3E+00	1.6E+01		4.33E+00	100.0	9310_ALPHABETA	1.41E-01	L	11/09/2007 17:53	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:
9J8M3A20	B1PKP4		MW6-SBB-A1	X07-048	W05239					10/10/2007 11:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7316339	ALPHA	12587-46-1	9.76E+01	pCi/L	1.1E+01	2.5E+01		2.63E+00	100.0	9310_ALPHABETA	1.3004E-01	L	11/14/2007 10:37	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:
9J8M3F10	B1PKT1		MW6-SBB-A1	X07-048	W05239					10/10/2007 11:45

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

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 37464 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7289520	H-3	10028-17-8	3.00E+02	pCi/L	1.6E+01	5.5E+01		7.53E+00	100.0	TRITIUM_ELECT_L	1.50E-01	L	11/13/2007 15:25	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:
9J8MQ010	B1PKR8		MW6-SBB-A1	X07-048	W05239					10/10/2007 11:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7289512	TC-99	14133-76-7	1.05E+02	pCi/L	6.9E+00	1.2E+01		9.91E+00	100.0	TC99_ETVDSK_LS	1.2502E-01	L	11/01/2007 02:39	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:
9J8MR310	B1PKR0		MW6-SBB-A1	X07-048	W05239					10/10/2007 11:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7289509	PU-238	13981-16-3	9.87E-02	pCi/L	1.4E-01	1.4E-01	U	2.36E-01	65.6	PUISO_PLATE_AE	2.0001E-01	L	11/01/2007 19:19	I
7289509	PU-239	PU-239/240	1.46E+00	pCi/L	5.5E-01	6.0E-01		4.05E-01	65.6	PUISO_PLATE_AE	2.0001E-01	L	11/01/2007 19:19	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:
9J8MRE10	B1PKR9		MW6-SBB-A1	X07-048	W05239					10/10/2007 11:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7289512	TC-99	14133-76-7	8.82E+01	pCi/L	6.5E+00	1.1E+01		9.90E+00	100.0	TC99_ETVDSK_LS	1.2501E-01	L	11/01/2007 02:39	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:
9J8MRM10	B1PKR7		MW6-SBB-A1	X07-048	W05239					10/10/2007 11:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7289517	SR-90	10098-97-2	2.12E+03	pCi/L	1.3E+01	3.0E+02		8.84E-01	75.9	SRISO_SEP_PRE	9.789E-01	L	11/09/2007 08:22	I
7289512	TC-99	14133-76-7	1.00E+02	pCi/L	6.7E+00	1.2E+01		9.89E+00	100.0	TC99_ETVDSK_LS	1.2502E-01	L	11/01/2007 02:39	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:
9J8MTN10	B1PKR4		MW6-SBB-A1	X07-048	W05239					10/10/2007 11:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7289517	SR-90	10098-97-2	3.22E+01	pCi/L	1.2E+00	4.8E+00		6.39E-01	70.2	SRISO_SEP_PRE	9.909E-01	L	11/09/2007 07:00	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:
9J8MVJ10	B1PKR5		MW6-SBB-A1	X07-048	W05239					10/10/2007 11:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7289517	SR-90	10098-97-2	2.13E+03	pCi/L	1.3E+01	3.1E+02		8.29E-01	75.0	SRISO_SEP_PRE	9.73E-01	L	11/09/2007 09:17	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.

Friday, November 23, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.Edd

Lab Sample Id:	J83801AB	**Sdg/Rept Nbr:**	W05239 37464	**Collection Date:**	10/10/2007 11:45
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	10/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7289510	Uranium	-1.68E-03	ug/L	2.2E-04	U	8.38E-02			UTOT_KPA	2.502E-02	11/09/2007				D
BLK	7440-61-1			2.2E-04						ML	08:59				

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.

Friday, November 23, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.Edd

Lab Sample Id:	J83831AB	**Sdg/Rept Nbr:**	W05239	37464	**Collection Date:** 10/10/2007 11:45
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 10/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7289512	TC-99	3.39E-01	pCi/L	5.8E+00	U	9.90E+00	100.0		TC99_ETVDSK	1.2504E-01	11/01/2007				D
BLK	14133-76-7			4.1E+00						L	02:39				

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.

Friday, November 23, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.Edd

Lab Sample Id:	J83841AB	Sdg/Rept Nbr:	W05239 37464	Collection Date:	10/10/2007 11:45
Client Id:	NA	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	BLK	Received Date:	10/10/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
7289514	ALPHA	9.54E-02	pCi/L	3.0E-01	U	7.06E-01	100.0		9310_ALPHAB	2.001E-01	11/09/2007				D
BLK	12587-46-1			3.0E-01						L	17:12				

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.

Friday, November 23, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.Edd

Lab Sample Id:	J83861AB	**Sdg/Rept Nbr:**	W05239	37464	**Collection Date:** 09/26/2007 09:45
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 09/26/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
7289515	BETA	5.04E-01	pCi/L	1.5E+00	U	3.16E+00	100.0		9310_ALPHAB	2.001E-01	11/09/2007				D
BLK	12587-47-2			1.5E+00						L	17:53				

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.

Friday, November 23, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.Edd

Lab Sample Id:	J83881AB	Sdg/Rept Nbr:	W05239	37464	Collection Date: 10/10/2007 11:45
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BLK		Received Date: 10/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7289516	BE-7	-3.63E+00	pCi/L	1.2E+01	U	1.96E+01			GAMMA_GS	2.5003E+00	11/08/2007				D
BLK	13966-02-4			1.2E+01						L	17:09				
7289516	CO-60	5.68E-01	pCi/L	1.1E+00	U	2.06E+00			GAMMA_GS	2.5003E+00	11/08/2007				D
BLK	10198-40-0			1.1E+00						L	17:09				
7289516	CS-134	1.46E-01	pCi/L	1.0E+00	U	1.88E+00			GAMMA_GS	2.5003E+00	11/08/2007				D
BLK	13967-70-9			1.0E+00						L	17:09				
7289516	CS-137	-6.26E-01	pCi/L	1.1E+00	U	1.81E+00			GAMMA_GS	2.5003E+00	11/08/2007				D
BLK	10045-97-3			1.1E+00						L	17:09				
7289516	EU-152	6.67E-01	pCi/L	2.8E+00	U	5.02E+00			GAMMA_GS	2.5003E+00	11/08/2007				D
BLK	14683-23-9			2.8E+00						L	17:09				
7289516	EU-154	-3.20E-01	pCi/L	3.0E+00	U	5.39E+00			GAMMA_GS	2.5003E+00	11/08/2007				D
BLK	15585-10-1			3.0E+00						L	17:09				
7289516	EU-155	4.29E-01	pCi/L	2.3E+00	U	4.01E+00			GAMMA_GS	2.5003E+00	11/08/2007				D
BLK	14391-16-3			2.3E+00						L	17:09				
7289516	K-40	-8.63E+00	pCi/L	1.6E+01	U	2.95E+01			GAMMA_GS	2.5003E+00	11/08/2007				D
BLK	13966-00-2			1.6E+01						L	17:09				
7289516	RU-106	-8.37E+00	pCi/L	1.0E+01	U	1.68E+01			GAMMA_GS	2.5003E+00	11/08/2007				D
BLK	13967-48-1			1.0E+01						L	17:09				
7289516	SB-125	2.72E+00	pCi/L	2.8E+00	U	5.22E+00			GAMMA_GS	2.5003E+00	11/08/2007				D
BLK	14234-35-6			2.8E+00						L	17:09				

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.

Friday, November 23, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.Edd

Lab Sample Id:	J838W1AB	**Sdg/Rept Nbr:**	W05239 37464	**Collection Date:**	10/10/2007 11:45
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	10/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7289509	PU-238	4.44E-02	pCi/L	9.1E-02	U	2.13E-01	70.6		PUISO_PLATE	2.0005E-01	11/01/2007				D
BLK	13981-16-3			9.1E-02						L	19:20				
7289509	PU-239	1.77E-02	pCi/L	9.4E-02	U	2.80E-01	70.6		PUISO_PLATE	2.0005E-01	11/01/2007				D
BLK	PU-239/240			9.4E-02						L	19:20				

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.

Friday, November 23, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.Edd

Lab Sample Id:	J839D1AB	**Sdg/Rept Nbr:**	W05239 37464	**Collection Date:**	10/10/2007 11:45
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	10/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7289517	SR-90	5.32E-01	pCi/L	3.5E-01	U	6.80E-01	63.9		SRISO_SEP_P	1.0007E+00	11/09/2007				D
BLK	10098-97-2			3.5E-01						L	07:00				

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.

Friday, November 23, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.Edd

Lab Sample Id:	J839F1AB	**Sdg/Rept Nbr:**	W05239	37464	**Collection Date:** 10/10/2007 11:45
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 10/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7289520	H-3	3.27E+00	pCi/L	7.8E+00	U	7.47E+00	100.0		TRITIUM_ELE	1.50E-01	11/13/2007				D
BLK	10028-17-8			5.2E+00						L	15:25				

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.

Friday, November 23, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.Edd

Lab Sample Id:	KA3JT1AB	**Sdg/Rept Nbr:**	W05239 37464	**Collection Date:**	10/10/2007 11:45
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	10/10/2007

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
7316339	ALPHA	-1.06E-02	pCi/L	2.2E-01	U	8.02E-01	100.0		9310_ALPHAB	2.0013E-01	11/14/2007				D
BLK	12587-46-1			2.2E-01						L	10:37				

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.

Friday, November 23, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.Edd

Lab Sample Id:	J83801CS	**Sdg/Rept Nbr:**	W05239	37464	**Collection Date:** 10/10/2007 11:45
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 10/10/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								AX	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
7289510	Uranium	3.36E+01	ug/L	3.9E+00		8.38E-02		3.64E+01	UTOT_KPA	2.502E-02	11/09/2007			70	D
BS	7440-61-1			3.9E+00				92.4		ML	09:03			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.

Friday, November 23, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.Edd

Lab Sample Id:	J83801DS	**Sdg/Rept Nbr:**	W05239	37464	**Collection Date:** 10/10/2007 11:45
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 10/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7289510	Uranium	3.05E+00	ug/L	3.1E-01		8.38E-02		3.61E+00	UTOT_KPA	2.502E-02	11/09/2007			70	D
BS	7440-61-1			3.1E-01				84.4		ML	09:05			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.

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Friday, November 23, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.Edd

Lab Sample Id:	J83831CS	**Sdg/Rept Nbr:**	W05239	37464	**Collection Date:** 10/10/2007 11:45
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 10/10/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
7289512	TC-99	4.63E+02	pCi/L	3.3E+01		9.90E+00	100.0	5.42E+02	TC99_ETVDSK	1.2502E-01	11/01/2007			70	D
BS	14133-76-7			1.2E+01				85.5		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.

Friday, November 23, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.Edd

Lab Sample Id:	J83841CS	**Sdg/Rept Nbr:**	W05239 37464	**Collection Date:**	10/10/2007 11:45
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	10/10/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
7289514	ALPHA	1.98E+01	pCi/L	5.0E+00		6.42E-01	100.0	2.26E+01	9310_ALPHAB	2.005E-01	11/09/2007			70	D
BS	12587-46-1			2.0E+00				87.3		L	17:12			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.

