RECEIVED JUNE 26, 2007

Analytical Data Package Prepared For

Fluor Handord

Radiochemical Analysis By

STL Richland STLRL

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

Data Package Contains _____ Pages

Report Nbr: 35706

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05164	W07-005	B1N5P1	J7E010304-1	JV25C1AA	9JV25C10	7129597
		B1N5P9	J7E010304-2	JV25G1AA	9JV25G10	7129597
		B1N5R3	J7E010304-3	JV25J1AA	9JV25J10	7129597
		B1N5N7	J7E010304-4	JV25K1AA	9JV25K10	7129597
		B1N5M9	J7E010304-5	JV25M1AA	9JV25M10	7129597
		B1N5T1	J7E010304-6	JV25Q1AA	9JV25Q10	7129597
		B1N5R7	J7E010304-7	JV2501AA	9JV25010	7129597
		B1N5N3	J7E010304-8	JV2531AA	9JV25310	7129597
	S07-005	B1N3X5	J7E040145-1	JV9VP1AA	9JV9VP10	7129606
		B1N3X5	J7E040145-1	JV9VP1AC	9JV9VP10	7129603
		B1N3X5	J7E040145-1	JV9VP1AD	9JV9VP10	7129604
		B1N3X5	J7E040145-1	JV9VP1AE	9JV9VP10	7129596
	W07-005	B1N4D7	J7E040172-1	JV94A1AA	9JV94A10	7129606
		B1N4D7	J7E040172-1	JV94A1AC	9JV94A10	7129602
		B1N4D7	J7E040172-1	JV94A1AD	9JV94A10	7129596

Comments:

Report Nbr: 35706

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05164	W07-005	B1N4F2	J7E040172-2	JV9411AA	9JV94110	7129606
		B1N4F7	J7E040172-3	JV9491AA	9JV94910	7129606
		B1N4F7	J7E040172-3	JV9491AC	9JV94910	7129599
		B1N4F7	J7E040172-3	JV9491AD	9JV94910	7129596
		B1N4H2	J7E040172-4	JV95K1AA	9JV95K10	7129606
		B1N4H2	J7E040172-4	JV95K1AC	9JV95K10	7129602
		B1N4H2	J7E040172-4	JV95K1AD	9JV95K10	7129596
		B1N4H6	J7E040172-5	JV95N1AA	9JV95N10	7129606
		B1N4H6	J7E040172-5	JV95N1AC	9JV95N10	7129602
		B1N4H6	J7E040172-5	JV95N1AD	9JV95N10	7129596
		B1N4H7	J7E040172-6	JV95R1AA	9JV95R10	7129606
		B1N4H7	J7E040172-6	JV95R1AC	9JV95R10	7129602
		B1N4H7	J7E040172-6	JV95R1AD	9JV95R10	7129596
		B1N4C7	J7E040272-1	JWAV41AA	9JWAV410	7129606
		B1N4C7	J7E040272-1	JWAV41AC	9JWAV410	7129599
		B1N4C7	J7E040272-1	JWAV41AD	9JWAV410	7129596
		B1N4D2	J7E040272-2	JWAWD1AA	9JWAWD10	7129595
		B1N4D2	J7E040272-2	JWAWD1AC	9JWAWD10	7129606
		B1N4D2	J7E040272-2	JWAWD1AD	9JWAWD10	7129599
		B1N4D2	J7E040272-2	JWAWD1AE	9JWAWD10	7129596
		B1N4C2	J7E040272-4	JWA1V1AA	9JWA1V10	7129599
	A07-003	B1MCV3	J7E040295-1	JWA361AA	9JWA3610	7129607
		B1MCV3	J7E040295-1	JWA361AC	9JWA3610	7129605
		B1MCV3	J7E040295-1	JWA361AD	9JWA3610	7129602
		B1MCV3	J7E040295-1	JWA361AE	9JWA3610	7129596
	W07-004	B1MNJ8	J7E070135-1	JWE371AA	9JWE3710	7129594

Comments:

Report Nbr: 35706

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05164	W07-004	B1MNJ8	J7E070135-1	JWE371AC	9JWE3710	7129595

Comments:

SEVERN TRENT STL

STL Richland
2800 George Washington Way
Richland, WA 99354

Tel: 509 375 3131 Fax: 509 375 5590
www.stl-inc.com

Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

June 25, 2007

Attention: Steve Trent

SAF Number	:	W07-005, S07-005, A07-003, W07-004
Date SDG Closed	:	May 3, 2007
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05164
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between May 1, 2007 and May 3, 2007 twenty water samples were received at STL Richland (STLR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Pacific Northwest National Laboratories (PGW) specific IDs:

PGW ID#	STLR ID#	DATE OF RECEIPT	MATRIX
B1N5P1	JV25C	5/01/07	WATER
B1N5P9	JV25G	5/01/07	WATER
B1N5R3	JV25J	5/01/07	WATER
B1N5N7	JV25K	5/01/07	WATER
B1N5M9	JV25M	5/01/07	WATER
B1N5T1	JV25Q	5/01/07	WATER
B1N5R7	JV250	5/01/07	WATER
B1N5N3	JV253	5/01/07	WATER
B1N3X5	JV9VP	5/02/07	WATER
B1N4D7	JV94A	5/02/07	WATER
B1N4F2	JV941	5/02/07	WATER
B1N4F7	JV949	5/02/07	WATER
B1N4H2	JV95K	5/02/07	WATER

B1N4H6	JV95N	5/02/07	WATER
B1N4H7	JV95R	5/02/07	WATER
B1N4C7	JWAV4	5/02/07	WATER
B1N4D2	JWAWD	5/02/07	WATER
B1N4C2	JWA1V	5/02/07	WATER
B1MCV3	JWA36	5/03/07	WATER
B1MNJ8	JWE37	5/02/07	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
Iodine-129 (LL) by method RICH-RC-5025
Liquid Scintillation Counting
Technetium-99 by TEVA method RICH-RC-5065
Technetium-99 by method RICH-RC-5078
Tritium by method RICH-RC-5007
Laser Induced Phosphorimetry
Total Uranium by method RICH-RC-5058
Chemical Analysis
Total Coliform by method 9223

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 (B1N3X5) results are within contractual requirements.

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:

Reduced volumes were analyzed based on elevated screen results for samples B1MNJ8 and B1MNJ8(DUP) Except as noted, the LCS, batch blank, samples and sample duplicate (B1D6R6) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:

The LCS, batch blank, samples and sample duplicate (B1MNJ8) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006

The LCS, batch blank, samples and sample duplicate (B1N3X5) results are within contractual requirements.

Gamma Spectroscopy

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

The LCS, batch blank, samples and sample duplicate (B1N4H7) results are within contractual requirements.

Iodine-129 (LL) by method RICH-RC-5025:

The LCS, batch blank, samples and sample duplicate (B1MCV3) results are within contractual requirements.

Liquid Scintillation Counting

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

The LCS, batch blank, samples, sample duplicate (B1N4H2), and sample matrix spike (B1N4H6) results are within contractual requirements.

Technetium-99 by method RICH-RC-5078:

The LCS, batch blank, samples, sample duplicate (B1N4C7), and sample matrix spike (B1N4D2) results are within contractual requirements.

Tritium by method RICH-RC-5007:

The LCS, batch blank, samples and sample duplicate (B1MCV3) results are within contractual requirements.

Pacific Northwest National Laboratories
June 25, 2007

Total Uranium

Total Uranium by method RICH-RC-5058:

The second LCS was dropped and broke while the batch was being process. The batch will be accepted based on the acceptable MS and first LCS. Except as noted, the LCS, batch blank, samples, sample duplicate (B1), and sample matrix spike (B18612) results are within contractual requirements.

Chemical Analysis

Total Coliform by method 9223

The LCS, batch blank, samples and sample duplicate (B1N5M9) results are within contractual requirements.

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager, or a designee as verified by the following signature.

Reviewed and approved:

Sandra Siguefor

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 903.1	Ra-226	RICH-RC-5005
EPA 904.0	Ra-228	RICH-RC-5005
EPA 905.0	Sr89/90	RICH-RC-5006
ASTM D2460	Total Radium	RICH-RC-5027
Standard Method 7500-U-C & ASTM D5174	Uranium	RICH-RC-5058
EPA 906.0	Tritium	RICH-RC-5007
NOTE:		
The Gross Alpha LCS is prepared with Am-241 (unless otherwise specified in the case narrative)		
The Gross Beta LCS is prepared with Sr/Y-90 (unless otherwise specified in the case narrative)		

Uncertainty Estimation

STL 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/vn), 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.

6/25/2007 9:13:04 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35706 File Name: h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.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:
9JV94110	B1N4F2		MW6-SBB-A1	W07-005	W05164					05/02/2007 10:56

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129606	BE-7	13966-02-4	5.84E+00	pCi/L	3.9E+01	3.9E+01	U	7.10E+01		GAMMALL_GS	2.0009E+00	L	06/15/2007 18:21	I
7129606	CO-60	10198-40-0	3.48E+01	pCi/L	8.3E+00	8.3E+00	U	1.67E+01		GAMMALL_GS	2.0009E+00	L	06/15/2007 18:21	I
7129606	CS-134	13967-70-9	3.37E+00	pCi/L	3.8E+00	3.8E+00	U	7.39E+00		GAMMALL_GS	2.0009E+00	L	06/15/2007 18:21	I
7129606	CS-137	10045-97-3	-9.60E-01	pCi/L	3.4E+00	3.4E+00	U	5.90E+00		GAMMALL_GS	2.0009E+00	L	06/15/2007 18:21	I
7129606	EU-152	14683-23-9	1.40E+00	pCi/L	7.3E+00	7.3E+00	U	1.32E+01		GAMMALL_GS	2.0009E+00	L	06/15/2007 18:21	I
7129606	EU-154	15585-10-1	1.48E+00	pCi/L	8.6E+00	8.6E+00	U	1.68E+01		GAMMALL_GS	2.0009E+00	L	06/15/2007 18:21	I
7129606	EU-155	14391-16-3	-2.34E+00	pCi/L	6.0E+00	6.0E+00	U	1.01E+01		GAMMALL_GS	2.0009E+00	L	06/15/2007 18:21	I
7129606	K-40	13966-00-2	-4.49E+01	pCi/L	5.8E+01	5.8E+01	U	1.29E+02		GAMMALL_GS	2.0009E+00	L	06/15/2007 18:21	I
7129606	RU-106	13967-48-1	-1.04E+01	pCi/L	2.9E+01	2.9E+01	U	5.09E+01		GAMMALL_GS	2.0009E+00	L	06/15/2007 18:21	I
7129606	SB-125	14234-35-6	1.27E+00	pCi/L	7.9E+00	7.9E+00	U	1.43E+01		GAMMALL_GS	2.0009E+00	L	06/15/2007 18:21	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:
9JV94910	B1N4F7		MW6-SBB-A1	W07-005	W05164					05/02/2007 11:42

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129606	BE-7	13966-02-4	1.94E+01	pCi/L	2.8E+01	2.8E+01	U	5.69E+01		GAMMALL_GS	1.9963E+00	L	06/15/2007 18:22	I
7129606	CO-60	10198-40-0	1.23E+00	pCi/L	2.2E+00	2.2E+00	U	4.93E+00		GAMMALL_GS	1.9963E+00	L	06/15/2007 18:22	I
7129606	CS-134	13967-70-9	1.53E+00	pCi/L	1.7E+00	1.7E+00	U	4.01E+00		GAMMALL_GS	1.9963E+00	L	06/15/2007 18:22	I
7129606	CS-137	10045-97-3	8.12E-01	pCi/L	1.9E+00	1.9E+00	U	3.86E+00		GAMMALL_GS	1.9963E+00	L	06/15/2007 18:22	I
7129606	EU-152	14683-23-9	2.84E+00	pCi/L	5.4E+00	5.4E+00	U	1.03E+01		GAMMALL_GS	1.9963E+00	L	06/15/2007 18:22	I
7129606	EU-154	15585-10-1	-3.30E+00	pCi/L	5.8E+00	5.8E+00	U	1.01E+01		GAMMALL_GS	1.9963E+00	L	06/15/2007 18:22	I
7129606	EU-155	14391-16-3	2.44E+00	pCi/L	4.3E+00	4.3E+00	U	8.20E+00		GAMMALL_GS	1.9963E+00	L	06/15/2007 18:22	I
7129606	K-40	13966-00-2	1.85E+01	pCi/L	4.4E+01	4.4E+01	U	9.95E+01		GAMMALL_GS	1.9963E+00	L	06/15/2007 18:22	I
7129606	RU-106	13967-48-1	-4.34E-01	pCi/L	2.0E+01	2.0E+01	U	3.75E+01		GAMMALL_GS	1.9963E+00	L	06/15/2007 18:22	I
7129606	SB-125	14234-35-6	1.47E+00	pCi/L	5.3E+00	5.3E+00	U	1.01E+01		GAMMALL_GS	1.9963E+00	L	06/15/2007 18:22	I
7129599	TC-99	14133-76-7	2.67E+02	pCi/L	1.0E+01	2.2E+01		1.08E+01	100.0	TC99_SEP_LSC	1.256E-01	L	06/11/2007 21:52	I
7129596	Uranium	7440-61-1	3.64E+00	ug/L	3.7E-01	3.7E-01		8.25E-02		UTOT_KPA	2.54E-02	ML	06/15/2007 14:04	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:
9JV94A10	B1N4D7		MW6-SBB-A1	W07-005	W05164					05/02/2007 09:59

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.

6/25/2007 9:13:04 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35706 File Name: h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129606	BE-7	13966-02-4	1.09E+01	pCi/L	2.0E+01	2.0E+01	U	3.77E+01		GAMMALL_GS	1.9987E+00	L	06/15/2007 18:21	I
7129606	CO-60	10198-40-0	9.04E+00	pCi/L	3.3E+00	3.3E+00	U	7.30E+00		GAMMALL_GS	1.9987E+00	L	06/15/2007 18:21	I
7129606	CS-134	13967-70-9	-1.35E+00	pCi/L	1.7E+00	1.7E+00	U	2.79E+00		GAMMALL_GS	1.9987E+00	L	06/15/2007 18:21	I
7129606	CS-137	10045-97-3	1.03E+00	pCi/L	1.5E+00	1.5E+00	U	3.06E+00		GAMMALL_GS	1.9987E+00	L	06/15/2007 18:21	I
7129606	EU-152	14683-23-9	1.21E+00	pCi/L	3.6E+00	3.6E+00	U	6.81E+00		GAMMALL_GS	1.9987E+00	L	06/15/2007 18:21	I
7129606	EU-154	15585-10-1	-3.61E+00	pCi/L	5.6E+00	5.6E+00	U	9.45E+00		GAMMALL_GS	1.9987E+00	L	06/15/2007 18:21	I
7129606	EU-155	14391-16-3	-9.87E-01	pCi/L	3.0E+00	3.0E+00	U	5.30E+00		GAMMALL_GS	1.9987E+00	L	06/15/2007 18:21	I
7129606	K-40	13966-00-2	4.23E+01	pCi/L	3.5E+01	3.5E+01		1.79E+01		GAMMALL_GS	1.9987E+00	L	06/15/2007 18:21	I
7129606	RU-106	13967-48-1	7.47E+00	pCi/L	1.3E+01	1.3E+01	U	2.68E+01		GAMMALL_GS	1.9987E+00	L	06/15/2007 18:21	I
7129606	SB-125	14234-35-6	-5.00E-01	pCi/L	4.1E+00	4.1E+00	U	7.27E+00		GAMMALL_GS	1.9987E+00	L	06/15/2007 18:21	I
7129602	TC-99	14133-76-7	2.72E+03	pCi/L	2.8E+01	1.7E+02		9.70E+00	100.0	TC99_ETVDSK_LS	1.261E-01	L	06/06/2007 17:28	I
7129596	Uranium	7440-61-1	2.11E+01	ug/L	2.5E+00	2.5E+00		8.42E-02		UTOT_KPA	2.49E-02	ML	06/15/2007 14:01	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:
9JV95K10	B1N4H2		MW6-SBB-A1	W07-005	W05164					05/02/2007 12:46

