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: 35669

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05163	S07-004	B1MPX4	J7D300161-1	JVX5T1AA	9JVX5T10	7129582
		B1MPX4	J7D300161-1	JVX5T1AC	9JVX5T10	7129584
		B1MPX4	J7D300161-1	JVX5T1AD	9JVX5T10	7129592
		B1MPX4	J7D300161-1	JVX5T1AE	9JVX5T10	7129589
		B1MPX4	J7D300161-1	JVX5T2AF	9JVX5T20	7165215
		B1MPM7	J7D300161-2	JVX581AA	9JVX5810	7129593
		B1MPW4	J7D300161-3	JVX6F1AA	9JVX6F10	7129582
		B1MPW4	J7D300161-3	JVX6F1AC	9JVX6F10	7129584
		B1MPW4	J7D300161-3	JVX6F1AD	9JVX6F10	7129589
		B1MPW4	J7D300161-3	JVX6F1AF	9JVX6F10	7129585
		B1MPW4	J7D300161-3	JVX6F2AE	9JVX6F20	7165215
		B1MPW5	J7D300161-4	JVX6R1AA	9JVX6R10	7129582
		B1MPW5	J7D300161-4	JVX6R1AC	9JVX6R10	7129584
		B1MPW5	J7D300161-4	JVX6R1AD	9JVX6R10	7129589
		B1MPW5	J7D300161-4	JVX6R1AF	9JVX6R10	7129585

Comments:

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SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05163	S07-004	B1MPW5	J7D300161-4	JVX6R2AE	9JVX6R20	7165215
		B1MPV3	J7D300164-1	JVX721AA	9JVX7210	7129592
		B1MPV3	J7D300164-1	JVX722AC	9JVX7220	7165215
		B1MPT1	J7D300164-2	JVX761AA	9JVX7610	7129592
		B1MPV2	J7D300164-3	JVX8D1AA	9JVX8D10	7129592
		B1MPV2	J7D300164-3	JVX8D2AC	9JVX8D20	7165215
		B1MPY5	J7D300166-1	JVX8V1AA	9JVX8V10	7129592
		B1MPY5	J7D300166-1	JVX8V2AC	9JVX8V20	7165215
		B1MPY6	J7D300166-2	JVX801AA	9JVX8010	7129592
		B1MPY6	J7D300166-2	JVX802AC	9JVX8020	7165215
	I07-036	B1N749	J7D300167-1	JVX9C1AA	9JVX9C10	7129591
		B1N749	J7D300167-1	JVX9C1AC	9JVX9C10	7129582
		B1N749	J7D300167-1	JVX9C1AD	9JVX9C10	7129584
		B1N749	J7D300167-1	JVX9C1AE	9JVX9C10	7129592
		B1N749	J7D300167-1	JVX9C2AF	9JVX9C20	7165215
		B1N753	J7D300167-2	JVX9E1AA	9JVX9E10	7129591
		B1N753	J7D300167-2	JVX9E1AC	9JVX9E10	7129582
		B1N753	J7D300167-2	JVX9E1AD	9JVX9E10	7129584
		B1N753	J7D300167-2	JVX9E1AE	9JVX9E10	7129592
		B1N753	J7D300167-2	JVX9E2AF	9JVX9E20	7165215
		B1MMX7	J7D300171-1	JV0DK1AA	9JV0DK10	7129592
		B1MMX7	J7D300171-1	JV0DK1AC	9JV0DK10	7129589
		B1MMX8	J7D300171-2	JV0DL1AA	9JV0DL10	7129592
		B1MMX8	J7D300171-2	JV0DL1AC	9JV0DL10	7129589
	S07-004	B1MRF3	J7D300236-1	JV0551AA	9JV05510	7129591
		B1MRF3	J7D300236-1	JV0551AC	9JV05510	7129582

Comments:

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SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05163	S07-004	B1MRF3	J7D300236-1	JV0551AD	9JV05510	7129584
		B1MRF3	J7D300236-1	JV0551AE	9JV05510	7129587
		B1MRK9	J7D300236-2	JV0561AA	9JV05610	7129591
		B1MRK9	J7D300236-2	JV0561AC	9JV05610	7129582
		B1MRK9	J7D300236-2	JV0561AD	9JV05610	7129584
		B1MRK9	J7D300236-2	JV0561AE	9JV05610	7129587
		B1MRH8	J7D300236-3	JV0571AA	9JV05710	7129591
		B1MRH8	J7D300236-3	JV0571AC	9JV05710	7129582
		B1MRH8	J7D300236-3	JV0571AE	9JV05710	7129587
		B1MRH8	J7D300236-3	JV0572AD	9JV05720	7129584
	S07-003	B1MF45	J7D300237-1	JV0581AA	9JV05810	7129586
		B1MF45	J7D300237-1	JV0581AC	9JV05810	7129587
		B1MF45	J7D300237-1	JV0581AE	9JV05810	7129585
		B1MF45	J7D300237-1	JV0582AD	9JV05820	7165215
	S07-004	B1MR22	J7E030379-1	JV8XN1AA	9JV8XN10	7129586
		B1MR22	J7E030379-1	JV8XN1AC	9JV8XN10	7129587
		B1MR22	J7E030379-1	JV8XN1AD	9JV8XN10	7129580
		B1MR22	J7E030379-1	JV8XN1AE	9JV8XN10	7129589
		B1MR22	J7E030379-1	JV8XN2AF	9JV8XN20	7165215
	S07-003	B1MF23	J7E030383-1	JV8X31AA	9JV8X310	7129586
		B1MF23	J7E030383-1	JV8X31AC	9JV8X310	7129587
		B1MF23	J7E030383-1	JV8X32AD	9JV8X320	7165215
	S07-005	B1N3X7	J7E030385-1	JV8X81AA	9JV8X810	7129587
		B1N3X7	J7E030385-1	JV8X81AD	9JV8X810	7129585
		B1N3X7	J7E030385-1	JV8X82AC	9JV8X820	7165215

Comments:

SEVERN TRENT STL

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Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

June 21, 2007

Attention: Steve Trent

SAF Number	:	S07-004, I07-036, S07-003, S07-005
SDG Closed	:	May 2, 2007
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05163
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between May 27, 2007 and May 2, 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
B1MPX4	JVX5T	4/27/07	WATER
B1MPM7	JVX58	4/27/07	WATER
B1MPW4	JVX6F	4/27/07	WATER
B1MPW5	JVX6R	4/27/07	WATER
B1MPV3	JVX72	4/27/07	WATER
B1MPT1	JVX76	4/27/07	WATER
B1MPV2	JVX8D	4/27/07	WATER
B1MPY5	JVX8V	4/27/07	WATER
B1MPY6	JVX80	4/27/07	WATER
B1N749	JVC9C	4/27/07	WATER
B1N753	JVX9E	4/27/07	WATER
B1MMX7	JV0DK	4/27/07	WATER
B1MMX8	JV0DL	4/27/07	WATER

B1MRF3	JV055	4/30/07	WATER
B1MRJ9	JV056	4/30/07	WATER
B1MRH8	JV057	4/30/07	WATER
B1MF45	JV058	4/30/07	WATER
B1MR22	JV8XN	5/01/07	WATER
B1MF23	JV8X3	5/01/07	WATER
B1N3X7	JV8X8	5/02/07	WATER

II. Sample Receipt

The samples were received in good condition. Two1000 ml G/P bottles were received instead of the normal 3 1000 ml G/P bottles for sample B1MMX8 method SRISO_SEP_PRECIP_GPC: Sr-90 (1)

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
Enriched Tritium by method RICH-RC-5024
Technetium-99 by TEVA method RICH-RC-5065
Tritium by method RICH-RC-5007
Carbon-14 by method RICH-RC-5022
Laser Induced Phosphorimetry
Total Uranium by method RICH-RC-5058

IV. Quality Control

The analytical results for each analysis performed includes a minimum of one laboratory control sample (LCS), one method (reagent) blank, and one duplicate sample analysis. Any exceptions have been noted in the "Comments" section.

QC and sample results are reported in the same units.

V. Comments

Alpha Spectroscopy

Plutonium-238, -239/240 by method RICH-RC-5010

The LCS, batch blank, samples and sample duplicate (B1MR22) results are within contractual requirements.

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:

Sample B1N749 was analyzed with reduced volume based on a elevated screen result. Except as noted t he LCS, batch blank, samples and sample duplicate (B1MRK9) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:

Reduced volumes were analyzed based on an elevated screen results for samples B1MRF3, B1MPW4, B1MPW5 and B1N749. Sample B1N749 did not meet the CRDL but the sample result exceeded the achieved MDA. The sample (B1MRH8) and it's duplicate (B1MRH8 DUP) were out of limits on the first count. A recount brought them within limits. Except as noted, the LCS, batch blank, samples and sample duplicate (B1MRH8) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006

The LCS, batch blank, samples and sample duplicate (B1MR22) results are within contractual requirements.

Gamma Spectroscopy

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

The LCS, batch blank, samples and sample duplicate (B1MF23) results are within contractual requirements.

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

The LCS, batch blank, samples and sample duplicate (B1MF23) results are within contractual requirements.

Liquid Scintillation Counting

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

Several of the samples were outside of acceptable limits due to a high TSIE. The samples were subjected to further mixing, and recounted. The TSIE of the recounted samples was below 500. Except as noted, the LCS, batch blank, samples, sample duplicate (B1MPY5), and sample matrix spike (B1MPY6) results are within contractual requirements.

Tritium by method RICH-RC-5007:

The LCS, batch blank, samples and sample duplicate (B1MRF3) results are within contractual requirements.

Pacific Northwest National Laboratories
June 21, 2007

Enriched Tritium by method RICH-RC-5024
The LCS, batch blank, samples and sample duplicate (B1MPM7) results are within contractual requirements.

Carbon-14 by method RICH-RC-5022:
The LCS, batch blank, samples and sample duplicate (B1MMX7) results are within contractual requirements.

Total Uranium
Total Uranium by method RICH-RC-5058:
The LCS, batch blank, samples, sample duplicate (B1N3X7), and sample matrix spike (B1MF45) results are within contractual requirements.

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

Reviewed and approved:

Sandra Seger
Sherryl A. Adam
for 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.

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35669 File Name: h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.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:
9JV05510	B1MRF3		MW6-SBB-A1	S07-004	W05163					04/30/2007 12:31

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129591	H-3	10028-17-8	2.04E+04	pCi/L	4.7E+02	9.2E+02		2.94E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/05/2007 09:28	I
7129582	ALPHA	12587-46-1	2.13E+00	pCi/L	1.3E+00	1.4E+00		1.51E+00	100.0	9310_ALPHABETA	2.01E-01	L	06/09/2007 13:56	I
7129584	BETA	12587-47-2	9.05E+00	pCi/L	2.0E+00	2.3E+00		3.09E+00	100.0	9310_ALPHABETA	1.698E-01	L	06/08/2007 20:13	I
7129587	I-129L	15046-84-1	1.41E+00	pCi/L	4.5E-01	4.5E-01	U	6.52E-01	76.8	I129LL_SEP_LEPS	3.9821E+00	L	06/14/2007 17:36	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:
9JV05610	B1MRK9		MW6-SBB-A1	S07-004	W05163					04/30/2007 11:16

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129591	H-3	10028-17-8	2.93E+03	pCi/L	2.1E+02	2.6E+02		2.94E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/05/2007 12:11	I
7129582	ALPHA	12587-46-1	1.22E+00	pCi/L	9.6E-01	1.0E+00	U	1.27E+00	100.0	9310_ALPHABETA	2.015E-01	L	06/09/2007 13:56	I
7129584	BETA	12587-47-2	5.68E+00	pCi/L	1.6E+00	1.7E+00		2.58E+00	100.0	9310_ALPHABETA	2.006E-01	L	06/08/2007 20:13	I
7129587	I-129L	15046-84-1	8.68E-01	pCi/L	3.5E-01	3.5E-01	U	5.81E-01	77.0	I129LL_SEP_LEPS	3.9178E+00	L	06/14/2007 17:39	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JV05710	B1MRH8		MW6-SBB-A1	S07-004	W05163					04/30/2007 10:13

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129591	H-3	10028-17-8	3.78E+03	pCi/L	2.3E+02	2.9E+02		2.95E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/05/2007 13:33	I
7129582	ALPHA	12587-46-1	1.36E+00	pCi/L	9.3E-01	9.8E-01		9.64E-01	100.0	9310_ALPHABETA	2.015E-01	L	06/09/2007 13:56	I
7129587	I-129L	15046-84-1	1.99E+00	pCi/L	4.0E-01	4.0E-01	U	7.09E-01	94.9	I129LL_SEP_LEPS	3.9324E+00	L	06/14/2007 17:39	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JV05720	B1MRH8		MW6-SBB-A1	S07-004	W05163					04/30/2007 10:13

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129584	BETA	12587-47-2	5.53E+00	pCi/L	1.3E+00	1.5E+00		2.11E+00	100.0	9310_ALPHABETA	2.018E-01	L	06/11/2007 15:35	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JV05810	B1MF45		MW6-SBB-A1	S07-003	W05163					04/30/2007 11:12

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129586	BE-7	13966-02-4	4.44E+00	pCi/L	3.1E+01	3.1E+01	U	5.66E+01		GAMMALL_GS	2.0028E+00	L	06/13/2007 17:32	I
7129586	CO-60	10198-40-0	6.93E+00	pCi/L	3.8E+00	3.8E+00	U	8.51E+00		GAMMALL_GS	2.0028E+00	L	06/13/2007 17:32	I

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

7129586	CS-134	13967-70-9	1.83E+00	pCi/L	2.8E+00	2.8E+00	U	5.65E+00		GAMMALL_GS	2.0028E+00	L	06/13/2007	17:32	I
7129586	CS-137	10045-97-3	-1.57E+00	pCi/L	2.4E+00	2.4E+00	U	4.10E+00		GAMMALL_GS	2.0028E+00	L	06/13/2007	17:32	I
7129586	EU-152	14683-23-9	1.11E+00	pCi/L	5.9E+00	5.9E+00	U	1.09E+01		GAMMALL_GS	2.0028E+00	L	06/13/2007	17:32	I
7129586	EU-154	15585-10-1	-5.57E+00	pCi/L	8.7E+00	8.7E+00	U	1.47E+01		GAMMALL_GS	2.0028E+00	L	06/13/2007	17:32	I
7129586	EU-155	14391-16-3	-8.70E-01	pCi/L	4.1E+00	4.1E+00	U	7.24E+00		GAMMALL_GS	2.0028E+00	L	06/13/2007	17:32	I
7129586	K-40	13966-00-2	-5.87E-01	pCi/L	5.0E+01	5.0E+01	U	1.13E+02		GAMMALL_GS	2.0028E+00	L	06/13/2007	17:32	I
7129586	RU-106	13967-48-1	9.43E+00	pCi/L	2.4E+01	2.4E+01	U	4.59E+01		GAMMALL_GS	2.0028E+00	L	06/13/2007	17:32	I
7129586	SB-125	14234-35-6	-3.35E+00	pCi/L	6.1E+00	6.1E+00	U	1.03E+01		GAMMALL_GS	2.0028E+00	L	06/13/2007	17:32	I
7129587	I-129L	15046-84-1	-2.12E-01	pCi/L	1.4E-01	1.4E-01	U	1.89E-01	100.8	I129LL_SEP_LEPS	3.8993E+00	L	06/14/2007	19:22	I
7129585	Uranium	7440-61-1	4.90E+00	ug/L	5.0E-01	5.0E-01		8.15E-02		UTOT_KPA	2.57E-02	ML	06/11/2007	11:00	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JV05820	B1MF45		MW6-SBB-A1	S07-003	W05163					04/30/2007 11:12

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165215	TC-99	14133-76-7	1.62E+03	pCi/L	2.2E+01	1.0E+02		1.02E+01	100.0	TC99_ETVDSK_LS	1.256E-01	L	06/15/2007 06:31	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JV0DK10	B1MMX7		MW6-SBB-A1	I07-036	W05163					04/27/2007 12:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129592	C-14	14762-75-5	7.73E+02	pCi/L	1.4E+01	9.3E+01		8.28E+00	100.0	C14_LSC	2.00E-01	L	06/12/2007 00:28	I
7129589	SR-90	10098-97-2	1.59E+00	pCi/L	3.5E-01	4.2E-01		5.48E-01	77.0	SRISO_SEP_PRE	1.0084E+00	L	06/10/2007 09:07	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JV0DL10	B1MMX8		MW6-SBB-A1	I07-036	W05163					04/27/2007 12:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129592	C-14	14762-75-5	6.66E+02	pCi/L	1.3E+01	8.1E+01		8.28E+00	100.0	C14_LSC	2.00E-01	L	06/12/2007 02:35	I
7129589	SR-90	10098-97-2	1.43E+00	pCi/L	3.7E-01	4.3E-01		6.45E-01	71.5	SRISO_SEP_PRE	1.009E+00	L	06/10/2007 09:08	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:
9JV8X310	B1MF23		MW6-SBB-A1	S07-003	W05163					05/01/2007 14:01

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129586	BE-7	13966-02-4	2.99E+01	pCi/L	2.5E+01	2.5E+01	U	5.32E+01		GAMMALL_GS	1.9762E+00	L	06/13/2007 17:36	I
7129586	CO-60	10198-40-0	-6.53E-01	pCi/L	2.3E+00	2.3E+00	U	4.28E+00		GAMMALL_GS	1.9762E+00	L	06/13/2007 17:36	I
7129586	CS-134	13967-70-9	7.81E-01	pCi/L	2.1E+00	2.1E+00	U	4.20E+00		GAMMALL_GS	1.9762E+00	L	06/13/2007 17:36	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.