Friday, November 23, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.Edd

Lab Sample Id:	J83861CS	Sdg/Rept Nbr:	W05239 37464	Collection Date:	09/26/2007 09:45
Client Id:	NA	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	BS	Received Date:	09/26/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
7289515	BETA	2.14E+01	pCi/L	3.6E+00		2.66E+00	100.0	2.24E+01	9310_ALPHAB	2.001E-01	11/09/2007			70	D
BS	12587-47-2			2.4E+00				95.5		L	17:53			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.

Friday, November 23, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.Edd

Lab Sample Id:	J83881CS	**Sdg/Rept Nbr:**	W05239	37464	**Collection Date:** 10/10/2007 11:45
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 10/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7289516	CO-60	3.56E+01	pCi/L	6.8E+00		2.67E+00		3.01E+01	GAMMA_GS	2.5001E+00	11/08/2007			70	D
BS	10198-40-0			6.8E+00				118.4		L	17:09			130	
7289516	CS-137	4.28E+01	pCi/L	6.7E+00		2.97E+00		3.96E+01	GAMMA_GS	2.5001E+00	11/08/2007			70	D
BS	10045-97-3			6.7E+00				108.2		L	17:09			130	
7289516	EU-152	7.02E+01	pCi/L	1.3E+01		6.61E+00		6.09E+01	GAMMA_GS	2.5001E+00	11/08/2007			70	D
BS	14683-23-9			1.3E+01				115.3		L	17:09			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.

Friday, November 23, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.Edd

Lab Sample Id:	J838W1CS	**Sdg/Rept Nbr:**	W05239 37464	**Collection Date:**	10/10/2007 11:45
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	10/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7289509	PU-239	4.47E+00	pCi/L	1.3E+00		2.93E-01	53.3	4.61E+00	PUISO_PLATE	2.0004E-01	11/01/2007			70	D
BS	PU-239/240			1.0E+00				96.9		L	19:20			130	

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

Friday, November 23, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.Edd

Lab Sample Id:	J839D1CS	**Sdg/Rept Nbr:**	W05239	37464	**Collection Date:** 10/10/2007 11:45
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 10/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7289517	SR-90	1.44E+01	pCi/L	2.2E+00		6.25E-01	62.8	1.36E+01	SRISO_SEP_P	9.999E-01	11/09/2007			70	D
BS	10098-97-2			8.4E-01				106.3		L	07:00			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.

Friday, November 23, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.Edd

Lab Sample Id:	J839F1CS	**Sdg/Rept Nbr:**	W05239	37464	**Collection Date:** 10/10/2007 11:45
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 10/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7289520	H-3	5.65E+02	pCi/L	1.0E+02		7.50E+00	100.0	4.53E+02	TRITIUM_ELE	1.5002E-01	11/13/2007			70	D
BS	10028-17-8			2.2E+01				124.9		L	15:25			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.

Friday, November 23, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.Edd

Lab Sample Id:	KA3JT1CS	**Sdg/Rept Nbr:**	W05239 37464	**Collection Date:**	10/10/2007 11:45
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	10/10/2007

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
7316339	ALPHA	2.12E+01	pCi/L	5.7E+00		1.05E+00	100.0	2.26E+01	9310_ALPHAB	2.0055E-01	11/14/2007			70	D
BS	12587-46-1			3.0E+00				93.9		L	10:37			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.

Friday, November 23, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.Edd

Lab Sample Id:	J7PLL1KR	**Sdg/Rept Nbr:**	W05239	37464	**Collection Date:** 09/26/2007 09:45
Client Id:	B1PKY6	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 09/26/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
X07-048	MW6-SBB-A19981								AV	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7289515	BETA	8.72E+00	pCi/L	2.7E+00		3.96E+00	100.0		9310_ALPHAB	1.411E-01	11/09/2007	31.4	1.7		D
DUP	12587-47-2	1.20E+01		2.4E+00						L	17:53	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.

Friday, November 23, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.Edd

Lab Sample Id:	J8M191CR	**Sdg/Rept Nbr:**	W05239	37464	**Collection Date:** 10/10/2007 11:45
Client Id:	B1PKP7	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 10/10/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
X07-048	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
7289516	BE-7	1.49E+01	pCi/L	2.2E+01	U	3.77E+01			GAMMA_GS	2.5001E+00	11/08/2007	154.8	0.8		D
DUP	13966-02-4	1.89E+00		2.2E+01						L	20:46	20.0	3		
7289516	CO-60	8.46E+01	pCi/L	1.2E+01		3.12E+00			GAMMA_GS	2.5001E+00	11/08/2007	2.8	0.3		D
DUP	10198-40-0	8.70E+01		1.2E+01						L	20:46	20.0	3		
7289516	CS-134	2.88E-01	pCi/L	1.9E+00	U	3.21E+00			GAMMA_GS	2.5001E+00	11/08/2007	20.6	0.		D
DUP	13967-70-9	2.35E-01		1.9E+00						L	20:46	20.0	3		
7289516	CS-137	2.35E+02	pCi/L	2.9E+01		2.88E+00			GAMMA_GS	2.5001E+00	11/08/2007	3.2	0.4		D
DUP	10045-97-3	2.28E+02		2.9E+01						L	20:46	20.0	3		
7289516	EU-152	1.03E+00	pCi/L	4.7E+00	U	7.99E+00			GAMMA_GS	2.5001E+00	11/08/2007	84.6	0.5		D
DUP	14683-23-9	2.53E+00		4.7E+00						L	20:46	20.0	3		
7289516	EU-154	-5.20E-01	pCi/L	4.2E+00	U	7.43E+00			GAMMA_GS	2.5001E+00	11/08/2007	0.0	0.5		D
DUP	15585-10-1	-1.85E+00		4.2E+00						L	20:46	20.0	3		
7289516	EU-155	-1.58E+00	pCi/L	4.2E+00	U	7.08E+00			GAMMA_GS	2.5001E+00	11/08/2007	0.0	0.7		D
DUP	14391-16-3	4.42E-01		4.2E+00						L	20:46	20.0	3		
7289516	K-40	-1.34E+01	pCi/L	4.0E+01	U	8.13E+01			GAMMA_GS	2.5001E+00	11/08/2007	1110.8	1.2		D
DUP	13966-00-2	1.94E+01		4.0E+01						L	20:46	20.0	3		
7289516	RU-106	1.71E+00	pCi/L	1.6E+01	U	2.72E+01			GAMMA_GS	2.5001E+00	11/08/2007	0.0	0.9		D
DUP	13967-48-1	-8.17E+00		1.6E+01						L	20:46	20.0	3		
7289516	SB-125	5.44E-01	pCi/L	5.0E+00	U	8.55E+00			GAMMA_GS	2.5001E+00	11/08/2007	144.1	0.8		D
DUP	14234-35-6	3.34E+00		5.0E+00						L	20:46	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.

Friday, November 23, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.Edd

Lab Sample Id:	J8M1Q1CR	**Sdg/Rept Nbr:**	W05239 37464	**Collection Date:**	10/10/2007 11:45
Client Id:	B1PKR3	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	10/10/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
X07-048	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
7289517	SR-90	3.09E+01	pCi/L	4.6E+00		5.47E-01	75.7		SRISO_SEP_P	9.86E-01	11/09/2007	6.5	0.6		D
DUP	10098-97-2	3.30E+01		1.1E+00						L	07:00	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.

Friday, November 23, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.Edd

Lab Sample Id:	J8M2L1CR	**Sdg/Rept Nbr:**	W05239 37464	**Collection Date:**	10/10/2007 11:45
Client Id:	B1PKT3	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	10/10/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
X07-048	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
7289510	Uranium	3.60E+02	ug/L	4.2E+01		8.37E-02			UTOT_KPA	2.503E-02	11/09/2007	2.6	0.3		D
DUP	7440-61-1	3.69E+02		4.2E+01						ML	09:16	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.

Friday, November 23, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.Edd

Lab Sample Id:	J8M3A1DR	**Sdg/Rept Nbr:**	W05239 37464	**Collection Date:**	10/10/2007 11:45
Client Id:	B1PKP4	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	10/10/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
X07-048	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
7289514	ALPHA	8.51E+01	pCi/L	2.1E+01		2.01E+00	100.0		9310_ALPHAB	1.28E-01	11/09/2007	13.7	0.8		D
DUP	12587-46-1	9.76E+01		7.0E+00						L	17:12	20.0	3		

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

Friday, November 23, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.Edd

Lab Sample Id:	J8M3F1CR	**Sdg/Rept Nbr:**	W05239	37464	**Collection Date:** 10/10/2007 11:45
Client Id:	B1PKT1	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 10/10/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
X07-048	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
7289520	H-3	3.48E+02	pCi/L	6.3E+01		7.49E+00	100.0		TRITIUM_ELE	1.50E-01	11/13/2007	15.0	1.1		D
DUP	10028-17-8	3.00E+02		1.7E+01						L	15:25	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.

Friday, November 23, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.Edd

Lab Sample Id:	J8MR31CR	**Sdg/Rept Nbr:**	W05239	37464	**Collection Date:** 10/10/2007 11:45
Client Id:	B1PKR0	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 10/10/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
X07-048	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
7289509	PU-238	-7.72E-03	pCi/L	7.9E-02	U	1.85E-01	84.6		PUISO_PLATE	2.0003E-01	11/01/2007	234.0	1.9		D
DUP	13981-16-3	9.87E-02		7.9E-02						L	19:19	20.0	3		
7289509	PU-239	2.31E+00	pCi/L	7.0E-01		1.85E-01	84.6		PUISO_PLATE	2.0003E-01	11/01/2007	45.1	1.7		D
DUP	PU-239/240	1.46E+00		6.0E-01						L	19:19	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.

Friday, November 23, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.Edd

Lab Sample Id:	J8MRM1DR	**Sdg/Rept Nbr:**	W05239	37464	**Collection Date:** 10/10/2007 11:45
Client Id:	B1PKR7	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 10/10/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
X07-048	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
7289512	TC-99	1.05E+02	pCi/L	1.2E+01		9.93E+00	100.0		TC99_ETVDSK	1.2502E-01	11/01/2007	5.3	0.6		D
DUP	14133-76-7	1.00E+02		6.9E+00						L	02:39	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.

Friday, November 23, 2007

TAL Richland Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.Edd

Lab Sample Id:	J8M201CW	**Sdg/Rept Nbr:**	W05239 37464	**Collection Date:**	10/10/2007 11:45
Client Id:	B1PKT5	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	MS	**Received Date:**	10/10/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
X07-048	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
7289510	Uranium	3.41E+01	ug/L	6.3E+01	U	8.37E-02		3.63E+01	UTOT_KPA	2.504E-02	11/09/2007			60	D
MS	7440-61-1			6.3E+01				93.9		ML	09:25			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.