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129606	BE-7	13966-02-4	2.04E+01	pCi/L	2.3E+01	2.3E+01	U	4.52E+01		GAMMALL_GS	1.9989E+00	L	06/15/2007 18:22	I
7129606	CO-60	10198-40-0	-1.28E+00	pCi/L	2.1E+00	2.1E+00	U	3.56E+00		GAMMALL_GS	1.9989E+00	L	06/15/2007 18:22	I
7129606	CS-134	13967-70-9	-1.94E+00	pCi/L	1.7E+00	1.7E+00	U	2.49E+00		GAMMALL_GS	1.9989E+00	L	06/15/2007 18:22	I
7129606	CS-137	10045-97-3	-8.81E-01	pCi/L	1.6E+00	1.6E+00	U	2.81E+00		GAMMALL_GS	1.9989E+00	L	06/15/2007 18:22	I
7129606	EU-152	14683-23-9	1.17E+00	pCi/L	4.2E+00	4.2E+00	U	7.79E+00		GAMMALL_GS	1.9989E+00	L	06/15/2007 18:22	I
7129606	EU-154	15585-10-1	-1.83E+00	pCi/L	4.4E+00	4.4E+00	U	7.85E+00		GAMMALL_GS	1.9989E+00	L	06/15/2007 18:22	I
7129606	EU-155	14391-16-3	-2.40E+00	pCi/L	4.9E+00	4.9E+00	U	8.15E+00		GAMMALL_GS	1.9989E+00	L	06/15/2007 18:22	I
7129606	K-40	13966-00-2	2.44E+01	pCi/L	2.9E+01	2.9E+01	U	6.47E+01		GAMMALL_GS	1.9989E+00	L	06/15/2007 18:22	I
7129606	RU-106	13967-48-1	-5.04E+00	pCi/L	1.7E+01	1.7E+01	U	3.08E+01		GAMMALL_GS	1.9989E+00	L	06/15/2007 18:22	I
7129606	SB-125	14234-35-6	-4.05E+00	pCi/L	4.8E+00	4.8E+00	U	7.88E+00		GAMMALL_GS	1.9989E+00	L	06/15/2007 18:22	I
7129602	TC-99	14133-76-7	1.23E+04	pCi/L	6.0E+01	7.4E+02		9.83E+00	100.0	TC99_ETVDSK_LS	1.252E-01	L	06/06/2007 18:31	I
7129596	Uranium	7440-61-1	6.12E+02	ug/L	7.3E+01	7.3E+01		8.12E-02		UTOT_KPA	2.58E-02	ML	06/15/2007 14:11	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:
9JV95N10	B1N4H6		MW6-SBB-A1	W07-005	W05164					05/02/2007 08:59

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129606	BE-7	13966-02-4	-2.02E+00	pCi/L	3.2E+01	3.2E+01	U	5.62E+01		GAMMALL_GS	1.9929E+00	L	06/15/2007 18:23	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.

6/25/2007 9:13:04 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35706 File Name: h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

7129606	CO-60	10198-40-0	4.32E+01	pCi/L	9.3E+00	9.3E+00		3.87E+00		GAMMALL_GS	1.9929E+00	L	06/15/2007	18:23	I
7129606	CS-134	13967-70-9	1.23E+00	pCi/L	2.8E+00	2.8E+00	U	5.25E+00		GAMMALL_GS	1.9929E+00	L	06/15/2007	18:23	I
7129606	CS-137	10045-97-3	4.57E-02	pCi/L	2.4E+00	2.4E+00	U	4.31E+00		GAMMALL_GS	1.9929E+00	L	06/15/2007	18:23	I
7129606	EU-152	14683-23-9	-5.40E+00	pCi/L	5.9E+00	5.9E+00	U	9.53E+00		GAMMALL_GS	1.9929E+00	L	06/15/2007	18:23	I
7129606	EU-154	15585-10-1	1.04E+00	pCi/L	7.2E+00	7.2E+00	U	1.36E+01		GAMMALL_GS	1.9929E+00	L	06/15/2007	18:23	I
7129606	EU-155	14391-16-3	-2.57E+00	pCi/L	6.6E+00	6.6E+00	U	1.11E+01		GAMMALL_GS	1.9929E+00	L	06/15/2007	18:23	I
7129606	K-40	13966-00-2	-3.41E+01	pCi/L	6.5E+01	6.5E+01	U	1.44E+02		GAMMALL_GS	1.9929E+00	L	06/15/2007	18:23	I
7129606	RU-106	13967-48-1	-7.17E+00	pCi/L	2.1E+01	2.1E+01	U	3.62E+01		GAMMALL_GS	1.9929E+00	L	06/15/2007	18:23	I
7129606	SB-125	14234-35-6	4.03E-01	pCi/L	5.8E+00	5.8E+00	U	1.03E+01		GAMMALL_GS	1.9929E+00	L	06/15/2007	18:23	I
7129602	TC-99	14133-76-7	1.63E+04	pCi/L	6.8E+01	9.7E+02		9.70E+00	100.0	TC99_ETVDSK_LS	1.264E-01	L	06/06/2007	20:37	I
7129596	Uranium	7440-61-1	1.06E+02	ug/L	1.3E+01	1.3E+01		8.19E-02		UTOT_KPA	2.56E-02	ML	06/15/2007	14:13	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:
9JV95R10	B1N4H7		MW6-SBB-A1	W07-005	W05164					05/02/2007 08:59

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7129606	BE-7	13966-02-4	-6.91E+00	pCi/L	3.1E+01	3.1E+01	U	5.60E+01		GAMMALL_GS	1.9975E+00	L	06/15/2007	18:23	I
7129606	CO-60	10198-40-0	3.34E+01	pCi/L	8.4E+00	8.4E+00		4.32E+00		GAMMALL_GS	1.9975E+00	L	06/15/2007	18:23	I
7129606	CS-134	13967-70-9	1.63E+00	pCi/L	2.6E+00	2.6E+00	U	5.25E+00		GAMMALL_GS	1.9975E+00	L	06/15/2007	18:23	I
7129606	CS-137	10045-97-3	-7.38E-01	pCi/L	2.8E+00	2.8E+00	U	4.95E+00		GAMMALL_GS	1.9975E+00	L	06/15/2007	18:23	I
7129606	EU-152	14683-23-9	-3.60E+00	pCi/L	5.6E+00	5.6E+00	U	9.25E+00		GAMMALL_GS	1.9975E+00	L	06/15/2007	18:23	I
7129606	EU-154	15585-10-1	-3.28E+00	pCi/L	7.9E+00	7.9E+00	U	1.37E+01		GAMMALL_GS	1.9975E+00	L	06/15/2007	18:23	I
7129606	EU-155	14391-16-3	-6.40E-01	pCi/L	4.0E+00	4.0E+00	U	7.07E+00		GAMMALL_GS	1.9975E+00	L	06/15/2007	18:23	I
7129606	K-40	13966-00-2	-6.51E+01	pCi/L	4.9E+01	4.9E+01	U	9.91E+01		GAMMALL_GS	1.9975E+00	L	06/15/2007	18:23	I
7129606	RU-106	13967-48-1	3.17E+00	pCi/L	2.0E+01	2.0E+01	U	3.85E+01		GAMMALL_GS	1.9975E+00	L	06/15/2007	18:23	I
7129606	SB-125	14234-35-6	6.39E+00	pCi/L	6.4E+00	6.4E+00	U	1.25E+01		GAMMALL_GS	1.9975E+00	L	06/15/2007	18:23	I
7129602	TC-99	14133-76-7	1.65E+04	pCi/L	6.9E+01	9.8E+02		9.79E+00	100.0	TC99_ETVDSK_LS	1.253E-01	L	06/06/2007	22:42	I
7129596	Uranium	7440-61-1	1.06E+02	ug/L	1.3E+01	1.3E+01		8.09E-02		UTOT_KPA	2.59E-02	ML	06/15/2007	14:15	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JV9VP10	B1N3X5		MW6-SBB-A1	S07-005	W05164					05/02/2007 12:12

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7129606	BE-7	13966-02-4	-1.39E+01	pCi/L	1.8E+01	1.8E+01	U	3.00E+01		GAMMALL_GS	1.9974E+00	L	06/15/2007	18:20	I
7129606	CO-60	10198-40-0	7.94E-01	pCi/L	1.7E+00	1.7E+00	U	3.52E+00		GAMMALL_GS	1.9974E+00	L	06/15/2007	18:20	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.

6/25/2007 9:13:04 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35706 File Name: h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

7129606	CS-134	13967-70-9	1.37E-01	pCi/L	1.6E+00	1.6E+00	U	3.05E+00		GAMMALL_GS	1.9974E+00	L	06/15/2007	18:20	I
7129606	CS-137	10045-97-3	1.51E+00	pCi/L	1.4E+00	1.4E+00	U	3.03E+00		GAMMALL_GS	1.9974E+00	L	06/15/2007	18:20	I
7129606	EU-152	14683-23-9	1.87E+00	pCi/L	3.5E+00	3.5E+00	U	6.71E+00		GAMMALL_GS	1.9974E+00	L	06/15/2007	18:20	I
7129606	EU-154	15585-10-1	3.10E+00	pCi/L	6.0E+00	6.0E+00	U	1.22E+01		GAMMALL_GS	1.9974E+00	L	06/15/2007	18:20	I
7129606	EU-155	14391-16-3	4.70E-01	pCi/L	3.3E+00	3.3E+00	U	6.05E+00		GAMMALL_GS	1.9974E+00	L	06/15/2007	18:20	I
7129606	K-40	13966-00-2	2.23E+01	pCi/L	3.7E+01	3.7E+01	U	3.45E+01		GAMMALL_GS	1.9974E+00	L	06/15/2007	18:20	I
7129606	RU-106	13967-48-1	1.90E-01	pCi/L	1.4E+01	1.4E+01	U	2.62E+01		GAMMALL_GS	1.9974E+00	L	06/15/2007	18:20	I
7129606	SB-125	14234-35-6	1.82E+00	pCi/L	3.4E+00	3.4E+00	U	6.67E+00		GAMMALL_GS	1.9974E+00	L	06/15/2007	18:20	I
7129603	PU-238	13981-16-3	-1.84E-02	pCi/L	7.8E-02	7.8E-02	U	2.28E-01	89.6	PUISO_PLATE_AE	1.99E-01	L	06/08/2007	16:53	I
7129603	PU-239	PU-239/240	-2.15E-02	pCi/L	7.8E-02	7.8E-02	U	2.37E-01	89.6	PUISO_PLATE_AE	1.99E-01	L	06/08/2007	16:53	I
7129604	SR-90	10098-97-2	9.37E-02	pCi/L	2.4E-01	2.4E-01	U	5.26E-01	67.0	SRISO_SEP_PRE	1.0053E+00	L	06/18/2007	05:35	I
7129596	Uranium	7440-61-1	4.20E+00	ug/L	4.3E-01	4.3E-01		7.88E-02		UTOT_KPA	2.66E-02	ML	06/15/2007	13:59	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:
9JWA1V10	B1N4C2		MW6-SBB-A1	W07-005	W05164					05/02/2007 10:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7129599	TC-99	14133-76-7	4.41E+01	pCi/L	5.7E+00	8.9E+00		1.08E+01	100.0	TC99_SEP_LSC	1.252E-01	L	06/12/2007	03:04	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:
9JWA3610	B1MCV3		MW6-SBB-A1	A07-003	W05164					05/03/2007 12:50

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7129607	H-3	10028-17-8	2.79E+01	pCi/L	1.2E+02	1.4E+02	U	2.97E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/16/2007	02:22	I
7129605	I-129L	15046-84-1	-4.27E-02	pCi/L	1.4E-01	1.4E-01	U	2.44E-01	106.2	I129LL_SEP_LEPS	3.9351E+00	L	06/14/2007	22:59	I
7129602	TC-99	14133-76-7	1.10E+01	pCi/L	4.4E+00	6.3E+00		9.83E+00	100.0	TC99_ETVDSK_LS	1.263E-01	L	06/06/2007	23:45	I
7129596	Uranium	7440-61-1	7.73E-01	ug/L	8.1E-02	8.1E-02		8.59E-02		UTOT_KPA	2.44E-02	ML	06/15/2007	14:26	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JWAV410	B1N4C7		MW6-SBB-A1	W07-005	W05164					05/02/2007 09:51

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7129606	BE-7	13966-02-4	1.66E+00	pCi/L	3.1E+01	3.1E+01	U	5.68E+01		GAMMALL_GS	2.0027E+00	L	06/15/2007	18:23	I
7129606	CO-60	10198-40-0	3.31E+01	pCi/L	8.4E+00	8.4E+00		4.12E+00		GAMMALL_GS	2.0027E+00	L	06/15/2007	18:23	I
7129606	CS-134	13967-70-9	2.47E+00	pCi/L	3.0E+00	3.0E+00	U	6.10E+00		GAMMALL_GS	2.0027E+00	L	06/15/2007	18:23	I
7129606	CS-137	10045-97-3	-6.99E-01	pCi/L	2.5E+00	2.5E+00	U	4.49E+00		GAMMALL_GS	2.0027E+00	L	06/15/2007	18:23	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.

6/25/2007 9:13:04 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35706 File Name: h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

7129606	EU-152	14683-23-9	4.30E+00	pCi/L	6.4E+00	6.4E+00	U	1.21E+01		GAMMALL_GS	2.0027E+00	L	06/15/2007	18:23	I
7129606	EU-154	15585-10-1	-7.26E+00	pCi/L	6.3E+00	6.3E+00	U	8.74E+00		GAMMALL_GS	2.0027E+00	L	06/15/2007	18:23	I
7129606	EU-155	14391-16-3	-9.93E-01	pCi/L	5.3E+00	5.3E+00	U	9.01E+00		GAMMALL_GS	2.0027E+00	L	06/15/2007	18:23	I
7129606	K-40	13966-00-2	8.26E+01	pCi/L	5.7E+01	5.7E+01		4.17E+01		GAMMALL_GS	2.0027E+00	L	06/15/2007	18:23	I
7129606	RU-106	13967-48-1	-2.05E+01	pCi/L	2.7E+01	2.7E+01	U	4.38E+01		GAMMALL_GS	2.0027E+00	L	06/15/2007	18:23	I
7129606	SB-125	14234-35-6	3.36E+00	pCi/L	6.9E+00	6.9E+00	U	1.29E+01		GAMMALL_GS	2.0027E+00	L	06/15/2007	18:23	I
7129599	TC-99	14133-76-7	1.07E+04	pCi/L	5.7E+01	6.4E+02		1.07E+01	100.0	TC99_SEP_LSC	1.26E-01	L	06/11/2007	22:55	I
7129596	Uranium	7440-61-1	1.51E+02	ug/L	1.8E+01	1.8E+01		8.12E-02		UTOT_KPA	2.58E-02	ML	06/15/2007	14:20	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JWAWD10	B1N4D2		MW6-SBB-A1	W07-005	W05164					05/02/2007 10:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7129595	BETA	12587-47-2	5.11E+01	pCi/L	3.6E+00	7.5E+00		2.73E+00	100.0	9310_ALPHABETA	2.004E-01	L	06/15/2007	19:50	I
7129606	BE-7	13966-02-4	-1.40E+01	pCi/L	2.5E+01	2.5E+01	U	4.18E+01		GAMMALL_GS	1.999E+00	L	06/15/2007	20:11	I
7129606	CO-60	10198-40-0	7.44E-01	pCi/L	1.8E+00	1.8E+00	U	4.12E+00		GAMMALL_GS	1.999E+00	L	06/15/2007	20:11	I
7129606	CS-134	13967-70-9	1.29E+00	pCi/L	2.0E+00	2.0E+00	U	4.29E+00		GAMMALL_GS	1.999E+00	L	06/15/2007	20:11	I
7129606	CS-137	10045-97-3	9.96E-01	pCi/L	1.8E+00	1.8E+00	U	3.76E+00		GAMMALL_GS	1.999E+00	L	06/15/2007	20:11	I
7129606	EU-152	14683-23-9	-2.40E+00	pCi/L	5.4E+00	5.4E+00	U	9.25E+00		GAMMALL_GS	1.999E+00	L	06/15/2007	20:11	I
7129606	EU-154	15585-10-1	2.41E+00	pCi/L	6.2E+00	6.2E+00	U	1.32E+01		GAMMALL_GS	1.999E+00	L	06/15/2007	20:11	I
7129606	EU-155	14391-16-3	-2.04E+00	pCi/L	3.6E+00	3.6E+00	U	5.95E+00		GAMMALL_GS	1.999E+00	L	06/15/2007	20:11	I
7129606	K-40	13966-00-2	1.18E+01	pCi/L	3.0E+01	3.0E+01	U	6.93E+01		GAMMALL_GS	1.999E+00	L	06/15/2007	20:11	I
7129606	RU-106	13967-48-1	-1.16E+01	pCi/L	1.6E+01	1.6E+01	U	2.68E+01		GAMMALL_GS	1.999E+00	L	06/15/2007	20:11	I
7129606	SB-125	14234-35-6	1.56E+00	pCi/L	4.8E+00	4.8E+00	U	9.12E+00		GAMMALL_GS	1.999E+00	L	06/15/2007	20:11	I
7129599	TC-99	14133-76-7	1.70E+02	pCi/L	8.3E+00	1.6E+01		1.06E+01	100.0	TC99_SEP_LSC	1.26E-01	L	06/12/2007	01:00	I
7129596	Uranium	7440-61-1	3.21E+00	ug/L	3.3E-01	3.3E-01		8.35E-02		UTOT_KPA	2.51E-02	ML	06/15/2007	14:21	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:
9JWE3710	B1MNJ8		MW6-SBB-A1	W07-004	W05164					05/02/2007 11:20

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7129594	ALPHA	12587-46-1	2.03E+00	pCi/L	1.4E+00	1.5E+00		1.79E+00	100.0	9310_ALPHABETA	1.612E-01	L	06/15/2007	19:36	I
7129595	BETA	12587-47-2	9.11E+00	pCi/L	1.8E+00	2.6E+00		2.65E+00	100.0	9310_ALPHABETA	2.00E-01	L	06/15/2007	19:49	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.