7129586	CS-137	10045-97-3	3.74E-01	pCi/L	2.2E+00	2.2E+00	U	4.18E+00		GAMMALL_GS	1.9762E+00	L	06/13/2007	17:36	I
7129586	EU-152	14683-23-9	-2.79E-01	pCi/L	4.9E+00	4.9E+00	U	8.85E+00		GAMMALL_GS	1.9762E+00	L	06/13/2007	17:36	I
7129586	EU-154	15585-10-1	2.54E-01	pCi/L	4.5E+00	4.5E+00	U	9.58E+00		GAMMALL_GS	1.9762E+00	L	06/13/2007	17:36	I
7129586	EU-155	14391-16-3	1.60E+00	pCi/L	4.1E+00	4.1E+00	U	7.46E+00		GAMMALL_GS	1.9762E+00	L	06/13/2007	17:36	I
7129586	K-40	13966-00-2	3.80E+01	pCi/L	3.5E+01	3.5E+01	U	8.18E+01		GAMMALL_GS	1.9762E+00	L	06/13/2007	17:36	I
7129586	RU-106	13967-48-1	-1.12E+01	pCi/L	2.0E+01	2.0E+01	U	3.34E+01		GAMMALL_GS	1.9762E+00	L	06/13/2007	17:36	I
7129586	SB-125	14234-35-6	-2.62E+00	pCi/L	5.1E+00	5.1E+00	U	8.74E+00		GAMMALL_GS	1.9762E+00	L	06/13/2007	17:36	I
7129587	I-129L	15046-84-1	7.59E-02	pCi/L	1.3E-01	1.3E-01	U	2.60E-01	95.4	I129LL_SEP_LEPS	3.9202E+00	L	06/14/2007	19:25	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JV8X320	B1MF23		MW6-SBB-A1	S07-003	W05163					05/01/2007 14:01

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165215	TC-99	14133-76-7	1.76E+02	pCi/L	8.2E+00	1.6E+01		1.01E+01	100.0	TC99_ETVDSK_LS	1.253E-01	L	06/15/2007 08:36	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:
9JV8X810	B1N3X7		MW6-SBB-A1	S07-005	W05163					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
7129587	I-129L	15046-84-1	2.71E+00	pCi/L	5.1E-01	5.1E-01		3.01E-01	94.6	I129LL_SEP_LEPS	3.9486E+00	L	06/14/2007 21:10	I
7129585	Uranium	7440-61-1	1.80E+02	ug/L	2.1E+01	2.1E+01		7.68E-02		UTOT_KPA	2.73E-02	ML	06/11/2007 11:03	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JV8X820	B1N3X7		MW6-SBB-A1	S07-005	W05163					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
7165215	TC-99	14133-76-7	9.95E+03	pCi/L	5.4E+01	6.0E+02		1.01E+01	100.0	TC99_ETVDSK_LS	1.251E-01	L	06/15/2007 09:39	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JV8XN10	B1MR22		MW6-SBB-A1	S07-004	W05163					05/01/2007 11:05

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129586	BE-7	13966-02-4	-4.00E+00	pCi/L	2.6E+01	2.6E+01	U	4.75E+01		GAMMALL_GS	1.9999E+00	L	06/13/2007 17:35	I
7129586	CO-60	10198-40-0	1.12E+00	pCi/L	2.9E+00	2.9E+00	U	5.93E+00		GAMMALL_GS	1.9999E+00	L	06/13/2007 17:35	I
7129586	CS-134	13967-70-9	2.20E-01	pCi/L	2.5E+00	2.5E+00	U	4.79E+00		GAMMALL_GS	1.9999E+00	L	06/13/2007 17:35	I
7129586	CS-137	10045-97-3	1.25E+00	pCi/L	2.4E+00	2.4E+00	U	4.79E+00		GAMMALL_GS	1.9999E+00	L	06/13/2007 17:35	I
7129586	EU-152	14683-23-9	-2.20E+00	pCi/L	5.3E+00	5.3E+00	U	9.25E+00		GAMMALL_GS	1.9999E+00	L	06/13/2007 17:35	I
7129586	EU-154	15585-10-1	2.16E+00	pCi/L	7.0E+00	7.0E+00	U	1.42E+01		GAMMALL_GS	1.9999E+00	L	06/13/2007 17:35	I

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

7129586	EU-155	14391-16-3	-2.28E+00	pCi/L	3.9E+00	3.9E+00	U	6.51E+00		GAMMALL_GS	1.9999E+00	L	06/13/2007	17:35	I
7129586	K-40	13966-00-2	-2.45E+01	pCi/L	5.0E+01	5.0E+01	U	1.09E+02		GAMMALL_GS	1.9999E+00	L	06/13/2007	17:35	I
7129586	RU-106	13967-48-1	-2.07E-01	pCi/L	2.3E+01	2.3E+01	U	4.14E+01		GAMMALL_GS	1.9999E+00	L	06/13/2007	17:35	I
7129586	SB-125	14234-35-6	4.93E+00	pCi/L	5.4E+00	5.4E+00	U	1.10E+01		GAMMALL_GS	1.9999E+00	L	06/13/2007	17:35	I
7129587	I-129L	15046-84-1	-3.02E-02	pCi/L	1.5E-01	1.5E-01	U	2.73E-01	81.1	I129LL_SEP_LEPS	3.9232E+00	L	06/14/2007	19:25	I
7129580	PU-238	13981-16-3	-9.86E-03	pCi/L	6.2E-02	6.2E-02	U	1.65E-01	97.4	PUISO_PLATE_AE	1.997E-01	L	06/08/2007	21:21	I
7129580	PU-239	PU-239/240	-9.86E-03	pCi/L	6.2E-02	6.2E-02	U	1.64E-01	97.4	PUISO_PLATE_AE	1.997E-01	L	06/08/2007	21:21	I
7129589	SR-90	10098-97-2	1.69E-01	pCi/L	3.5E-01	3.7E-01	U	7.78E-01	58.4	SRISO_SEP_PRE	9.817E-01	L	06/10/2007	09:08	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:
9JV8XN20	B1MR22		MW6-SBB-A1	S07-004	W05163					05/01/2007 11:05

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165215	TC-99	14133-76-7	7.63E+01	pCi/L	6.3E+00	1.0E+01		1.01E+01	100.0	TC99_ETVDSK_LS	1.253E-01	L	06/15/2007 07:33	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:
9JVX5810	B1MPM7		MW6-SBB-A1	S07-004	W05163					04/27/2007 08:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129593	H-3	10028-17-8	5.01E+01	pCi/L	4.6E+00	8.6E+00		6.24E+00	100.0	TRITIUM_ELECT_L	1.50E-01	L	06/10/2007 00:15	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:
9JVX5T10	B1MPX4		MW6-SBB-A1	S07-004	W05163					04/27/2007 10:22

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129582	ALPHA	12587-46-1	1.05E+00	pCi/L	9.1E-01	9.4E-01	U	1.30E+00	100.0	9310_ALPHABETA	1.989E-01	L	06/09/2007 12:52	I
7129584	BETA	12587-47-2	6.25E+00	pCi/L	1.7E+00	1.9E+00		2.85E+00	100.0	9310_ALPHABETA	2.007E-01	L	06/08/2007 20:13	I
7129592	C-14	14762-75-5	1.81E+03	pCi/L	2.2E+01	2.1E+02		8.28E+00	100.0	C14_LSC	2.00E-01	L	06/11/2007 18:48	I
7129589	SR-90	10098-97-2	1.26E-01	pCi/L	2.6E-01	2.7E-01	U	5.66E-01	69.2	SRISO_SEP_PRE	1.0097E+00	L	06/10/2007 09:07	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JVX5T20	B1MPX4		MW6-SBB-A1	S07-004	W05163					04/27/2007 10:22

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165215	TC-99	14133-76-7	2.50E+00	pCi/L	4.2E+00	5.8E+00	U	1.00E+01	100.0	TC99_ETVDSK_LS	1.249E-01	L	06/14/2007 17:59	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:
9JVX6F10	B1MPW4		MW6-SBB-A1	S07-004	W05163					04/27/2007 11:26

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.

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35669 File Name: h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129582	ALPHA	12587-46-1	1.16E+00	pCi/L	9.8E-01	1.0E+00	U	1.38E+00	100.0	9310_ALPHABETA	1.993E-01	L	06/09/2007 12:52	I
7129584	BETA	12587-47-2	8.52E+00	pCi/L	2.1E+00	2.3E+00		3.27E+00	100.0	9310_ALPHABETA	1.695E-01	L	06/08/2007 20:13	I
7129589	SR-90	10098-97-2	1.02E+00	pCi/L	2.9E-01	3.3E-01		4.97E-01	84.1	SRISO_SEP_PRE	1.0096E+00	L	06/10/2007 09:07	I
7129585	Uranium	7440-61-1	4.09E+00	ug/L	4.2E-01	4.2E-01		8.38E-02		UTOT_KPA	2.50E-02	ML	06/11/2007 10:56	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JVX6F20	B1MPW4		MW6-SBB-A1	S07-004	W05163					04/27/2007 11:26

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165215	TC-99	14133-76-7	7.05E-01	pCi/L	4.1E+00	5.7E+00	U	9.98E+00	100.0	TC99_ETVDSK_LS	1.261E-01	L	06/14/2007 19:01	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:
9JVX6R10	B1MPW5		MW6-SBB-A1	S07-004	W05163					04/27/2007 11:26

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129582	ALPHA	12587-46-1	3.69E+00	pCi/L	1.6E+00	1.8E+00		1.52E+00	100.0	9310_ALPHABETA	1.987E-01	L	06/09/2007 12:52	I
7129584	BETA	12587-47-2	7.42E+00	pCi/L	1.9E+00	2.1E+00		3.09E+00	100.0	9310_ALPHABETA	1.829E-01	L	06/08/2007 20:13	I
7129589	SR-90	10098-97-2	8.73E-01	pCi/L	3.0E-01	3.2E-01		5.31E-01	79.3	SRISO_SEP_PRE	1.007E+00	L	06/10/2007 09:07	I
7129585	Uranium	7440-61-1	4.03E+00	ug/L	4.1E-01	4.1E-01		8.03E-02		UTOT_KPA	2.61E-02	ML	06/11/2007 10:58	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:
9JVX6R20	B1MPW5		MW6-SBB-A1	S07-004	W05163					04/27/2007 11:26

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165215	TC-99	14133-76-7	7.44E+00	pCi/L	4.4E+00	6.1E+00	U	9.95E+00	100.0	TC99_ETVDSK_LS	1.253E-01	L	06/14/2007 20:04	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:
9JVX7210	B1MPV3		MW6-SBB-A1	S07-004	W05163					04/27/2007 08:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129592	C-14	14762-75-5	-1.66E-01	pCi/L	3.4E+00	6.9E+00	U	8.28E+00	100.0	C14_LSC	2.00E-01	L	06/11/2007 19:30	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:
9JVX7220	B1MPV3		MW6-SBB-A1	S07-004	W05163					04/27/2007 08:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165215	TC-99	14133-76-7	-1.97E+00	pCi/L	4.0E+00	5.5E+00	U	9.94E+00	100.0	TC99_ETVDSK_LS	1.259E-01	L	06/14/2007 21:07	I

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

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35669 File Name: h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.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:
9JVX7610	B1MPT1		MW6-SBB-A1	S07-004	W05163					04/27/2007 10:47

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129592	C-14	14762-75-5	1.60E+03	pCi/L	2.0E+01	1.9E+02		8.28E+00	100.0	C14_LSC	2.00E-01	L	06/11/2007 20:13	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:
9JVX8010	B1MPY6		MW6-SBB-A1	S07-004	W05163					04/27/2007 07:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129592	C-14	14762-75-5	4.66E-01	pCi/L	3.4E+00	6.9E+00	U	8.27E+00	100.0	C14_LSC	2.00E-01	L	06/11/2007 22:21	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:
9JVX8020	B1MPY6		MW6-SBB-A1	S07-004	W05163					04/27/2007 07:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165215	TC-99	14133-76-7	3.95E+00	pCi/L	4.2E+00	5.8E+00	U	9.87E+00	100.0	TC99_ETVDSK_LS	1.27E-01	L	06/15/2007 01:17	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:
9JVX8D10	B1MPV2		MW6-SBB-A1	S07-004	W05163					04/27/2007 12:01

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129592	C-14	14762-75-5	1.86E+02	pCi/L	7.7E+00	2.7E+01		8.29E+00	100.0	C14_LSC	2.00E-01	L	06/11/2007 20:55	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:
9JVX8D20	B1MPV2		MW6-SBB-A1	S07-004	W05163					04/27/2007 12:01

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165215	TC-99	14133-76-7	2.27E+00	pCi/L	4.2E+00	5.8E+00	U	9.90E+00	100.0	TC99_ETVDSK_LS	1.26E-01	L	06/14/2007 22:10	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:
9JVX8V10	B1MPY5		MW6-SBB-A1	S07-004	W05163					04/27/2007 09:57

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129592	C-14	14762-75-5	2.62E+02	pCi/L	8.8E+00	3.6E+01		8.28E+00	100.0	C14_LSC	2.00E-01	L	06/11/2007 21:38	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:
9JVX8V20	B1MPY5		MW6-SBB-A1	S07-004	W05163					04/27/2007 09:57

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165215	TC-99	14133-76-7	3.61E+00	pCi/L	4.2E+00	5.8E+00	U	9.90E+00	100.0	TC99_ETVDSK_LS	1.257E-01	L	06/14/2007 23:12	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.

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35669 File Name: h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.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:
9JVX9C10	B1N749		MW6-SBB-A1	I07-036	W05163					04/27/2007 09:20

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129591	H-3	10028-17-8	4.50E+03	pCi/L	2.5E+02	3.2E+02		2.96E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/05/2007 06:44	I
7129582	ALPHA	12587-46-1	3.68E+00	pCi/L	1.8E+00	2.0E+00		1.41E+00	100.0	9310_ALPHABETA	1.804E-01	L	06/09/2007 12:52	I
7129584	BETA	12587-47-2	1.00E+01	pCi/L	2.6E+00	2.9E+00		4.10E+00	100.0	9310_ALPHABETA	1.34E-01	L	06/08/2007 20:13	I
7129592	C-14	14762-75-5	6.94E+01	pCi/L	5.4E+00	1.4E+01		8.28E+00	100.0	C14_LSC	2.00E-01	L	06/11/2007 23:03	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JVX9C20	B1N749		MW6-SBB-A1	I07-036	W05163					04/27/2007 09:20

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165215	TC-99	14133-76-7	6.61E-01	pCi/L	4.2E+00	5.7E+00	U	1.00E+01	100.0	TC99_ETVDSK_LS	1.25E-01	L	06/15/2007 03:23	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:
9JVX9E10	B1N753		MW6-SBB-A1	I07-036	W05163					04/27/2007 08:25

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129591	H-3	10028-17-8	3.77E+02	pCi/L	1.4E+02	1.5E+02		2.94E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/05/2007 08:06	I
7129582	ALPHA	12587-46-1	3.16E-01	pCi/L	6.2E-01	6.2E-01	U	1.37E+00	100.0	9310_ALPHABETA	1.988E-01	L	06/09/2007 12:52	I
7129584	BETA	12587-47-2	3.73E+00	pCi/L	1.5E+00	1.6E+00		2.70E+00	100.0	9310_ALPHABETA	1.997E-01	L	06/08/2007 20:13	I
7129592	C-14	14762-75-5	2.27E+02	pCi/L	8.3E+00	3.2E+01		8.29E+00	100.0	C14_LSC	2.00E-01	L	06/11/2007 23:46	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JVX9E20	B1N753		MW6-SBB-A1	I07-036	W05163					04/27/2007 08:25

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165215	TC-99	14133-76-7	-1.33E+00	pCi/L	4.1E+00	5.6E+00	U	1.01E+01	100.0	TC99_ETVDSK_LS	1.254E-01	L	06/15/2007 04:25	I

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

Thursday, June 21, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JWL001AB **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 05/02/2007 10:56

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								BV	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129585	Uranium	0.00E+00	ug/L	0.0E+00	U	8.06E-02			UTOT_KPA	2.60E-02	06/11/2007				D
BLK	7440-61-1			0.0E+00						ML	10:23				