Friday, November 23, 2007

TAL Richland Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05239.Edd, h:\Reportdb\edd\FeadIV\Rad\37464.Edd

Lab Sample Id:	J8MRE1CW	**Sdg/Rept Nbr:**	W05239	37464	**Collection Date:** 10/10/2007 11:45
Client Id:	B1PKR9	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	MS		**Received Date:** 10/10/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
X07-048	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
7289512	TC-99	3.34E+03	pCi/L	2.0E+02		9.92E+00	100.0	3.60E+03	TC99_ETVDSK	1.2501E-01	11/01/2007			60	D
MS	14133-76-7			3.1E+01				92.6		L	02:39			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

11/8/2007 8:04:00 AM

Lot No., Due Date: J7I260322,J7J100335; 11/26/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7289509; RPUISO Pulso by ALP

SDG, Matrix: W05239; 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 Horton **Date** 11-5-7

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Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 7L89509
W05239

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: 11-8-07

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

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/20/2007 2:30:52 PM

Lot No., Due Date: J7I260322,J7J100335; 11/26/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7289514; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05239; 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:
NCM 10-11276

First Level Review Lisa Anderson **Date** 11/20/07

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Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7Z89214 W05239

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 Adams Date: 11-21-07

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

Clouseau
Nonconformance Memo

TestAmerica

NCM #:	10-11276		
NCM Initiated By:	Lisa Antonson	Classification:	**Deficiency**
Date Opened:	11/20/2007	Status:	**PMREVIEW**
Date Closed:		Production Area:	Environmental - Prep
		Tests:	Alpha by GPC-Am
		Lot #'s (Sample #'s):	J7I260322 (1), J7J100335 (18), J7J160000 (514),
		QC Batches:	7289514,
Nonconformance:	Other (describe in detail)		
Subcategory:	Other (explanation required)		

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	11/20/2007	Sample J8M3A in this batch was spilled during processing. The duplicate was on this sample, and had acceptable results. The sample was rerun in batch 7316339. The RPD was 13.6836.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	11/20/2007	The sample was rerun with good results.

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

11/20/2007 2:31:51 PM

Lot No., Due Date: J7J100335; 11/26/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7316339; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05239; 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:
NCM 10-11276

First Level Review Kim Anderson **Date** 11/20/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7316339
W0J239

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: 11-21-07

Clouseau
Nonconformance Memo

TestAmerica

NCM #:	10-11276		
NCM Initiated By:	Lisa Antonson	Classification:	**Deficiency**
Date Opened:	11/20/2007	Status:	**PMREVIEW**
Date Closed:		Production Area:	Environmental - Prep
		Tests:	Alpha by GPC-Am
		Lot #'s (Sample #'s):	J7I260322 (1), J7J100335 (18), J7J160000 (514),
		QC Batches:	7289514,
Nonconformance:	Other (describe in detail)		
Subcategory:	Other (explanation required)		

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	11/20/2007	Sample J8M3A in this batch was spilled during processing. The duplicate was on this sample, and had acceptable results. The sample was rerun in batch 7316339. The RPD was 13.6836.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	11/20/2007	The sample was rerun with good results.

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

11/12/2007 1:43:34 PM

Lot No., Due Date: J7I260322,J7J100335; 11/26/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7289515; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05239; 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:
Please see NCM#10-11206

First Level Review John Norton **Date** 11-12-7

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 728951 5
W05239

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: 11-13-07

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-11206**
NCM Initiated By: John Norton
Date Opened: 11/12/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Beta by GPC-Sr/Y
Lot #'s (Sample #'s): J7I260322 (1), J7J100335 (18), J7J160000 (515),
QC Batches: 7289515,

Nonconformance: MDA not met
Subcategory: Data accepted

Problem Description / Root Cause

Name	Date	Description
John Norton	11/12/2007	1: Samples J7I260322-1 and J7J100335-18 did not meet the RDL due to reduced aliquot sizes caused by high residual weights. 2: The relative percent difference between the duplicate and sample is unacceptably high at 31.66%.

Corrective Action

Name	Date	Corrective Action
John Norton	11/12/2007	1: In each case the sample activity is greater than the IDC, the data can be accepted. 2: The activity found in the sample and duplicate is less than five times the RDL, and the difference in activity between the sample and duplicate is less than one RDL, according to contractual agreement 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

Date Printed: 11/12/2007

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/12/2007 8:48:01 AM

Lot No., Due Date: J7I260322,J7J100335; 11/26/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7289517; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05239; 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 Lisa Anderson **Date** 11/12/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7289517
W05239

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 Allen Date: 11-12-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/12/2007 8:45:48 AM

Lot No., Due Date: J7I260322,J7J100335; 11/26/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7289516; RGAMMA Gamma by GER

SDG, Matrix: W05239; 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 Lisa Anderson **Date** 11/12/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7289516
W05239

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 Kelsey Date: 11-12-07

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

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/23/2007 9:34:16 AM

Lot No., Due Date: J7I260322,J7J100335; 11/26/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7289512; RTC99 Tc-99 by LSC

SDG, Matrix: W05239; 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 [signature] **Date** 11/23/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 7289512
W05239

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 K Adam Date: 11-23-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/20/2007 2:18:18 PM

Lot No., Due Date: J7I260322,J7J100335; 11/26/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7289520; RH3EE H3EE by LSC

SDG, Matrix: W05239; 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 Lisa Antonson **Date** 11/20/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7L9520
W05239

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: 11-21-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/12/2007 1:20:49 PM

Lot No., Due Date: J7I260322,J7J100335; 11/26/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7289510; RUNAT UNat by KPA

SDG, Matrix: W05239; 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 [signature] **Date** 11-12-7

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7289510
W05239

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: 11-13-07

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # X07-048-70

Page 1 of 1

J7I260323 W05239 DUE 11-9-07 J7PLL

Collector: Kevin Patterson, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN: FAX
SAF No.: X07-048	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SPECIAL SAMPLING, SEPTEMBER 2007	Logbook: HNF-N-506-9	Ice Chest No.: GW-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
B1PKY6		W	9/26/07	0945	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1PKY6		W			1x20-mL P	Activity Scan	None
B1PKY6		W			3x1000-mL G/P	GAMMA_GS: List-1 (10)	HNO3 to pH <2
B1PKY6		W			1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	HNO3 to pH <2
B1PKY6		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1PKY6		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1PKY6		W			3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None
B1PKY6		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

L Wall 9/26/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Kevin Patterson, Fluor Hanford			SEP 26 2007 1400		WLANE TAL-R		SEP 26 2007 1400
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

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 9-26-07 1400

Client: PGW **SDG #:** W05037 NA[ ] **SAF #:** X07-048 NA [ ]

Work Order Number: J7 F260032 **Chain of Custody #** X07-048-70

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:** 9-26-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

FAX RETURN

FLUOR HANFORD

Fluor Hanford
L. D. WALL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J100335 W05234 Due 11.23.07

C.O.C. # **X07-048-25**

Page 1 of 1

Collector Fluor Hanford L. D. WALL	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. X07-048	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SPECIAL SAMPLING, SEPTEMBER 2007	HNF-N-506-11	**Ice Chest No.** GRP-03-628 **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 ☐
Do not combine X SAF samples with other sets. Need SDG to be stand alone.
All labs except WSCF: Do not exceed SDG closure of 14 days.
WSCF: SDG will close on a daily basis; X SAF samples into own SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PKR8		W	10/10/07	1145	1x20-mL P	Activity Scan	None
B1PKR8		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						J8MQ0	

Rec 10/10/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L. D. WALL	L.D. Wall		OCT 10 2007 1450	S. Smith	S. Smith		OCT 10 2007 1510
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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J100335 W05239 Due 11-23-07

C.O.C. # X07-048-26

Page 1 of 1

Collector: Fluor Hanford L. D. WALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: X07-048	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SPECIAL SAMPLING, SEPTEMBER 2007	HNF-N-506-11	Ice Chest No.: GRR03-028 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 ☐
Do not combine X SAF samples with other sets. Need SDG to be stand alone.
All labs except WSCF: Do not exceed SDG closure of 14 days.
WSCF: SDG will close on a daily basis; X SAF samples into own SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PKR9		W	10/10/07	1145	1x20-mL P	Activity Scan	None
B1PKR9		W	↓		1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						J8mRE	

DRW 10/10/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L. D. WALL	L. D. Wall	L. D. Wall	OCT 10 2007 1450	S. Smith	S. Smith	S. Smith	OCT 10 2007 1450
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 = 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

J7J100335 W05239 Due 11-23-07

C.O.C. # X07-048-24

Page 1 of 1

Collector: Fluor Hanford L. D. WALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: X07-048	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SPECIAL SAMPLING, SEPTEMBER 2007	HNF-N-506-11	Ice Chest No. 6RP-03-028 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 ☐
Do not combine X SAF samples with other sets. Need SDG to be stand alone.
All labs except WSCF: Do not exceed SDG closure of 14 days.
WSCF: SDG will close on a daily basis; X SAF samples into own SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PKR7		W	10/10/07	1145	1x20-mL P	Activity Scan	None
B1PKR7		W	↓		3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1PKR7		W	↓		1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						J 8mRm	
			DRW 10/10/07				

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
Fluor Hanford L. D. WALL	L. D. Wall	1450 OCT 10 2007	S. Smith	S. Smith	1450 OCT 10 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

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J100335 W05239 Due 11-23-07

C.O.C. # X07-048-17

Page 1 of 1

Collector: Fluor Hanford L.D. WALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: X07-048	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SPECIAL SAMPLING, SEPTEMBER 2007	HNF-N-506-11	Ice Chest No.: GRP03-028 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 ☐

Do not combine X SAF samples with other sets. Need SDG to be stand alone.
All labs except WSCF: Do not exceed SDG closure of 14 days.
WSCF: SDG will close on a daily basis; X SAF samples into own SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PKR0		W	10/10/07	1145	1x20-mL P	Activity Scan	None
B1PKR0		W	↓	↓	1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	HNO3 to pH <2
						J8MR3	

DRW 10/10/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L.D. WALL	L.D. Wall	L.D. Wall	OCT 10 2007 1450		S. Smith	S. Smith	OCT 10 2007 1450
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. # X07-048-21
	JJ100335 W05239 Due 11-23-07	Page 1 of 1

Collector: Fluor Hanford L. D. WALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: X07-048	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SPECIAL SAMPLING, SEPTEMBER 2007	HNF-N-506-11	Ice Chest No.: GRP-03-028 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 ☐
Do not combine X SAF samples with other sets. Need SDG to be stand alone.
All labs except WSCF: Do not exceed SDG closure of 14 days.
WSCF: SDG will close on a daily basis; X SAF samples into own SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PKR4		W	10/10/07	1145	1x20-mL P	Activity Scan	None
B1PKR4		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						J8MTN	
						DOW 10/10/07	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L. D. WALL	L. D. Wall		OCT 10 2007 1450		S. Smith	S. Smith	OCT 10 2007 1450
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 = 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

J7J100335 W05239 Due 11-23-07

C.O.C. # X07-048-22

Page 1 of 1

Collector: Fluor Hanford L. D. WALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: X07-048	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SPECIAL SAMPLING, SEPTEMBER 2007	HNF-N-506-11	Ice Chest No.: GRP-03-028 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 ☐
Do not combine X SAF samples with other sets. Need SDG to be stand alone.
All labs except WSCF: Do not exceed SDG closure of 14 days.
WSCF: SDG will close on a daily basis; X SAF samples into own SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PKR5		W	10/10/07	1145	1x20-mL P	Activity Scan	None
B1PKR5		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

JBmKJ

LDW 10/10/07

Relinquished By	Date/Time	Received By	Date/Time
Fluor Hanford L. D. WALL (Print) L. D. Wall (Sign)	OCT 10 2007 1450	S. Bm. TH (Print) S. Bm. TH (Sign)	OCT 10 2007 1450
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 = 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