Monday, June 25, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JWL201AB **Sdg/Rept Nbr:** W05164 35706 **Collection Date:** 05/02/2007 09:51

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 05/02/2007

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
7129599	TC-99	1.93E+00	pCi/L	6.4E+00	U	1.07E+01	100.0		TC99_SEP_LS	1.276E-01	06/12/2007				D
BLK	14133-76-7			4.4E+00						L	04:07				

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.

Monday, June 25, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JWL231AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05164 35706
Matrix: WATER WATER
QC Type: BLK

Collection Date: 05/02/2007 12:46
Sample On Date:
Received Date: 05/02/2007

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
7129602	TC-99	2.91E+00	pCi/L	5.9E+00	U	9.75E+00	100.0		TC99_ETVDSK	1.251E-01	06/07/2007				D
BLK	14133-76-7			4.1E+00						L	00:47				

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.

Monday, June 25, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JWL241AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05164 35706
Matrix: WATER WATER
QC Type: BLK

Collection Date: 05/02/2007 12:12
Sample On Date:
Received Date: 05/02/2007

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
7129603	PU-238	-5.65E-03	pCi/L	7.1E-02	U	1.61E-01	91.9		PUISO_PLATE	1.996E-01	06/08/2007				D
BLK	13981-16-3			7.1E-02						L	16:53				
7129603	PU-239	-5.64E-03	pCi/L	7.1E-02	U	1.61E-01	91.9		PUISO_PLATE	1.996E-01	06/08/2007				D
BLK	PU-239/240			7.1E-02						L	16:53				

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

Monday, June 25, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JWL261AB **Sdg/Rept Nbr:** W05164 35706 **Collection Date:** 05/02/2007 12:12

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 05/02/2007

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
7129604	SR-90	1.44E-01	pCi/L	2.3E-01	U	4.79E-01	77.6		SRISO_SEP_P	9.997E-01	06/18/2007				D
BLK	10098-97-2			2.3E-01						L	05:35				

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.

Monday, June 25, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JWL271AB **Sdg/Rept Nbr:** W05164 35706 **Collection Date:** 05/03/2007 12:50

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 05/03/2007

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
7129605	I-129L	-7.43E-02	pCi/L	2.5E-01	U	4.37E-01	50.3		I129LL_SEP_L	3.9909E+00	06/15/2007				D
BLK	15046-84-1			2.5E-01						L	05:14				

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

Monday, June 25, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JWL291AB **Sdg/Rept Nbr:** W05164 35706 **Collection Date:** 05/02/2007 08:59

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 05/02/2007

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
7129606	BE-7	1.43E+01	pCi/L	3.0E+01	U	5.71E+01			GAMMALL_GS	1.9979E+00	06/15/2007				D
BLK	13966-02-4			3.0E+01						L	20:11				
7129606	CO-60	1.05E+00	pCi/L	2.9E+00	U	5.91E+00			GAMMALL_GS	1.9979E+00	06/15/2007				D
BLK	10198-40-0			2.9E+00						L	20:11				
7129606	CS-134	-1.82E+00	pCi/L	2.4E+00	U	3.89E+00			GAMMALL_GS	1.9979E+00	06/15/2007				D
BLK	13967-70-9			2.4E+00						L	20:11				
7129606	CS-137	1.28E+00	pCi/L	2.5E+00	U	4.80E+00			GAMMALL_GS	1.9979E+00	06/15/2007				D
BLK	10045-97-3			2.5E+00						L	20:11				
7129606	EU-152	7.95E-01	pCi/L	5.3E+00	U	9.67E+00			GAMMALL_GS	1.9979E+00	06/15/2007				D
BLK	14683-23-9			5.3E+00						L	20:11				
7129606	EU-154	-1.11E+00	pCi/L	7.3E+00	U	1.36E+01			GAMMALL_GS	1.9979E+00	06/15/2007				D
BLK	15585-10-1			7.3E+00						L	20:11				
7129606	EU-155	-1.61E+00	pCi/L	3.7E+00	U	6.39E+00			GAMMALL_GS	1.9979E+00	06/15/2007				D
BLK	14391-16-3			3.7E+00						L	20:11				
7129606	K-40	-5.57E+01	pCi/L	4.7E+01	U	9.83E+01			GAMMALL_GS	1.9979E+00	06/15/2007				D
BLK	13966-00-2			4.7E+01						L	20:11				
7129606	RU-106	-3.03E+00	pCi/L	1.9E+01	U	3.44E+01			GAMMALL_GS	1.9979E+00	06/15/2007				D
BLK	13967-48-1			1.9E+01						L	20:11				
7129606	SB-125	7.46E-01	pCi/L	5.4E+00	U	9.93E+00			GAMMALL_GS	1.9979E+00	06/15/2007				D
BLK	14234-35-6			5.4E+00						L	20:11				

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

Monday, June 25, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JWL2H1AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05164 35706
Matrix: WATER WATER
QC Type: BLK

Collection Date: 05/02/2007 11:20
Sample On Date:
Received Date: 05/02/2007

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
7129594	ALPHA	1.73E-01	pCi/L	4.2E-01	U	9.94E-01	100.0		9310_ALPHAB	1.993E-01	06/15/2007				
BLK	12587-46-1			4.2E-01						L	19:36				D

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.

Monday, June 25, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JWL2K1AB **Sdg/Rept Nbr:** W05164 35706 **Collection Date:** 05/02/2007 11:20

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 05/02/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129595	BETA	8.95E-02	pCi/L	1.2E+00	U	2.69E+00	100.0		9310_ALPHAB	2.003E-01	06/15/2007				D
BLK	12587-47-2			1.2E+00						L	19:49				

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.

Monday, June 25, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id:	JWL2N1AB	**Sdg/Rept Nbr:**	W05164 35706	**Collection Date:**	05/02/2007 09:59
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	05/02/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129596	Uranium	0.00E+00	ug/L	0.0E+00	U	8.15E-02			UTOT_KPA	2.57E-02	06/15/2007				
BLK	7440-61-1			0.0E+00						ML	13:53				D

STL 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.

Monday, June 25, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JWL3A1AB **Sdg/Rept Nbr:** W05164 35706 **Collection Date:** 05/03/2007 12:50

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 05/03/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129607	H-3	-1.60E+01	pCi/L	1.4E+02	U	2.99E+02	100.0		906.0_H3_LSC	5.00E-03	06/15/2007				D
BLK	10028-17-8			1.2E+02						L	20:55				

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

Monday, June 25, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JWL3A1DX **Sdg/Rept Nbr:** W05164 35706 **Collection Date:** 05/03/2007 12:50

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 05/03/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129607	H-3	-7.21E+01	pCi/L	1.3E+02	U	3.02E+02	100.0		906.0_H3_LSC	5.00E-03	06/15/2007				D
BLK	10028-17-8			1.2E+02						L	23:38				

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.

Monday, June 25, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JWL201CS **Sdg/Rept Nbr:** W05164 35706 **Collection Date:** 05/02/2007 09:51

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 05/02/2007

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
7129599	TC-99	4.45E+02	pCi/L	3.2E+01		1.08E+01	100.0	5.36E+02	TC99_SEP_LS	1.257E-01	06/12/2007			70	D
BS	14133-76-7			1.2E+01				83.0		L	05:09			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.

Monday, June 25, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JWL231CS **Sdg/Rept Nbr:** W05164 35706 **Collection Date:** 05/02/2007 12:46

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 05/02/2007

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
7129602	TC-99	4.97E+02	pCi/L	3.5E+01		9.66E+00	100.0	5.32E+02	TC99_ETVDSK	1.261E-01	06/07/2007			70	D
BS	14133-76-7			1.3E+01				93.3		L	01:50			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.

Monday, June 25, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JWL241CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05164 35706
Matrix: WATER WATER
QC Type: BS

Collection Date: 05/02/2007 12:12
Sample On Date:
Received Date: 05/02/2007

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
7129603	PU-239	4.59E+00	pCi/L	1.1E+00		1.79E-01	99.0	4.68E+00	PUISO_PLATE	1.991E-01	06/08/2007			70	D
BS	PU-239/240			7.9E-01				98.0		L	16:54			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.

Monday, June 25, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JWL261CS **Sdg/Rept Nbr:** W05164 35706 **Collection Date:** 05/02/2007 12:12

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 05/02/2007

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
7129604	SR-90	1.39E+01	pCi/L	2.1E+00		4.50E-01	85.8	1.41E+01	SRISO_SEP_P	9.995E-01	06/18/2007			70	D
BS	10098-97-2			6.9E-01				98.8		L	05:35			130	

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

Monday, June 25, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JWL271CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05164 35706
Matrix: WATER WATER
QC Type: BS

Collection Date: 05/03/2007 12:50
Sample On Date:
Received Date: 05/03/2007

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
7129605	I-129L	8.40E+00	pCi/L	1.1E+00		3.46E-01	91.9	9.83E+00	I129LL_SEP_L	3.9086E+00	06/15/2007			70	D
BS	15046-84-1			1.1E+00				85.5		L	05:15			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.

Monday, June 25, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JWL291CS **Sdg/Rept Nbr:** W05164 35706 **Collection Date:** 05/02/2007 08:59

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 05/02/2007

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
7129606	CO-60	3.35E+01	pCi/L	9.9E+00		5.99E+00		3.85E+01	GAMMALL_GS	2.002E+00	06/15/2007			70	D
BS	10198-40-0			9.9E+00				86.9		L	20:11			130	
7129606	CS-137	2.52E+01	pCi/L	8.0E+00		4.51E+00		2.49E+01	GAMMALL_GS	2.002E+00	06/15/2007			70	D
BS	10045-97-3			8.0E+00				101.3		L	20:11			130	
7129606	EU-152	8.41E+01	pCi/L	1.9E+01		1.20E+01		8.23E+01	GAMMALL_GS	2.002E+00	06/15/2007			70	D
BS	14683-23-9			1.9E+01				102.2		L	20:11			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.

Monday, June 25, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JWL2H1CS **Sdg/Rept Nbr:** W05164 35706 **Collection Date:** 05/02/2007 11:20

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 05/02/2007

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
7129594	ALPHA	1.88E+01	pCi/L	5.2E+00		9.06E-01	100.0	2.26E+01	9310_ALPHAB	1.994E-01	06/15/2007			70	D
BS	12587-46-1			2.8E+00				83.2		L	19:36			130	

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

Monday, June 25, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JWL2K1CS **Sdg/Rept Nbr:** W05164 35706 **Collection Date:** 05/02/2007 11:20

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 05/02/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129595	BETA	1.98E+01	pCi/L	3.7E+00		2.50E+00	100.0	2.23E+01	9310_ALPHAB	2.015E-01	06/15/2007			70	D
BS	12587-47-2			2.3E+00				88.9		L	19:49			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.

Monday, June 25, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JWL2N1CS **Sdg/Rept Nbr:** W05164 35706 **Collection Date:** 05/02/2007 09:59

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 05/02/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129596	Uranium	3.53E+01	ug/L	4.2E+00		8.19E-02		3.52E+01	UTOT_KPA	2.56E-02	06/15/2007			70	D
BS	7440-61-1			4.2E+00				100.3		ML	13:57			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.

Monday, June 25, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JWL3A1CS **Sdg/Rept Nbr:** W05164 35706 **Collection Date:** 05/03/2007 12:50

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 05/03/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129607	H-3	2.53E+03	pCi/L	2.5E+02		2.99E+02	100.0	2.72E+03	906.0_H3_LSC	5.00E-03	06/15/2007			70	D
BS	10028-17-8			2.0E+02				92.8		L	22:17			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.

Monday, June 25, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JWL3A1EM **Sdg/Rept Nbr:** W05164 35706 **Collection Date:** 05/03/2007 12:50

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 05/03/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129607	H-3	2.45E+03	pCi/L	2.4E+02		3.03E+02	100.0	2.73E+03	906.0_H3_LSC	5.00E-03	06/16/2007			70	D
BS	10028-17-8			2.0E+02				90.1		L	01:00			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.

Monday, June 25, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JV94A1ER **Sdg/Rept Nbr:** W05164 35706 **Collection Date:** 05/02/2007 09:59

Client Id: B1N4D7 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 05/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-005	MW6-SBB-A19981								AN	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
7129596	Uranium	2.10E+01	ug/L	2.5E+00		7.94E-02			UTOT_KPA	2.64E-02	06/15/2007	.6	0.1		D
DUP	7440-61-1	2.11E+01		2.5E+00						ML	14:02	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.

Monday, June 25, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JV95K1ER **Sdg/Rept Nbr:** W05164 35706 **Collection Date:** 05/02/2007 12:46

Client Id: B1N4H2 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 05/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-005	MW6-SBB-A19981								AO	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
7129602	TC-99	1.20E+04	pCi/L	7.2E+02		9.68E+00	100.0		TC99_ETVDSK	1.261E-01	06/06/2007	2.7	0.7		D
DUP	14133-76-7	1.23E+04		5.8E+01						L	19:34	20.0	3		

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

Monday, June 25, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JV95R1ER
Client Id: B1N4H7
Moisture/Solids%*:

Sdg/Rept Nbr: W05164 35706
Matrix: WATER WATER
QC Type: DUP

Collection Date: 05/02/2007 08:59
Sample On Date:
Received Date: 05/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-005	MW6-SBB-A19981								AQ	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
7129606	BE-7	1.96E+00	pCi/L	2.5E+01	U	4.59E+01			GAMMALL_GS	1.9632E+00	06/15/2007	0.0	0.5		D
DUP	13966-02-4	-6.91E+00		2.5E+01						L	18:24	20.0	3		
7129606	CO-60	3.74E+01	pCi/L	8.4E+00		4.02E+00			GAMMALL_GS	1.9632E+00	06/15/2007	11.2	0.7		D
DUP	10198-40-0	3.34E+01		8.4E+00						L	18:24	20.0	3		
7129606	CS-134	-4.17E-01	pCi/L	2.6E+00	U	4.75E+00			GAMMALL_GS	1.9632E+00	06/15/2007	337.3	1.1		D
DUP	13967-70-9	1.63E+00		2.6E+00						L	18:24	20.0	3		
7129606	CS-137	-1.53E+00	pCi/L	1.9E+00	U	3.06E+00			GAMMALL_GS	1.9632E+00	06/15/2007	0.0	0.6		D
DUP	10045-97-3	-7.38E-01		1.9E+00						L	18:24	20.0	3		
7129606	EU-152	3.12E+00	pCi/L	5.3E+00	U	1.01E+01			GAMMALL_GS	1.9632E+00	06/15/2007	0.0	1.8		D
DUP	14683-23-9	-3.60E+00		5.3E+00						L	18:24	20.0	3		
7129606	EU-154	-4.87E-01	pCi/L	5.5E+00	U	1.10E+01			GAMMALL_GS	1.9632E+00	06/15/2007	0.0	0.7		D
DUP	15585-10-1	-3.28E+00		5.5E+00						L	18:24	20.0	3		
7129606	EU-155	-1.99E+00	pCi/L	4.4E+00	U	7.39E+00			GAMMALL_GS	1.9632E+00	06/15/2007	0.0	0.4		D
DUP	14391-16-3	-6.40E-01		4.4E+00						L	18:24	20.0	3		
7129606	K-40	3.21E+01	pCi/L	3.2E+01	U	7.73E+01			GAMMALL_GS	1.9632E+00	06/15/2007	0.0	4.3		D
DUP	13966-00-2	-6.51E+01		3.2E+01						L	18:24	20.0	3		
7129606	RU-106	-2.65E+01	pCi/L	2.0E+01	U	2.88E+01			GAMMALL_GS	1.9632E+00	06/15/2007	0.0	2.1		D
DUP	13967-48-1	3.17E+00		2.0E+01						L	18:24	20.0	3		
7129606	SB-125	-5.08E+00	pCi/L	6.0E+00	U	9.58E+00			GAMMALL_GS	1.9632E+00	06/15/2007	1757.0	2.7		D
DUP	14234-35-6	6.39E+00		6.0E+00						L	18:24	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.