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.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JWL011AB **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 05/01/2007 14:01
Client Id: NA **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** BLK **Received Date:** 05/01/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129586	BE-7	-6.99E+00	pCi/L	1.7E+01	U	2.89E+01			GAMMALL_GS	1.9921E+00	06/13/2007				D
BLK	13966-02-4			1.7E+01						L	17:37				
7129586	CO-60	1.67E-01	pCi/L	1.9E+00	U	3.62E+00			GAMMALL_GS	1.9921E+00	06/13/2007				D
BLK	10198-40-0			1.9E+00						L	17:37				
7129586	CS-134	-1.51E-01	pCi/L	1.6E+00	U	2.96E+00			GAMMALL_GS	1.9921E+00	06/13/2007				D
BLK	13967-70-9			1.6E+00						L	17:37				
7129586	CS-137	3.83E-01	pCi/L	1.6E+00	U	3.02E+00			GAMMALL_GS	1.9921E+00	06/13/2007				D
BLK	10045-97-3			1.6E+00						L	17:37				
7129586	EU-152	9.08E-01	pCi/L	3.8E+00	U	6.94E+00			GAMMALL_GS	1.9921E+00	06/13/2007				D
BLK	14683-23-9			3.8E+00						L	17:37				
7129586	EU-154	-1.97E+00	pCi/L	5.6E+00	U	1.01E+01			GAMMALL_GS	1.9921E+00	06/13/2007				D
BLK	15585-10-1			5.6E+00						L	17:37				
7129586	EU-155	-1.96E+00	pCi/L	3.2E+00	U	5.40E+00			GAMMALL_GS	1.9921E+00	06/13/2007				D
BLK	14391-16-3			3.2E+00						L	17:37				
7129586	K-40	-2.41E+01	pCi/L	3.1E+01	U	6.51E+01			GAMMALL_GS	1.9921E+00	06/13/2007				D
BLK	13966-00-2			3.1E+01						L	17:37				
7129586	RU-106	9.65E+00	pCi/L	1.5E+01	U	3.00E+01			GAMMALL_GS	1.9921E+00	06/13/2007				D
BLK	13967-48-1			1.5E+01						L	17:37				
7129586	SB-125	1.99E+00	pCi/L	3.6E+00	U	7.08E+00			GAMMALL_GS	1.9921E+00	06/13/2007				D
BLK	14234-35-6			3.6E+00						L	17:37				

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

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JWL031AB **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 05/01/2007 14:01

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 05/01/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129587	I-129L	4.01E-02	pCi/L	1.1E-01	U	2.21E-01	91.4		I129LL_SEP_L	3.9957E+00	06/14/2007				D
BLK	15046-84-1			1.1E-01						L	21:11				

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.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JWL061AB **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 05/01/2007 11:05

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 05/01/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129589	SR-90	-2.25E-01	pCi/L	4.6E-01	U	1.05E+00	42.6		SRISO_SEP_P	9.982E-01	06/10/2007				D
BLK	10098-97-2			4.2E-01						L	09:08				

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

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JWL091AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05163 35669
Matrix: WATER WATER
QC Type: BLK

Collection Date: 04/30/2007 12:31
Sample On Date:
Received Date: 04/30/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129591	H-3	9.27E+01	pCi/L	1.4E+02	U	2.95E+02	100.0		906.0_H3_LSC	5.00E-03	06/05/2007				D
BLK	10028-17-8			1.3E+02						L	01:17				

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

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JWL091DX **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 04/30/2007 12:31

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 04/30/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129591	H-3	1.79E+02	pCi/L	1.4E+02	U	2.93E+02	100.0		906.0_H3_LSC	5.00E-03	06/05/2007				D
BLK	10028-17-8			1.3E+02						L	04:01				

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.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JWL0R1AB **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 05/01/2007 11:05

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 05/01/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129580	PU-238	-8.35E-03	pCi/L	7.0E-02	U	1.73E-01	94.5		PUISO_PLATE	2.009E-01	06/08/2007				D
BLK	13981-16-3			7.0E-02						L	21:21				
7129580	PU-239	2.64E-02	pCi/L	7.0E-02	U	1.73E-01	94.5		PUISO_PLATE	2.009E-01	06/08/2007				D
BLK	PU-239/240			7.0E-02						L	21:21				

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.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JWL0T2AB **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 04/27/2007 09:57

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 04/27/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7165215	TC-99	-2.69E+00	pCi/L	5.4E+00	U	9.97E+00	100.0		TC99_ETVDSK	1.266E-01	06/15/2007				D
BLK	14133-76-7			4.0E+00						L	10:41				

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.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JWL0V1AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05163 35669
Matrix: WATER WATER
QC Type: BLK

Collection Date: 04/30/2007 11:16
Sample On Date:
Received Date: 04/30/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129582	ALPHA	-9.12E-02	pCi/L	2.2E-01	U	9.25E-01	100.0		9310_ALPHAB	1.997E-01	06/09/2007				D
BLK	12587-46-1			2.2E-01						L	13:56				

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.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JWL0X1AB **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 04/30/2007 10:13

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 04/30/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129584	BETA	4.08E-01	pCi/L	1.2E+00	U	2.55E+00	100.0		9310_ALPHAB	1.986E-01	06/08/2007				D
BLK	12587-47-2			1.2E+00						L	20:13				

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.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JWL1C1AB **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 04/27/2007 12:30

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 04/27/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CQ	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
7129592	C-14	-1.63E+00	pCi/L	6.7E+00	U	8.28E+00	100.0		C14_LSC	2.00E-01	06/11/2007				D
BLK	14762-75-5			3.4E+00						L	17:23				

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.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JWL1N1AB **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 04/27/2007 08:30

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 04/27/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CS	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
7129593	H-3	4.19E+00	pCi/L	5.7E+00	U	6.26E+00	100.0		TRITIUM_ELE	1.50E-01	06/09/2007				D
BLK	10028-17-8			3.7E+00						L	14:08				

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

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JWL001CS **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 05/02/2007 10:56

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								BW	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129585	Uranium	3.53E+01	ug/L	4.2E+00		8.25E-02		3.55E+01	UTOT_KPA	2.54E-02	06/11/2007			70	D
BS	7440-61-1			4.2E+00				99.3		ML	10:53			130	

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

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JWL001DS **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 05/02/2007 10:56

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								BX	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129585	Uranium	3.40E+00	ug/L	3.5E-01		8.22E-02		3.58E+00	UTOT_KPA	2.55E-02	06/11/2007			70	D
BS	7440-61-1			3.5E-01				94.9		ML	10:54			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.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JWL011CS **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 05/01/2007 14:01

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 05/01/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129586	CO-60	3.40E+01	pCi/L	7.8E+00		2.91E+00		3.71E+01	GAMMALL_GS	1.9984E+00	06/13/2007			70	D
BS	10198-40-0			7.8E+00				91.7		L	17:38			130	
7129586	CS-137	2.73E+01	pCi/L	6.3E+00		3.58E+00		2.48E+01	GAMMALL_GS	1.9984E+00	06/13/2007			70	D
BS	10045-97-3			6.3E+00				110.1		L	17:38			130	
7129586	EU-152	7.95E+01	pCi/L	1.6E+01		9.02E+00		7.60E+01	GAMMALL_GS	1.9984E+00	06/13/2007			70	D
BS	14683-23-9			1.6E+01				104.6		L	17:38			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.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JWL031CS **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 05/01/2007 14:01

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 05/01/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129587	I-129L	8.70E+00	pCi/L	1.1E+00		3.46E-01	93.3	9.50E+00	I129LL_SEP_L	3.9881E+00	06/14/2007			70	D
BS	15046-84-1			1.1E+00				91.6		L	22:56			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.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JWL061CS **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 05/01/2007 11:05

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 05/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CD	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
7129589	SR-90	1.69E+01	pCi/L	2.7E+00		1.03E+00	39.6	1.39E+01	SRISO_SEP_P	9.934E-01	06/10/2007			70	D
BS	10098-97-2			1.2E+00				121.7		L	11:14			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.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JWL091CS **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 04/30/2007 12:31

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 04/30/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129591	H-3	2.45E+03	pCi/L	2.4E+02		2.95E+02	100.0	2.72E+03	906.0_H3_LSC	5.00E-03	06/05/2007			70	D
BS	10028-17-8			2.0E+02				90.0		L	02:39			130	

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

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JWL091EM **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 04/30/2007 12:31

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 04/30/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129591	H-3	2.44E+03	pCi/L	2.4E+02		2.93E+02	100.0	2.72E+03	906.0_H3_LSC	5.00E-03	06/05/2007			70	D
BS	10028-17-8			2.0E+02				89.8		L	05:23			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.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JWL0R1CS **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 05/01/2007 11:05

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 05/01/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129580	PU-239	4.33E+00	pCi/L	1.0E+00		2.45E-01	85.6	4.66E+00	PUISO_PLATE	2.001E-01	06/08/2007			70	D
BS	PU-239/240			7.8E-01				92.9		L	21:22			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.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JWL0T2CS **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 04/27/2007 09:57

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 04/27/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7165215	TC-99	5.27E+02	pCi/L	3.7E+01		1.00E+01	100.0	5.40E+02	TC99_ETVDSK	1.26E-01	06/15/2007			70	D
BS	14133-76-7			1.3E+01				97.6		L	11:44			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.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JWL0V1CS **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 04/30/2007 11:16

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 04/30/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129582	ALPHA	2.17E+01	pCi/L	5.8E+00		8.35E-01	100.0	2.29E+01	9310_ALPHAB	1.98E-01	06/10/2007			70	D
BS	12587-46-1			3.1E+00				94.6		L	11:56			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.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JWL0X1CS **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 04/30/2007 10:13

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 04/30/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129584	BETA	2.39E+01	pCi/L	4.3E+00		2.71E+00	100.0	2.26E+01	9310_ALPHAB	2.003E-01	06/08/2007			70	D
BS	12587-47-2			2.5E+00				105.6		L	20:13			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.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JWL1C1CS **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 04/27/2007 12:30

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 04/27/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CR	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
7129592	C-14	4.15E+01	pCi/L	1.1E+01		8.28E+00	100.0	4.57E+01	C14_LSC	2.00E-01	06/11/2007			70	D
BS	14762-75-5			4.7E+00				90.7		L	18:05			130	

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

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JWL1N1CS **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 04/27/2007 08:30

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 04/27/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CT	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
7129593	H-3	4.31E+02	pCi/L	4.0E+01		6.25E+00	100.0	4.55E+02	TRITIUM_ELE	1.5001E-01	06/09/2007			70	D
BS	10028-17-8			9.1E+00				94.7		L	19:12			130	

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

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JV0551FR **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 04/30/2007 12:31

Client Id: B1MRF3 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 04/30/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-004	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
7129591	H-3	2.06E+04	pCi/L	9.3E+02		2.94E+02	100.0		906.0_H3_LSC	5.00E-03	06/05/2007	.8	0.2		D
DUP	10028-17-8	2.04E+04		4.8E+02						L	10:50	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.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JV0561FR **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 04/30/2007 11:16

Client Id: B1MRK9 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 04/30/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-004	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
7129582	ALPHA	1.37E+00	pCi/L	1.1E+00	U	1.38E+00	100.0		9310_ALPHAB	2.007E-01	06/09/2007	11.6	0.2		D
DUP	12587-46-1	1.22E+00		1.0E+00						L	13:56	20.0	3		

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

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JV0572FR **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 04/30/2007 10:13

Client Id: B1MRH8 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 04/30/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-004	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
7129584	BETA	4.60E+00	pCi/L	1.3E+00		1.94E+00	100.0		9310_ALPHAB	2.01E-01	06/11/2007	18.4	1.		D
DUP	12587-47-2	5.53E+00		1.2E+00						L	15:35	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.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id:	JV0DK1DR	**Sdg/Rept Nbr:**	W05163 35669	**Collection Date:**	04/27/2007 12:30
Client Id:	B1MMX7	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	04/27/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I07-036	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
7129592	C-14	7.81E+02	pCi/L	9.4E+01		8.28E+00	100.0		C14_LSC	2.00E-01	06/12/2007	1.0	0.1		D
DUP	14762-75-5	7.73E+02		1.4E+01						L	01:53	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.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JV8X31ER **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 05/01/2007 14:01

Client Id: B1MF23 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 05/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-003	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
7129586	BE-7	-8.09E+00	pCi/L	2.4E+01	U	4.17E+01			GAMMALL_GS	1.9004E+00	06/13/2007	348.7	2.3		D
DUP	13966-02-4	2.99E+01		2.4E+01						L	17:36	20.0	3		
7129586	CO-60	-5.83E-01	pCi/L	1.7E+00	U	3.10E+00			GAMMALL_GS	1.9004E+00	06/13/2007	0.0	0.1		D
DUP	10198-40-0	-6.53E-01		1.7E+00						L	17:36	20.0	3		
7129586	CS-134	-1.53E-01	pCi/L	1.9E+00	U	3.47E+00			GAMMALL_GS	1.9004E+00	06/13/2007	297.2	0.7		D
DUP	13967-70-9	7.81E-01		1.9E+00						L	17:36	20.0	3		
7129586	CS-137	1.22E+00	pCi/L	1.8E+00	U	3.52E+00			GAMMALL_GS	1.9004E+00	06/13/2007	106.2	0.7		D
DUP	10045-97-3	3.74E-01		1.8E+00						L	17:36	20.0	3		
7129586	EU-152	-4.32E-01	pCi/L	5.0E+00	U	8.81E+00			GAMMALL_GS	1.9004E+00	06/13/2007	0.0	0.		D
DUP	14683-23-9	-2.79E-01		5.0E+00						L	17:36	20.0	3		
7129586	EU-154	1.39E-01	pCi/L	4.7E+00	U	9.29E+00			GAMMALL_GS	1.9004E+00	06/13/2007	58.4	0.		D
DUP	15585-10-1	2.54E-01		4.7E+00						L	17:36	20.0	3		
7129586	EU-155	2.09E+00	pCi/L	4.2E+00	U	7.80E+00			GAMMALL_GS	1.9004E+00	06/13/2007	26.7	0.2		D
DUP	14391-16-3	1.60E+00		4.2E+00						L	17:36	20.0	3		
7129586	K-40	-1.79E+01	pCi/L	2.8E+01	U	5.60E+01			GAMMALL_GS	1.9004E+00	06/13/2007	556.4	2.8		D
DUP	13966-00-2	3.80E+01		2.8E+01						L	17:36	20.0	3		
7129586	RU-106	-1.23E+00	pCi/L	2.0E+01	U	3.60E+01			GAMMALL_GS	1.9004E+00	06/13/2007	0.0	0.7		D
DUP	13967-48-1	-1.12E+01		2.0E+01						L	17:36	20.0	3		
7129586	SB-125	-2.28E+00	pCi/L	4.8E+00	U	8.26E+00			GAMMALL_GS	1.9004E+00	06/13/2007	0.0	0.1		D
DUP	14234-35-6	-2.62E+00		4.8E+00						L	17:36	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.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JV8X31FR **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 05/01/2007 14:01
Client Id: B1MF23 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **Received Date:** 05/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-003	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
7129587	I-129L	-1.19E-02	pCi/L	1.3E-01	U	2.32E-01	95.4		I129LL_SEP_L	3.904E+00	06/14/2007	274.5	1.		D
DUP	15046-84-1	7.59E-02		1.3E-01						L	21:07	20.0	3		

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

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id:	JV8X81ER	**Sdg/Rept Nbr:**	W05163	35669	**Collection Date:** 05/02/2007 10:56
Client Id:	B1N3X7	**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								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
7129585	Uranium	1.79E+02	ug/L	2.1E+01		7.85E-02			UTOT_KPA	2.67E-02	06/11/2007	.6	0.1		D
DUP	7440-61-1	1.80E+02		2.1E+01						ML	11:08	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.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JV8XN1GR **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 05/01/2007 11:05

Client Id: B1MR22 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 05/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-004	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
7129580	PU-238	0.00E+00	pCi/L	9.5E-02	U	1.90E-01	68.3		PUISO_PLATE	1.998E-01	06/08/2007	0.0	0.1		D
DUP	13981-16-3	-9.86E-03		9.5E-02						L	21:21	20.0	3		
7129580	PU-239	-7.54E-03	pCi/L	9.5E-02	U	2.15E-01	68.3		PUISO_PLATE	1.998E-01	06/08/2007	0.0	0.		D
DUP	PU-239/240	-9.86E-03		9.5E-02						L	21:21	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.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JV8XN1HR **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 05/01/2007 11:05

Client Id: B1MR22 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 05/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-004	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
7129589	SR-90	1.26E-01	pCi/L	3.6E-01	U	7.71E-01	56.4		SRISO_SEP_P	9.728E-01	06/10/2007	29.4	0.2		D
DUP	10098-97-2	1.69E-01		3.3E-01						L	09:08	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.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JVX581CR **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 04/27/2007 08:30

Client Id: B1MPM7 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 04/27/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-004	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
7129593	H-3	5.57E+01	pCi/L	9.0E+00		6.30E+00	100.0		TRITIUM_ELE	1.5001E-01	06/10/2007	10.6	0.9		D
DUP	10028-17-8	5.01E+01		4.7E+00						L	05:18	20.0	3		

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

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JVX8V2DR **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 04/27/2007 09:57
Client Id: B1MPY5 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **Received Date:** 04/27/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-004	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
7165215	TC-99	4.49E+00	pCi/L	5.9E+00	U	9.99E+00	100.0		TC99_ETVDSK	1.257E-01	06/15/2007	21.5	0.2		D
DUP	14133-76-7	3.61E+00		4.3E+00						L	00:15	20.0	3		

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

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JV0581FW **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 04/30/2007 11:12
Client Id: B1MF45 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** MS **Received Date:** 04/30/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-003	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
7129585	Uranium	3.45E+01	ug/L	4.7E+00		8.28E-02		3.58E+01	UTOT_KPA	2.53E-02	06/11/2007			60	D
MS	7440-61-1			4.7E+00				96.4		ML	11:02			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.