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FAF RECEIVED

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

JTJ100335 W05239 Due 11-23-07

C.O.C. # X07-048-20

Page 1 of 1

Collector: Fluor Hanford L D WALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: X07-048	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SPECIAL SAMPLING, SEPTEMBER 2007	HNF-N-506-11	Ice Chest No.: 6RP-03-028 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 ☐

Do not combine X SAF samples with other sets. Need SDG to be stand alone.
All labs except WSCF: Do not exceed SDG closure of 14 days.
WSCF: SDG will close on a daily basis; X SAF samples into own SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PKR3		W	10/10/07	1145	1x20-mL P	Activity Scan	None
B1PKR3		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

J8M1Q

DRW 10/10/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L D WALL	L D Wall		OCT 10 2007 1450		S. Sm. Th	S. Sm. TH	OCT 10 2007 1450
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 = 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

FAL RICHLAND

FLUOR HANFORD Fluor Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J7J100335 W05239 Due 11.23.07	C.O.C. # X07-048-23 Page 1 of 1

Collector L D WALL	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. X07-048	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SPECIAL SAMPLING, SEPTEMBER 2007	HNF-N-506-11	**Ice Chest No.** GRP03-028 **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 ☐
Do not combine X SAF samples with other sets. Need SDG to be stand alone.
All labs except WSCF: Do not exceed SDG closure of 14 days.
WSCF: SDG will close on a daily basis; X SAF samples into own SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PKR6		W	10/10/07	1145	1x20-mL P	Activity Scan	None
B1PKR6		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						J8m1V	

DRW 10/10/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L D WALL	L D Wall		OCT 10 2007 1450		S. Smith	S. Smith	OCT 10 2007 1450
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 = 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

FAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J100335 W05239 Due 11-23-07

C.O.C. # X07-048-19

Page 1 of 1

Collector: Fluor Hanford L.D. WALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: X07-048	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SPECIAL SAMPLING, SEPTEMBER 2007	HNF-W-506-16	Ice Chest No.: CRP-03-028 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 ☐
Do not combine X SAF samples with other sets. Need SDG to be stand alone.
All labs except WSCF: Do not exceed SDG closure of 14 days.
WSCF: SDG will close on a daily basis; X SAF samples into own SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PKR2		W	10/10/07	1145	1x20-mL P	Activity Scan	None
B1PKR2		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

DRW 10/10/07

J Smith

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L.D. WALL	L.D. Wall		OCT 10 2007 1450	S. Smith	S. Smith		OCT 10 2007 1450
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 = 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

FAX RECEIVED

FLUOR HANFORD

Fluor Hanford

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

JTJ100335 W05239 Due 11-23-07

C.O.C. # X07-048-18

Page 1 of 1

Collector: L.D. WALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: X07-048	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SPECIAL SAMPLING, SEPTEMBER 2007	HNF-N-506-11	Ice Chest No.: 6RP-03-028 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 ☐
Do not combine X SAF samples with other sets. Need SDG to be stand alone.
All labs except WSCF: Do not exceed SDG closure of 14 days.
WSCF: SDG will close on a daily basis; X SAF samples into own SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PKR1		W	10/10/07	1145	1x20-mL P	Activity Scan	None
B1PKR1		W	↓	↓	1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	HNO3 to pH <2

J8M14

DRW 10/10/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L.D. WALL	L.D. Wall		OCT 10 2007 1450	S. Sm. Lk	S. Sm. Lk		OCT 10 2007 1450
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 = 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

J7J100335 W05239 Due 11-23-07

C.O.C. # X07-048-16

Page 1 of 1

Collector: Fluor Hanford L. D. WALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: X07-048	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SPECIAL SAMPLING, SEPTEMBER 2007	HNF-N-506-11	Ice Chest No.: GRP03-028 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 ☐
Do not combine X SAF samples with other sets. Need SDG to be stand alone.
All labs except WSCF: Do not exceed SDG closure of 14 days.
WSCF: SDG will close on a daily basis; X SAF samples into own SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PKP9		W	10/10/07	1145	1x20-mL P	Activity Scan	None
B1PKP9		W	↓	↓	1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	HNO3 to pH <2

J8M16

RLW 10/10/07

Relinquished By	Date/Time	Received By	Date/Time
Print: Fluor Hanford L. D. WALL Sign: L D Wall	OCT 10 2007 1450	Print: S. Smith Sign: S. Smith	OCT 10 2007 1450
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 = 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

Fluor Hanford

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J100335 W05239 Due 11-23-07

C.O.C. # X07-048-27

Page 1 of 1

Collector: L. D. WALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: X07-048	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SPECIAL SAMPLING, SEPTEMBER 2007	HNF-N-506-11	Ice Chest No.: ERP-03-028 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 ☐

Do not combine X SAF samples with other sets. Need SDG to be stand alone.
All labs except WSCF: Do not exceed SDG closure of 14 days.
WSCF: SDG will close on a daily basis; X SAF samples into own SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PKT0		W	10/10/07	1145	1x20-mL P	Activity Scan	None
B1PKT0		W	↓	↓	3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None
						J8m17	

LDW 10/10/07

Relinquished By: Fluor Hanford L. D. WALL (Print) (Sign)	OCT 1 0 2007 1450	Received By: S. Smith (Print) S. Smith (Sign)	OCT 1 0 2007 1450
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 = 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

FAX RECEIVED

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J75100335 W05239 Due 11-23-07

C.O.C. # X07-048-14

Page 1 of 1

Collector: Fluor Hanford L. D. WALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: X07-048	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SPECIAL SAMPLING, SEPTEMBER 2007	HWF-N-506-11	Ice Chest No.: GRP-03-028 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 ☐
Do not combine X SAF samples with other sets. Need SDG to be stand alone.
All labs except WSCF: Do not exceed SDG closure of 14 days.
WSCF: SDG will close on a daily basis; X SAF samples into own SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PKP7		W	10/10/07	1145	1x20-mL P	Activity Scan	None
B1PKP7		W	↓	↓	3x1000-mL G/P	GAMMA_GS: List-1 (10)	HNO3 to pH <2

J8M19

RRW 10/10/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L. D. WALL	L. D. WALL	L. D. Wall	OCT 10 2007 1450	S. Smith	S. Smith	S. Smith	OCT 10 2007 1450
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 = 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

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J100335 W05239 Due 11/23/07

C.O.C. # X07-048-29

Page 1 of 1

Collector: Fluor Hanford L. D. WALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: X07-048	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SPECIAL SAMPLING, SEPTEMBER 2007	HNF-N-506-11	Ice Chest No.: GRP-03-028 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 ☐
Do not combine X SAF samples with other sets. Need SDG to be stand alone.
All labs except WSCF: Do not exceed SDG closure of 14 days.
WSCF: SDG will close on a daily basis; X SAF samples into own SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PKT2		W	10/10/07	1145	1x20-mL P	Activity Scan	None
B1PKT2		W	↓	↓	3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None

J8M2G

BPW 10/10/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L. D. WALL	L. D. Wall		OCT 10 2007 1450		S. Smith		OCT 10 2007 1450
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 = 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

J7J100335 W05239 Due 11-23-07

C.O.C. # X07-048-30

Page 1 of 1

Collector: Fluor Hanford L. D. WALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: X07-048	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SPECIAL SAMPLING, SEPTEMBER 2007	HNF-N-506-11	Ice Chest No.: CRP-03-028 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 ☐

Do not combine X SAF samples with other sets. Need SDG to be stand alone.
All labs except WSCF: Do not exceed SDG closure of 14 days.
WSCF: SDG will close on a daily basis; X SAF samples into own SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PKT3		W	10/10/07	1145	1x20-mL P	Activity Scan	None
B1PKT3		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						J8M2L	

RAW 10/10/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L. D. WALL	L. D. Wall		OCT 1 0 2007 1450		S. Smith	S. Smith	OCT 1 0 2007 1450
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

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

JTJ100335 W05239 Due 11-23-07

C.O.C. # X07-048-32

Page 1 of 1

Collector: Fluor Hanford L. D. WALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: X07-048	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SPECIAL SAMPLING, SEPTEMBER 2007	HNF-N-506-11	Ice Chest No.: GRP-03-028 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 ☐

Do not combine X SAF samples with other sets. Need SDG to be stand alone.
All labs except WSCF: Do not exceed SDG closure of 14 days.
WSCF: SDG will close on a daily basis; X SAF samples into own SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PKT5		W	10/10/07	1145	1x20-mL P	Activity Scan	None
B1PKT5		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						J8M20	

DRW 10/10/07

Relinquished By	Date/Time	Received By	Date/Time
Print: Fluor Hanford L. D. WALL Sign: L. D. Wall	OCT 10 2007 1450	Print: S. Smith Sign: S. Smith	OCT 10 2007 1450
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 = 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

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J100335 W05239 Due 11-23-07

C.O.C. # X07-048-31

Page 1 of 1

Collector: Fluor Hanford L. D. WALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: X07-048	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SPECIAL SAMPLING, SEPTEMBER 2007	HNF-N-506-11	Ice Chest No.: 6RP-03-028 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 ☐
Do not combine X SAF samples with other sets. Need SDG to be stand alone.
All labs except WSCF: Do not exceed SDG closure of 14 days.
WSCF: SDG will close on a daily basis; X SAF samples into own SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PKT4		W	10/10/07	1145	1x20-mL P	Activity Scan	None
B1PKT4		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						J8M25	

RDW 10/10/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L. D. WALL	L.D. Wall	L.D. Wall	OCT 10 2007 1450		S. Smith	S. Smith	OCT 10 2007 1450
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

PAU RECEIVED

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J100335 W05239 Due 11-23-07

C.O.C. # X07-048-11

Page 1 of 1

Collector: Fluor Hanford L. D. WALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: X07-048	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SPECIAL SAMPLING, SEPTEMBER 2007	HNF-W-506-11	Ice Chest No.: GRP-03-028 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 ☐
Do not combine X SAF samples with other sets. Need SDG to be stand alone.
All labs except WSCF: Do not exceed SDG closure of 14 days.
WSCF: SDG will close on a daily basis; X SAF samples into own SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PKP4		W	10/10/07	1145	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1PKP4		W	↓	↓	1x20-mL P	Activity Scan J8M3A	None

LDW 10/10/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L. D. WALL		L. D. Wall	OCT 10 2007 1450		S. Smith	S. Smith	OCT 10 2007 1450
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 = 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

JTJ 100335 W05239 Due 11-23-07

C.O.C. # X07-048-28

Page 1 of 1

Collector: Fluor Hanford L. D. WALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: X07-048	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SPECIAL SAMPLING, SEPTEMBER 2007	HNF-W-506-11	Ice Chest No.: GRP-03-028 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 ☐
Do not combine X SAF samples with other sets. Need SDG to be stand alone.
All labs except WSCF: Do not exceed SDG closure of 14 days.
WSCF: SDG will close on a daily basis; X SAF samples into own SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PKT1		W	10/10/07	1145	1x20-mL P	Activity Scan	None
B1PKT1		W	↓	↓	3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None
						J8M3F	
		RW	10/10/07				

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L. D. WALL	L. D. Wall		OCT 10 2007/450	J. Smith	J. Smith		OCT 10 2007 1450
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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 10·10·07 1450

Client: PGW **SDG #:** W05239 NA[ ] **SAF #:** X07-048 NA [ ]

Work Order Number: J7J100335 **Chain of Custody #** X07-048-25, 26, 24, 17, 20, 21, 22, 23, 19, 18, 16, 27, 14, 29, 30, 31, 32, 11, 28