Monday, June 25, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JV9VP1FR **Sdg/Rept Nbr:** W05164 35706 **Collection Date:** 05/02/2007 12:12

Client Id: B1N3X5 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 05/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-005	MW6-SBB-A19981								AR	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
7129603	PU-238	-1.33E-02	pCi/L	8.4E-02	U	2.21E-01	80.9		PUISO_PLATE	2.00E-01	06/08/2007	0.0	0.1		D
DUP	13981-16-3	-1.84E-02		8.4E-02						L	16:53	20.0	3		
7129603	PU-239	-3.31E-03	pCi/L	8.3E-02	U	1.67E-01	80.9		PUISO_PLATE	2.00E-01	06/08/2007	0.0	0.3		D
DUP	PU-239/240	-2.15E-02		8.3E-02						L	16:53	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.

Monday, June 25, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JV9VP1GR
Client Id: B1N3X5
Moisture/Solids%*:

Sdg/Rept Nbr: W05164 35706
Matrix: WATER WATER
QC Type: DUP

Collection Date: 05/02/2007 12:12
Sample On Date:
Received Date: 05/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-005	MW6-SBB-A19981								AS	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
7129604	SR-90	1.91E-01	pCi/L	2.7E-01	U	5.71E-01	64.9		SRISO_SEP_P	1.0021E+00	06/18/2007	68.1	0.5		D
DUP	10098-97-2	9.37E-02		2.7E-01						L	05:35	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.

Monday, June 25, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JWA361FR **Sdg/Rept Nbr:** W05164 35706 **Collection Date:** 05/03/2007 12:50

Client Id: B1MCV3 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 05/03/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A07-003	MW6-SBB-A19981								AT	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129605	I-129L	-1.85E-01	pCi/L	2.7E-01	U	4.46E-01	46.2		I129LL_SEP_L	3.8978E+00	06/14/2007	0.0	0.8		D
DUP	15046-84-1	-4.27E-02		2.7E-01						L	22:59	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.

Monday, June 25, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JWA361GR **Sdg/Rept Nbr:** W05164 35706 **Collection Date:** 05/03/2007 12:50

Client Id: B1MCV3 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 05/03/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A07-003	MW6-SBB-A19981								AU	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129607	H-3	4.90E+01	pCi/L	1.4E+02	U	2.98E+02	100.0		906.0_H3_LSC	5.00E-03	06/16/2007	55.0	0.2		D
DUP	10028-17-8	2.79E+01		1.2E+02						L	03:44	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.

Monday, June 25, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JWAV41ER **Sdg/Rept Nbr:** W05164 35706 **Collection Date:** 05/02/2007 09:51

Client Id: B1N4C7 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 05/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-005	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
7129599	TC-99	1.11E+04	pCi/L	6.7E+02		1.06E+01	100.0		TC99_SEP_LS	1.266E-01	06/11/2007	3.9	0.9		D
DUP	14133-76-7	1.07E+04		5.8E+01						L	23:57	20.0	3		

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

Monday, June 25, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JWE371DR **Sdg/Rept Nbr:** W05164 35706 **Collection Date:** 05/02/2007 11:20

Client Id: B1MNJ8 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 05/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-004	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
7129594	ALPHA	1.96E+00	pCi/L	1.4E+00		1.54E+00	100.0		9310_ALPHAB	1.634E-01	06/15/2007	3.2	0.1		D
DUP	12587-46-1	2.03E+00		1.4E+00						L	19:36	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.

Monday, June 25, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JWE371ER
Client Id: B1MNJ8
Moisture/Solids%*:

Sdg/Rept Nbr: W05164 35706
Matrix: WATER WATER
QC Type: DUP

Collection Date: 05/02/2007 11:20
Sample On Date:
Received Date: 05/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-004	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
7129595	BETA	1.09E+01	pCi/L	2.5E+00		2.86E+00	100.0		9310_ALPHAB	1.998E-01	06/15/2007	17.7	1.		D
DUP	12587-47-2	9.11E+00		2.0E+00						L	19:49	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.

Monday, June 25, 2007

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JV9491EW
Client Id: B1N4F7
Moisture/Solids%*:

Sdg/Rept Nbr: W05164 35706
Matrix: WATER WATER
QC Type: MS

Collection Date: 05/02/2007 11:42
Sample On Date:
Received Date: 05/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-005	MW6-SBB-A19981								AM	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
7129596	Uranium	3.50E+01	ug/L	4.6E+00		8.12E-02		3.52E+01	UTOT_KPA	2.58E-02	06/15/2007			60	D
MS	7440-61-1			4.6E+00				99.7		ML	14:06			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.

Monday, June 25, 2007

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JV95N1EW **Sdg/Rept Nbr:** W05164 35706 **Collection Date:** 05/02/2007 08:59
Client Id: B1N4H6 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** MS **Received Date:** 05/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-005	MW6-SBB-A19981								AP	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
7129602	TC-99	3.24E+03	pCi/L	1.5E+03		9.62E+00	100.0	3.61E+03	TC99_ETVDSK	1.262E-01	06/06/2007			60	D
MS	14133-76-7			7.4E+01				89.8		L	21:40			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.

Monday, June 25, 2007

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05164.Edd, h:\Reportdb\edd\FeadIV\Rad\35706.Edd

Lab Sample Id: JWAWD1FW **Sdg/Rept Nbr:** W05164 35706 **Collection Date:** 05/02/2007 10:45

Client Id: B1N4D2 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** MS **Received Date:** 05/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-005	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
7129599	TC-99	2.75E+03	pCi/L	1.8E+02		1.07E+01	100.0	3.60E+03	TC99_SEP_LS	1.256E-01	06/12/2007			60	D
MS	14133-76-7			3.0E+01				76.5		L	02:02			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.

RQC050

Severn Trent Laboratories, Inc
WET CHEM BATCHSHEET

Run Date: 6/18/07
Time: 10:41:55

STL Richland

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: IZ COLIFORM BY METHOD 9223
QC BATCH #: **7129597**
PREP DATE: 5/09/07
COMP DATE: 5/09/07
USER: WAGARR

INITIALS:
PREP Dm
ANAL Dm

DATA ENTRY:
INITIALS
DATE

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
JV25C-1-AA	J-7E010304-001	XX I 88 IZ 5I	E	5/2/07	B1N5P1 14.8
JV25G-1-AA	J-7E010304-002	XX I 88 IZ 5I	E		B1N5P9 <1
JV25J-1-AA	J-7E010304-003	XX I 88 IZ 5I	E		B1N5R3 <1
JV25K-1-AA	J-7E010304-004	XX I 88 IZ 5I	E		B1N5N7 <1
JV25M-1-AA	J-7E010304-005	XX I 88 IZ 5I	E		B1N5M9 <1
JV25M-1-AC	J-7E010304-005-X	XX I 88 IZ 5I	E		B1N5M9 DUP <1
JV25Q-1-AA	J-7E010304-006	XX I 88 IZ 5I	E		B1N5T1 14.8
JV250-1-AA	J-7E010304-007	XX I 88 IZ 5I	E		B1N5R7 <1
JV253-1-AA	J-7E010304-008	XX I 88 IZ 5I	E		B1N5N3 <1
JWL2R-1-AA	J-7E090000-597-B	XX I 88 IZ 5I			INTRA-LAB BLANK <1
JWL2R-1-AC	J-7E090000-597-C	XX I 88 IZ 5I			INTRA-LAB CHECK 24.9

Control Limits

(0-0)

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/14/2007 3:28:23 PM

Lot No., Due Date: J7E040145; 06/18/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7129603; RPUISO Pulso by ALP

SDG, Matrix: W05164; WATER

1.0 COC

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

2.0 QC Batch

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

3.0 QC & Samples

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

4.0 Raw Data

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

5.0 Other

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 6-14-7

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 712903
W05164

Review Item	Yes (√)	No (√)	N/A (√)
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 with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other			
1. Are all Nonconformances 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: 6-18-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/18/2007 8:21:01 AM

Lot No., Due Date: J7E070135; 06/18/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7129594; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05164; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	✓		
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used Analysis Volume => JWE371AA 161.20<200.00 Q:VB		✓	
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK	✓		
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	✓		
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => JWE371AA ALPHA 2.0E+00 L:1.8E+00		✓	
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => ALPHA OK; No Callin Level Found => ALPHA	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

8.26 Instruments have Current Calibrations. Yes No N/A

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

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

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

8.3 Comments:

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

First Level Review Lisa Anderson Date 6/18/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 712959 4
W 05164

Review Item	Yes (√)	No (√)	N/A (√)
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 with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other			
1. Are all Nonconformances 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: 6-18-07

LS-038B, Rev. 10, 8/02

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/18/2007 8:22:49 AM

Lot No., Due Date: J7E040272,J7E070135; 06/18/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7129595; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05164; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	✓		
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used OK	✓		
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK	✓		
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	✓		
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => JWAWD1AA BETA 5.1E+01 L:2.7E+00 JWE371AC BETA 9.1E+00 L:2.6E+00		✓	
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => BETA OK; No Callin Level Found => BETA	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

8.26 Instruments have Current Calibrations. Yes No N/A

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

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

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

8.3 Comments:

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

First Level Review Lisa Antonson Date 6/1/8/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7129595
W05164

Review Item	Yes (√)	No (√)	N/A (√)
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 with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other			
1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response:

Second Level Review: Cheryl A Adam Date: 6-18-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/18/2007 11:32:11 AM

Lot No., Due Date: J7E040145; 06/18/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7129604; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05164; WATER

1.0 COC

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

2.0 QC Batch

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

3.0 QC & Samples

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

4.0 Raw Data

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

5.0 Other

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

6.0 Comments on any No response:

First Level Review Lisa Anderson **Date** 6/18/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7129604
W05164

Review Item	Yes (√)	No (√)	N/A (√)
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 with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Nonconformances 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: 6-18-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/18/2007 11:29:56 AM

Lot No., Due Date: J7E040172,J7E040145,J7E040272; 06/18/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7129606; RGAMMA Gamma by GER

SDG, Matrix: W05164; WATER

1.0 COC

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

2.0 QC Batch

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

3.0 QC & Samples

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

4.0 Raw Data

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

5.0 Other

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

6.0 Comments on any No response:

First Level Review Lisa Winterson **Date** 6/18/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7129606
W05164

Review Item	Yes (√)	No (√)	N/A (√)
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 with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response:

Second Level Review: Cheryl A Adam Date: 6-18-07

LS-038B, Rev. 10, 8/02

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/15/2007 1:50:47 PM

Lot No., Due Date: J7E040295; 06/18/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7129605; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05164; WATER

1.0 COC

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

2.0 QC Batch

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

3.0 QC & Samples

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

4.0 Raw Data

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

5.0 Other

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

6.0 Comments on any No response:

First Level Review Lisa Autonson **Date** 6/15/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7129605
W05164

Review Item	Yes (√)	No (√)	N/A (√)
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 with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Nonconformances 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: 6-18-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/18/2007 11:19:38 AM

Lot No., Due Date: J7E040172,J7E040295; 06/18/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7129602; RTC99 Tc-99 by LSC

SDG, Matrix: W05164; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples Incorrect Tracer/Vial => JV95N1AE TCSG<>TCSE Q:V9		✓	
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used OK	✓		
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. OK	✓		
8.17 Tracer within Control Limits. No Tracers found in Batch!			✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!			✓
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK Calc_IDL Not Calculated	✓		
8.23 Result <= Action Level, when Defined. OK: No Action Level Found => TC-99 OK; No Callin Level Found => TC-99	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

OK Lum 6/18/07

8.26 Instruments have Current Calibrations. Yes No N/A

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

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

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

8.3 Comments:

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

First Level Review Lisa Autonson Date 6/18/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7129602
W05164

Review Item	Yes (√)	No (√)	N/A (√)
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 with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Nonconformances 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 Robson Date: 6-18-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/18/2007 11:22:28 AM

Lot No., Due Date: J7E040172,J7E040272; 06/18/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7129599; RTC99 Tc-99 by LSC

SDG, Matrix: W05164; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples Incorrect Tracer/Vial => JWAWD1AF TCSG<>TCSE Q:V9 OK [illegible] 6/18/07		✓	
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used OK	✓		
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. OK	✓		
8.17 Tracer within Control Limits. No Tracers found in Batch!			✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!			✓
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK Calc_IDL Not Calculated	✓		
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => TC-99 OK; No Callin Level Found => TC-99	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

8.26 Instruments have Current Calibrations. Yes No N/A

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

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

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

8.3 Comments:

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

First Level Review Lisa Antonson Date 6/18/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7129599
W05164

Review Item	Yes (√)	No (√)	N/A (√)
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 with contract acceptance criteria?	√		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	√		
8. Do the MS/MSD results and yields meet acceptance criteria?			√
9. Do the duplicate sample results and yields meet acceptance criteria?	√		
C. Other 1. Are all Nonconformances included and noted?			√
2. Are all required forms filled out?	√		
3. Was the correct methodology used?	√		
4. Was transcription checked?	√		
5. Were all calculations checked at a minimum frequency?	√		
6. Were units checked?	√		

Comments on any "No" response:

Second Level Review: Cheryl A Adam Date: 6-18-07

LS-038B, Rev. 10, 8/02

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/18/2007 4:07:54 PM

Lot No., Due Date: J7E040295; 06/18/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7129607; RTRITIUM H-3 by LSC

SDG, Matrix: W05164; WATER

8.0 Correction Calculation Protocol Used. OK	Yes ✓	No	N/A
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	Yes ✓	No	N/A
8.02 Final Results Are in the Appropriate Activity Units OK	Yes ✓	No	N/A
8.03 Batch Contains the Required QC Appropriate for the Method OK	Yes ✓	No	N/A
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	Yes ✓	No	N/A
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	Yes ✓	No	N/A
8.06 At Least the Minimum Sample Volume Was Used Analysis Volume => JWA361AA 5.00<10.00 Q:VB OK AL 6/18/07	Yes	No ✓	N/A
8.07 The Correct Count Geometry was Used. Count Geometry => JWL3A1AF SVP15/5<>SVP10/10 JWL3A1AG SVP15/5<>SVP10/10 JWL3A1AA SVP15/5<>SVP10/10 JWL3A1AC SVP15/5<>SVP10/10 JWL3A1AD SVP15/5<>SVP10/10 JWL3A1AE SVP15/5<>SVP10/10 JWA361AA SVP15/5<>SVP10/10 JWA361AG SVP15/5<>SVP10/10 Q:VC OK AL 6/18/07	Yes	No ✓	N/A
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	Yes ✓	No	N/A
8.09 Method Blank is within Control Limits. OK	Yes ✓	No	N/A
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. OK	Yes ✓	No	N/A
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	Yes ✓	No	N/A
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	Yes ✓	No	N/A
8.14 LCS within Control Limits. OK	Yes ✓	No	N/A
8.15 MLCS within Control Limits. OK	Yes ✓	No	N/A
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!	Yes	No	N/A ✓
8.17 Tracer within Control Limits. No Tracers found in Batch!	Yes	No	N/A ✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!	Yes	No	N/A ✓
8.19 Sample Specific MDC <= CRDL. OK	Yes ✓	No	N/A
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!	Yes	No	N/A ✓
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK Calc_IDL Not Calculated	Yes ✓	No	N/A
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => H-3	Yes ✓	No	N/A

OK; No Callin Level Found => H-3

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

OK

8.25 Counting Spectrum are within FWHM Limits. **Yes** **No** **N/A** ✓

No FWHM found in Batch Data!