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05163.Edd, h:\Reportdb\edd\FeadIV\Rad\35669.Edd

Lab Sample Id: JVX802DW **Sdg/Rept Nbr:** W05163 35669 **Collection Date:** 04/27/2007 07:00

Client Id: B1MPY6 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** MS **Received Date:** 04/27/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-004	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
7165215	TC-99	3.31E+03	pCi/L	2.0E+02		9.92E+00	100.0	3.58E+03	TC99_ETVDSK	1.256E-01	06/15/2007			60	D
MS	14133-76-7			3.1E+01				92.6		L	02:20			140	

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/13/2007 1:25:49 PM

Lot No., Due Date: J7E030379; 06/15/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7129580; RPUISO Pulso by ALP

SDG, Matrix: W05163; J7E030379

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

6.0 Comments on any No response:

First Level Review John Norton **Date** 6-13-7

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7129580
W05163

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: 6-14-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/11/2007 10:57:12 AM

Lot No., Due Date: J7D300236,J7D300161,J7D300167; 06/15/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7129582; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05163; 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 => JVX9C1AC 180.40<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 => JVX6R1AA ALPHA 3.7E+00 L:1.5E+00 JVX9C1AC ALPHA 3.7E+00 L:1.4E+00 JV0551AC ALPHA 2.1E+00 L:1.5E+00 JV0571AC ALPHA 1.4E+00 L:9.6E-01		✓	
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!	Yes	No	N/A ✓
8.26 Instruments have Current Calibrations.	Yes	No	N/A
8.27 Correct Count Library Used. No Count Library found in Batch Data!	Yes	No	N/A ✓
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. OK	Yes ✓	No	N/A

First Level Review Lisa Anderson **Date** 6/11/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 712958L
W05163

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: 6-11-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/12/2007 4:53:20 PM

Lot No., Due Date: J7D300236,J7D300161,J7D300167; 06/15/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7129584; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05163; 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:

10-10097

First Level Review _____ **Date** _____

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7129584
W05163

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 R Adam Date: 6-14-07

Clouseau
Nonconformance Memo

STL

NCM #: 10-10097
NCM Initiated By: Lisa Antonson
Date Opened: 06/12/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Beta by GPC-Sr/Y
Lot #'s (Sample #'s): J7D300161 (1,3,4), J7D300167 (1,2), J7D300236 (1,2,3), J7E090000 (584),
QC Batches: 7129584,

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

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	06/12/2007	In this beta batch, the dups were out of limits. A recount brought them within limits. Sample JVX9C1AD didn't meet CRDL but had a result that exceeded the MDA achieved.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	06/12/2007	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

6/11/2007 12:31:09 PM

Lot No., Due Date: J7D300171,J7E030379,J7D300161; 06/15/2007

Client, Site: 384868;

QC Batch No., Method Test: 7129589; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: ,,W05163; WATER,J7E030379

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 Antonson **Date** 6/11/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7129589
W05143

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: 6-11-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/14/2007 1:41:40 PM

Lot No., Due Date: J7D300237,J7E030383,J7E030379; 06/15/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7129586; RGAMMA Gamma by GER

SDG, Matrix: W05163; WATER,J7E030379

1.0 COC

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

2.0 QC Batch

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

3.0 QC & Samples

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

4.0 Raw Data

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

5.0 Other

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

6.0 Comments on any No response:

First Level Review Lisa Quitanar **Date** 6/14/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7129586
W05143

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: 6-14-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/15/2007 2:15:43 PM

Lot No., Due Date: J7D300236,J7D300237,J7E030383,J7E030385,J7E030379; 06/15/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7129587; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05163; WATER,J7E030379

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** 6/15/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7129587
W05143

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 R Adam Date: 6-18-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/15/2007 3:01:45 PM

Lot No., Due Date: J7D300237,J7E030383,J7E030385,J7E030379,J7D300161,J7D300164,J7D300166,J7D300167;

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7165215; RTC99 Tc-99 by LSC

SDG, Matrix: W05163; WATER,J7E030379

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

6.0 Comments on any No response:
Please see NCM#10-10125

First Level Review John Morton **Date** 6-15-7

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7165215
W05163

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

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

Clouseau
Nonconformance Memo

STL

NCM #: **10-10125**
NCM Initiated By: John Norton
Date Opened: 06/15/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Nona
Tests: Tc-99 by LSC
Lot #'s (Sample #'s): J7D300161 (1,3,4), J7D300164 (1,3), J7D300166 (1,2), J7D300167 (1,2), J7D300237 (1), J7E030379 (1), J7E030383 (1), J7E030385 (1), J7E090000 (581),
QC Batches: 7129581,

Nonconformance: LCS result out of limits
Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
John Norton	06/15/2007	Tc-99 in water. Several of the samples were outside of acceptable limits due to a high TSIE.
John Norton	06/15/2007	The samples were originally analyzed as batch #7129581

Corrective Action

Name	Date	Corrective Action
John Norton	06/15/2007	The samples were subjected to further mixing, and re-counted, the TSIE produced is now below 500.
John Norton	06/15/2007	The samples were re-analyzed as batch #7165215

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

6/6/2007 5:10:11 PM

Lot No., Due Date: J7D300236,J7D300167; 06/15/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7129591; RTRITIUM H-3 by LSC

SDG, Matrix: W05163; 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 => JVX9C1AA 5.00<10.00 JVX9E1AA 5.00<10.00 JV0551AA 5.00<10.00 JV0561AA 5.00<10.00 JV0571AA 5.00<10.00 Q:VB ok AL 6/6/07		✓	
8.07 The Correct Count Geometry was Used. Count Geometry => JWL091AF SVP15/5<>SVP10/10 JWL091AG SVP15/5<>SVP10/10 JWL091AA SVP15/5<>SVP10/10 JWL091AC SVP15/5<>SVP10/10 JWL091AD SVP15/5<>SVP10/10 JWL091AE SVP15/5<>SVP10/10 JVX9C1AA SVP15/5<>SVP10/10 JVX9E1AA SVP15/5<>SVP10/10 JV0551AA SVP15/5<>SVP10/10 JV0551AF SVP15/5<>SVP10/10 JV0561AA SVP15/5<>SVP10/10 JV0571AA SVP15/5<>SVP10/10 Q:VC ok AL 6/6/07		✓	
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. OK	✓		
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. OK	✓		
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
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!	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 OK; No Callin Level Found => H-3	Yes ✓	No	N/A
8.24 Result + 3s >=0, Not Too Negative. OK	Yes ✓	No	N/A
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!	Yes	No	N/A ✓
8.26 Instruments have Current Calibrations.	Yes	No	N/A
8.27 Correct Count Library Used. No Count Library found in Batch Data!	Yes	No	N/A ✓
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. OK	Yes ✓	No	N/A

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

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7129591
W05163

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 R Adam Date: 6-7-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/11/2007 3:46:10 PM

Lot No., Due Date: J7D300161; 06/15/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7129593; RH3EE H3EE by LSC

SDG, Matrix: W05163; 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 Torry **Date** 6/11/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: MR9593
W05163

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: 6-12-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/14/2007 1:46:54 PM

Lot No., Due Date: J7D300171,J7D300161,J7D300164,J7D300166,J7D300167; 06/15/2007

Client, Site: 384868;

QC Batch No., Method Test: 7129592; RC14 C-14 by LSC

SDG, Matrix: ,,W05163; 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. 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 => C-14 OK; No Callin Level Found => C-14	✓		
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 Angela Long **Date** 6/14/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 712959L
W05163

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: Kerryl R Adkins Date: 6-18-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/13/2007 12:35:40 PM

Lot No., Due Date: J7D300237,J7E030385,J7D300161; 06/15/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7129585; RUNAT UNat by KPA

SDG, Matrix: W05163; WATER

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 6-13-7

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7129585
W051E3

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: 6-14-07

PNNL J7D300161
W05163
Due 06-11-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-004-42**

Page 1 of 1

Collector Fluor Hanford F. M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, APRIL 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 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
B1MPX4		W	4/27/7	1022	1x20-mL P	Activity Scan	None
B1MPX4		W			2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1MPX4		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1MPX4		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1MPX4		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						JVX5T	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F. M. HALL		APR 27 2007	1500	Eric Darby		APR 27 2007	1500
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 J7D300161
W05163
Due 06.11.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-004-2

Collector Fluor Hanford F. M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV. APRIL 2007	HNF-M-506-6	**Ice Chest No.** 538 **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 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
B1MPM7		W	4/27/7	0830	1x20-mL P	Activity Scan	None
B1MPM7		W	↓	↓	3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None
						JVX58	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F. M. HALL		APR 27 2007	1500	Erik Dooley		APR 27 2007	1500
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 J7D300161
W05163
Due 06-11-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-004-34**

Page 1 of 1

Collector Fluor Hanford F. M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, APRIL 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 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 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
B1MPW4		W	4/27/7	1126	1x20-mL P	Activity Scan	None
B1MPW4		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1MPW4		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1MPW4		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1MPW4		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						JVX6F	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F. M. HALL		APR 27 2007	1500	Eric Darby		APR 27 2007	1500
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 J7D300161
WO 5163
Due 6-11-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-004-35**

Page 1 of 1

Collector Fluor Hanford F. M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, APRIL 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 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 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
B1MPW5		W	4/27/7	1126	1x20-mL P	Activity Scan	None
B1MPW5		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1MPW5		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1MPW5		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1MPW5		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1) JVX6R	HNO3 to pH <2

Relinquished By Fluor Hanford F. M. HALL Print Sign Date/Time 1500 4-27-07	Received By Print Sign Date/Time 1500 4-27-06 Eric Daly Eric Daly	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 = Wine, 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

Sample Check-in List

Date/Time Received: 4/27/07

Client: PGW SDG #: W05163 NA [ ] SAF # 507-004

Work Order Number: J7D300161 Chain of Custody # 507-004-42, 2, 34, 35

Shipping Container ID: [illegible]

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 [✓] [illegible]
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: [signature] Date: 4/27/07 1500

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

PNNL J7D300164
W05763
Due 06-11-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-004-21**

Page 1 of 1

Collector Fluor Hanford ~~K.B. HULSE~~	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, APRIL 2007	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 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 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
B1MPV3		W	4-27-07	0800	1x20-mL P	Activity Scan	None
B1MPV3		W	↓	↓	2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1MPV3		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JVX72	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford K.B. HULSE			APR 27 2007 1500		Fe. Donley		APR 27 2007 1500
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 J7D302164
W05763
Due 06-11-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-004-11**

Page 1 of 1

Collector Fluor Hanford K. B. HULSE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, APRIL 2007	HWF-N-506 B	**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 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 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
B1MPT1		W	4/27/07	1047	1x20-mL P	Activity Scan	None
B1MPT1		W	↓	↓	2x1000-mL G/P	C14_LSC: C-14 (1)	None
						JVX76	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford K. B. HULSE			APR 27 2007 1500	ERIC Darby			APR 27 2007 1500
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 J7D300164
W05163
Due 06-11-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-004-20**

Page 1 of 1

Collector ~~Fluor Hanford~~ K. B. HULSE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, APRIL 2007	HNF-N-506 8	**Ice Chest No.** SWL 137 **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 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
B1MPV2		W	4-27-07	1201	1x20-mL P	Activity Scan	None
B1MPV2		W	↓	↓	2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1MPV2		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JVX8D	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
~~Fluor Hanford~~ K. B. HULSE			APR 27 2007 1500	Erie Denby			APR 27 2007 1500
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

Sample Check-in List

Date/Time Received: 4/27/07 1500

Client: PGW SDG # W05763 NA [ ] SAF # 507-004 NA

Work Order Number: J7D300164 Chain of Custody # 507-004-21,11,20

Shipping Container ID: Air Bill #:

1 Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]

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

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

4 Cooler temperature _____ NA [✓] 5 Vermiculite/packing materials is NA [✓] Yes [ ] No [ ]

6 Number of samples in shipping container 3

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: Eu Darby Date: 4/27/07 1500

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

PNNL J7D300164
W05163
Due 06-11-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-004-60

Collector Fluor Hanford R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV. APRIL 2007	HNF-N-506-7	**Ice Chest No.** SML595 **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 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
B1MPY5		W	4-27-07	0957	1x20-mL P	Activity Scan	None
B1MPY5		W	↓	↓	2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1MPY5		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JVX8V	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			APR 27 2007 1500	Eric Dorsey		Eric Dorsey	APR 27 2007 1500
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

PNNL J7D300166
W05163
Due 06-11-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-004-61**

Page 1 of 1

Collector Fluor Hanford R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, APRIL 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 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 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
B1MPY6		W	4-27-07	0700	1x20-mL P	Activity Scan	None
B1MPY6		W	↓	↓	2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1MPY6		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JVX80	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			APR 27 2007 1500	Eric Dardy			APR 27 2007 1500
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

Sample Check-in List

Date/Time Received: 4/27/07 1500

Client: PGW SDG #: W05163 NA [ ] SAF # 307-004 NA

Work Order Number: J7D300164 Chain of Custody # 307004-60,61

Shipping Container ID: or B.O.L. #

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 Vermiculite/packing materials is NA [✓] Yes [ ] No [ ]

6 Number of samples in shipping container 2

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: Ev Darby Date: 4/27/07 1500

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

PNNL J7D300167
W05763
Due 06-11-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I07-036-75**

Page 1 of 1

Collector Fluor Hanford R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I07-036	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100KR4IAM(1/2)-LOI, APRIL 2007	HNF-N-506-7	**Ice Chest No.** SNL595 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol CERCLA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

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
B1N749		W	4-27-07	0920	1x20-mL P	Activity Scan	None
B1N749		W			2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1N749		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1N749		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1N749		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JVX9C	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			APR 27 2007 1500	Eric Darley		Eric Darley	APR 27 2007 1500
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 J7D300167
W05763
Due 06-11-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I07-036-78**

Page 1 of 1

Collector Fluor Hanford R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I07-036	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100KR4IAM(1/2)-LOI, APRIL 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 CERCLA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

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
B1N753		W	4-27-07	0825	1x20-mL P	Activity Scan	None
B1N753		W	↓	↓	2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1N753		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1N753		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1N753		W	✓	✓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JVX9E	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			APR 27 2007 1500	ERIC Dooley			APR 27 2007 1500
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

SAVERN STL

Sample Check-in List

Date/Time Received 4/27/07 1500

Client: ~~PA~~ PGW SDG #: W05763 NA [ ] SAF # I07-036 NA

Work Order Number: J7D300167 Chain of Custody # I07-036, 75, 78

Shipping Container ID _____ Air Bill # _____

1 Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]

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

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

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

5 Vermiculite/packing materials is NA [✓] Yes [ ] No [ ]

6 Number of samples in shipping container 2

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: Eu Daby Date: 4/27/07 1500

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

PNNL J7D300171
W05163
Due 6-11-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I07-036-30**

Page 1 of 1

Collector Fluor Hanford F. M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I07-036	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100KR4IAM(1/2)-LOI, APRIL 2007	HHF -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 CERCLA	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all 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
B1MMX7		W	4/27/7	1230	1x20-mL P	Activity Scan	None
B1MMX7		W	↓	↓	2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1MMX7		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						JVODK	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F. M. HALL			APR 27 2007 1500	Eric Darby			APR 27 2007 1500
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 J7D 300171
W05763
Due 06-11-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I07-036-31**

Page 1 of 1

Collector Fluor Hanford F.M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I07-036	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100KR4IAM(1/2)-LOI, APRIL 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 CERCLA	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all 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
B1MMX8		W	4/27/7	1230	1x20-mL P	Activity Scan	None
B1MMX8		W	↓		2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1MMX8		W	↓	↓	2x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						JVODL	

Relinquished By Print Fluor Hanford F.M. HALL Sign APR 27 2007 Date/Time 1500	Received By Print Eric Darby Sign APR 27 2007 Date/Time 1500	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

Seger, Sandra

From: Seger, Sandra
Sent: Tuesday, May 01, 2007 1:01 PM
To: Adam, Sherryl
Subject: RE: SRISO bottle

We only need 1L so we are good. I will blue sheet this sample so we don't run a duplicate on it.