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: 19
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:** 10·10·07

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

10/30/2007 11:28:35 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: 11/09/2007

Sep1 DT/Tm Tech:

Batch: 7289509 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7289509 6DSO, 7289510 DHSS, 7289512 FPS5, 7289514 AZS7, 7289515 BCS8, 7289516 AWTA, 7289517 CLTL, 7289520 ASU3,

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 J7PLL-1-AE J7I260322-1-SAMP 09/26/2007 09:45		200.02g,in AmtRec: VIAL20,2X500MLP,11XLP	PUTC10958 10/01/07,pd 03/13/07,r #Containers: 14			Scr:	Alpha: -7.73E-04 uCi/Sa	Beta: 1.06E-03 uCi/Sa
2 J8MR3-1-AA J7J100335-4-SAMP 10/10/2007 11:45		200.01g,in AmtRec: 20ML,LP	PUTC10908 08/22/07,pd 03/13/07,r #Containers: 2			Scr:	Alpha: -2.60E-07 uCi/Sa	Beta: 1.28E-07 uCi/Sa
3 J8MR3-1-AC-X J7J100335-4-DUP 10/10/2007 11:45		200.03g,in AmtRec: 20ML,LP	PUTC10909 08/22/07,pd 03/13/07,r #Containers: 2			Scr:	Alpha: -2.60E-07 uCi/Sa	Beta: 1.28E-07 uCi/Sa
4 J8M14-1-AA J7J100335-10-SAMP 10/10/2007 11:45		200.06g,in AmtRec: 20ML,LP	PUTC10910 08/22/07,pd 03/13/07,r #Containers: 2			Scr:	Alpha: -1.20E-07 uCi/Sa	Beta: 1.29E-07 uCi/Sa
5 J8M16-1-AA J7J100335-11-SAMP 10/10/2007 11:45		200.05g,in AmtRec: 20ML,LP	PUTC10911 08/22/07,pd 03/13/07,r #Containers: 2			Scr:	Alpha: -2.59E-09 uCi/Sa	Beta: 1.99E-08 uCi/Sa
6 J838W-1-AA-B J7J160000-509-BLK 10/10/2007 11:45		200.05g,in AmtRec:	PUTC10912 08/22/07,pd 03/13/07,r #Containers: 1			Scr:	Alpha:	Beta:
7 J838W-1-AC-C J7J160000-509-LCS 10/10/2007 11:45		200.04g,in AmtRec:	PUSG0941 08/22/07,pd 03/13/07,r #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

85

TAL RICHLAND

10/30/2007 11:28:44 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: 11/09/2007

Sep1 DT/Tm Tech:

Batch: 7289509 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:

Comments: pH < 2.0 JGW 10/30/07

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

J7PLL1AE-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						
J838W1AA-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						
J838W1AC-LCS:											
PU-239	RDL:1	pCi/L	LCL:70	UCL:130	RPD:20	Pu-242	RDL:	pCi/L	LCL:20	UCL:105	RPD:20

J7PLL1AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J838W1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J838W1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

86

TAL RICHLAND

11/8/2007 11:05:08 AM

Sample Preparation/Analysis

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

Balance Id:1120482733
Pipet #: 246

AnalyDueDate: 11/09/2007 W05239

Batch: 7289514 **WATER** **pCi/L** **PM, Quote: SA , 57671**
SEQ Batch, Test: None

Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,ClarkR / Beck 8.

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 J7PLL-1-AA J7I260322-1-SAMP 09/26/2007 09:45		147.10g,in AmtRec: VIAL20,2X500MLP,11XLP #Containers: 14		1.5	47.9	100	10A	1803	11/9/07 DD	
								Scr: Alpha: -7.73E-04 uCi/Sa	Beta: 1.06E-03 uCi/Sa	
2 J8M3A-1-AA J7J100335-18-SAMP 10/10/2007 11:45		128.10g,in AmtRec: 20ML,500MLP #Containers: 2			~~39.7~~ 39.7 N/A					
								Scr: Alpha: 1.20E-06 uCi/Sa	Beta: 7.96E-06 uCi/Sa	
3 J8M3A-1-AD-X J7J100335-18-DUP 10/10/2007 11:45		128.00g,in AmtRec: 20ML,500MLP #Containers: 2			~~0.4~~ 39.7		10F	1803	11/9/07 DD	
								Scr: Alpha: 1.20E-06 uCi/Sa	Beta: 7.96E-06 uCi/Sa	
4 J8384-1-AA-B J7J160000-514-BLK 10/10/2007 11:45		200.10g,in AmtRec: #Containers: 1			0.6		10B			
								Scr: Alpha:	Beta:	
5 J8384-1-AC-C J7J160000-514-LCS 10/10/2007 11:45		200.50g,in AmtRec: #Containers: 1	ASD4302 09/19/07,pd		0.8		10D			
								Scr: Alpha:	Beta:	

Comments: pH < 2.0 ; Aliquots Reduced due to Weight Screen RC 11/8/07
2, J8M3A - accidently spilled. Will have to be re-poured (re-run paperwork) JB 11-9-07

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

J7PLL1AA-SAMP Constituent List:
ALPHA RDL:3 pCi/L LCL: UCL: RPD:

TAL RICHLAND

11/8/2007 11:05:09 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 11/09/2007

Sep1 DT/Tm Tech:

Batch: 7289514 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,ClarkR

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:

```
J83841AA-BLK:
 ALPHA      RDL:3          pCi/L    LCL:      UCL:      RPD:
J83841AC-LCS:
 Am-241     RDL:           pCi/L    LCL:70    UCL:130   RPD:20
J7PLL1AA-SAMP Calc Info:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
J83841AA-BLK:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
J83841AC-LCS:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

Approved By _____ Date: _____

88

TAL RICHLAND

11/13/2007 8:50:37 AM

Sample Preparation/Analysis

Balance Id:1120373922

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 #: _____

AnalyDueDate: 11/23/2007

Sep1 DT/Tm Tech:

Batch: 7316339 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7289509 6DSO, 7289510 DHSS, 7289512 FPS5, 7289514 AZS7, 7289515 BCS8, 7289516 AWTA, 7289517 CLTL, 7289520 ASU3, 7316339 AZS7, 7316618 AZS7,

Prep Tech: ,Barcoti | Bc.c k

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 J8M3A-2-AA J7J100335-18-SAMP 10/10/2007 11:45		130.04g,in AmtRec: 20ML,500MLP #Containers: 2		1.5	3&4	50	10A Scr:	1152 Alpha: 1.20E-06 uCi/Sa	11/14/07 Beta: 7.96E-06 uCi/Sa	
2 KA3JT-1-AA-B J7K120000-339-BLK 10/10/2007 11:45		200.13g,in AmtRec: #Containers: 1			0.4		10B Scr:	Alpha:	Beta:	
3 KA3JT-1-AC-C J7K120000-339-LCS 10/10/2007 11:45		200.55g,in AmtRec: #Containers: 1	ASD4322 10/25/07,pd 06/01/01,r		0.8		10C Scr:	Alpha:	Beta:	

Comments:

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

J8M3A2AA-SAMP Constituent List:

KA3JT1AA-BLK Constituent List:

KA3JT1AC-LCS:

J8M3A2AA-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
KA3JT1AA-BLK Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
KA3JT1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```


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TAL RICHLAND

11/8/2007 10:57:38 AM

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

Pipet #: E46

AnalyDueDate: 11/09/2007 WO5239

Sep1 DT/Tm Tech:

Batch: 7289515 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7289509 6DSO, 7289510 DHSS, 7289512 FPS5, 7289514 AZS7, 7289515 BCS8, 7289516 AWTA, 7289517 CLTL, 7289520 ASU3,

Prep Tech: ,ClarkR / Beck 8

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 J7PLL-1-AC J7I260322-1-SAMP 09/26/2007 09:45		141.10g,in AmtRec: VIAL20,2X500MLP,11XLP #Containers: 14		1.5	85.8	100	32A Scr: Alpha: -7.73E-04 uCi/Sa	1/3	11/9/07	Beta: 1.06E-03 uCi/Sa
2 J7PLL-1-AK-X J7I260322-1-DUP 09/26/2007 09:45		141.10g,in AmtRec: VIAL20,2X500MLP,11XLP #Containers: 14			91.2		32C Scr: Alpha: -7.73E-04 uCi/Sa			Beta: 1.06E-03 uCi/Sa
3 J8M3A-1-AC J7J100335-18-SAMP 10/10/2007 11:45		141.00g,in AmtRec: 20ML,500MLP #Containers: 2			88.7		32B Scr: Alpha: 1.20E-06 uCi/Sa			Beta: 7.96E-06 uCi/Sa
4 J8386-1-AA-B J7J160000-515-BLK 09/26/2007 09:45		200.10g,in AmtRec: #Containers: 1			0		32D Scr: Alpha:			Beta:
5 J8386-1-AC-C J7J160000-515-LCS 09/26/2007 09:45		200.10g,in AmtRec: #Containers: 1	BESB3151 10/22/07,pd 08/08/06		0.5		28A Scr: Alpha:			Beta:

Comments: pH < 2.0 ; Aliquots Reduced due to Weight Screen RC 11/8/07

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

J7PLL1AC-SAMP Constituent List:
BETA RDL:4 pCi/L LCL: UCL: RPD:

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: 5
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4.8.29

90

TAL RICHLAND

11/8/2007 10:57:39 AM

Sample Preparation/Analysis

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

Balance Id:1120482733
Pipet #: _____
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,ClarkR

AnalyDueDate: 11/09/2007

Batch: 7289515 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:

```
J83861AA-BLK:
  BETA        RDL:4          pCi/L    LCL:       UCL:       RPD:
J83861AC-LCS:
  Sr-90       RDL:           pCi/L    LCL:70     UCL:130    RPD:20
J7PLL1AC-SAMP Calc Info:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
J83861AA-BLK:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
J83861AC-LCS:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

Approved By _____ Date: _____

11/7/2007 4:37:20 PM

Sample Preparation/Analysis

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

Balance Id:1120482733,E32905
Pipet #: _____

AnalyDueDate: 11/09/2007

Sep1 DT/Tm Tech: 10/29/2007 14:42,ManisD
Sep2 DT/Tm Tech: 11/07/2007 09:25,ManisD
Prep Tech: ,ManisD

Batch: 7289517 WATER pCi/L PM, Quote: SA , 57671

SEQ Batch, Test: None All Tests: 7289509 6DSO, 7289510 DHSS, 7289512 FPS5, 7289514 AZS7, 7289515 BCS8, 7289516 AWTA, 7289517 CLTL, 7289520 ASU3,