8.26 Instruments have Current Calibrations. **Yes** **No** **N/A**

8.27 Correct Count Library Used. **Yes** **No** **N/A** ✓

No Count Library found in Batch Data!

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

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

8.3 Comments:

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

OK

First Level Review Angela Long **Date** 6/18/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7129607
W05164

Review Item	Yes (√)	No (√)	N/A (√)
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 with contract acceptance criteria?	/		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	/		
8. Do the MS/MSD results and yields meet acceptance criteria?			/
9. Do the duplicate sample results and yields meet acceptance criteria?	/		
C. Other 1. Are all Nonconformances 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: Sherryl A Adam Date: 6-19-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/18/2007 1:35:08 PM

Lot No., Due Date: J7E040172,J7E040145,J7E040295,J7E040272; 06/18/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7129596; RUNAT UNat by KPA

SDG, Matrix: W05164; 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:

10-10134

First Level Review Lisa Christenson **Date** 6/18/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 712959 6
W0J164

Review Item	Yes (√)	No (√)	N/A (√)
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 with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Nonconformances 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: 6-18-07

Clouseau
Nonconformance Memo

STL

NCM #: **10-10134**
NCM Initiated By: Lisa Antonson
Date Opened: 06/18/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: UNat by KPA
Lot #'s (Sample #'s): J7E040145 (1), J7E040172 (1,3,4,5,6), J7E040272 (1,2), J7E040295 (1), J7E090000 (596),
QC Batches: 7129596,

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

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	06/18/2007	The technician noted that he dropped and broke the second LCS in the batch. The batch will be accepted based on the acceptable MS and LCS.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	06/18/2007	None

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

5/23/2007 7:12:34 AM

Lot No., Due Date: J7E010304; 06/18/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7129597;

SDG, Matrix: W05164; WATER

1.0 COC

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

2.0 QC Batch

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

3.0 QC & Samples

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

4.0 Raw Data

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

5.0 Other

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

6.0 Comments on any No response:

First Level Review Angela Long **Date** 5/23/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 712597
W05164

Review Item	Yes (√)	No (√)	N/A (√)
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 with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response:

Second Level Review: Cheryl A Allen Date: 5-23-07

LS-038B, Rev. 10, 8/02

STL RICHLAND

PNNL J7D010304
W05164
Due 06-15-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-005-560**

Page 1 of 1

Collector ~~Hanford~~ D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, MAY 2007	HNF-N-506 7	**Ice Chest No.** Spnl 595 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N5P1		W	5-1-07	1313	1x20-mL P	Activity Scan	None
B1N5P1		W	↓	↓	1x500-mL P	9223_COLIFORM: Coliform (1)	Na2S2O3 Cool 4C
						J125C	

Relinquished By ~~Hanford~~ D. E. PARCHEN Print Sign	Date/Time 1400 MAY 01 2007	Received By S. Smith Print Sign	Date/Time 1400 MAY 01 2007
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum 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

79

PNNL J7E010304 W05164 Due 06-15-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-005-572**

Page 1 of 1

Collector Fluor Hanford D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, MAY 2007	HWF-N-50 C 7	**Ice Chest No.** Sure 595 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N5P9		W	5-1-07	1132	1x20-mL P	Activity Scan	None
B1N5P9		W	↓	↓	1x500-mL P	9223_COLIFORM: Coliform (1)	Na2S2O3 Cool 4C
						JV25G	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. E. PARCHEN	[signature]		MAY 01 2007 1400	[signature]	S. Smith	S. Smith	MAY 01 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 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

STL RICHLAND

80

PNNL JTE010304, W05164, Due 06-15-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-005-578**

Page 1 of 1

Collector Fluor Hanford D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, MAY 2007	HNF-N-506 7	**Ice Chest No.** SML 595 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N5R3		W	5-1-07	1051	1x20-mL P	Activity Scan	None
B1N5R3		W	↓	↓	1x500-mL P	9223_COLIFORM: Coliform (1)	Na2S2O3 Cool 4C

JV25J

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. E. PARCHEN			MAY 01 2007 1400	S. Smith		S. Smith	MAY 01 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 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

STL RICHLAND

81

PNNL JTE 016304
W05164
Due 06-15-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-005-554**

Page 1 of 1

Collector Fluor Hanford D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, MAY 2007	HNF-N-506 7	**Ice Chest No.** SIMC 595 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N5N7		W	5-1-07	0933	1x20-mL P	Activity Scan	None
B1N5N7		W	↓	↓	1x500-mL P	9223_COLIFORM: Coliform (1)	Na2S2O3 Cool 4C
						JV25K	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. E. PARCHEN			1400 MAY 01 2007		S. Smith	S. Smith	1400 MAY 01 2007
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liquid	
SO = Solid		T = Tissue	
SL = Sludge		WI = 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

STL RICHLAND

82

PNNL J76 010304
W05164
Due 06-15-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-005-542**

Page 1 of 1

Collector Fluor Hanford D. R. BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, MAY 2007	Logbook: HNF-N-506-8	**Ice Chest No.** SML-137 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N5M9		W	5/1/07	1120	1x20-mL P	Activity Scan	None
B1N5M9		W	↓	↓	1x500-mL P	9223_COLIFORM: Coliform (1)	Na2S2O3 Cool 4C

JV25m

R. Wall 5/1/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON	D.R. Brewington		MAY 01 2007 1400	S. Smith	S. Smith		MAY 01 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 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

PNNL J7E010304
WC5164
due 06-15-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-005-590**

Page 1 of 1

Collector Fluor Hanford C. R. BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, MAY 2007	Logbook: HNF-N-506-8	**Ice Chest No.** SMC-137 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N5T1		W	5/1/07	1015	1x20-mL P	Activity Scan	None
B1N5T1		W	↓	↓	1x500-mL P	9223_COLIFORM: Coliform (1)	Na2S2O3 Cool 4C
						JV259	
			R. Wall		5/1/07		

Relinquished By Print Fluor Hanford C. R. BREWINGTON Sign MAY 01 2007 Date/Time 1400	Received By Print S. Smith Sign MAY 01 2007 Date/Time 1402	Matrix *	
Relinquished By Date/Time	Received By Date/Time	S = Soil, SE = Sediment, SO = Solid, SL = Sludge, W = Water, O = Oil, A = Air	DS = Drum Solid, DL = Drum Liquid, T = Tissue, WI = Wipe, L = Liquid, V = Vegetation, X = Other
Relinquished By Date/Time	Received By Date/Time		
Relinquished By Date/Time	Received By Date/Time		

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

STL RICHLAND

PNNL J7E 010304
W05164
Due 06-15-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-005-584**

Page 1 of 1

Collector Fluor Hanford D. R. BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, MAY 2007	Logbook: HNF-N-506-8	**Ice Chest No.** SML-137 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N5R7		W	5/1/07	0928	1x20-mL P	Activity Scan	None
B1N5R7		W	↓	↓	1x500-mL P	9223_COLIFORM: Coliform (1)	Na2S2O3 Cool 4C

J V250

J. Wall 5/1/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON	D.R. Brewington		MAY 01 2007 1400	S. Smith	S. Smith		MAY 01 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 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

PNNL J7E010304
W05164
due 06-15-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-005-548**

Page 1 of 1

Collector Fluor Hanford D.R. BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, MAY 2007	Logbook: HNF-N-506-8	**Ice Chest No.** SMC-137 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N5N3		W	5/1/07	1224	1x20-mL P	Activity Scan	None
B1N5N3		W	↓	↓	1x500-mL P	9223_COLIFORM: Coliform (1)	Na2S2O3 Cool 4C

JY253

L. Wall 5/1/07

Relinquished By	Received By
Print: Fluor Hanford D.R. BREWINGTON Sign: D.R. Brewington Date/Time: MAY 01 2007 1400	Print: S. Smith Sign: S. Smith Date/Time: MAY 01 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	= 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

STL RICHLAND

SEVERN TRENT STL

Sample Check-in List

Date/Time Received 05-01-07 14:00

Client: PNW SDG # W05164 NA [ ] SAF # W07-005 NA [ ]

Work Order Number: J7E010304 Chain of Custody # W07-005-560, 572, 578, 554, 542, 590, 584, 548

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? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 8
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   _____tape
   _____custody seals
   _____hazard labels
   ✓ appropriate sample labels
9. Samples are:
   ✓ in good condition
   _____broken
   _____leaking
   _____have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: S. Smith Date: 05-01-07 1400

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

STL RICHLAND

PNNL J7EC40145 W05164 Due 6/15/07

Fluor Hanford
R. T. SICKLE

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-005-62**

Page 1 of 1

Collector	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, MAY 2007	HNF-M-506-6	**Ice Chest No.** ERC **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N3X5		W	5/2/7	1212	1x20-mL P	Activity Scan	None
B1N3X5		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1N3X5		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1N3X5		W	↓	↓	1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	HNO3 to pH <2
B1N3X5		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						=V9VP	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			MAY 0 2 2007 1415	Eric Darby		E. Darby	MAY 0 2 2007 1415
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

STL

Sample Check-in List

Date/Time Received 5/2/07 1415

Client PGW SDG # W0S164 NA [ ] SAF # S07-005

Work Order Number J7E040145 Chain of Custody # S07-005-62

Shipping Container ID

1 Custody Seals on shipping container [illegible]

2 Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]

3 Chain of Custody record present? NA [ ] Yes [✓] No [ ]

4 Cooler temperature _____ NA [✓] Yes [✓] No [ ]

5 Vermiculite packing [illegible] [✓]

6 Number of samples in shipping container 1

7 Sample [illegible] exceeded

8 Samples [illegible] NA [✓] Yes [ ] No [ ]

____ tape
____ custody seals

____ hazard labels
[✓] appropriate samples labels

9 Samples are
[✓] in good condition
____ broken

____ leaking
____ have air bubbles
(Only for samples requiring headspace)

10 Sample pH taken? NA [ ] pH-2 [✓] pH-2 [ ] pH-2 [ ]

11 Sample Location, Sample Collector Listed
*For documentation only. No corrective action needed. Yes [✓] No [ ]

12 Were any anomalies identified in sample receipt? Yes [ ] No [✓]

13 Description of anomalies (include sample numbers) _____

Sample Custodian E. Darby Date 5/2/07 1415

Client Sample ID	Analysis Requested	Comments	

Client informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023 9/03, Rev. 5

STL RICHLAND

PNNL J7E040172 W05164 Due 6-15-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-005-14**

Page 1 of 1

Collector Fluor Hanford D. R. BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, MAY 2007	Logbook: HNF-N-506-8	**Ice Chest No.** SMC-4050 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N4D7		W	5/2/07	0959	1x20-mL P	Activity Scan	None
B1N4D7		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1N4D7		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1N4D7		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JV94A	

R. Wall 5/2/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON	D. R. Brewington		MAY 0 2 2007 1415	Eric Darby	Eric Darby		MAY 0 2 2007 1415
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

PNNL J7E040172 W05164 Due 6-15-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-005-18**

Page 1 of 1

Collector Fluor Hanford D. R. BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, MAY 2007	Logbook: HNF-N-506-8	**Ice Chest No.** SML-4050 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N4F2		W	5/2/07	1056	1x20-mL P	Activity Scan	None
B1N4F2		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
						JV941	

R. Wall 5/2/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON	D.R. Brewington		MAY 0 2 2007 1415	Eric Darby	E. Darby		MAY 0 2 2007 1415
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

PNNL J7E040172 WO 5164 Due 6-15-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-005-22**

Page 1 of 1

Collector Fluor Hanford D. R. BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, MAY 2007	Logbook: HNF-N-506-8	**Ice Chest No.** SML-4050 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N4F7		W	5/2/07	1142	1x20-mL P	Activity Scan	None
B1N4F7		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
B1N4F7		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1N4F7		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JV949	

R. Wall 5/2/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON	D.R. Brewington		MAY 0 2 2007 1415	ERIC DARGY	E. Dargy		MAY 0 2 2007 1415
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

STL RICHLAND

PNNL J7E040172 WO5164 Due 6-15-7

Fluor Hanford
D R BREWINGTON

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-005-26**

Page 1 of 1

Collector D R BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, MAY 2007	Logbook: HNF-N-506-8	**Ice Chest No.** SML-4050 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N4H2		W	5/2/07	1246	1x20-mL P	Activity Scan	None
B1N4H2		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1N4H2		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1N4H2		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JV9SK	

R. Wall 5/2/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D R BREWINGTON	D.R. Brewington		MAY 0 2 2007 1415	Eric Darby	E. Darby		MAY 0 2 2007 1415
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

PNNL J7E040172
W05164 Due 6-15-7

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W07-005-30

Page 1 of 1

Collector Fluor Hanford D. R. BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, MAY 2007	Logbook: HNF-N-506-8	**Ice Chest No.** SML-4050 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N4H6		W	5/2/07	0859	1x20-mL P	Activity Scan	None
B1N4H6		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1N4H6		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1N4H6		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

JV95N

R. Wall 5/2/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON	D.R. Brewington	D.R. Brewington	MAY 02 2007 1415	Eric Darby	Eric Darby	E. Darby	MAY 02 2007 1415
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

STL RICHLAND

94

PNNL J7E040172 WO5164 Due 6-15-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-005-31**

Page 1 of 1

Collector Fluor Hanford D. R. BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, MAY 2007	Logbook: HNF-N-506-8	**Ice Chest No.** SNL-405U **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N4H7		W	5/2/07	0859	1x20-mL P	Activity Scan	None
B1N4H7		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1N4H7		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1N4H7		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

JV9SR

R. Wall 5/2/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON			MAY 02 2007 4:15	Eric Darby			MAY 02 2007 4:15
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

STL RICHLAND

95

SEVERN TRENT STL

Sample Checklist List

Date/Time Received 5/2/07 1415

Client: PGW SDG # W05164 NA [ ] SAF # W07-005

Work Order Number J7E040172 Chain of Custody # W07-005-14, -18, -22, -26, -30, -31

Shipping Container ID

1 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 ✓ Yes ✓ No

6 Number of samples in shipping container 6

7 Sample holding times exceeded NA ✓ Yes [ ] No

8 Samples have
____ tape
____ custody seals
____ hazard labels
✓ appropriate samples labels

9 Samples are
✓ in good condition
____ broken
____ leaking
____ have air bubbles
(Only for samples requiring headspace)

10 Sample pH taken? NA [ ] pH 2 ✓ pH 2 [ ] pH 2 [ ]

11 Sample Location: Sample Collection Date
*For documentation only. No corrective action needed. Yes ✓ No

12 Were any anomalies identified in sample receipt? Yes [ ] No ✓

13 Description of anomalies (include sample numbers) _____

Sample Custodian Em Darby Date 5/2/07 1415

Client Sample ID	Analysis Requested	Initial	Date

Client informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS 023 9/03, Rev. 5

STL RICHLAND

PNNL J7E040272
W05164
Due 06-15-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W07-005-6

55

Collector: Fluor Hanford R. T. SICKLE	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W07-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, MAY 2007	HNF-M-506-6	Ice Chest No.: BRC Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N4C7		W	5/2/7	0951	1x20-mL P	Activity Scan	None
B1N4C7		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
B1N4C7		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1N4C7		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JWAV4	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			MAY 02 2007 1415	Eric Dacky		Eric Dacky	MAY 02 2007 1415
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

97

STL RICHLAND

PNNL J7E040372 W05164 Due 06 15 07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W07-005-10

Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W07-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, MAY 2007	HNF-N-506-6	Ice Chest No.: ERC Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N4D2		W	5/2/7	1045	1x20-mL P	Activity Scan	None
B1N4D2		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
B1N4D2		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9) JWAND	HNO3 to pH <2
B1N4D2		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1N4D2		W			1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Fluor Hanford R. T. SICKLE	MAY 0 2 2007 1415	Eric Darby	MAY 0 2 2007 1415
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

98

PNNL JTE040272
W05164,15
due 06-24-07 28

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-005-2**

Page 1 of 1

Collector Fluor Hanford R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, MAY 2007	HMF-N-506-6	**Ice Chest No.** ERC **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N4C2		W	5/2/7	1212	1x20-mL P	Activity Scan	None
B1N4C2		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
						JWAIV	

Relinquished By Fluor Hanford R. T. SICKLE Print Sign Date/Time MAY 0 2 2007 1415	Received By Print Sign Eric Darby Date/Time MAY 0 2 2007 1415	Matrix *
Relinquished By Date/Time	Received By Date/Time	S = Soil, SE = Sediment, SO = Solid, SL = Sludge, W = Water, O = Oil, A = Air, DS = Drum Solid, DL = Drum Liqui, T = Tissue, WI = Wipe, L = Liquid, V = Vegetation, X = Other
Relinquished By Date/Time	Received By Date/Time	
Relinquished By Date/Time	Received By Date/Time	

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

STL RICHLAND

99

STL

Sample Check-in List

Date/Time Received 5/2/07 1415

Client PGW SDG # W05164 NA ( ) SAF # W07-005

Work Order Number J7E040272 Chain of Custody #

Shipping Container ID

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 ✓ Yes ( ) No

5 Number of samples in shipping container 4 Yes ✓ No

6 Sample holding times exceeded

7 Samples have NA ✓ Yes ( ) No

_____ tape

_____ custody seals

_____ hazard labels

✓ appropriate samples labels

8 Samples are

✓ in good condition

_____ broken

_____ leaking

_____ have air bubbles

(Only for samples requiring headspace)

10 Sample pH taken? NA ( ) pH<2 ✓ pH>2 ( ) pH>9 ( )

11 Sample Location, Sample Collector Listed?*

*For documentation only. No corrective action needed Yes ✓ No

12 Were any anomalies identified in sample receipt? Yes ( ) No ✓

13 Description of anomalies (include sample numbers)

Sample Logged in E. Darby Date 5/2/07 1415

Client Sample ID	Analysis Requested	Comments	

Client informed on _____ by _____ Person contacted _____

( ) No action necessary, process as is.