Sandra

From: Adam, Sherryl
Sent: Tuesday, May 01, 2007 12:01 PM
To: Seger, Sandra
Subject: FW: SRISO bottle

From: Hampt, Heidi [mailto:Heidi_Hampt@RL.gov]
Sent: Tuesday, May 01, 2007 11:58 AM
To: Adam, Sherryl
Subject: SRISO bottle

Sherryl,

I just had a message from the samplers about SRISO_SEP_PRECIP_GPC sample B1MMX8 (collected 4/27/07). Apparently they only gave you 2 bottles of the 3 that are needed for the analysis. Please let me know if the analysis can still be performed with the 2 bottles.

Also, please note that I have moved over to Fluor and my new email address is Heidi_Hampt@rl.gov. Please update your address book.

Thanks,
Heidi

SEVERN TRENT STL

Sample Check-in List

Date/Time Received 4/27/07

Client: PGW SDG #: W05763 NA [ ] SAF # I07-036 NA

Work Order Number: JTD300171 Chain of Custody # I07-036-31, 30

Shipping Container ID _____ [illegible] #: _____

1 Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]

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

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

4 Cooler temperature _____ NA [✓] 5 Vermiculite/packing materials is NA [✓] [illegible]

6 Number of samples in shipping container 2

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: Ev Darby Date 4/27/07 1500

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

PNNL JTD 300236
WO 5163
Due 06 14 07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-004-190**

Page 1 of 1

Collector Fluor Hanford D. R. BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, APRIL 2007	HNR-N-506-8	**Ice Chest No.** SML-24 **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 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
B1MRF3		W	4-30-07	1231	1x20-mL P	Activity Scan	None
B1MRF3		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1MRF3		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1MRF3		W			~~2x4000-mL~~ 2.5 gallon G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						JV055	
						4-30-07	

Relinquished By Print Fluor Hanford D. R. BREWINGTON Sign D. R. Brewington	Date/Time 1445 4-30-07	Received By Print ERIC DARLY Sign Eric Darly	Date/Time 1445 4-30-07
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 JTD300236
W05763
Due 06-14-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-004-240**

Page 1 of 1

Collector Fluor Hanford D. R. BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, APRIL 2007	HWIZ-N-506-8	**Ice Chest No.** SM-24 **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 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
B1MRK9		W	4-30-07	1116	1x20-mL P	Activity Scan	None
B1MRK9		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1MRK9		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1MRK9		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						JV056	
						4-30-07	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON	D.R. Brewington		4/30/07 1445	Eric Dailey	Eric Dailey		4/30/07 1445
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 J7D300236
WO 5763
Due 06-14-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-004-208**

Page 1 of 1

Collector Fluor Hanford D. R. BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, APRIL 2007	HNF-N-506-8	**Ice Chest No.** SML-24 **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 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
B1MRH8		W	4-30-07	1013	1x20-mL P	Activity Scan	None
B1MRH8		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1MRH8		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1MRH8		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

JV057

4-30-07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON	D.R. Brewington		4-30-07 1445	E Daly	Eric Daly		4-30-07 1475
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

Sample Check-in List

Date/Time Received: 4/30/07 1445

Client: PDW

SDG #: W05763 NA [ ] SAF #: 807-004

Work Order Number: J7D300236

Chain of Custody #: S07-004-190, 208, 240

Shipping Container ID: _____ Air Bill #: _____

1 Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]

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

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

4 Cooler temperature _____ NA [ ] 5 Vermiculite/packing materials is No [ ] Yes [ ]

6 Number of samples in shipping container: 3

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: Ev Darby Date: 4/30/07 @1445

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

PNNL J7D300237
W05163
Due 06-14-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-003-285**

Page 1 of 1

Collector DURATEK K.J. YOUNG	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-003	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, MARCH 2007	HNF-N-506 6	**Ice Chest No.** SWL 595 **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 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
B1MF45		W	4-30-07	1112	1x20-mL P	Activity Scan	None
B1MF45		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1MF45		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1MF45		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1MF45		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JV058	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK K.J. YOUNG	[illegible]	[illegible]	APR 30 2007 1445	Eric Darby	Eric Darby	[illegible]	APR 30 2007 1445
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

Sample Check-in List

Date/Time Received: 4/30/07 1445

Client: PGW SDG # W05763 NA [ ] SAF # S07-003

Work Order Number J7D300237 Chain of Custody # S07-003-285

Shipping Container ID: [illegible] Air Bill # [illegible]

1 Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]

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

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

4 Cooler temperature _____ NA [✓] 5 Vermiculite/packing materials is N[illegible] Yes [✓] No [ ]

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? *
*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: [illegible] Date: 4/30/07 1445

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

PNNL J7E030379
WO 5163
Due 06-15-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-004-320

Page 1 of 1

Collector Fluor Hanford F. M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, APRIL 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 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
B1MR22		W	5/1/7	1105	1x20-mL P	Activity Scan	None
B1MR22		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1MR22		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1MR22		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1MR22		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1MR22		W			1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	HNO3 to pH <2
						JV8XN	

Relinquished By	Received By
Print: Fluor Hanford F. M. HALL Sign: MAY 01 2007 Date/Time: 1530	Print: S. Smith Sign: S. Smith MAY 01 2007 Date/Time: 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 = 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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 05-01-07 1530

Client: PGW SDG #: W05163 NA [ ] SAF #: 507-004 NA [ ]

Work Order Number: J7E030379 Chain of Custody # 507-004-320

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
   1 appropriate samples labels
9. Samples are:
   1 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 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 J7E030383
W05763
Due 06-15-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-003-245**

Page 1 of 1

Collector Fluor Hanford F.M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-003	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, MARCH 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 SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

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
B1MF23		W	5/1/7	1401	1x20-mL P	Activity Scan	None
B1MF23		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1MF23		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1MF23		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JV 8X3	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F.M. HALL			MAY 01 2007 1530		S. Smith	S. Smith	MAY 01 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

STL

Sample Check-in List

Date/Time Received: 05.01.07 1530

Client: PBW SDG #: W05163 NA [ ] SAF #: 807-003 NA [ ]

Work Order Number: J7E030383 Chain of Custody # 807-003-245

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
   1 appropriate samples labels
9. Samples are:
   1 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: S. Smith Date: 05.01.07 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 J7E030385
WO 5163
Due 06-15-07
Fluor Hanford

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-005-66**

Page 1 of 1

Collector D. R. BREWINGTON	**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	Logbook: HNF-N-506-8	**Ice Chest No.** SNL-4050 **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
B1N3X7		W	5/2/07	1056	1x20-mL P	Activity Scan	None
B1N3X7		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1N3X7		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1N3X7		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JV8X8	

R. Wells 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 415	Eric Darby	Eric Darby		MAY 0 2 2007 415
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 #: W05163 NA [ ] SAF # 507-005 NA

Work Order Number: J7E030385 Chain of Custody # 507-005-66

Shipping Container ID _____ Air Bill # _____

1 Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]

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

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

4 Cooler temperature _____ NA [✓] 5 Vermiculite/packing materials is No [✓] Yes [ ]

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? *
*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

6/4/2007 10:23:58 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 06/15/2007 W005163

Sep1 DT/Tm Tech:

Batch: 7129580 J7E030379 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 JV8XN-1-AD J7E030379-1-SAMP 05/01/2007 11:05		199.70g,in AmtRec: 20ML,500ML,4XLP,3X4LP	PUTC10678 04/10/07,pd 03/13/07,r #Containers: 9	200		Scr:	Alpha: 1.98E-03 uCi/Sa	Beta: -2.89E-03 uCi/Sa
2 JV8XN-1-AG-X J7E030379-1-DUP 05/01/2007 11:05		199.80g,in AmtRec: 20ML,500ML,4XLP,3X4LP	PUTC10679 04/10/07,pd 03/13/07,r #Containers: 9			Scr:	Alpha: 1.98E-03 uCi/Sa	Beta: -2.89E-03 uCi/Sa
3 JWL0R-1-AA-B J7E090000-580-BLK 05/01/2007 11:05		200.90g,in AmtRec:	PUTC10680 04/10/07,pd 03/13/07,r #Containers: 1			Scr:	Alpha:	Beta:
4 JWL0R-1-AC-C J7E090000-580-LCS 05/01/2007 11:05		200.10g,in AmtRec:	PUSG0924 05/24/07,pd 03/13/07,r #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

JV8XN1AD-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						

JWL0R1AA-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						

JWL0R1AC-LCS:

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

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: 7129580 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:

```
JV8XN1AD-SAMP Calc Info:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JWL0R1AA-BLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JWL0R1AC-LCS:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

6/13/2007 1:24:24 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/13/2006, 6/18/2007, Batch: '7129580', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7129580						
AC		**InCnt1**	**BockJ**	6/4/2007 10:19:36		
SC			wagarr	IsBatched	5/9/2007 4:41:37 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	6/4/2007 10:19:36 AM	RICH-RC-5016 Revision 6
SC			BockJ	Prep1C	6/4/2007 10:24:33 AM	RICH-RC-5016 REVISION 6
SC			FABREM	Sep1C	6/7/2007 6:35:58 PM	RICH-RC-5010 REVISION 4
SC			FABREM	Sep2C	6/8/2007 2:29:22 PM	RICH-RC-5010 REVISION 5
SC			DAWKINSO	InCnt1	6/8/2007 3:35:28 PM	RICH-RD-0008 REVISION 4
AC			**BockJ**	6/4/2007 10:24:33		
AC			**FABREM**	6/7/2007 6:35:58 PM		
AC			**FABREM**	6/8/2007 2:29:22 PM		
AC			**DAWKINSO**	6/8/2007 3:35:28 PM		

AC: Accepting Entry; SC: Status Change

6/5/2007 1:50:13 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733

Pipet #:

AnalyDueDate: 06/11/2007 W05163

Sep1 DT/Tm Tech:

Batch: 7129582 WATER pCi/L **PM, Quote: SA , 57671**
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

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 JVX5T-1-AA J7D300161-1-SAMP 04/27/2007 10:22		198.90g,in AmtRec: 20ML,500ML,6XLP	#Containers: 8	1.5	28.1	.50	10A	1318	6/9/07 R	Scr: Alpha: 7.51E-04 uCi/Sa Beta: 6.52E-04 uCi/Sa
2 JVX6F-1-AA J7D300161-3-SAMP 04/27/2007 11:26		199.30g,in AmtRec: 20ML,2X500ML,4XLP	#Containers: 7		32.4		10B			Scr: Alpha: 5.23E-07 uCi/Sa Beta: 5.01E-07 uCi/Sa
3 JVX6R-1-AA J7D300161-4-SAMP 04/27/2007 11:26		198.70g,in AmtRec: 20ML,2X500ML,4XLP	#Containers: 7		32.1		10c			Scr: Alpha: 4.82E-07 uCi/Sa Beta: 7.17E-07 uCi/Sa
4 JVX9C-1-AC J7D300167-1-SAMP 04/27/2007 09:20		180.40g,in AmtRec: 20ML,500ML,4XLP	#Containers: 6		41.0		10d			Scr: Alpha: 1.37E-06 uCi/Sa Beta: -5.82E-07 uCi/Sa
5 JVX9E-1-AC J7D300167-2-SAMP 04/27/2007 08:25		198.80g,in AmtRec: 20ML,500ML,4XLP	#Containers: 6		25.1		10F			Scr: Alpha: 5.36E-04 uCi/Sa Beta: 3.53E-04 uCi/Sa
6 JV055-1-AC J7D300236-1-SAMP 04/30/2007 12:31		201.00g,in AmtRec: 20ML,2XLP,2X7LP	#Containers: 5		38.7		10A	1422	6/9/07 R	Scr: Alpha: -4.27E-03 uCi/Sa Beta: 5.51E-03 uCi/Sa 1.7E-01L
7 JV056-1-AC J7D300236-2-SAMP 04/30/2007 11:16		201.50g,in AmtRec: 20ML,2XLP,2X4LP	#Containers: 5		27.7		10B			Scr: Alpha: 6.32E-04 uCi/Sa Beta: 7.21E-05 uCi/Sa

6/5/2007 1:50:16 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 06/11/2007

Sep1 DT/Tm Tech:

Batch: 7129582 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	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JV056-1-AF-X J7D300236-2-DUP 04/30/2007 11:16		200.70g,in AmtRec: 20ML,2XLP,2X4LP	#Containers: 5	1.5	26.0	50	10c Scr:	1422 Alpha: 6.32E-04 uCi/Sa	6/9/07 r Beta: 7.21E-05 uCi/Sa	
9 JV057-1-AC J7D300236-3-SAMP 04/30/2007 10:13		201.50g,in AmtRec: 20ML,2XLP,2X4LP	#Containers: 5		23.4		10d Scr:	Alpha: -2.52E-04 uCi/Sa	Beta: 1.15E-03 uCi/Sa	
10 JWL0V-1-AA-B J7E090000-582-BLK 04/30/2007 11:16		199.70g,in AmtRec:	#Containers: 1		0.3		10F Scr:	Alpha:	Beta:	
11 JWL0V-1-AC-C J7E090000-582-LCS 04/30/2007 11:16		198.00g,in AmtRec:	ASD4203 05/17/07,pd 02/09/06,r #Containers: 1		0.5		10B Scr:	1224 Alpha:	6/10/07 r Beta:	

Comments: Aliquots that are reduced are due to weight screens. pH <2.0 JB 6-5-07

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

JVX5T1AA-SAMP Constituent List:

ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
JWL0V1AA-BLK:					
ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
JWL0V1AC-LCS:					
Am-241	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

JVX5T1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 06/11/2007

Sep1 DT/Tm Tech:

Batch: 7129582 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:

JWL0V1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWL0V1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

6/11/2007 10:56:22 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/11/2006, 6/16/2007, Batch: '7129582', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7129582						
AC		**CalcC**	**BockJ**	6/5/2007 1:36:19 PM		
SC			wagarr	IsBatched	5/9/2007 4:41:37 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	6/5/2007 1:36:19 PM	RICH-RC-5016 Revision 6
SC			BockJ	Prep1C	6/5/2007 1:50:17 PM	RICH-RC-5014 REVISION 6
SC			AshworthA	InPrep2	6/7/2007 8:32:52 AM	RICH-RC-5014 REVISION 6
SC			AshworthA	Prep2C	6/8/2007 6:33:52 PM	RICH-RC-5014 REVISION 6
SC			DAWKINSO	InCnt1	6/8/2007 7:18:20 PM	RICH-RD-0003 REVISION 5
SC			StringerR	CalcC	6/10/2007 2:07:12 PM	RICH-RD-0003 REVISION 5
AC			**BockJ**	6/5/2007 1:50:17 PM		
AC			**AshworthA**	6/7/2007 8:32:52 AM		
AC			**AshworthA**	6/8/2007 6:33:52 PM		
AC			**DAWKINSO**	6/8/2007 7:18:20 PM		
AC			**StringerR**	6/10/2007 2:07:12 PM		

AC: Accepting Entry; SC: Status Change

6/5/2007 1:29:00 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

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

AnalyDueDate: 06/11/2007 W05163

Batch: 7129584 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:
1 JVX5T-1-AC J7D300161-1-SAMP 04/27/2007 10:22	200.70g,in	AmtRec: 20ML,500ML,6XLP #Containers: 8		1.5	28.3	100	26A Scr:	2102 Alpha: 7.51E-04 uCi/Sa	6/8/07 AD Beta: 6.52E-04 uCi/Sa	
2 JVX6F-1-AC J7D300161-3-SAMP 04/27/2007 11:26	169.50g,in	AmtRec: 20ML,2X500ML,4XLP #Containers: 7			74.7		26B Scr:	Alpha: 5.23E-07 uCi/Sa	Beta: 5.01E-07 uCi/Sa	
3 JVX6R-1-AC J7D300161-4-SAMP 04/27/2007 11:26	182.90g,in	AmtRec: 20ML,2X500ML,4XLP #Containers: 7			73.0		26C Scr:	Alpha: 4.82E-07 uCi/Sa	Beta: 7.17E-07 uCi/Sa	
4 JVX9C-1-AD J7D300167-1-SAMP 04/27/2007 09:20	134.00g,in	AmtRec: 20ML,500ML,4XLP #Containers: 6			71.8		26D Scr:	Alpha: 1.37E-06 uCi/Sa	Beta: -5.82E-07 uCi/Sa	
5 JVX9E-1-AD J7D300167-2-SAMP 04/27/2007 08:25	199.70g,in	AmtRec: 20ML,500ML,4XLP #Containers: 6			53.5		27A Scr:	Alpha: 5.36E-04 uCi/Sa	Beta: 3.53E-04 uCi/Sa	
6 JV055-1-AD J7D300236-1-SAMP 04/30/2007 12:31	169.80g,in	AmtRec: 20ML,2XLP,2X7LP #Containers: 5			61.5		27B Scr:	Alpha: -4.27E-03 uCi/Sa	Beta: 5.51E-03 uCi/Sa 1.7E-01L	
7 JV056-1-AD J7D300236-2-SAMP 04/30/2007 11:16	200.60g,in	AmtRec: 20ML,2XLP,2X4LP #Containers: 5			43.9		27C Scr:	Alpha: 6.32E-04 uCi/Sa	Beta: 7.21E-05 uCi/Sa	

6/5/2007 1:29:03 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 06/11/2007

Sep1 DT/Tm Tech:

Batch: 7129584 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	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JV057-1-AD J7D300236-3-SAMP 04/30/2007 10:13		201.80g,in AmtRec: 20ML,2XLP,2X4LP	#Containers: 5	1.5	50.6	100	27D Scr:	2102 Alpha: -2.52E-04 uCi/Sa	6/8/02 OD Beta: 1.15E-03 uCi/Sa	
9 JV057-1-AF-X J7D300236-3-DUP 04/30/2007 10:13		200.10g,in AmtRec: 20ML,2XLP,2X4LP	#Containers: 5		50.4		28A Scr:	Alpha: -2.52E-04 uCi/Sa	Beta: 1.15E-03 uCi/Sa	
10 JWL0X-1-AA-B J7E090000-584-BLK 04/30/2007 10:13		198.60g,in AmtRec:	#Containers: 1		0.2		28B Scr:	Alpha:	Beta:	
11 JWL0X-1-AC-C J7E090000-584-LCS 04/30/2007 10:13		200.30g,in AmtRec:	BESB3065 03/23/07,pd 08/08/06,r #Containers: 1		0.4		28D Scr:	Alpha:	Beta:	

Comments: Aliquots reduced due to weight screens with the exception of #6 JV055 - reduced due to screening results. pH <2 JB 6-5-07

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

JVX5T1AC-SAMP Constituent List:

BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
JWL0X1AA-BLK:					
BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
JWL0X1AC-LCS:					
Sr-90	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

JVX5T1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 06/11/2007

Sep1 DT/Tm Tech:

Batch: 7129584 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:

JWL0X1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWL0X1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

SEVERN TRENT STL

*** RE-COUNT REQUEST ***

DUE DATE 6-11

CUSTOMER PGW

ANALYSIS B

MATRIX WATER

LOT NUMBER J7P300161, 167, 236

SAMPLE DELIVERY GROUP WO 5163

OLD BATCH NUMBER 7129584

LAB SAMPLE ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1) JV057,AD	PUPS OOL
2) JV057,AFX	200 ml
3)	
4)	
5)	
6)	
7)	
8)	
9)	
10)	
11)	
12)	
13)	
14)	
15)	
16)	
17)	
18)	
19)	
20)	

6/11/2007 1:27:27 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 06/11/2007

Sep1 DT/Tm Tech:

Batch: 7129584 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7129581 FPS5, 7129582 AZS7, 7129584 BCS8, 7129585 DHSS, 7129589 CLTL, 7129592 5SS3, 7129593 ASU3,

Prep Tech: ManisD,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 JVX5T-1-AC J7D300161-1-SAMP 04/27/2007 10:22		200.70g,in								
		AmtRec: 20ML,500ML,6XLP	#Containers: 8					Scr:	Alpha: 7.51E-04 uCi/Sa	Beta: 6.52E-04 uCi/Sa
2 JVX6F-1-AC J7D300161-3-SAMP 04/27/2007 11:26		169.50g,in								
		AmtRec: 20ML,2X500ML,4XLP	#Containers: 7					Scr:	Alpha: 5.23E-07 uCi/Sa	Beta: 5.01E-07 uCi/Sa
3 JVX6R-1-AC J7D300161-4-SAMP 04/27/2007 11:26		182.90g,in								
		AmtRec: 20ML,2X500ML,4XLP	#Containers: 7					Scr:	Alpha: 4.82E-07 uCi/Sa	Beta: 7.17E-07 uCi/Sa
4 JVX9C-1-AD J7D300167-1-SAMP 04/27/2007 09:20		134.00g,in								
		AmtRec: 20ML,500ML,4XLP	#Containers: 6					Scr:	Alpha: 1.37E-06 uCi/Sa	Beta: -5.82E-07 uCi/Sa
5 JVX9E-1-AD J7D300167-2-SAMP 04/27/2007 08:25		199.70g,in								
		AmtRec: 20ML,500ML,4XLP	#Containers: 6					Scr:	Alpha: 5.36E-04 uCi/Sa	Beta: 3.53E-04 uCi/Sa
6 JV055-1-AD J7D300236-1-SAMP 04/30/2007 12:31		169.80g,in								
		AmtRec: 20ML,2XLP,2X7LP	#Containers: 5					Scr:	Alpha: -4.27E-03 uCi/Sa	Beta: 5.51E-03 uCi/Sa 1.7E-01L
7 JV056-1-AD J7D300236-2-SAMP 04/30/2007 11:16		200.60g,in								
		AmtRec: 20ML,2XLP,2X4LP	#Containers: 5					Scr:	Alpha: 6.32E-04 uCi/Sa	Beta: 7.21E-05 uCi/Sa

6/11/2007 1:27:28 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 06/11/2007

Sep1 DT/Tm Tech:

Batch: 7129584 **WATER** **pCi/L** **PM, Quote: SA , 57671**

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JV057-1-AD J7D300236-3-SAMP 04/30/2007 10:13		201.80g,in AmtRec: 20ML,2XLP,2X4LP	#Containers: 5					Scr:	Alpha: -2.52E-04 uCi/Sa	Beta: 1.15E-03 uCi/Sa
9 JV057-1-AF-X J7D300236-3-DUP 04/30/2007 10:13		200.10g,in AmtRec: 20ML,2XLP,2X4LP	#Containers: 5					Scr:	Alpha: -2.52E-04 uCi/Sa	Beta: 1.15E-03 uCi/Sa
10 JV057-2-AD J7D300236-3-SAMP 04/30/2007 10:13		201.8 AmtRec: 20ML,2XLP,2X4LP	1.5	50.6	200		26A	1533	6/11/07	
11 JV057-2-AF-X J7D300236-3-DUP 04/30/2007 10:13		201.0 AmtRec: 20ML,2XLP,2X4LP	1.5	50.9	200		26B			
12 JWL0X-1-AA-B J7E090000-584-BLK 04/30/2007 10:13		198.60g,in AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:
13 JWL0X-1-AC-C J7E090000-584-LCS 04/30/2007 10:13		200.30g,in AmtRec:	BESB3065 03/23/07,pd 08/08/06,r #Containers: 1					Scr:	Alpha:	Beta:

6/11/2007 1:27:29 PM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 06/11/2007

Sep1 DT/Tm Tech:

Batch: 7129584 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:

Comments:

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

JVX5T1AC-SAMP Constituent List:

BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
JWL0X1AA-BLK:					
BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
JWL0X1AC-LCS:					
Sr-90	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

JVX5T1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWL0X1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWL0X1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

6/12/2007 4:48:30 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/12/2006, 6/17/2007, Batch: '7129584', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7129584						
AC		**CalcC**	**BockJ**	6/5/2007 1:21:20 PM		
SC			wagarr	IsBatched	5/9/2007 4:41:37 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	6/5/2007 1:21:20 PM	RICH-RC-5016 Revision 6
SC			BockJ	Prep1C	6/5/2007 1:29:07 PM	RICH-RC-5014 REVISION 6
SC			AshworthA	InPrep2	6/7/2007 11:50:39 AM	RICH-RC-5014 REVISION 6
SC			AshworthA	Prep2C	6/8/2007 6:34:36 PM	RICH-RC-5014 REVISION 6
SC			DAWKINSO	InCnt1	6/8/2007 7:18:10 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	6/8/2007 9:30:34 PM	RICH-RD-0003 REVISION 5
SC			BlackCL	InCnt1	6/11/2007 1:53:53 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	6/11/2007 7:38:40 PM	RICH-RD-0003 REVISION 5
AC			**BockJ**	6/5/2007 1:29:07 PM		
AC			**AshworthA**	6/7/2007 11:50:39		
AC			**AshworthA**	6/8/2007 6:34:36 PM		
AC			**DAWKINSO**	6/8/2007 7:18:10 PM		
AC			**DAWKINSO**	6/8/2007 9:30:34 PM		
AC			**BlackCL**	6/11/2007 1:53:53 PM		
AC			**DAWKINSO**	6/11/2007 7:38:40 PM		

AC: Accepting Entry; SC: Status Change

6/8/2007 5:26:47 PM

Sample Preparation/Analysis

Balance Id:1120482733,1120482733,1120

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 06/11/2007

Sep1 DT/Tm Tech: 06/01/2007 16:45,ManisD

Batch: 7129589 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech: 06/08/2007 09:00,ManisD

SEQ Batch, Test: None

Prep Tech: ManisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JVX5T-1-AE J7D300161-1-SAMP		1009.70g,in	srtb14815 05/09/07,pd 09/11/06,r		1.5	24.1	100	5A 5A	0940 0953	6/9/07 r 6/10/07 r	
04/27/2007 10:22		AmtRec: 20ML,500ML,6XLP	#Containers: 8					Scr:	Alpha: 7.51E-04 uCi/Sa	Beta: 6.52E-04 uCi/Sa	
2 JVX6F-1-AD J7D300161-3-SAMP		1009.60g,in	srtb14816 05/09/07,pd 09/11/06,r		1.5	24.2	100	5b 5b	0940 0953	6/9/07 r 6/10/07 r	
04/27/2007 11:26		AmtRec: 20ML,2X500ML,4XLP	#Containers: 7					Scr:	Alpha: 5.23E-07 uCi/Sa	Beta: 5.01E-07 uCi/Sa	
3 JVX6R-1-AD J7D300161-4-SAMP		1007.00g,in	srtb14817 05/09/07,pd 09/11/06,r		1.5	24.9	100	5c 5c	0940 0953	6/9/07 r 6/10/07 r	
04/27/2007 11:26		AmtRec: 20ML,2X500ML,4XLP	#Containers: 7					Scr:	Alpha: 4.82E-07 uCi/Sa	Beta: 7.17E-07 uCi/Sa	
4 JV0DK-1-AC J7D300171-1-SAMP		1008.40g,in	srtb14818 05/09/07,pd 09/11/06,r		1.5	24.8	100	5d 5d	0940 0953	6/9/07 r 6/10/07 r	
04/27/2007 12:30		AmtRec: 20ML,5XLP	#Containers: 6					Scr:	Alpha: 2.42E-07 uCi/Sa	Beta: 9.86E-07 uCi/Sa	

~~06/01/2007 16:45;s1, 06/08/2007~~

6/8/2007 5:26:48 PM

Sample Preparation/Analysis

Balance Id:1120482733,1120482733,1120

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 06/11/2007

Sep1 DT/Tm Tech: 06/01/2007 16:45,ManisD

Batch: 7129589 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech: 06/08/2007 09:00,ManisD

SEQ Batch, Test: None

Prep Tech: ,ManisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
5 JV0DL-1-AC J7D300171-2-SAMP		1009.00g,in	srtb14819 05/23/07,pd 09/11/06,r		1.5	24.6	100	6A 6A	0940 0953	6/9/07 K 6/10/07 K	
						~~06/01/2007 16:45;s1, 06/08/2007~~					
04/27/2007 12:30		AmtRec: 20ML,4XLP	#Containers: 5					Scr:	Alpha: 4.40E-04 uCi/Sa		Beta: 7.47E-04 uCi/Sa
6 JV8XN-1-AE J7E030379-1-SAMP		981.70g,in	srtb14820 05/23/07,pd 09/11/06,r		1.5	24.5	100	6B 6B	0940 0953	6/9/07 K 6/10/07 K	
						~~06/01/2007 16:45;s1, 06/08/2007~~					
05/01/2007 11:05		AmtRec: 20ML,500ML,4XLP,3X4LP	#Containers: 9					Scr:	Alpha: 1.98E-03 uCi/Sa		Beta: -2.89E-03 uCi/Sa
7 JV8XN-1-AH-X J7E030379-1-DUP		972.80g,in	srtb14821 05/23/07,pd 09/11/06,r		1.5	24.5	100	6C 6C	0940 0953	6/9/07 K 6/10/07 K	
						~~06/01/2007 16:45;s1, 06/08/2007~~					
05/01/2007 11:05		AmtRec: 20ML,500ML,4XLP,3X4LP	#Containers: 9					Scr:	Alpha: 1.98E-03 uCi/Sa		Beta: -2.89E-03 uCi/Sa
8 JWL06-1-AA-B J7E090000-589-BLK		998.20g,in	srtb14822 05/23/07,pd 09/11/06,r		1.5	24.9	100	6d 6d	0940 0953	6/9/07 K 6/10/07 K	
						~~06/01/2007 16:45;s1, 06/08/2007~~					
05/01/2007 11:05		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:

6/8/2007 5:26:50 PM

Sample Preparation/Analysis

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

Balance Id:1120482733,1120482733,1120

Pipet #: _____

AnalyDueDate: 06/11/2007

Sep1 DT/Tm Tech: 06/01/2007 16:45,ManisD

Batch: 7129589 pCi/L

Sep2 DT/Tm Tech: 06/08/2007 09:00,ManisD

SEQ Batch, Test: None

Prep Tech: ManisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
9 JWL06-1-AC-C J7E090000-589-LCS		993.40g,in	srsg1348 04/19/07,pd 09/11/06,r		1.5	24.6	100	5A 5A	1133 1204	6/9/07 r 6/10/07 r	

~~06/01/2007 16:45,s1, 06/08/2007~~

05/01/2007 11:05 AmtRec: #Containers: 1 Scr: Alpha: Beta:

Comments:

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

JVX5T1AE-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
JWL061AA-BLK:											
Sr-85	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:	UCL:	RPD:
JWL061AC-LCS:											
Sr-85	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:70	UCL:130	RPD:20

JVX5T1AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWL061AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWL061AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

6/11/2007 12:30:33 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/11/2006, 6/16/2007, Batch: '7129589', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7129589						
AC		**CalcC**	**BockJ**	5/29/2007 12:31:43		
SC			wagarr	IsBatched	5/9/2007 4:41:37 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	5/29/2007 12:31:43 PM	RICH-RC-5016 Revision 6
SC			BockJ	Prep1C	5/29/2007 12:44:42 PM	RICH-RC-5016 REVISION 6
SC			ManisD	InSep1	5/29/2007 2:58:51 PM	RICH-RC-5006 REVISION 6
SC			ManisD	Sep1C	6/4/2007 8:26:04 AM	RICH-RC-5006 REVISION 6
SC			BlackCL	InCnt1	6/4/2007 8:33:48 AM	RICH-RD-0007 REVISION 5
SC			DAWKINSO	Cnt1C	6/4/2007 9:22:52 PM	RICH-RD-0007 REVISION 5
SC			ManisD	InSep2	6/8/2007 7:03:04 AM	RICH-RC-5071 REVISION 4
SC			ManisD	Sep2C	6/8/2007 5:30:29 PM	RICH-RC-5071 REVISION 4
SC			DAWKINSO	InCnt2	6/8/2007 7:40:56 PM	RICH-RD-0003 REVISION 5
SC			StringerR	CalcC	6/10/2007 2:07:07 PM	RICH-RD-0003 REVISION 5
AC			**BockJ**	5/29/2007 12:44:42		
AC			**ManisD**	5/29/2007 2:58:51 PM		
AC			**ManisD**	6/4/2007 8:26:04 AM		
AC			**BlackCL**	6/4/2007 8:33:48 AM		
AC			**DAWKINSO**	6/4/2007 9:22:52 PM		
AC			**ManisD**	6/8/2007 7:03:04 AM		
AC			**ManisD**	6/8/2007 5:30:29 PM		
AC			**DAWKINSO**	6/8/2007 7:40:56 PM		
AC			**StringerR**	6/10/2007 2:07:07 PM		

AC: Accepting Entry; SC: Status Change

6/8/2007 12:38:15 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733

Pipet #:

AnalyDueDate: 06/14/2007 WO5163

Sep1 DT/Tm Tech:

Batch: 7129586 **WATER** **pCi/L** **PM, Quote: SA , 57671**

SEQ Batch, Test: None

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 JV058-1-AA J7D300237-1-SAMP 04/30/2007 11:12		2002.80g,in AmtRec: 20ML,2X500ML,3X4LP #Containers: 6			100 mL	100	G5 Scr:	1912 Alpha: 2.18E-04 uCi/Sa	6/13/07 r Beta: 4.44E-03 uCi/Sa	
2 JV8XN-1-AA J7E030379-1-SAMP 05/01/2007 11:05		1999.90g,in AmtRec: 20ML,500ML,4XLP,3X4LP #Containers: 9					G6 Scr:	1915 Alpha: 1.98E-03 uCi/Sa	6/13/07 r Beta: -2.89E-03 uCi/Sa	
3 JV8X3-1-AA J7E030383-1-SAMP 05/01/2007 14:01		1976.20g,in AmtRec: 20ML,500ML,3X4LP #Containers: 5					G8 Scr:	1916 Alpha: -8.34E-04 uCi/Sa	6/13/07 r Beta: -4.39E-04 uCi/Sa	
4 JV8X3-1-AE-X J7E030383-1-DUP 05/01/2007 14:01		1900.40g,in AmtRec: 20ML,500ML,3X4LP #Containers: 5					G10 Scr:	1916 Alpha: -8.34E-04 uCi/Sa	6/13/07 r Beta: -4.39E-04 uCi/Sa	
5 JWL01-1-AA-B J7E090000-586-BLK 05/01/2007 14:01		1992.10g,in AmtRec: #Containers: 1					G11 Scr:	1917 Alpha:	6/13/07 r Beta:	
6 JWL01-1-AC-C J7E090000-586-LCS 05/01/2007 14:01		1998.40g,in AmtRec: #Containers: 1	QCAG1366 03/23/07,pd 03/07/05,r				G12 Scr:	1918 Alpha:	6/13/07 r Beta:	

6/8/2007 12:38:20 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 06/14/2007

Sep1 DT/Tm Tech:

Batch: 7129586 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:

Comments: JV8X3-SAMP "Comments. Not full pour up due to insufficient sample amount. JB 06/08/07"

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

JV0581AA-SAMP Constituent List:

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

JWL011AA-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:

JWL011AC-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						

JV0581AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JWL011AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JWL011AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

6/14/2007 1:41:02 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/14/2006, 6/19/2007, Batch: '7129586', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7129586						
AC		**CalcC**	**BockJ**	6/8/2007 12:38:18 PM		
SC			wagarr	IsBatched	5/9/2007 4:41:37 PM	ICOC_RADCALC v4.8.26
SC			BockJ	Prep1C	6/8/2007 12:38:18 PM	RICH-RC-5017 REVISION 5
SC			AshworthA	InPrep2	6/12/2007 9:02:09 AM	RICH-RC-5017 REVISION 4
SC			AshworthA	Prep2C	6/13/2007 5:23:35 PM	RICH-RC-5017 REVISION 4
SC			StringerR	InCnt1	6/13/2007 5:26:17 PM	RICH-RD-0007 REVISION 6
SC			StringerR	CalcC	6/13/2007 7:49:18 PM	RICH-RD-0007 REVISION 6
AC			**AshworthA**	6/12/2007 9:02:09		
AC			**AshworthA**	6/13/2007 5:23:35 PM		
AC			**StringerR**	6/13/2007 5:26:17 PM		
AC			**StringerR**	6/13/2007 7:49:18 PM		

AC: Accepting Entry; SC: Status Change

6/11/2007 11:07:43 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: 06/14/2007 W05163

Sep1 DT/Tm Tech:

Batch: 7129587 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	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JV055-1-AE J7D300236-1-SAMP 04/30/2007 12:31		3982.10g,in AmtRec: 20ML,2XLP,2X7LP #Containers: 5	ITA6347 05/30/07		28.4	100	L2	1916 Scr: Alpha: -4.27E-03 uCi/Sa	6/14/07	Beta: 5.51E-03 uCi/Sa 1.7E-01L
2 JV056-1-AE J7D300236-2-SAMP 04/30/2007 11:16		3917.80g,in AmtRec: 20ML,2XLP,2X4LP #Containers: 5	ITA6348 05/30/07		28.5		L4	1919 Scr: Alpha: 6.32E-04 uCi/Sa		Beta: 7.21E-05 uCi/Sa
3 JV057-1-AE J7D300236-3-SAMP 04/30/2007 10:13		3932.40g,in AmtRec: 20ML,2XLP,2X4LP #Containers: 5	ITA6349 06/11/07		35.1		L5	1919 Scr: Alpha: -2.52E-04 uCi/Sa		Beta: 1.15E-03 uCi/Sa
4 JV058-1-AC J7D300237-1-SAMP 04/30/2007 11:12		3899.30g,in AmtRec: 20ML,2X500ML,3X4LP #Containers: 6	ITA6350 06/11/07		37.3		L2	2102 Scr: Alpha: 2.18E-04 uCi/Sa		Beta: 4.44E-03 uCi/Sa
5 JV8XN-1-AC J7E030379-1-SAMP 05/01/2007 11:05		3923.20g,in AmtRec: 20ML,500ML,4XLP,3X4LP #Containers: 9	ITA6351 06/11/07		30.0		L4	2105 Scr: Alpha: 1.98E-03 uCi/Sa		Beta: -2.89E-03 uCi/Sa
6 JV8X3-1-AC J7E030383-1-SAMP 05/01/2007 14:01		3920.20g,in AmtRec: 20ML,500ML,3X4LP #Containers: 5	ITA6352 06/11/07		35.3		L5	2105 Scr: Alpha: -8.34E-04 uCi/Sa		Beta: -4.39E-04 uCi/Sa
7 JV8X3-1-AF-X J7E030383-1-DUP 05/01/2007 14:01		3904.00g,in AmtRec: 20ML,500ML,3X4LP #Containers: 5	ITA6353 06/11/07		35.3		L2	2247 Scr: Alpha: -8.34E-04 uCi/Sa		Beta: -4.39E-04 uCi/Sa

6/11/2007 11:07:45 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: 06/14/2007

Sep1 DT/Tm Tech:

Batch: 7129587 WATER pCi/L PM, Quote: SA , 57671

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JV8X8-1-AA J7E030385-1-SAMP		3948.60g,in	ITA6354 06/11/07		35.0	100	L4 6/14/07 0010	2250	6/14/07 0010	
05/02/2007 10:56		AmtRec: 20ML,2X500ML,2X4LP	#Containers: 5				Scr:	Alpha: 4.07E-03 uCi/Sa		Beta: 1.05E-03 uCi/Sa
9 JWL03-1-AA-B J7E090000-587-BLK		3995.70g,in	ITA6355 06/11/07		33.8		L5	2251		
05/01/2007 14:01		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:
10 JWL03-1-AC-C J7E090000-587-LCS		3988.10g,in	ISD0751 04/25/07,pd 04/11/07,r		35.3		L2	0036		
05/01/2007 14:01		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:

Comments: ~~JV8X3-SAMP Comments~~ PH - neutral JB 6-11-07

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

JV0551AE-SAMP Constituent List:
  I-129       RDL:1.00E+00    pCi/L     LCL:        UCL:        RPD:
JWL031AA-BLK:
  I-129       RDL:1.00E+00    pCi/L     LCL:        UCL:        RPD:
JWL031AC-LCS:
  I-129       RDL:5           pCi/L     LCL:70      UCL:130     RPD:20
JV0551AE-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JWL031AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JWL031AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

6/11/2007 11:07:46 AM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 06/14/2007

Sep1 DT/Tm Tech:

Batch: 7129587 **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:

Approved By _____ Date: _____

6/15/2007 2:15:09 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/15/2006, 6/20/2007, Batch: '7129587', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7129587						
AC		**CalcC**	**BockJ**	6/11/2007 10:38:37		
SC			wagarr	IsBatched	5/9/2007 4:41:37 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	6/11/2007 10:38:37 AM	RICH-RC-5014 Revision 6
SC			BockJ	Prep1C	6/11/2007 11:07:47 AM	RICH-RC-5017 REVISION 5
SC			BostedD	InPrep2	6/11/2007 12:56:46 PM	RICHRC5025 REV3
SC			BostedD	Prep2C	6/14/2007 3:38:45 PM	RICHRC5025 REV3
SC			DAWKINSO	InCnt1	6/14/2007 4:02:08 PM	RICH-RD-0007 REVISION 6
SC			StringerR	CalcC	6/15/2007 8:57:08 AM	RICH-RD-0007 REVISION 6
AC			**BockJ**	6/11/2007 11:07:47		
AC			**BostedD**	6/11/2007 12:56:46		
AC			**BostedD**	6/14/2007 3:38:45 PM		
AC			**DAWKINSO**	6/14/2007 4:02:08 PM		
AC			**StringerR**	6/15/2007 8:57:08		

AC: Accepting Entry; SC: Status Change

SEVERN TRENT STL

*** RE-COUNT REQUEST ***

DUE DATE 6/15/07

CUSTOMER PGW

ANALYSIS TC99

MATRIX water

LOT NUMBER ~~707~~ LMA 6/14/07 J7D300161

SAMPLE DELIVERY GROUP

OLD BATCH NUMBER 7129581 newbatch 7165215

~~7165215~~ LMA 6/14/07

LAB SAMPLE ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1) ~~PGW~~ all	Please shake by hand - we wipe
2) LMA 6/14/07	and recount.
3)	
4)	
5)	
6)	
7)	
8)	
9)	
10)	
11)	
12)	
13)	
14)	
15)	
16)	
17)	
18)	
19)	
20)	

6/14/2007 10:42:58 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:
Pipet #: _____

AnalyDueDate: 06/11/2007

Sep1 DT/Tm Tech:

Batch: 7165215 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech:

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JVX5T-2-AF J7D300161-1-SAMP 04/27/2007 10:22	AmtRec: 20ML,500ML,6XLP	#Containers: 8						Scr:	Alpha: 7.51E-04 uCi/Sa	Beta: 6.52E-04 uCi/Sa
2 JVX6F-2-AE J7D300161-3-SAMP 04/27/2007 11:26	AmtRec: 20ML,2X500ML,4XLP	#Containers: 7						Scr:	Alpha: 5.23E-07 uCi/Sa	Beta: 5.01E-07 uCi/Sa
3 JVX6R-2-AE J7D300161-4-SAMP 04/27/2007 11:26	AmtRec: 20ML,2X500ML,4XLP	#Containers: 7						Scr:	Alpha: 4.82E-07 uCi/Sa	Beta: 7.17E-07 uCi/Sa
4 JVX72-2-AC J7D300164-1-SAMP 04/27/2007 08:00	AmtRec: 20ML,500ML,2XLP	#Containers: 4						Scr:	Alpha: -1.80E-04 uCi/Sa	Beta: 2.23E-04 uCi/Sa
5 JVX8D-2-AC J7D300164-3-SAMP 04/27/2007 12:01	AmtRec: 20ML,500ML,2XLP	#Containers: 4						Scr:	Alpha: 5.95E-05 uCi/Sa	Beta: -4.73E-05 uCi/Sa
6 JVX8V-2-AC J7D300166-1-SAMP 04/27/2007 09:57	AmtRec: 20ML,500MLP,2XLP	#Containers: 4						Scr:	Alpha: 3.11E-04 uCi/Sa	Beta: 6.10E-05 uCi/Sa
7 JVX8V-2-AD-X J7D300166-1-DUP 04/27/2007 09:57	AmtRec: 20ML,500MLP,2XLP	#Containers: 4						Scr:	Alpha: 3.11E-04 uCi/Sa	Beta: 6.10E-05 uCi/Sa

6/14/2007 10:42:59 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 06/11/2007

Batch: 7165215 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

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

Work Order, Lot, Sample 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 JVX80-2-AC J7D300166-2-SAMP 04/27/2007 07:00	AmtRec: 20ML,500MLP,2XLP	#Containers: 4					Scr:	Alpha: 5.86E-06 uCi/Sa	Beta: 3.85E-04 uCi/Sa	
9 JVX80-2-AD-S J7D300166-2-MS 04/27/2007 07:00	AmtRec: 20ML,500MLP,2XLP	#Containers: 4					Scr:	Alpha: 5.86E-06 uCi/Sa	Beta: 3.85E-04 uCi/Sa	
10 JVX9C-2-AF J7D300167-1-SAMP 04/27/2007 09:20	AmtRec: 20ML,500ML,4XLP	#Containers: 6					Scr:	Alpha: 1.37E-06 uCi/Sa	Beta: -5.82E-07 uCi/Sa	
11 JVX9E-2-AF J7D300167-2-SAMP 04/27/2007 08:25	AmtRec: 20ML,500ML,4XLP	#Containers: 6					Scr:	Alpha: 5.36E-04 uCi/Sa	Beta: 3.53E-04 uCi/Sa	
12 JV058-2-AD J7D300237-1-SAMP 04/30/2007 11:12	AmtRec: 20ML,2X500ML,3X4LP	#Containers: 6					Scr:	Alpha: 2.18E-04 uCi/Sa	Beta: 4.44E-03 uCi/Sa	
13 JV8XN-2-AF J7E030379-1-SAMP 05/01/2007 11:05	AmtRec: 20ML,500ML,4XLP,3X4LP	#Containers: 9					Scr:	Alpha: 1.98E-03 uCi/Sa	Beta: -2.89E-03 uCi/Sa	
14 JV8X3-2-AD J7E030383-1-SAMP 05/01/2007 14:01	AmtRec: 20ML,500ML,3X4LP	#Containers: 5					Scr:	Alpha: -8.34E-04 uCi/Sa	Beta: -4.39E-04 uCi/Sa	

6/14/2007 10:43:01 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 06/11/2007

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

Balance Id:

Pipet #: _____

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

Batch: 7165215 **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:

15 JV8X8-2-AC
J7E030385-1-SAMP
05/02/2007 10:56 AmtRec: 20ML,2X500ML,2X4LP #Containers: 5 Scr: Alpha: 4.07E-03 uCi/Sa Beta: 1.05E-03 uCi/Sa

16 JWL0T-2-AA-B
J7E090000-581-BLK
04/27/2007 09:57 AmtRec: #Containers: 1 Scr: Alpha: Beta:

17 JWL0T-2-AC-C
J7E090000-581-LCS
04/27/2007 09:57 AmtRec: #Containers: 1 Scr: Alpha: Beta:

18 JWL0T-2-AD-BN
J7E090000-581-IBLK
04/27/2007 09:57 AmtRec: #Containers: 1 Scr: Alpha: Beta:

19 JWL0T-2-AE-BN
J7E090000-581-IBLK
04/27/2007 09:57 AmtRec: #Containers: 1 Scr: Alpha: Beta:

Comments: JV8X3-SAMP Comments

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

JVX5T2AF-SAMP Constituent List:

Sample Preparation/Analysis

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

AnalyDueDate: 06/11/2007

Batch: 7165215 **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:

```
 Tc-99        RDL:15          pCi/L     LCL:70      UCL:130     RPD:20
JVX802AD-MS:

JWL0T2AA-BLK:
 Tc-99        RDL:15          pCi/L     LCL:        UCL:        RPD:
JWL0T2AC-LCS:
 Tc-99        RDL:15          pCi/L     LCL:70      UCL:130     RPD:20
JWL0T2AD-IBLK:
 Tc-99        RDL:15          pCi/L     LCL:        UCL:        RPD:
JWL0T2AE-IBLK:
 Tc-99        RDL:15          pCi/L     LCL:        UCL:        RPD:
JVX5T2AF-SAMP Calc Info:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JVX802AD-MS:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JWL0T2AA-BLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JWL0T2AC-LCS:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JWL0T2AD-IBLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JWL0T2AE-IBLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

6/15/2007 2:55:01 PM

ICOC Fraction Transfer/Status Report

ByDate: 5/16/2007, 6/16/2007, Batch: '7129581', User: *All Order by BatchNbr,WorkOrderNbr,DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7129581						
AC		**CalcC**	**BockJ**	6/1/2007 12:00:43 PM		
SC			wagarr	IsBatched	5/9/2007 4:41:37 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	6/1/2007 12:00:43 PM	RICH-RC-5014 Revision 6
SC			BockJ	Prep1C	6/1/2007 12:13:33 PM	RICH-RC-5016 REVISION 6
SC			FABREM	Sep1C	6/5/2007 8:54:12 PM	RICH-RC-5065 REVISION 5
SC			DAWKINSO	InCnt1	6/5/2007 9:15:51 PM	RICH-RD-0001 REVISION 3
SC			BlackCL	CalcC	6/7/2007 7:10:09 AM	RICH-RD-0001 REVISION 3
AC			**BockJ**	6/1/2007 12:13:33 PM		
AC			**FABREM**	6/5/2007 8:54:12 PM		
AC			**DAWKINSO**	6/5/2007 9:15:51 PM		
AC			**BlackCL**	6/7/2007 7:10:09 AM		

AC: Accepting Entry; SC: Status Change

6/15/2007 2:53:51 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/15/2006, 6/20/2007, Batch: '7165215', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7165215						
AC		**CalcC**	**StringerR**	6/14/2007 11:11:38		
SC			StringerR	InCnt1	6/14/2007 11:11:38 AM	REVISION 4
SC			StringerR	CalcC	6/15/2007 1:36:11 PM	RICH-RD-0001 REVISION 4
AC			**StringerR**	6/15/2007 1:36:11 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 2

ICOCFractions v4.8.26

5/9/2007 4:37:07 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: 06/11/2007 W05163