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 J7PLL-1-AF J7I260322-1-SAMP		1010.10g,in	SRTB15399 10/11/07,pd 05/22/07 r		1.0	23.6	100	7A 7A	0724 0745	11/8/07 11/9/07	
						10/29/2007 14:42;s1; 11/07/2007					
09/26/2007 09:45		AmtRec: VIAL20,2X500MLP,11XLP	#Containers: 14					Scr:	Alpha: -7.73E-04 uCi/Sa	Beta: 1.06E-03 uCi/Sa	
2 J8MRM-1-AA J7J100335-3-SAMP		978.90g,in	SRTB15430 10/22/07,pd 05/22/07 r		1.0	23.5	100	45 7B 7A	0724 0800 0839	11/8/07 11/9/07	
						10/29/2007 14:42;s1; 11/07/2007					
10/10/2007 11:45		AmtRec: 20ML,500MLP,3XLP	#Containers: 5					Scr:	Alpha: 5.92E-07 uCi/Sa	Beta: 5.82E-06 uCi/Sa	
3 J8MTN-1-AA J7J100335-5-SAMP		990.90g,in	SRTB15431 10/22/07,pd 05/22/07 r		1.0	22.5	100	7C 7B	0724 0745	11/8/07 11/9/07	
						10/29/2007 14:42;s1; 11/07/2007					
10/10/2007 11:45		AmtRec: 20ML,3XLP	#Containers: 4					Scr:	Alpha: -4.34E-07 uCi/Sa	Beta: 3.53E-07 uCi/Sa	
4 J8MVJ-1-AA J7J100335-6-SAMP		973.00g,in	SRTB15432 10/22/07,pd 05/22/07 r		1.0	22.6	100	50 7A 7A	0724 0803 0837	11/8/07 11/9/07	
						10/29/2007 14:42;s1; 11/07/2007					
10/10/2007 11:45		AmtRec: 20ML,3XLP	#Containers: 4					Scr:	Alpha: -7.05E-07 uCi/Sa	Beta: 5.66E-06 uCi/Sa	

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: 4
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4.8.29

TAL RICHLAND

TAL RICHLAND

11/7/2007 4:37:20 PM

Sample Preparation/Analysis

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

Balance Id:1120482733,1120482733,1120
Pipet #: _____

AnalyDueDate: 11/09/2007

Sep1 DT/Tm Tech: 10/29/2007 14:42,ManisD

Batch: 7289517 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech: 11/07/2007 09:25,ManisD

SEQ Batch, Test: None

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 J8M1Q-1-AA J7J100335-7-SAMP		1004.70g,in	SRTB15433 10/22/07,pd		1.0	21.8	100	1B 7C	0724 0740	11/8/07 11/9/07	
						10/29/2007 14:42;s1, 11/07/2007					
10/10/2007 11:45		AmtRec: 20ML,3XLP		#Containers: 4				Scr:	Alpha: 3.58E-09 uCi/Sa		Beta: -5.50E-09 uCi/Sa
6 J8M1Q-1-AC-X J7J100335-7-DUP		986.00g,in	SRTB15434 10/22/07,pd		1.0	23	100	1C 1A	0724 0740	11/8/07 11/9/07	
						10/29/2007 14:42;s1, 11/07/2007					
10/10/2007 11:45		AmtRec: 20ML,3XLP		#Containers: 4				Scr:	Alpha: 3.58E-09 uCi/Sa		Beta: -5.50E-09 uCi/Sa
7 J8M1V-1-AA J7J100335-8-SAMP		981.30g,in	SRTB15435 10/22/07,pd		1.0	22.1	100	50 1D 7B	0724 0803 ~~0937~~ 1035	11/8/07 11/9/07	
						10/29/2007 14:42;s1, 11/07/2007					
10/10/2007 11:45		AmtRec: 20ML,3XLP		#Containers: 4				Scr:	Alpha: 4.98E-07 uCi/Sa		Beta: 4.85E-06 uCi/Sa
8 J8M11-1-AA J7J100335-9-SAMP		962.80g,in	SRTB15436 10/22/07,pd		1.0	23.4	100	7A 1B	0956 0740	11/8/07 11/9/07	
						10/29/2007 14:42;s1, 11/07/2007					
10/10/2007 11:45		AmtRec: 20ML,3XLP		#Containers: 4				Scr:	Alpha: -8.46E-08 uCi/Sa		Beta: 1.25E-07 uCi/Sa

TAL RICHLAND

11/7/2007 4:37:21 PM

Sample Preparation/Analysis

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

Balance Id:1120482733,1120482733,1120
Pipet #: _____

AnalyDueDate: 11/09/2007

Sep1 DT/Tm Tech: 10/29/2007 14:42,ManisD

Batch: 7289517 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech: 11/07/2007 09:25,ManisD

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:
9 J839D-1-AA-B J7J160000-517-BLK		1000.70g,in	SRTB15437 10/22/07,pd 05/22/07,r		1.0	24.3	100	7C	0952	11/8	
						10/29/2007 14:42;s1; 11/07/2007		1C	0745	11/9	
10/10/2007 11:45		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:
10 J839D-1-AC-C J7J160000-517-LCS		999.90g,in	SRSG1393 10/02/07,pd 05/22/07,r		1.0	22.6	100	1B	0956	11/8	
						10/29/2007 14:42;s1; 11/07/2007		1D	0745	11/9	
10/10/2007 11:45		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:

Comments:

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

J7PLL1AF-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

J839D1AA-BLK:

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

J839D1AC-LCS:

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

J7PLL1AF-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J839D1AA-BLK:

11/7/2007 4:37:21 PM

Sample Preparation/Analysis

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

Balance Id:1120482733,1120482733,1120

Pipet #: _____

AnalyDueDate: 11/09/2007

Sep1 DT/Tm Tech: 10/29/2007 14:42,ManisD

Batch: 7289517 pCi/L

Sep2 DT/Tm Tech: 11/07/2007 09:25,ManisD

SEQ Batch, Test: None

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:

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

J839D1AC-LCS:

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

Approved By _____ Date: _____

TAL RICHLAND

10/24/2007 1:11:52 PM

Sample Preparation/Analysis

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

Balance Id:1120482733
Pipet #: DRM
Sep1 DT/Tm Tech: 10/29/07 14:42:35
Sep2 DT/Tm Tech: 11/4/07 09:25:03
Prep Tech: ,BockJ

AnalyDueDate: 11/09/2007 WO5239

Batch: 7289517 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

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 J7PLL-1-AF J7I260322-1-SAMP YTA18018 Ex:6/10/2008		1010.10g,in	SRTB15399 10/11/07,pd 05/22/07,r	1.574 1.9948 0.7891			1500	9"	~~0527~~ 0557	10/30/07	
09/26/2007 09:45		AmtRec: VIAL20,2X500MLP,11XLP	#Containers: 14					Scr:	Alpha: -7.73E-04 uCi/Sa	Beta: 1.06E-03 uCi/Sa	
2 J8MRM-1-AA J7J100335-3-SAMP YTA18019 Ex:6/10/2008		978.90g,in	SRTB15430 10/22/07,pd 05/22/07,r	1.636 1.9938 0.8505				3"	~~0529~~ 0557	10/30/07	
10/10/2007 11:45		AmtRec: 20ML,500MLP,3XLP	#Containers: 5					Scr:	Alpha: 5.92E-07 uCi/Sa	Beta: 5.82E-06 uCi/Sa	
3 J8MTN-1-AA J7J100335-5-SAMP YTA18020 Ex:6/10/2008		990.90g,in	SRTB15431 10/22/07,pd 05/22/07,r	1.580 1.9938 0.7925				9"	0629	10/30/07	
10/10/2007 11:45		AmtRec: 20ML,3XLP	#Containers: 4					Scr:	Alpha: -4.34E-07 uCi/Sa	Beta: 3.53E-07 uCi/Sa	
4 J8MVJ-1-AA J7J100335-6-SAMP YTA18021 Ex:6/10/2008		973.00g,in	SRTB15432 10/22/07,pd 05/22/07,r	1.685 1.9990 ~~0.8449~~ UMA 11/16/07 0.8429				3"	0629	10/30/07	
10/10/2007 11:45		AmtRec: 20ML,3XLP	#Containers: 4					Scr:	Alpha: -7.05E-07 uCi/Sa	Beta: 5.66E-06 uCi/Sa	

TAL RICHLAND

10/24/2007 1:11:53 PM

Sample Preparation/Analysis

Balance Id:1120482733

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: 11/09/2007

Sep1 DT/Tm Tech:

Batch: 7289517 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
5 J8M1Q-1-AA J7J100335-7-SAMP YTA18022 Ex:6/10/2008 10/10/2007 11:45		1004.70g,in AmtRec: 20ML,3XLP	SRTB15433 10/22/07,pd 05/22/07 r	1.557 1.9938 0.7809 #Containers: 4			100	9"	0702	10/30/07	Scr: Alpha: 3.58E-09 uCi/Sa Beta: -5.50E-09 uCi/Sa
6 J8M1Q-1-AC-X J7J100335-7-DUP YTA18023 Ex:6/10/2008 10/10/2007 11:45		986.00g,in AmtRec: 20ML,3XLP	SRTB15434 10/22/07,pd 05/22/07 r	1.6666 1.9938 0.8356 #Containers: 4				3"	0702	10/30/07	Scr: Alpha: 3.58E-09 uCi/Sa Beta: -5.50E-09 uCi/Sa
7 J8M1V-1-AA J7J100335-8-SAMP YTA18024 Ex:6/10/2008 10/10/2007 11:45		981.30g,in AmtRec: 20ML,3XLP	SRTB15435 10/22/07,pd 05/22/07 r	1.728 1.9964 0.8656 #Containers: 4				3"	0524	10/30/07 [illegible]	Scr: Alpha: 4.98E-07 uCi/Sa Beta: 4.85E-06 uCi/Sa
8 J8M11-1-AA J7J100335-9-SAMP YTA18025 Ex:6/10/2008 10/10/2007 11:45		962.80g,in AmtRec: 20ML,3XLP	SRTB15436 10/22/07,pd 05/22/07 r	1.335 1.9938 0.9004 #Containers: 4				9	0524	10/30/07 [illegible]	Scr: Alpha: -8.46E-08 uCi/Sa Beta: 1.25E-07 uCi/Sa

TAL RICHLAND

10/24/2007 1:11:55 PM

Sample Preparation/Analysis

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

Balance Id:1120482733
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,BockJ

AnalyDueDate: 11/09/2007

Batch: 7289517 pCi/L
SEQ Batch, Test: None

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:
9 J839D-1-AA-B J7J160000-517-BLK		1000.70g,in	SRTB15437 10/22/07,pd 05/22/07	1.326 – 1.8600 – 0.6027			100	9 4	1930 0324 0735	10/31/07	
YTA18026 Ex:6/10/2008 10/10/2007 11:45		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:
10 J839D-1-AC-C J7J160000-517-LCS		999.90g,in	SRSG1393 10/02/07,pd 05/23/07	1.408 – 1.9948 – 0.5868				3 7	0735	10/30/07	
YTA18027 Ex:6/10/2008 10/10/2007 11:45		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:

Comments: pH < 2.0 JB 10-24-07

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

J7PLL1AF-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

J839D1AA-BLK:

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

J839D1AC-LCS:

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

J7PLL1AF-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J839D1AA-BLK:

TAL RICHLAND

10/24/2007 1:11:55 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 11/09/2007

Sep1 DT/Tm Tech:

Batch: 7289517 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	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

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

J839D1AC-LCS:

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

Approved By _____ Date: _____

11/7/2007 2:54:03 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 11/09/2007 W05239

Sep1 DT/Tm Tech:

Batch: 7289516 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,ClarkR | 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 J7PLL-1-AD J7I260322-1-SAMP 09/26/2007 09:45	AmtRec: VIAL20,2X500MLP,11XLP #Containers: 14	2500.10g,in			100mL	200	G15	2020	11/7/07 CP	Scr: Alpha: -7.73E-04 uCi/Sa Beta: 1.06E-03 uCi/Sa
2 J8M19-1-AA J7J100335-13-SAMP 10/10/2007 11:45	AmtRec: 20ML,3XLP #Containers: 4	2500.10g,in					G11	2021		Scr: Alpha: 9.65E-08 uCi/Sa Beta: 4.84E-07 uCi/Sa
3 J8M19-1-AC-X J7J100335-13-DUP 10/10/2007 11:45	AmtRec: 20ML,3XLP #Containers: 4						G13	:006		Scr: Alpha: 9.65E-08 uCi/Sa Beta: 4.84E-07 uCi/Sa
4 J8388-1-AA-B J7J160000-516-BLK 10/10/2007 11:45	AmtRec: #Containers: 1	2500.30g,in					G10	2029		Scr: Alpha: Beta:
5 J8388-1-AC-C J7J160000-516-LCS 10/10/2007 11:45	AmtRec: #Containers: 1	2500.10g,in	QCAG1415 09/19/07,pd				G7	2029		Scr: Alpha: Beta:

Comments: J8M19-SAMP "Comments ISV for DUP RC 11/07/07" Please recount on diff. detector JS 11-8-07
pH < 2.0 RC 11/7/07

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

J7PLL1AD-SAMP Constituent List:

TAL RICHLAND

100

TAL RICHLAND

11/7/2007 2:54:04 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 11/09/2007

Sep1 DT/Tm Tech:

Batch: 7289516 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,ClarkR

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:

Co-60	RDL:2.50E+01	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:
Cs-137	RDL:1.50E+01	pCi/L	LCL:70	UCL:130	RPD:20	Cs-137DA	RDL:1.50E+01	pCi/L	LCL:70	UCL:130	RPD:20
Eu-152	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	Eu-154	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:
Eu-155	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
Sb-125	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:						
J83881AA-BLK:											
Co-60	RDL:2.50E+01	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:
Cs-137	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:	Cs-137DA	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:
Eu-152	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	Eu-154	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:
Eu-155	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
Sb-125	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:						
J83881AC-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						

J7PLL1AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

J83881AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

J83881AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

101

TAL RICHLAND

10/30/2007 11:45:50 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: 11/09/2007

Sep1 DT/Tm Tech:

Batch: 7289512 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 **J7PLL-1-AG** J7I260322-1-SAMP 09/26/2007 09:45			125.00g,in	125.00g						
			AmtRec: VIAL20.2X500MLP,11XLP	#Containers: 14				Scr:	Alpha: -7.73E-04 uCi/Sa	Beta: 1.06E-03 uCi/Sa .
2 **J8MQ0-1-AA** J7J100335-1-SAMP 10/10/2007 11:45			125.02g,in	125.02g						
			AmtRec: 20ML,500MLP	#Containers: 2				Scr:	Alpha: -2.64E-08 uCi/Sa	Beta: -1.72E-08 uCi/Sa
3 **J8MRE-1-AA** J7J100335-2-SAMP 10/10/2007 11:45			125.01g,in	125.01g						
			AmtRec: 20ML,500MLP	#Containers: 2				Scr:	Alpha: 3.03E-08 uCi/Sa	Beta: -7.69E-08 uCi/Sa
4 **J8MRE-1-AC-S** J7J100335-2-MS 10/10/2007 11:45			125.01g,in	125.01g	TCSG1915 10/02/07,pd 01/10/06,r					
			AmtRec: 20ML,500MLP	#Containers: 2				Scr:	Alpha: 3.03E-08 uCi/Sa	Beta: -7.69E-08 uCi/Sa
5 **J8MRM-1-AC** J7J100335-3-SAMP 10/10/2007 11:45			125.02g,in	125.02g						
			AmtRec: 20ML,500MLP,3XLP	#Containers: 5				Scr:	Alpha: 5.92E-07 uCi/Sa	Beta: 5.82E-06 uCi/Sa
6 **J8MRM-1-AD-X** J7J100335-3-DUP 10/10/2007 11:45			125.02g,in	125.02g						
			AmtRec: 20ML,500MLP,3XLP	#Containers: 5				Scr:	Alpha: 5.92E-07 uCi/Sa	Beta: 5.82E-06 uCi/Sa
7 **J8383-1-AA-B** J7J160000-512-BLK 10/10/2007 11:45			125.04g,in	125.04g						
			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

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TAL RICHLAND

10/30/2007 11:45:58 AM

Sample Preparation/Analysis

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

Balance Id:1120373922
Pipet #: _____

AnalyDueDate: 11/09/2007

Sep1 DT/Tm Tech:

Batch: 7289512 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

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:
8 J8383-1-AC-C			125.02g,in	125.02g	TCSE2170	60				
J7J160000-512-LCS					10/22/07,pd 01/10/06,r					
10/10/2007 11:45		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:
9 J8383-1-AD-BN										
J7J160000-512-IBLK										
10/10/2007 11:45		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:

Comments: pH < 2.0 10/30/07 JRW

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

J7PLL1AG-SAMP Constituent List:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
J8MRE1AC-MS:

J83831AA-BLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
J83831AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
J83831AD-IBLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:

J7PLL1AG-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8MRE1AC-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J83831AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J83831AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J83831AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TAL RICHLAND

10/30/2007 11:46:00 AM

Sample Preparation/Analysis

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

Balance Id:

Pipet #:

AnalyDueDate: 11/09/2007

Sep1 DT/Tm Tech:

Batch: 7289512 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech:

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

Approved By _____ Date: _____

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TAL RICHLAND

10/22/2007 1:36:44 PM

Sample Preparation/Analysis

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

Balance Id: 12424
Pipet #:
Sep1 DT/Tm Tech: 11-1-07 [illegible]
Sep2 DT/Tm Tech:
Prep Tech: 10-23-07 [illegible]

AnalyDueDate: 11/09/2007 WO5239

Batch: 7289520 WATER pCi/L PM, Quote: SA , 57671

SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J7PLL-1-AH J7I260322-1-SAMP 09/26/2007 09:45	AmtRec: VIAL20,2X500MLP,11XLP	#Containers: 14				Scr:	Alpha: -7.73E-04 uCi/Sa	Beta: 1.06E-03 uCi/Sa
2 J8M17-1-AA J7J100335-12-SAMP 10/10/2007 11:45	AmtRec: 20ML,3XLP	#Containers: 4				Scr:	Alpha: 2.14E-07 uCi/Sa	Beta: -4.59E-07 uCi/Sa
3 J8M2G-1-AA J7J100335-14-SAMP 10/10/2007 11:45	AmtRec: 20ML,3XLP	#Containers: 4				Scr:	Alpha: 1.04E-07 uCi/Sa	Beta: -2.97E-07 uCi/Sa
4 J8M3F-1-AA J7J100335-19-SAMP 10/10/2007 11:45	AmtRec: 20ML,3XLP	#Containers: 4				Scr:	Alpha: 4.42E-07 uCi/Sa	Beta: -5.57E-07 uCi/Sa
5 J8M3F-1-AC-X J7J100335-19-DUP 10/10/2007 11:45	AmtRec: 20ML,3XLP	#Containers: 4				Scr:	Alpha: 4.42E-07 uCi/Sa	Beta: -5.57E-07 uCi/Sa
6 J839F-1-AA-B J7J160000-520-BLK 10/10/2007 11:45	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
7 J839F-1-AC-C J7J160000-520-LCS 10/10/2007 11:45	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 ICOC v4.8.29

TAL RICHLAND

10/22/2007 1:36:45 PM

Sample Preparation/Analysis

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

AnalyDueDate: 11/09/2007

Batch: 7289520 pCi/L
SEQ Batch, Test: None

Balance Id: 12424
Pipet #:
Sep1 DT/Tm Tech: 11-07 Tm
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 J839F-1-AD-BN								
J7J160000-520-IBLK								
10/10/2007 11:45		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

All Clients for Batch:
384868, , SA , 57671

J7PLL1AH-SAMP Constituent List:
H-3 RDL:1.00E+01 pCi/L LCL:70 UCL:130 RPD:20
J839F1AA-BLK:

J839F1AC-LCS:

J839F1AD-IBLK:

J7PLL1AH-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J839F1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J839F1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J839F1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TAL RICHLAND

11/5/2007 10:19:48 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

Pipct #: _____

AnalyDueDate: 11/09/2007

Sep1 DT/Tm Tech:

Batch: 7289510 WATER ug/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 J7PLL-1-AJ J7I260322-1-SAMP 09/26/2007 09:45		25.05g,in AmtRec: VIAL20,2X500MLP,11XLP #Containers: 14					Scr: Alpha: -7.73E-04 uCi/Sa	Beta. 1.06E-03 uCi/Sa
2 J8M2L-1-AA J7J100335-15-SAMP 10/10/2007 11:45		25.01g,in AmtRec: 20ML,500MLP #Containers: 2					Scr: Alpha: 1.26E-07 uCi/Sa	Beta: -4.98E-08 uCi/Sa
3 J8M2L-1-AC-X J7J100335-15-DUP 10/10/2007 11:45		25.03g,in AmtRec: 20ML,500MLP #Containers: 2					Scr: Alpha: 1.26E-07 uCi/Sa	Beta: -4.98E-08 uCi/Sa
4 J8M20-1-AA J7J100335-16-SAMP 10/10/2007 11:45		25.04g,in AmtRec: 20ML,500MLP #Containers: 2					Scr: Alpha: 2.07E-07 uCi/Sa	Beta: 1.54E-08 uCi/Sa
5 J8M20-1-AC-S J7J100335-16-MS 10/10/2007 11:45		25.00g,in AmtRec: 20ML,500MLP #Containers: 2	UNSF4026 10/30/07,pd 02/01/96				Scr: Alpha: 2.07E-07 uCi/Sa	Beta: 1.54E-08 uCi/Sa
6 J8M25-1-AA J7J100335-17-SAMP 10/10/2007 11:45		25.04g,in AmtRec: 20ML,500MLP #Containers: 2					Scr: Alpha: 1.36E-07 uCi/Sa	Beta: 4.80E-08 uCi/Sa
7 J8380-1-AA-B J7J160000-510-BLK 10/10/2007 11:45		25.02g,in AmtRec: #Containers: 1					Scr: Alpha:	Beta:

TAL RICHLAND

11/5/2007 10:19:59 AM

Sample Preparation/Analysis

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

Balance Id:1120373922

Pipet #: _____

AnalyDueDate: 11/09/2007

Sep1 DT/Tm Tech:

Batch: 7289510 ug/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:
8 J8380-1-AC-C		25.02g,in	UNSF4027					
J7J160000-510-LCS			10/30/07,pd 03/01/06,r					
10/10/2007 11:45		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
9 J8380-1-AD-C		25.02g,in	UNSC1939					
J7J160000-510-LCS			09/20/07,pd 01/28/06,r					
10/10/2007 11:45		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

J7PLL1AJ-SAMP Constituent List:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
J8M201AC-MS:

J83801AA-BLK:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
J83801AC-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20
J83801AD-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20

J7PLL1AJ-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8M201AC-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J83801AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J83801AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J83801AD-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TAL RICHLAND

11/5/2007 10:20:00 AM

Sample Preparation/Analysis

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

Balance Id:1120373922

Pipet #: ____

AnalyDueDate: 11/09/2007

Sep1 DT/Tm Tech:

Batch: 7289510 ug/L

SEO Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,WoodT

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

Approved By _____ Date: _____

11/8/2007 7:59:12 AM

ICOC Fraction Transfer/Status Report

ByDate: 11/8/2006, 11/13/2007, Batch: '7289509', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7289509						
AC		InCnt1	WoodT	10/30/2007 11:28:36		
SC			wagarr	IsBatched	10/18/2007 1:31:20 PM	ICOC_RADCALC v4.8.29
SC			WoodT	InPrep	10/30/2007 11:28:36 AM	RICH-RC-5016 REVISION 7
SC			WoodT	Prep1C	10/30/2007 11:28:56 AM	RICH-RC-5016 REVISION 7
SC			FABREM	Sep1C	10/31/2007 6:44:03 PM	RICH-RC-5010 REVISION 5
SC			AshworthA	Sep2C	11/1/2007 5:26:00 PM	RICH-RC-5039 REV5
SC			DAWKINSO	InCnt1	11/1/2007 5:42:13 PM	RICH-RD-0008 REVISION 4
AC			WoodT	10/30/2007 11:28:56		
AC			FABREM	10/31/2007 6:44:03		
AC			AshworthA	11/1/2007 5:26:00 PM		
AC			DAWKINSO	11/1/2007 5:42:13 PM		

AC: Accepting Entry, SC: Status Change

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Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.29

11/20/2007 2:30:11 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/20/2006, 11/25/2007, Batch: '7289514', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7289514						
AC		CalcC	ClarkR	11/8/2007 10:59:53		
SC			wagarr	IsBatched	10/18/2007 1:31:20 PM	ICOC_RADCALC v4.8.29
SC			ClarkR	InPrep	11/8/2007 10:59:53 AM	RICH-RC-5016 Revision 7
SC			ClarkR	Prep1C	11/8/2007 11:05:12 AM	RICH-RC-5014 REVISION 7
SC			BockJ	InPrep2	11/8/2007 3:18:45 PM	RICH-RC-5014 REVISION 7
SC			BockJ	Prep2C	11/9/2007 12:55:33 PM	RICH-RC-5014 REVISION 7
SC			BlackCL	InCnt1	11/9/2007 1:10:05 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	InCnt1	11/9/2007 10:09:37 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	11/9/2007 10:12:17 PM	RICH-RD-0003 REVISION 5
AC			ClarkR	11/8/2007 11:05:12		
AC			BockJ	11/8/2007 3:18:45 PM		
AC			BockJ	11/9/2007 12:55:33		
AC			BlackCL	11/9/2007 1:10:05 PM		
AC			DAWKINSO	11/9/2007 10:09:37		
AC			DAWKINSO	11/9/2007 10:12:17		

AC: Accepting Entry; SC: Status Change

STL Richland

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Grp Rec Cnt: 7

ICOCFractions v4.8.30

11/20/2007 2:31:16 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/20/2006, 11/25/2007, Batch: '7316339', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7316339						
AC		CalcC	BockJ	11/13/2007 9:47:56		
SC			nortonj	IsBatched	11/12/2007 10:37:16 AM	ICOC_RADCALC v4.8.29
SC			BockJ	InPrep2	11/13/2007 9:47:56 AM	RICH-RC-5014 REVISION 7
SC			BockJ	Prep2C	11/14/2007 9:47:59 AM	RICH-RC-5014 REVISION 7
SC			BlackCL	InCnt1	11/14/2007 10:00:42 AM	RICH-RD-0003 REVISION 5
SC			BlackCL	CalcC	11/14/2007 11:42:09 AM	RICH-RD-0003 REVISION 5
AC			BockJ	11/14/2007 9:47:59		
AC			BlackCL	11/14/2007 10:00:42		
AC			BlackCL	11/14/2007 11:42:09		

AC: Accepting Entry; SC: Status Change

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Grp Rec Cnt: 4

ICOCFractions v4 8.30

11/12/2007 1:37:46 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/12/2006, 11/17/2007, Batch: '7289515', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7289515						
AC		InCnt1	ClarkR	11/8/2007 10:48:30		
SC			wagarr	IsBatched	10/18/2007 1:31:20 PM	ICOC_RADCALC v4.8.29
SC			ClarkR	InPrep	11/8/2007 10:48:30 AM	RICH-RC-5016 Revision 7
SC			ClarkR	Prep1C	11/8/2007 10:57:42 AM	RICH-RC-5014 REVISION 7
SC			BockJ	InPrep2	11/8/2007 3:18:35 PM	RICH-RC-5014 REVISION 7
SC			BockJ	Prep2C	11/9/2007 12:56:07 PM	RICH-RC-5014 REVISION 7
SC			BlackCL	InCnt1	11/9/2007 1:09:53 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	InCnt1	11/9/2007 10:09:07 PM	RICH-RD-0003 REVISION 5
AC			ClarkR	11/8/2007 10:57:42		
AC			BockJ	11/8/2007 3:18:35 PM		
AC			BockJ	11/9/2007 12:56:07		
AC			BlackCL	11/9/2007 1:09:53 PM		
AC			DAWKINSO	11/9/2007 10:09:07		

AC: Accepting Entry; SC: Status Change

11/12/2007 8:47:25 AM

ICOC Fraction Transfer/Status Report

ByDate: 11/12/2006, 11/17/2007, Batch: '7289517', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7289517						
AC		CalcC	BockJ	10/24/2007 12:42:47		
SC			wagarr	IsBatched	10/18/2007 1:31:20 PM	ICOC_RADCALC v4.8.29
SC			BockJ	InPrep	10/24/2007 12:42:47 PM	RICH-RC-5014 Revision 7
SC			BockJ	Prep1C	10/24/2007 1:11:57 PM	RICH-RC-5016 REVISION 7
SC			ManisD	Sep1C	10/29/2007 5:10:41 PM	RICH-RC-5006 REV 7
SC			DAWKINSO	InCnt1	10/29/2007 5:32:44 PM	RICH-RD-0007 REVISION 6
SC			BlackCL	Cnt1C	10/30/2007 7:43:10 AM	RICH-RD-0007 REVISION 6
SC			ManisD	Sep2C	11/7/2007 4:38:25 PM	RICH-RC-5071 REV 5
SC			DAWKINSO	Cnt1C	11/7/2007 5:23:52 PM	RICH-RD-0003 REVISION 5
SC			BlackCL	CalcC	11/9/2007 11:05:43 AM	RICH-RD-0003 REVISION 5
AC			BockJ	10/24/2007 1:11:57		
AC			ManisD	10/29/2007 5:10:41		
AC			DAWKINSO	10/29/2007 5:32:44		
AC			BlackCL	10/30/2007 7:43:10		
AC			ManisD	11/7/2007 4:38:25 PM		
AC			DAWKINSO	11/7/2007 5:23:52 PM		
AC			BlackCL	11/9/2007 11:05:43		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 8

ICOCFractions v4.8.29

11/12/2007 8:45:02 AM

ICOC Fraction Transfer/Status Report

ByDate: 11/12/2006, 11/17/2007, Batch: '7289516', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7289516						
AC		CalcC	ClarkR	11/7/2007 2:42:55 PM		
SC			wagarr	IsBatched	10/18/2007 1:31:20 PM	ICOC_RADCALC v4.8.29
SC			ClarkR	InPrep	11/7/2007 2:42:55 PM	RICH-RC-5016 Revision 7
SC			ClarkR	Prep1C	11/7/2007 2:54:07 PM	RICH-RC-5017 REVISION 6
SC			BockJ	InPrep2	11/7/2007 3:27:29 PM	RICH-RC-5017 REVISION 6
SC			BockJ	Prep2C	11/8/2007 4:11:46 PM	RICH-RC-5017 REVISION 6
SC			DAWKINSO	InCnt1	11/8/2007 4:21:04 PM	RICH-RD-0007 REVISION 6
SC			BlackCL	CalcC	11/9/2007 7:28:34 AM	RICH-RD-0007 REVISION 6
AC			ClarkR	11/7/2007 2:54:07 PM		
AC			BockJ	11/7/2007 3:27:29 PM		
AC			BockJ	11/8/2007 4:11:46 PM		
AC			DAWKINSO	11/8/2007 4:21:04 PM		
AC			BlackCL	11/9/2007 7:28:34		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt:6

ICOCFractions v4.8.29

11/23/2007 9:33:50 AM

ICOC Fraction Transfer/Status Report

ByDate: 11/23/2006, 11/28/2007, Batch: '7289512', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7289512						
AC		CalcC	WoodT	10/30/2007 11:46:07		
SC			wagarr	IsBatched	10/18/2007 1:31:20 PM	ICOC_RADCALC v4.8.29
SC			WoodT	InPrep	10/30/2007 11:46:07 AM	RICH-RC-5016 REVISION 7
SC			WoodT	Prep1C	10/30/2007 11:47:23 AM	RICH-RC-5016 REVISION 7
SC			FABREM	Sep1C	10/31/2007 10:57:27 AM	RICH-RC-5065 REVISION 6
SC			BlackCL	InCnt1	10/31/2007 11:22:20 AM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	11/1/2007 7:46:47 AM	RICH-RD-0001 REVISION 4
AC			WoodT	10/30/2007 11:47:23		
AC			FABREM	10/31/2007 10:57:27		
AC			BlackCL	10/31/2007 11:22:20		
AC			BlackCL	11/1/2007 7:46:47		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 5

ICOCFractions v4.8.30

11/20/2007 2:17:45 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/20/2006, 11/25/2007, Batch: '7289520', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7289520						
AC		CalcC	McDowellD	10/23/2007 1:23:32		
SC			wagarr	IsBatched	10/18/2007 1:31:20 PM	ICOC_RADCALC v4.8.29
SC			McDowellD	InPrep	10/23/2007 1:23:32 PM	RICH-RC-5024 REVISION 2
SC			McDowellD	InSep1	11/1/2007 9:42:05 AM	RICH-RC-5024 REVISION 2
SC			McDowellD	Sep1C	11/13/2007 9:20:01 AM	RICH-RC-5024 REVISION 2
SC			BlackCL	InCnt1	11/13/2007 9:52:57 AM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	11/14/2007 8:26:57 AM	RICH-RD-0001 REVISION 4
AC			McDowellD	11/1/2007 9:42:05		
AC			McDowellD	11/13/2007 9:20:01		
AC			BlackCL	11/13/2007 9:52:57		
AC			BlackCL	11/14/2007 8:26:57		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Page 1

Grp Rec Cnt:5

ICOCFractions v4.8.30

11/12/2007 1:17:36 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/12/2006, 11/17/2007, Batch: '7289510', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7289510						
AC		Cnt1C	WoodT	11/5/2007 9:53:19		
SC			wagarr	IsBatched	10/18/2007 1:31:20 PM	ICOC_RADCALC v4.8.29
SC			WoodT	InPrep	11/5/2007 9:53:19 AM	rich-rc-5015 Revision 6
SC			WoodT	Prep1C	11/5/2007 10:19:56 AM	RICH-RC-5015 REVISION 6
SC			BockJ	InPrep2	11/6/2007 10:05:09 AM	RICH-RC-5015 REVISION 6
SC			NelsonT	Cnt1C	11/9/2007 9:31:45 AM	RICH-RC-5058 REV 7
AC			WoodT	11/5/2007 10:19:56		
AC			BockJ	11/6/2007 10:05:09		
AC			NelsonT	11/9/2007 9:31:45		

AC: Accepting Entry, SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.29