Project Manager _____ Date _____

CS-023 9/03 Rev. 5

STL RICHLAND

PNNL J7E040295 W05164 Due 06.18.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # A07-003-13

Page 1 of 1

Collector: Fluor Hanford F. M. HALL	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: A07-003	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: LLWMA(3)-PA, MARCH 2007	HMF-M-506-6	Ice Chest No.: ERC Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: Other	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MCV3		W	5/3/7	1250	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1MCV3		W	↓	↓	1x20-mL P	Activity Scan	None
B1MCV3		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1MCV3		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1MCV3		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JWA36	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F. M. HALL			MAY 0 3 2007 1530	ERIC Darby		Eric Darby	MAY 0 3 2007 1530
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

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SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 5/3/07 1530

Client: PGW SDG #: W05164 NA [ ] SAF #: A07-003 NA [ ]

Work Order Number: J7E040295 Chain of Custody # A07-003-13

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? 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 labels
   ✓ appropriate samples labels
9. Samples are:
   ✓ in good condition
   _____broken
   _____leaking
   _____have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: Em Dailey Date: 5/3/07 1530

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on_____by_____ Person contacted_____

[ ] No action necessary; process as is.

Project Manager_____ Date_____

LS-023, 9/03, Rev. 5

PNNL ~~JTE040172~~ W05164 Due 06-15-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

JTE070135 W05164 Due 06-15-07

C.O.C. # **W07-004-128**

Page 1 of 1

Collector Fluor Hanford R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, APRIL 2007	HNF-H-506-6	**Ice Chest No.** ERC **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MNJ8		W	5/2/7	1120	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1MNJ8		W	↓	↓	1x20-mL P	Activity Scan	None
						JWATR 58	
						JWE37	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			MAY 0 2 2007 1415	Eric Dagby			MAY 0 2 2007 1415
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

STL RICHLAND

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SEVERN TRENT STL

Sample Check-in List

Date/Time Received 5/2/07 1415

Client PGW SDG # W05164 NA [ ] SAF # ~~W07-005~~ W07-004

Work Order Number ~~J7E040272~~ J7E070135 SS Chain of Custody # W07-004-128

Shipping Container ID _____ Lab # _____

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 [✓] Vermiculite/packing material is N [✓] Yes [✓] No [ ]

6 Number of samples in shipping container 4

7 Sample holding times exceeded? NA [✓] Yes [ ] No [ ]

8 Samples have
____ tape
____ custody seals
____ hazard labels
✓ appropriate samples labels

9 Samples are
✓ in good condition
____ broken
____ leaking
____ have air bubbles
(Only for samples requiring head space)

10 Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]

11 Sample Location, Sample Collector Listed? *
*For documentation only. No corrective action needed. Yes [✓] No [ ]

12 Were any anomalies identified in sample receipt? Yes [ ] No [✓]

13 Description of anomalies (include sample numbers) _____

Sample Custodian E. Darby Date 5/2/07 1415

Client Sample ID	Analysis Requested	Condition	Comments

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS 023 9/03, Rev. 5

STL RICHLAND

6/4/2007 10:28:57 AM

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 06/15/2007 W051604

Batch: 7129603 **WATER** **pCi/L**
SEQ Batch, Test: None

Sample Preparation/Analysis

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

PM, Quote: SA , 57671

Balance Id:1120482733

Pipet #: _____

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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 **JV9VP-1-AC** J7E040145-1-SAMP 05/02/2007 12:12		199.00g,in	PUTC10681 04/10/07,pd 03/13/07,r	200				
		AmtRec: 20ML,500ML,4XLP,4LP	#Containers: 7			Scr:	Alpha: -6.83E-04 uCi/Sa	Beta: -3.89E-04 uCi/Sa
2 **JV9VP-1-AF-X** J7E040145-1-DUP 05/02/2007 12:12		200.00g,in	PUTC10682 04/10/07,pd 03/13/07,r					
		AmtRec: 20ML,500ML,4XLP,4LP	#Containers: 7			Scr:	Alpha: -6.83E-04 uCi/Sa	Beta: -3.89E-04 uCi/Sa
3 **JWL24-1-AA-B** J7E090000-603-BLK 05/02/2007 12:12		199.60g,in	PUTC10683 04/10/07,pd 03/13/07,r					
		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
4 **JWL24-1-AC-C** J7E090000-603-LCS 05/02/2007 12:12		199.10g,in	PUSG0925 05/24/07,pd 03/13/07,r					
		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments: PH < 2.0 JB 6-4-07

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

JV9VP1AC-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						

JWL241AA-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						

JWL241AC-LCS:

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

105

6/4/2007 10:29:02 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 06/15/2007

Sep1 DT/Tm Tech:

Batch: 7129603 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	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

```
JV9VP1AC-SAMP Calc Info:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JWL241AA-BLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JWL241AC-LCS:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

6/14/2007 3:26:00 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/14/2006, 6/19/2007, Batch: '7129603', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7129603						
AC		**CalcC**	**BockJ**	6/4/2007 10:24:53		
SC			wagarr	IsBatched	5/9/2007 4:41:37 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	6/4/2007 10:24:53 AM	RICH-RC-5016 Revision 6
SC			BockJ	Prep1C	6/4/2007 10:29:29 AM	RICH-RC-5016 REVISION 6
SC			FABREM	Sep1C	6/7/2007 6:36:28 PM	RICH-RC-5010 REVISION 4
SC			FABREM	Sep2C	6/8/2007 2:29:40 PM	RICH-RC-5010 REVISION 5
SC			DAWKINSO	InCnt1	6/8/2007 3:16:57 PM	RICH-RD-0008 REVISION 4
SC			DAWKINSO	CalcC	6/8/2007 8:35:31 PM	RICH-RD-0008 REVISION 4
AC			**BockJ**	6/4/2007 10:29:29		
AC			**FABREM**	6/7/2007 6:36:28 PM		
AC			**FABREM**	6/8/2007 2:29:40 PM		
AC			**DAWKINSO**	6/8/2007 3:16:57 PM		
AC			**DAWKINSO**	6/8/2007 8:35:31 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.26

STL RICHLAND

6/11/2007 4:05:51 PM

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 06/15/2007 205164

Batch: 7129594 **WATER** **pCi/L**
SEQ Batch, Test: None

Sample Preparation/Analysis

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

PM, Quote: SA , 57671

Balance Id:1120482733
Pipet #: 235
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,BockJ /APA

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 JWE37-1-AA J7E070135-1-SAMP 05/02/2007 11:20		161.20g,in AmtRec: 20ML,LP	#Containers: 2	1.5	33.8	.50	1A	2002	6/15/07 DW Scr: Alpha: -6.98E-05 uCi/Sa	Beta: 2.97E-05 uCi/Sa
2 JWE37-1-AD-X J7E070135-1-DUP 05/02/2007 11:20		163.40g,in AmtRec: 20ML,LP	#Containers: 2		34.1		1B		Scr: Alpha: -6.98E-05 uCi/Sa	Beta: 2.97E-05 uCi/Sa
3 JWL2H-1-AA-B J7E090000-594-BLK 05/02/2007 11:20		199.30g,in AmtRec:	#Containers: 1		0.6		1C		Scr: Alpha:	Beta:
4 JWL2H-1-AC-C J7E090000-594-LCS 05/02/2007 11:20		199.40g,in AmtRec:	ASD4208 05/17/07,pd 02/09/06,r #Containers: 1		0.6		1D		Scr: Alpha:	Beta:

Comments: Aliquots reduced due to weight screens. PH <2.0 JB 6-11-07

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

JWE371AA-SAMP Constituent List:

ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
JWL2H1AA-BLK:					
ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
JWL2H1AC-LCS:					
Am-241	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

JWE371AA-SAMP Calc Info:

6/11/2007 4:05:53 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 06/15/2007

Sep1 DT/Tm Tech:

Batch: 7129594 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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

```
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JWL2H1AA-BLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JWL2H1AC-LCS:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

6/18/2007 8:20:38 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/18/2006, 6/23/2007, Batch: '7129594', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7129594						
AC		**CalcC**	**BockJ**	6/11/2007 4:01:48 PM		
SC			wagarr	IsBatched	5/9/2007 4:41:37 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	6/11/2007 4:01:48 PM	RICH-RC-5014 Revision 6
SC			BockJ	Prep1C	6/11/2007 4:05:55 PM	RICH-RC-5014 REVISION 6
SC			AshworthA	InPrep2	6/14/2007 11:27:51 AM	RICH-RC-5014 REVISION 6
SC			AshworthA	Prep2C	6/15/2007 6:08:20 PM	RICH-RC-5014 REVISION 7
SC			DAWKINSO	InCnt1	6/15/2007 7:04:42 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	6/15/2007 9:41:59 PM	RICH-RD-0003 REVISION 5
AC			**BockJ**	6/11/2007 4:05:55 PM		
AC			**AshworthA**	6/14/2007 11:27:51		
AC			**AshworthA**	6/15/2007 6:08:20 PM		
AC			**DAWKINSO**	6/15/2007 7:04:42 PM		
AC			**DAWKINSO**	6/15/2007 9:41:59 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.26

STL RICHLAND

6/11/2007 3:50:24 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 06/15/2007 W05164

Batch: 7129595 **WATER** **pCi/L**
SEQ Batch, Test: None

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

PM, Quote: SA , 57671

Balance Id:1120482733
Pipet #: 235
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,BockJ/APA

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 JWAWD-1-AA J7E040272-2-SAMP 05/02/2007 10:45	200.40g,in	AmtRec: 20ML,500ML,4XLP,4LP	#Containers: 7	1.5	89.5	100	27C	2039	6/15/07 OD	Scr: Alpha: 9.70E-04 uCi/Sa Beta: -3.91E-04 uCi/Sa
2 JWE37-1-AC J7E070135-1-SAMP 05/02/2007 11:20	200.00g,in	AmtRec: 20ML,LP	#Containers: 2		68.4		28A			Scr: Alpha: -6.98E-05 uCi/Sa Beta: 2.97E-05 uCi/Sa
3 JWE37-1-AE-X J7E070135-1-DUP 05/02/2007 11:20	199.80g,in	AmtRec: 20ML,LP	#Containers: 2		75.2		28B 6/15/07 OD			Scr: Alpha: -6.98E-05 uCi/Sa Beta: 2.97E-05 uCi/Sa
4 JWL2K-1-AA-B J7E090000-595-BLK 05/02/2007 11:20	200.30g,in	AmtRec:	#Containers: 1		0.1		28B 6/15/07 OD			Scr: Alpha: Beta:
5 JWL2K-1-AC-C J7E090000-595-LCS 05/02/2007 11:20	201.50g,in	BESB3068 03/23/07,pd 08/08/06,r AmtRec:	#Containers: 1		0.5		28D 6/15/07 OD			Scr: Alpha: Beta:

Comments: PH < 2.0 ok 6-11-07

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

JWAWD1AA-SAMP Constituent List:
BETA RDL:4.00E+00 pCi/L LCL: UCL: RPD:

111

STL RICHLAND

6/11/2007 3:50:25 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 06/15/2007

Sep1 DT/Tm Tech:

Batch: 7129595 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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

```
JWL2K1AA-BLK:
  BETA        RDL:4          pCi/L     LCL:        UCL:        RPD:
JWL2K1AC-LCS:
  Sr-90       RDL:           pCi/L     LCL:70      UCL:130     RPD:20
JWAWD1AA-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JWL2K1AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JWL2K1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

6/18/2007 8:22:26 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/18/2006, 6/23/2007, Batch: '7129595', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7129595						
AC		**CalcC**	**BockJ**	6/11/2007 3:41:27 PM		
SC			wagarr	IsBatched	5/9/2007 4:41:37 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	6/11/2007 3:41:27 PM	RICH-RC-5014 Revision 6
SC			BockJ	Prep1C	6/11/2007 3:50:28 PM	RICH-RC-5014 REVISION 6
SC			AshworthA	InPrep2	6/14/2007 11:27:45 AM	RICH-RC-5014 REVISION 6
SC			AshworthA	Prep2C	6/15/2007 6:08:27 PM	RICH-RC-5014 REVISION 7
SC			DAWKINSO	InCnt1	6/15/2007 7:04:30 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	6/15/2007 9:42:04 PM	RICH-RD-0003 REVISION 5
AC			**BockJ**	6/11/2007 3:50:28 PM		
AC			**AshworthA**	6/14/2007 11:27:45		
AC			**AshworthA**	6/15/2007 6:08:27 PM		
AC			**DAWKINSO**	6/15/2007 7:04:30 PM		
AC			**DAWKINSO**	6/15/2007 9:42:04 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.26

STL RICHLAND

6/5/2007 8:36:26 AM

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 06/15/2007 W05164

Batch: 7129604 WATER pCi/L
SEQ Batch, Test: None

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

PM, Quote: SA , 57671

Balance Id:1120482733
Pipet #: DRM
Sep1 DT/Tm Tech: 6/7/07 10:19:39 AM
Sep2 DT/Tm Tech: 6-16-07 8:27 AM
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:
1 JV9VP-1-AD J7E040145-1-SAMP		1005.30g,in YTA17379 Ex:1/3/2008	srtb14839 06/05/07,pd 05/22/07,r	1.445 2.0218	0.7147	23.8	100	9"	1620 5A 0949 5A 0625	6/7/07 DR 6/17/07 R 6/18/07	
05/02/2007 12:12		AmtRec: 20ML,500ML,4XLP,4LP	#Containers: 7					Scr:	Alpha: -6.83E-04 uCi/Sa	Beta: -3.89E-04 uCi/Sa	
2 JV9VP-1-AG-X J7E040145-1-DUP		1002.10g,in YTA17380 Ex:1/3/2008	srtb14840 06/05/07,pd 05/22/07,r	1.386 2.0251	0.6844	24.1		3"	1620 5B 0949 5B 0625	6/7/07 DR 6/17/07 R 6/18/07	
05/02/2007 12:12		AmtRec: 20ML,500ML,4XLP,4LP	#Containers: 7					Scr:	Alpha: -6.83E-04 uCi/Sa	Beta: -3.89E-04 uCi/Sa	
3 JWL26-1-AA-B J7E090000-604-BLK		999.70g,in YTA17381 Ex:1/3/2008	srtb14841 06/05/07,pd 05/22/07,r	1.686 2.0174	0.8357	23.6		9"	1707 5C 0949 5C 0625	6/7/07 DR 6/17/07 R 6/18/07	
05/02/2007 12:12		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:	
4 JWL26-1-AC-C J7E090000-604-LCS		999.50g,in YTA17382 Ex:1/3/2008	srsg1349 05/24/07,pd 09/11/06,r	1.815 2.0069	0.9044	24.1		3"	1708 5d 0949 5D 0625	6/7/07 DR 6/17/07 R 6/18/07	
05/02/2007 12:12		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:	

STL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1 ISV - Insufficient Volume for Analysis WO Cnt: 4
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4.8.26

6/5/2007 8:36:31 AM

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: 06/15/2007

Sep1 DT/Tm Tech:

Batch: 7129604 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:

Comments: PH <2.0 SB 6-5-07

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

JV9VP1AD-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

JWL261AA-BLK:

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

JWL261AC-LCS:

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

JV9VP1AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWL261AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWL261AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

6/18/2007 11:31:29 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/18/2006, 6/23/2007, Batch: '7129604', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7129604						
AC		**CalcC**	**BockJ**	6/5/2007 8:31:17 AM		
SC			wagarr	IsBatched	5/9/2007 4:41:37 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	6/5/2007 8:31:17 AM	RICH-RC-5016 Revision 6
SC			BockJ	Prep1C	6/5/2007 8:38:14 AM	RICH-RC-5016 REVISION 6
SC			ManisD	InSep1	6/5/2007 9:20:52 AM	RICH-RC-5006 REVISION 6
SC			ManisD	Sep1C	6/7/2007 3:35:37 PM	RICH-RC-5006 REVISION 6
SC			DAWKINSO	InCnt1	6/7/2007 3:53:14 PM	RICH-RD-0007 REVISION 5
SC			DAWKINSO	Cnt1C	6/7/2007 9:53:21 PM	RICH-RD-0007 REVISION 5
SC			ManisD	InSep2	6/11/2007 10:04:07 AM	RICH-RC-5071 REVISION 4
SC			FABREM	Sep2C	6/16/2007 3:42:59 PM	RICH-RC-5071 REVISION 5
SC			BlackCL	CalcC	6/18/2007 7:54:22 AM	RICH-RD-0003 REVISION 5
AC			**BockJ**	6/5/2007 8:38:14 AM		
AC			**ManisD**	6/5/2007 9:20:52 AM		
AC			**ManisD**	6/7/2007 3:35:37 PM		
AC			**DAWKINSO**	6/7/2007 3:53:14 PM		
AC			**DAWKINSO**	6/7/2007 9:53:21 PM		
AC			**ManisD**	6/11/2007 10:04:07		
AC			**FABREM**	6/16/2007 3:42:59 PM		ONE
AC			**BlackCL**	6/18/2007 7:54:22		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 9

ICOCFractions v4.8.26

STL RICHLAND

6/11/2007 5:19:21 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: 06/15/2007 005164

Sep1 DT/Tm Tech:

Batch: 7129606 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ManisD,BockJ/ APA

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 JV9VP-1-AA J7E040145-1-SAMP 05/02/2007 12:12		1997.40g,in AmtRec: 20ML,500ML,4XLP,4LP #Containers: 7			100 mL	100	G11	2000	6/15/07 OD	
							Scr:	Alpha: -6.83E-04 uCi/Sa	Beta: -3.89E-04 uCi/Sa	
2 JV94A-1-AA J7E040172-1-SAMP 05/02/2007 09:59		1998.70g,in AmtRec: 20ML,2X500ML,4LP #Containers: 4					G12	2001		
							Scr:	Alpha: 1.01E-06 uCi/Sa	Beta: -7.71E-07 uCi/Sa	
3 JV941-1-AA J7E040172-2-SAMP 05/02/2007 10:56		2000.90g,in AmtRec: 20ML,4LP #Containers: 2					G14	2001		
							Scr:	Alpha: 8.15E-04 uCi/Sa	Beta: -1.41E-04 uCi/Sa	
4 JV949-1-AA J7E040172-3-SAMP 05/02/2007 11:42		1996.30g,in AmtRec: 20ML,500ML,3XLP,4LP #Containers: 6					G7	2002		
							Scr:	Alpha: -5.37E-04 uCi/Sa	Beta: 4.67E-04 uCi/Sa	
5 JV95K-1-AA J7E040172-4-SAMP 05/02/2007 12:46		1998.90g,in AmtRec: 20ML,2X500ML,4LP #Containers: 4					G10	2002		
							Scr:	Alpha: 4.15E-06 uCi/Sa	Beta: -5.54E-07 uCi/Sa	
6 JV95N-1-AA J7E040172-5-SAMP 05/02/2007 08:59		1992.90g,in AmtRec: 20ML,2X500ML,4LP #Containers: 4					G13	2003		
							Scr:	Alpha: 3.21E-06 uCi/Sa	Beta: -4.47E-07 uCi/Sa	
7 JV95R-1-AA J7E040172-6-SAMP 05/02/2007 08:59		1997.50g,in AmtRec: 20ML,2X500ML,4LP #Containers: 4					G6	2003		
							Scr:	Alpha: 1.64E-06 uCi/Sa	Beta: 8.53E-07 uCi/Sa	

STL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1 ISV - Insufficient Volume for Analysis WO Cnt: 7
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4.8.26

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STL RICHLAND

6/11/2007 5:19:23 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 06/15/2007

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

Balance Id:1120482733

Pipet #: _____

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Batch: 7129606 **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	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JV95R-1-AE-X J7E040172-6-DUP 05/02/2007 08:59		1963.20g,in AmtRec: 20ML,2X500ML,4LP #Containers: 4			100mL	100	G8	2004	6/15/07 DH Scr: Alpha: 1.64E-06 uCi/Sa	Beta: 8.53E-07 uCi/Sa
9 JWAV4-1-AA J7E040272-1-SAMP 05/02/2007 09:51		2002.70g,in AmtRec: 20ML,500ML,3XLP,4LP #Containers: 6					G5	2003	Scr: Alpha: 5.53E-03 uCi/Sa 2.4E-01L	Beta: -1.65E-03 uCi/Sa
10 JWAWD-1-AC J7E040272-2-SAMP 05/02/2007 10:45		1999.00g,in AmtRec: 20ML,500ML,4XLP,4LP #Containers: 7					G8	21 51	Scr: Alpha: 9.70E-04 uCi/Sa	Beta: -3.91E-04 uCi/Sa
11 JWL29-1-AA-B J7E090000-606-BLK 05/02/2007 08:59		1997.90g,in AmtRec: #Containers: 1					G6	21 51	Scr: Alpha:	Beta:
12 JWL29-1-AC-C J7E090000-606-LCS 05/02/2007 08:59		2002.00g,in AmtRec: #Containers: 1	QCAG1367 05/30/07,pd 03/07/05,r				G13	21 51	Scr: Alpha:	Beta:

Comments: pH <2.0 JS 6-11-07

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

JV9VP1AA-SAMP Constituent List:
Co-60 RDL:0.00E+00 pCi/L LCL: UCL: RPD: Cs-134 RDL:0.00E+00 pCi/L LCL: UCL: RPD:

6/11/2007 5:19:24 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 06/15/2007

Sep1 DT/Tm Tech:

Batch: 7129606 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit		Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
Cs-137	RDL:6.00E+00	pCi/L	LCL:70	UCL:130	RPD:20	Cs-137DA	RDL:6.00E+00	pCi/L	LCL:70	UCL:130	RPD:20
Eu-154	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Eu-155	RDL:.00E+00	pCi/L	LCL:	UCL:	RPD:
K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Sb-125	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
JWL291AA-BLK:											
Co-60	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
Cs-137	RDL:6.00E+00	pCi/L	LCL:	UCL:	RPD:	Cs-137DA	RDL:6.00E+00	pCi/L	LCL:	UCL:	RPD:
Eu-154	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Eu-155	RDL:.00E+00	pCi/L	LCL:	UCL:	RPD:
K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Sb-125	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
JWL291AC-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						

JV9VP1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JWL291AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JWL291AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

6/18/2007 11:29:18 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/18/2006, 6/23/2007, Batch: '7129606', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7129606						
AC		**CalcC**	**BockJ**	6/11/2007 5:03:46 PM		
SC			wagarr	IsBatched	5/9/2007 4:41:37 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	6/11/2007 5:03:46 PM	RICH-RC-5014 Revision 6
SC			BockJ	Prep1C	6/11/2007 5:19:27 PM	RICH-RC-5017 REVISION 5
SC			AshworthA	InPrep2	6/14/2007 10:42:15 AM	RICH-RC-5017 REVISION 4
SC			AshworthA	Prep2C	6/15/2007 3:05:52 PM	RICH-RC-5017 REVISION 6
SC			StringerR	InCnt1	6/15/2007 3:11:01 PM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	CalcC	6/15/2007 11:28:27 PM	RICH-RD-0007 REVISION 6
AC			**BockJ**	6/11/2007 5:19:27 PM		
AC			**AshworthA**	6/14/2007 10:42:15		
AC			**AshworthA**	6/15/2007 3:05:52 PM		
AC			**StringerR**	6/15/2007 3:11:01 PM		
AC			**DAWKINSO**	6/15/2007 11:28:27		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.26

STL RICHLAND

6/12/2007 11:13:45 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 06/18/2007 W05164

Sep1 DT/Tm Tech:

Batch: 7129605 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JWA36-1-AC J7E040295-1-SAMP 05/03/2007 12:50		3935.10g,in AmtRec: 20ML,2X500L,LP,2X4LP	ITA6356 06/11/07 #Containers: 6		39.3	100	L4	0039 Scr: Alpha: 1.80E-03 uCi/Sa	6/14/07 DKD Beta: -2.68E-05 uCi/Sa	
2 JWA36-1-AF-X J7E040295-1-DUP 05/03/2007 12:50		3897.80g,in AmtRec: 20ML,2X500L,LP,2X4LP	ITA6357 06/11/07 #Containers: 6		17.1		L5	0039 Scr: Alpha: 1.80E-03 uCi/Sa	6 Beta: -2.68E-05 uCi/Sa	
3 JWL27-1-AA-B J7E090000-605-BLK 05/03/2007 12:50		3990.90g,in AmtRec:	ITA6358 06/11/07 #Containers: 1		18.6		L5	0654 Scr: Alpha:	6/15/07 [illegible] Beta:	
4 JWL27-1-AC-C J7E090000-605-LCS 05/03/2007 12:50		3908.60g,in AmtRec:	ISD0752 04/25/07,pd 04/11/07,r #Containers: 1		34.8		L4	0655 Scr: Alpha:	Beta:	

Comments: PH-neutral JB 6-11-07

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

JWA361AC-SAMP Constituent List:

I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:
JWL271AA-BLK:					
I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:
JWL271AC-LCS:					
I-129	RDL:5	pCi/L	LCL:70	UCL:130	RPD:20

JWA361AC-SAMP Calc Info:

6/12/2007 11:13:50 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 06/18/2007

Sep1 DT/Tm Tech:

Batch: 7129605 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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

```
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JWL271AA-BLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JWL271AC-LCS:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

6/15/2007 1:50:19 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/15/2006, 6/20/2007, Batch: '7129605', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7129605						
AC		**CalcC**	**BockJ**	6/12/2007 11:01:30		
SC			wagarr	IsBatched	5/9/2007 4:41:37 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	6/12/2007 11:01:30 AM	rich-rc-5016 rEVISION 6
SC			BockJ	Prep1C	6/12/2007 11:14:19 AM	RICH-RC-5017 REVISION 6
SC			BostedD	InPrep2	6/12/2007 12:02:11 PM	RICHRC5025 REV3
SC			BostedD	Prep2C	6/14/2007 3:38:51 PM	RICHRC5025 REV3
SC			DAWKINSO	InCnt1	6/14/2007 4:02:03 PM	RICH-RD-0007 REVISION 6
SC			StringerR	CalcC	6/15/2007 8:57:56 AM	RICH-RD-0007 REVISION 6
AC			**BockJ**	6/12/2007 11:14:19		
AC			**BostedD**	6/12/2007 12:02:11		
AC			**BostedD**	6/14/2007 3:38:51 PM		
AC			**DAWKINSO**	6/14/2007 4:02:03 PM		
AC			**StringerR**	6/15/2007 8:57:56		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.26

STL RICHLAND

6/4/2007 10:42:32 AM

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 06/15/2007

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Batch: 7129602 **WATER** **pCi/L** **PM, Quote: SA , 57671**
SEQ Batch, Test: None

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 **JV94A-1-AC** J7E040172-1-SAMP 05/02/2007 09:59			126.10g,in	126.10g		60				
			AmtRec: 20ML,2X500ML,4LP	#Containers: 4				Scr:	Alpha: 1.01E-06 uCi/Sa	Beta: -7.71E-07 uCi/Sa
2 **JV95K-1-AC** J7E040172-4-SAMP 05/02/2007 12:46			125.20g,in	125.20g						
			AmtRec: 20ML,2X500ML,4LP	#Containers: 4				Scr:	Alpha: 4.15E-06 uCi/Sa	Beta: -5.54E-07 uCi/Sa
3 **JV95K-1-AE-X** J7E040172-4-DUP 05/02/2007 12:46			126.10g,in	126.10g						
			AmtRec: 20ML,2X500ML,4LP	#Containers: 4				Scr:	Alpha: 4.15E-06 uCi/Sa	Beta: -5.54E-07 uCi/Sa
4 **JV95N-1-AC** J7E040172-5-SAMP 05/02/2007 08:59			126.40g,in	126.40g						
			AmtRec: 20ML,2X500ML,4LP	#Containers: 4				Scr:	Alpha: 3.21E-06 uCi/Sa	Beta: -4.47E-07 uCi/Sa
5 **JV95N-1-AE-S** J7E040172-5-MS 05/02/2007 08:59			126.20g,in	126.20g	TCSG1815 05/24/07,pd 01/10/06,r					
			AmtRec: 20ML,2X500ML,4LP	#Containers: 4				Scr:	Alpha: 3.21E-06 uCi/Sa	Beta: -4.47E-07 uCi/Sa
6 **JV95R-1-AC** J7E040172-6-SAMP 05/02/2007 08:59			125.30g,in	125.30g						
			AmtRec: 20ML,2X500ML,4LP	#Containers: 4				Scr:	Alpha: 1.64E-06 uCi/Sa	Beta: 8.53E-07 uCi/Sa
7 **JWA36-1-AD** J7E040295-1-SAMP 05/03/2007 12:50			126.30g,in	126.30g						
			AmtRec: 20ML,2X500L,LP,2X4LP	#Containers: 6				Scr:	Alpha: 1.80E-03 uCi/Sa	Beta: -2.68E-05 uCi/Sa

STL RICHLAND

6/4/2007 10:42:36 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 06/15/2007

Sep1 DT/Tm Tech:

Batch: 7129602 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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 JWL23-1-AA-B J7E090000-602-BLK 05/02/2007 12:46			125.10g,in	125.10g		60				
	AmtRec:		#Containers: 1					Scr:	Alpha:	Beta:
9 JWL23-1-AC-C J7E090000-602-LCS 05/02/2007 12:46			126.10g,in	126.10g	TCSE2114 05/09/07,pd 01/10/06,r					
	AmtRec:		#Containers: 1					Scr:	Alpha:	Beta:
10 JWL23-1-AD-BN J7E090000-602-IBLK 05/02/2007 12:46										
	AmtRec:		#Containers: 1					Scr:	Alpha:	Beta:

Comments: pH < 2.0 JS 6-4-07

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

JV94A1AC-SAMP Constituent List:

Tc-99	RDL:15	pCi/L	LCL:70	UCL:130	RPD:20

JV95N1AE-MS:

JWL231AA-BLK:

Tc-99	RDL:15	pCi/L	LCL:	UCL:	RPD:

JWL231AC-LCS:

Tc-99	RDL:15	pCi/L	LCL:70	UCL:130	RPD:20

JWL231AD-IBLK:

Tc-99	RDL:15	pCi/L	LCL:	UCL:	RPD:

JV94A1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JV95N1AE-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

6/4/2007 10:42:41 AM

Sample Preparation/Analysis

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

AnalyDueDate: 06/15/2007

Batch: 7129602 **pCi/L**
SEQ Batch, Test: None

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

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

JWL231AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWL231AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWL231AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

6/18/2007 11:19:09 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/18/2006, 6/23/2007, Batch: '7129602', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7129602						
AC		**CalcC**	**BockJ**	6/4/2007 10:36:57		
SC			wagarr	IsBatched	5/9/2007 4:41:37 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	6/4/2007 10:36:57 AM	RICH-RC-5016 Revision 6
SC			BockJ	Prep1C	6/4/2007 10:42:35 AM	RICH-RC-5016 REVISION 6
SC			FABREM	Sep1C	6/5/2007 8:54:36 PM	RICH-RC-5065 REVISION 5
SC			DAWKINSO	InCnt1	6/5/2007 9:15:46 PM	RICH-RD-0001 REVISION 3
SC			BlackCL	CalcC	6/7/2007 7:06:39 AM	RICH-RD-0001 REVISION 3
AC			**BockJ**	6/4/2007 10:42:35		
AC			**FABREM**	6/5/2007 8:54:36 PM		
AC			**DAWKINSO**	6/5/2007 9:15:46 PM		
AC			**BlackCL**	6/7/2007 7:06:39 AM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.26