Batch: 7129591 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 6-4-07 [illegible]
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 JVX9C-1-AA J7D300167-1-SAMP 04/27/2007 09:20		AmtRec: 20ML,500ML,4XLP	#Containers: 6			Scr:	Alpha: 1.37E-06 uCi/Sa	Beta: -5.82E-07 uCi/Sa
2 JVX9E-1-AA J7D300167-2-SAMP 04/27/2007 08:25		AmtRec: 20ML,500ML,4XLP	#Containers: 6			Scr:	Alpha: 5.36E-04 uCi/Sa	Beta: 3.53E-04 uCi/Sa
3 JV055-1-AA J7D300236-1-SAMP 04/30/2007 12:31		AmtRec: 20ML,2XLP,2X7LP	#Containers: 5			Scr:	Alpha: -4.27E-03 uCi/Sa	Beta: 5.51E-03 uCi/Sa 1.7E-01L
4 JV055-1-AF-X J7D300236-1-DUP 04/30/2007 12:31		AmtRec: 20ML,2XLP,2X7LP	#Containers: 5			Scr:	Alpha: -4.27E-03 uCi/Sa	Beta: 5.51E-03 uCi/Sa 1.7E-01L
5 JV056-1-AA J7D300236-2-SAMP 04/30/2007 11:16		AmtRec: 20ML,2XLP,2X4LP	#Containers: 5			Scr:	Alpha: 6.32E-04 uCi/Sa	Beta: 7.21E-05 uCi/Sa
6 JV057-1-AA J7D300236-3-SAMP 04/30/2007 10:13		AmtRec: 20ML,2XLP,2X4LP	#Containers: 5			Scr:	Alpha: -2.52E-04 uCi/Sa	Beta: 1.15E-03 uCi/Sa
7 JWL09-1-AA-B J7E090000-591-BLK 04/30/2007 12:31		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

5/9/2007 4:37:10 PM

Sample Preparation/Analysis

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

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 64-07bm
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 06/11/2007

Batch: 7129591 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 JWL09-1-AC-C J7E090000-591-LCS 04/30/2007 12:31		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
9 JWL09-1-AD-BX J7E090000-591-MBLK 04/30/2007 12:31		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
10 JWL09-1-AE-CM J7E090000-591-MLCS 04/30/2007 12:31		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
11 JWL09-1-AF-BN J7E090000-591-IBLK 04/30/2007 12:31		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
12 JWL09-1-AG-BN J7E090000-591-IBLK 04/30/2007 12:31		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

JVX9C1AA-SAMP Constituent List:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20

5/9/2007 4:37:16 PM

Sample Preparation/Analysis

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

AnalyDueDate: 06/11/2007

Batch: 7129591 pCi/L
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 6-07 Zm
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:

```
JWL091AA-BLK:
  H-3          RDL:400          pCi/L      LCL:         UCL:         RPD:
JWL091AC-LCS:
  H-3          RDL:400          pCi/L      LCL:70       UCL:130      RPD:20
JWL091AD-MBLK:
  H-3          RDL:400          pCi/L      LCL:         UCL:         RPD:
JWL091AE-MLCS:
  H-3          RDL:400          pCi/L      LCL:70       UCL:130      RPD:20
JWL091AF-IBLK:
  H-3          RDL:400          pCi/L      LCL:         UCL:         RPD:
JWL091AG-IBLK:
  H-3          RDL:400          pCi/L      LCL:         UCL:         RPD:
JVX9C1AA-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JWL091AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JWL091AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JWL091AD-MBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JWL091AE-MLCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JWL091AF-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JWL091AG-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

6/6/2007 5:09:48 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/6/2006, 6/11/2007, Batch: '7129591', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7129591						
AC		**CalcC**	**McDowellD**	6/4/2007 3:18:46 PM		
SC			wagarr	IsBatched	5/9/2007 4:41:37 PM	ICOC_RADCALC v4.8.26
SC			McDowellD	Sep1C	6/4/2007 3:18:46 PM	RICH-RC-5007 REVISION 6
SC			DAWKINSO	InCnt1	6/4/2007 3:32:34 PM	RICH-RD-0001 REVISION 3
SC			DAWKINSO	CalcC	6/5/2007 9:11:47 PM	RICH-RD-0001 REVISION 3
AC			**DAWKINSO**	6/4/2007 3:32:34 PM		
AC			**DAWKINSO**	6/5/2007 9:11:47 PM		

AC: Accepting Entry; SC: Status Change

5/9/2007 4:37:24 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 06/11/2007 W051163

Batch: 7129593 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

Balance Id: 12424
Pipet #:
Sep1 DT/Tm Tech: 5-25-07am
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 JVX58-1-AA J7D300161-2-SAMP 04/27/2007 08:30		AmtRec: 20ML,3XLP	#Containers: 4			Scr:	Alpha: 1.04E-03 uCi/Sa	Beta: 4.06E-05 uCi/Sa
2 JVX58-1-AC-X J7D300161-2-DUP 04/27/2007 08:30		AmtRec: 20ML,3XLP	#Containers: 4			Scr:	Alpha: 1.04E-03 uCi/Sa	Beta: 4.06E-05 uCi/Sa
3 JWL1N-1-AA-B J7E090000-593-BLK 04/27/2007 08:30		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
4 JWL1N-1-AC-C J7E090000-593-LCS 04/27/2007 08:30		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
5 JWL1N-1-AD-BN J7E090000-593-IBLK 04/27/2007 08:30		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

JVX581AA-SAMP Constituent List:
H-3 RDL:1.00E+01 pCi/L LCL:70 UCL:130 RPD:20

5/9/2007 4:37:29 PM

Sample Preparation/Analysis

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

Balance Id: 12424
Pipet #:
Sep1 DT/Tm Tech: 5-25-07 bm
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 06/11/2007

Batch: 7129593 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:

```
JWL1N1AA-BLK:
 H-3          RDL:1.00E+01    pCi/L     LCL:        UCL:        RPD:
JWL1N1AC-LCS:
 H-3          RDL:10          pCi/L     LCL:70      UCL:130     RPD:20
JWL1N1AD-IBLK:
 H-3          RDL:1.00E+01    pCi/L     LCL:        UCL:        RPD:
JVX581AA-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JWL1N1AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JWL1N1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JWL1N1AD-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

6/11/2007 3:45:34 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/11/2006, 6/16/2007, Batch: '7129593', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7129593						
AC		**CalcC**	**McDowellD**	5/14/2007 1:11:00 PM		
SC			wagarr	IsBatched	5/9/2007 4:41:37 PM	ICOC_RADCALC v4.8.26
SC			McDowellD	InPrep	5/14/2007 1:11:00 PM	RICH-RC-5024 REVISION 2
SC			McDowellD	Sep1C	6/8/2007 3:27:04 PM	RICH-RC-5024 REVISION 2
SC			DAWKINSO	InCnt1	6/8/2007 3:45:21 PM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	6/11/2007 7:38:08 AM	RICH-RD-0001 REVISION 4
AC			**McDowellD**	6/8/2007 3:27:04 PM		
AC			**DAWKINSO**	6/8/2007 3:45:21 PM		
AC			**BlackCL**	6/11/2007 7:38:08		

AC: Accepting Entry; SC: Status Change

5/9/2007 4:37:16 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

5S C-14 Prp/SepRC5022
S3 Carbon-14 by Liquid Scint
5I CLIENT: HANFORD

AnalyDueDate: 06/11/2007 W051103

Batch: 7129592 **WATER** **pCi/L** **PM, Quote: SA , 57671**
SEQ Batch, Test: None

Balance Id: N/A
Pipet #:
Sep1 DT/Tm Tech: 6-7-07 am
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 JVX5T-1-AD J7D300161-1-SAMP 04/27/2007 10:22		AmtRec: 20ML,500ML,6XLP	#Containers: 8			Scr:	Alpha: 7.51E-04 uCi/Sa	Beta: 6.52E-04 uCi/Sa
2 JVX72-1-AA J7D300164-1-SAMP 04/27/2007 08:00		AmtRec: 20ML,500ML,2XLP	#Containers: 4			Scr:	Alpha: -1.80E-04 uCi/Sa	Beta: 2.23E-04 uCi/Sa
3 JVX76-1-AA J7D300164-2-SAMP 04/27/2007 10:47		AmtRec: 20ML,2XLP	#Containers: 3			Scr:	Alpha: 1.92E-04 uCi/Sa	Beta: 2.86E-04 uCi/Sa
4 JVX8D-1-AA J7D300164-3-SAMP 04/27/2007 12:01		AmtRec: 20ML,500ML,2XLP	#Containers: 4			Scr:	Alpha: 5.95E-05 uCi/Sa	Beta: -4.73E-05 uCi/Sa
5 JVX8V-1-AA J7D300166-1-SAMP 04/27/2007 09:57		AmtRec: 20ML,500MLP,2XLP	#Containers: 4			Scr:	Alpha: 3.11E-04 uCi/Sa	Beta: 6.10E-05 uCi/Sa
6 JVX80-1-AA J7D300166-2-SAMP 04/27/2007 07:00		AmtRec: 20ML,500MLP,2XLP	#Containers: 4			Scr:	Alpha: 5.86E-06 uCi/Sa	Beta: 3.85E-04 uCi/Sa
7 JVX9C-1-AE J7D300167-1-SAMP 04/27/2007 09:20		AmtRec: 20ML,500ML,4XLP	#Containers: 6			Scr:	Alpha: 1.37E-06 uCi/Sa	Beta: -5.82E-07 uCi/Sa

5/9/2007 4:37:18 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

5S C-14 Prp/SepRC5022
S3 Carbon-14 by Liquid Scint
5I CLIENT: HANFORD

AnalyDueDate: 06/11/2007

Batch: 7129592 **WATER** **pCi/L** **PM, Quote: SA , 57671**
SEQ Batch, Test: None

Balance Id: N/A
Pipet #:
Sep1 DT/Tm Tech: 6-7-07 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:
8 JVX9E-1-AE J7D300167-2-SAMP 04/27/2007 08:25		AmtRec: 20ML,500ML,4XLP	#Containers: 6			Scr:	Alpha: 5.36E-04 uCi/Sa	Beta: 3.53E-04 uCi/Sa
9 JV0DK-1-AA J7D300171-1-SAMP 04/27/2007 12:30		AmtRec: 20ML,5XLP	#Containers: 6			Scr:	Alpha: 2.42E-07 uCi/Sa	Beta: 9.86E-07 uCi/Sa
10 JV0DK-1-AD-X J7D300171-1-DUP 04/27/2007 12:30		AmtRec: 20ML,5XLP	#Containers: 6			Scr:	Alpha: 2.42E-07 uCi/Sa	Beta: 9.86E-07 uCi/Sa
11 JV0DL-1-AA J7D300171-2-SAMP 04/27/2007 12:30		AmtRec: 20ML,4XLP	#Containers: 5			Scr:	Alpha: 4.40E-04 uCi/Sa	Beta: 7.47E-04 uCi/Sa
12 JWL1C-1-AA-B J7E090000-592-BLK 04/27/2007 12:30		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
13 JWL1C-1-AC-C J7E090000-592-LCS 04/27/2007 12:30		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
14 JWL1C-1-AD-BN J7E090000-592-IBLK 04/27/2007 12:30		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

5/9/2007 4:37:22 PM

Sample Preparation/Analysis

5S C-14 Prp/SepRC5022
S3 Carbon-14 by Liquid Scint
5I CLIENT: HANFORD

Balance Id: N/A
Pipet #:
Sep1 DT/Tm Tech: 6 7-0 7am
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 06/11/2007

Batch: 7129592 pCi/L
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 JWL1C-1-AE-BN J7E090000-592-IBLK 04/27/2007 12:30	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Comments:

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

JVX5T1AD-SAMP Constituent List:
C-14 RDL:2.00E+02 pCi/L LCL:70 UCL:130 RPD:20
JWL1C1AA-BLK:
C-14 RDL:2.00E+02 pCi/L LCL: UCL: RPD:
JWL1C1AC-LCS:
C-14 RDL:200 pCi/L LCL:70 UCL:130 RPD:20
JWL1C1AD-IBLK:
C-14 RDL:2.00E+02 pCi/L LCL: UCL: RPD:
JWL1C1AE-IBLK:
C-14 RDL:2.00E+02 pCi/L LCL: UCL: RPD:

JVX5T1AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWL1C1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWL1C1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWL1C1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWL1C1AE-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

6/14/2007 1:46:34 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/14/2006, 6/19/2007, Batch: '7129592', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7129592						
AC		**CalcC**	**McDowellD**	6/7/2007 9:48:20 AM		
SC			wagarr	IsBatched	5/9/2007 4:41:37 PM	ICOC_RADCALC v4.8.26
SC			McDowellD	InSep1	6/7/2007 9:48:20 AM	RICH-RC-5022 REVISION 3
SC			McDowellD	Sep1C	6/11/2007 11:39:36 AM	RICH-RC-5022 REVISION 3
SC			BlackCL	InCnt1	6/11/2007 12:17:04 PM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	6/12/2007 8:05:45 AM	RICH-RD-0001 REVISION 4
AC			**McDowellD**	6/11/2007 11:39:36		
AC			**BlackCL**	6/11/2007 12:17:04		
AC			**BlackCL**	6/12/2007 8:05:45		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.26

6/5/2007 11:42:36 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: 06/11/2007 WO5163

Sep1 DT/Tm Tech:

Batch: 7129585 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 JVX6F-1-AF J7D300161-3-SAMP 04/27/2007 11:26		25.00g,in AmtRec: 20ML,2X500ML,4XLP	#Containers: 7			Scr:	Alpha: 5.23E-07 uCi/Sa	Beta: 5.01E-07 uCi/Sa
2 JVX6R-1-AF J7D300161-4-SAMP 04/27/2007 11:26		26.10g,in AmtRec: 20ML,2X500ML,4XLP	#Containers: 7			Scr:	Alpha: 4.82E-07 uCi/Sa	Beta: 7.17E-07 uCi/Sa
3 JV058-1-AE J7D300237-1-SAMP 04/30/2007 11:12		25.70g,in AmtRec: 20ML,2X500ML,3X4LP	#Containers: 6			Scr:	Alpha: 2.18E-04 uCi/Sa	Beta: 4.44E-03 uCi/Sa
4 JV058-1-AF-S J7D300237-1-MS 04/30/2007 11:12		25.30g,in AmtRec: 20ML,2X500ML,3X4LP	UNSF3751 05/29/07,pd 01/23/07,r #Containers: 6			Scr:	Alpha: 2.18E-04 uCi/Sa	Beta: 4.44E-03 uCi/Sa
5 JV8X8-1-AD J7E030385-1-SAMP 05/02/2007 10:56		27.30g,in AmtRec: 20ML,2X500ML,2X4LP	#Containers: 5			Scr:	Alpha: 4.07E-03 uCi/Sa	Beta: 1.05E-03 uCi/Sa
6 JV8X8-1-AE-X J7E030385-1-DUP 05/02/2007 10:56		26.70g,in AmtRec: 20ML,2X500ML,2X4LP	#Containers: 5			Scr:	Alpha: 4.07E-03 uCi/Sa	Beta: 1.05E-03 uCi/Sa
7 JWL00-1-AA-B J7E090000-585-BLK 05/02/2007 10:56		26.00g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

6/5/2007 11:42:41 AM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 06/11/2007

Sep1 DT/Tm Tech:

Batch: 7129585 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:
8 JWL00-1-AC-C J7E090000-585-LCS 05/02/2007 10:56	AmtRec:	25.40g,in	UNSF3752 05/29/07,pd 01/23/07,r #Containers: 1	Scr:	Alpha:	Beta:		
9 JWL00-1-AD-C J7E090000-585-LCS 05/02/2007 10:56	AmtRec:	25.50g,in	UNSC1696 05/17/07,pd 04/28/06,r #Containers: 1	Scr:	Alpha:	Beta:		

Comments: PH < 2.0 JB 6-5-07

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

JVX6F1AF-SAMP Constituent List:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
JV0581AF-MS:

JWL001AA-BLK:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
JWL001AC-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20
JWL001AD-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20

JVX6F1AF-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JV0581AF-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWL001AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWL001AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWL001AD-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

6/5/2007 11:42:44 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 06/11/2007

Sep1 DT/Tm Tech:

Batch: 7129585 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:

Approved By _____ Date: _____

6/13/2007 12:32:35 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/13/2006, 6/18/2007, Batch: '7129585', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7129585						
AC		**Cnt1C**	**BockJ**	6/5/2007 11:32:55		
SC			wagarr	IsBatched	5/9/2007 4:41:37 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	6/5/2007 11:32:55 AM	RICH-RC-5016 Revision 6
SC			BockJ	Prep1C	6/5/2007 11:42:40 AM	RICH-RC-5015 REVISION 4
SC			AshworthA	InPrep2	6/7/2007 8:37:54 AM	RICH-RC-5015 REVISION 4
SC			AshworthA	Prep2C	6/8/2007 2:34:35 PM	RICH-RC-5015 REVISION 4
SC			NelsonT	Cnt1C	6/11/2007 11:42:42 AM	RICH-RC-5058 REV 7
AC			**BockJ**	6/5/2007 11:42:40		
AC			**AshworthA**	6/7/2007 8:37:54 AM		
AC			**AshworthA**	6/8/2007 2:34:35 PM		
AC			**NelsonT**	6/11/2007 11:42:42		

AC: Accepting Entry; SC: Status Change