STL RICHLAND

6/5/2007 6:39:42 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 06/15/2007

Sep1 DT/Tm Tech:

Batch: 7129599 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	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JV949-1-AC J7E040172-3-SAMP 05/02/2007 11:42		125.60g,in AmtRec: 20ML,500ML,3XLP,4LP	#Containers: 6			Scr:	Alpha: -5.37E-04 uCi/Sa	Beta: 4.67E-04 uCi/Sa
2 JWAV4-1-AC J7E040272-1-SAMP 05/02/2007 09:51		126.00g,in AmtRec: 20ML,500ML,3XLP,4LP	#Containers: 6			Scr:	Alpha: 5.53E-03 uCi/Sa 2.4E-01L	Beta: -1.65E-03 uCi/Sa
3 JWAV4-1-AE-X J7E040272-1-DUP 05/02/2007 09:51		126.60g,in AmtRec: 20ML,500ML,3XLP,4LP	#Containers: 6			Scr:	Alpha: 5.53E-03 uCi/Sa 2.4E-01L	Beta: -1.65E-03 uCi/Sa
4 JWAWD-1-AD J7E040272-2-SAMP 05/02/2007 10:45		126.00g,in AmtRec: 20ML,500ML,4XLP,4LP	#Containers: 7			Scr:	Alpha: 9.70E-04 uCi/Sa	Beta: -3.91E-04 uCi/Sa
5 JWAWD-1-AF-S J7E040272-2-MS 05/02/2007 10:45		125.60g,in AmtRec: 20ML,500ML,4XLP,4LP	TCSG1818 05/24/07,pd 01/10/06,r #Containers: 7			Scr:	Alpha: 9.70E-04 uCi/Sa	Beta: -3.91E-04 uCi/Sa
6 JWA1V-1-AA J7E040272-4-SAMP 05/02/2007 10:45		125.20g,in AmtRec: 20ML,3XLP	#Containers: 4			Scr:	Alpha: -1.72E-04 uCi/Sa	Beta: -8.14E-06 uCi/Sa
7 JWL20-1-AA-B J7E090000-599-BLK 05/02/2007 09:51		127.60g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

6/5/2007 6:39:47 AM

Sample Preparation/Analysis

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

Balance Id:1120482733
Pipet #:

AnalyDueDate: 06/15/2007

Sep1 DT/Tm Tech:

Batch: 7129599 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	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JWL20-1-AC-C J7E090000-599-LCS 05/02/2007 09:51		125.70g,in AmtRec:	TCSE2115 05/09/07,pd 01/10/06,r #Containers: 1	60		Scr:	Alpha:	Beta:
9 JWL20-1-AD-BN J7E090000-599-IBLK 05/02/2007 09:51		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments: pH <2.2)3 6-5-07

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

JV9491AC-SAMP Constituent List:
Tc-99 RDL:1.50E+01 pCi/L LCL:70 UCL:130 RPD:20
JWAWD1AF-MS:

JWL201AA-BLK:
Tc-99 RDL:1.50E+01 pCi/L LCL: UCL: RPD:
JWL201AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
JWL201AD-IBLK:
Tc-99 RDL:1.50E+01 pCi/L LCL: UCL: RPD:

JV9491AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWAWD1AF-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWL201AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWL201AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWL201AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

6/5/2007 6:39:50 AM

Sample Preparation/Analysis

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

AnalyDueDate: 06/15/2007

Batch: 7129599 **pCi/L**
SEQ Batch, Test: None

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

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

Approved By _____ Date: _____

6/18/2007 11:21:53 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/18/2006, 6/23/2007, Batch: '7129599', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7129599						
AC		**CalcC**	**BockJ**	6/5/2007 6:32:52 AM		
SC			wagarr	IsBatched	5/9/2007 4:41:37 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	6/5/2007 6:32:52 AM	RICH-RC-5016 Revision 6
SC			FABREM	InSep1	6/11/2007 7:39:18 AM	RICH-RC-5078 REVISION 3
SC			FABREM	Sep1C	6/11/2007 1:34:51 PM	RICH-RC-5078 REVISION 3
SC			BlackCL	InCnt1	6/11/2007 1:42:03 PM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	6/12/2007 8:05:38 AM	RICH-RD-0001 REVISION 4
AC			**FABREM**	6/11/2007 7:39:18		
AC			**FABREM**	6/11/2007 1:34:51 PM		
AC			**BlackCL**	6/11/2007 1:42:03 PM		
AC			**BlackCL**	6/12/2007 8:05:38		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.26

5/9/2007 4:38:20 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 06/18/2007 W05164

Batch: 7129607 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 6-15-07 Tam
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JWA36-1-AA J7E040295-1-SAMP 05/03/2007 12:50		AmtRec: 20ML,2X500L,LP,2X4LP	#Containers: 6			Scr:	Alpha:	Beta:
2 JWA36-1-AG-X J7E040295-1-DUP 05/03/2007 12:50		AmtRec: 20ML,2X500L,LP,2X4LP	#Containers: 6			Scr:	Alpha:	Beta:
3 JWL3A-1-AA-B J7E090000-607-BLK 05/03/2007 12:50		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
4 JWL3A-1-AC-C J7E090000-607-LCS 05/03/2007 12:50		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
5 JWL3A-1-AD-BX J7E090000-607-MBLK 05/03/2007 12:50		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 JWL3A-1-AE-CM J7E090000-607-MLCS 05/03/2007 12:50		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
7 JWL3A-1-AF-BN J7E090000-607-IBLK 05/03/2007 12:50		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Sample Preparation/Analysis

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

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 6-15-07
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 06/18/2007

Batch: 7129607 pCi/L
SEQ Batch, Test: None

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

8 JWL3A-1-AG-BN
J7E090000-607-IBLK
05/03/2007 12:50 AmtRec: #Containers: 1 Scr: Alpha: Beta:

Comments:

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

JWA361AA-SAMP Constituent List:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
JWL3A1AA-BLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
JWL3A1AC-LCS:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
JWL3A1AD-MBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
JWL3A1AE-MLCS:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
JWL3A1AF-IBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
JWL3A1AG-IBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:

JWA361AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWL3A1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWL3A1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWL3A1AD-MBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWL3A1AE-MLCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWL3A1AF-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

STL RICHLAND

Sample Preparation/Analysis

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

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

AnalyDueDate: 06/18/2007

Batch: 7129607 pCi/L
SEQ Batch, Test: None

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

JWL3A1AG-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

STL RICHLAND

6/18/2007 4:07:36 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/18/2006, 6/23/2007, Batch: '7129607', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7129607						
AC		**CalcC**	**McDowellD**	6/15/2007 8:18:38		
SC			wagarr	IsBatched	5/9/2007 4:41:37 PM	ICOC_RADCALC v4.8.26
SC			McDowellD	InSep1	6/15/2007 8:18:38 AM	RICH-RC-5007 REVISION 6
SC			McDowellD	Sep1C	6/15/2007 11:06:56 AM	RICH-RC-5007 REVISION 6
SC			StringerR	InCnt1	6/15/2007 11:11:28 AM	RICH-RD-0001 REVISION 4
SC			StringerR	CalcC	6/17/2007 12:41:02 PM	RICH-RD-0001 REVISION 4
AC			**McDowellD**	6/15/2007 11:06:56		
AC			**StringerR**	6/15/2007 11:11:28		
AC			**StringerR**	6/17/2007 12:41:02		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.26

STL RICHLAND

6/8/2007 11:50:37 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 06/15/2007 W05164

Sep1 DT/Tm Tech:

Batch: 7129596 WATER ug/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	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JV9VP-1-AE J7E040145-1-SAMP 05/02/2007 12:12		26.60g,in AmtRec: 20ML,500ML,4XLP,4LP	#Containers: 7			Scr:	Alpha: -6.83E-04 uCi/Sa	Beta: -3.89E-04 uCi/Sa
2 JV94A-1-AD J7E040172-1-SAMP 05/02/2007 09:59		24.90g,in AmtRec: 20ML,2X500ML,4LP	#Containers: 4			Scr:	Alpha: 1.01E-06 uCi/Sa	Beta: -7.71E-07 uCi/Sa
3 JV94A-1-AE-X J7E040172-1-DUP 05/02/2007 09:59		26.40g,in AmtRec: 20ML,2X500ML,4LP	#Containers: 4			Scr:	Alpha: 1.01E-06 uCi/Sa	Beta: -7.71E-07 uCi/Sa
4 JV949-1-AD J7E040172-3-SAMP 05/02/2007 11:42		25.40g,in AmtRec: 20ML,500ML,3XLP,4LP	#Containers: 6			Scr:	Alpha: -5.37E-04 uCi/Sa	Beta: 4.67E-04 uCi/Sa
5 JV949-1-AE-S J7E040172-3-MS 05/02/2007 11:42		25.80g,in AmtRec: 20ML,500ML,3XLP,4LP	UNSF3761 05/29/07,pd 01/23/07,r #Containers: 6			Scr:	Alpha: -5.37E-04 uCi/Sa	Beta: 4.67E-04 uCi/Sa
6 JV95K-1-AD J7E040172-4-SAMP 05/02/2007 12:46		25.80g,in AmtRec: 20ML,2X500ML,4LP	#Containers: 4			Scr:	Alpha: 4.15E-06 uCi/Sa	Beta: -5.54E-07 uCi/Sa
7 JV95N-1-AD J7E040172-5-SAMP 05/02/2007 08:59		25.60g,in AmtRec: 20ML,2X500ML,4LP	#Containers: 4			Scr:	Alpha: 3.21E-06 uCi/Sa	Beta: -4.47E-07 uCi/Sa

STL RICHLAND

6/8/2007 11:50:43 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733

Pipet #: ____

AnalyDueDate: 06/15/2007

Sep1 DT/Tm Tech:

Batch: 7129596 WATER ug/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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 **JV95R-1-AD** J7E040172-6-SAMP 05/02/2007 08:59		25.90g,in	AmtRec: 20ML,2X500ML,4LP	#Containers: 4		Scr:	Alpha: 1.64E-06 uCi/Sa	Beta: 8.53E-07 uCi/Sa
9 **JWAV4-1-AD** J7E040272-1-SAMP 05/02/2007 09:51		25.80g,in	AmtRec: 20ML,500ML,3XLP,4LP	#Containers: 6		Scr:	Alpha: 5.53E-03 uCi/Sa 2.4E-01L	Beta: -1.65E-03 uCi/Sa
10 **JWAWD-1-AE** J7E040272-2-SAMP 05/02/2007 10:45		25.10g,in	AmtRec: 20ML,500ML,4XLP,4LP	#Containers: 7		Scr:	Alpha: 9.70E-04 uCi/Sa	Beta: -3.91E-04 uCi/Sa
11 **JWA36-1-AE** J7E040295-1-SAMP 05/03/2007 12:50		24.40g,in	AmtRec: 20ML,2X500L,LP,2X4LP	#Containers: 6		Scr:	Alpha: 1.80E-03 uCi/Sa	Beta: -2.68E-05 uCi/Sa
12 **JWL2N-1-AA-B** J7E090000-596-BLK 05/02/2007 09:59		25.70g,in	AmtRec:	#Containers: 1		Scr:	Alpha:	Beta:
13 **JWL2N-1-AC-C** J7E090000-596-LCS 05/02/2007 09:59		25.60g,in	AmtRec:	UNSF3762 05/29/07,pd 01/23/07,r #Containers: 1		Scr:	Alpha:	Beta:
14 **JWL2N-1-AD-C** J7E090000-596-LCS 05/02/2007 09:59		25.10g,in	AmtRec:	UNSC1701 05/17/07,pd 04/28/06,r #Containers: 1		Scr:	Alpha:	Beta:

6/8/2007 11:50:48 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 06/15/2007

Sep1 DT/Tm Tech:

Batch: 7129596 ug/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	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

Comments: PH<2.0 936-8-07
- sample #14 LCS - vial was dropped and broke while I was putting the lid on it. Sample lost. 6/15/07 APA

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

JV9VP1AE-SAMP Constituent List:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
JV9491AE-MS:

JWL2N1AA-BLK:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
JWL2N1AC-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20
JWL2N1AD-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20

JV9VP1AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JV9491AE-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWL2N1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWL2N1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWL2N1AD-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

6/18/2007 1:30:15 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/18/2006, 6/23/2007, Batch: '7129596', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7129596						
AC		**Cnt1C**	**BockJ**	6/8/2007 11:50:42		
SC			wagarr	IsBatched	5/9/2007 4:41:37 PM	ICOC_RADCALC v4.8.26
SC			BockJ	Prep1C	6/8/2007 11:50:42 AM	RICH-RC-5015 REVISION 4
SC			AshworthA	InPrep2	6/13/2007 5:32:03 PM	RICH-RC-5015 REVISION 4
SC			AshworthA	Prep2C	6/15/2007 1:49:30 PM	RICH-RC-5015 REVISION 6
SC			NelsonT	Cnt1C	6/15/2007 2:37:59 PM	RICH-RC-5058 REV 7
AC			**AshworthA**	6/13/2007 5:32:03 PM		
AC			**AshworthA**	6/15/2007 1:49:30 PM		
AC			**NelsonT**	6/15/2007 2:37:59 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 4

ICOCFractions v4.8.26

5/23/2007 7:05:02 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 06/15/2007 W05164

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
IZ COLIFORM BY METHOD 9223
5I CLIENT: HANFORD

Batch: 7129597 WATER
SEQ Batch, Test: None

PM, Quote: SA , 57671

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

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JV25C-1-AA J7E010304-1-SAMP 05/01/2007 13:13		AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: -4.45E-05 uCi/Sa	Beta: 1.17E-04 uCi/Sa
2 JV25G-1-AA J7E010304-2-SAMP 05/01/2007 11:32		AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: -6.02E-05 uCi/Sa	Beta: 1.76E-04 uCi/Sa
3 JV25J-1-AA J7E010304-3-SAMP 05/01/2007 10:51		AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: -3.88E-05 uCi/Sa	Beta: 7.89E-05 uCi/Sa
4 JV25K-1-AA J7E010304-4-SAMP 05/01/2007 09:33		AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: 4.53E-05 uCi/Sa	Beta: 1.43E-05 uCi/Sa
5 JV25M-1-AA J7E010304-5-SAMP 05/01/2007 11:20		AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: -1.10E-04 uCi/Sa	Beta: 2.67E-04 uCi/Sa 1.7E-01L
6 JV25M-1-AC-X J7E010304-5-DUP 05/01/2007 11:20		AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: -1.10E-04 uCi/Sa	Beta: 2.67E-04 uCi/Sa 1.7E-01L
7 JV25Q-1-AA J7E010304-6-SAMP 05/01/2007 10:15		AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: -2.45E-05 uCi/Sa	Beta: 1.12E-04 uCi/Sa

STL RICHLAND

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5/23/2007 7:05:04 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
IZ COLIFORM BY METHOD 9223
5I CLIENT: HANFORD

AnalyDueDate: 06/15/2007

Batch: 7129597 WATER
SEQ Batch, Test: None

PM, Quote: SA , 57671

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

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JV250-1-AA J7E010304-7-SAMP 05/01/2007 09:28		AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: -1.29E-04 uCi/Sa	Beta: 1.81E-04 uCi/Sa
9 JV253-1-AA J7E010304-8-SAMP 05/01/2007 12:24		AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: -1.82E-04 uCi/Sa	Beta: 1.81E-04 uCi/Sa
10 JWL2R-1-AA-B J7E090000-597-BLK 05/01/2007 13:13		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
11 JWL2R-1-AC-C J7E090000-597-LCS 05/01/2007 13:13		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

JV25C1AA-SAMP Constituent List:

JWL2R1AA-BLK:

JWL2R1AC-LCS:

JV25C1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Sample Preparation/Analysis

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
IZ COLIFORM BY METHOD 9223
5I CLIENT: HANFORD

AnalyDueDate: 06/15/2007

Batch: 7129597
SEQ Batch, Test: None

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

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

JWL2R1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWL2R1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

STL RICHLAND