Analytical Data Package Prepared For

Pacific Northwest National Lab

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Radiochemical Analysis By

STL Richland STLRL

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

Data Package Contains _____ Pages

Report Nbr: 31800

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W04866	S06-001	B1H7B2	J6B100329-1	HW8751AA	9HW87510	6046244
		B1H7B2	J6B100329-1	HW8751AC	9HW87510	6046277
	S06-002	B1HF69	J6B100330-1	HW88C1AA	9HW88C10	6046244
		B1HF69	J6B100330-1	HW88C1AC	9HW88C10	6046262
		B1HF69	J6B100330-1	HW88C1AD	9HW88C10	6046267
		B1HF69	J6B100330-1	HW88C1AE	9HW88C10	6046270
		B1HF69	J6B100330-1	HW88C1AF	9HW88C10	6046280
		B1HF69	J6B100330-1	HW88C1AG	9HW88C10	6046272
		B1HF51	J6B100330-2	HW88G1AA	9HW88G10	6046244
		B1HF51	J6B100330-2	HW88G1AC	9HW88G10	6046262
		B1HF51	J6B100330-2	HW88G1AD	9HW88G10	6046267
		B1HF51	J6B100330-2	HW88G1AE	9HW88G10	6046270
		B1HF51	J6B100330-2	HW88G1AF	9HW88G10	6046280
		B1HF51	J6B100330-2	HW88G1AG	9HW88G10	6046272
	S06-001	B1H736	J6B100332-1	HW88P1AA	9HW88P10	6046244

Comments:

1217008

Report Nbr: 31800

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W04866	S06-001	B1H736	J6B100332-1	HW88P1AC	9HW88P10	6046262
		B1H736	J6B100332-1	HW88P1AD	9HW88P10	6046267
		B1H736	J6B100332-1	HW88P1AE	9HW88P10	6046270
		B1H736	J6B100332-1	HW88P1AF	9HW88P10	6046277
		B1H736	J6B100332-1	HW88P1AG	9HW88P10	6046281
		B1H736	J6B100332-1	HW88P1AH	9HW88P10	6046272
		B1H736	J6B100332-1	HW88P1AJ	9HW88P10	6046284
		B1H736	J6B100332-1	HW88P1AK	9HW88P10	6046298
		B1H6X3	J6B100332-2	HW88W1AA	9HW88W10	6046244
		B1H6W9	J6B100332-3	HW8801AA	9HW88010	6046244
		B1H778	J6B100334-1	HW8851AA	9HW88510	6046244
		B1H778	J6B100334-1	HW8851AC	9HW88510	6046262
		B1H778	J6B100334-1	HW8851AD	9HW88510	6046267
		B1H778	J6B100334-1	HW8851AE	9HW88510	6046270
		B1H778	J6B100334-1	HW8851AG	9HW88510	6046272
		B1H778	J6B100334-1	HW8851AH	9HW88510	6046277
		B1H794	J6B100334-2	HW89H1AA	9HW89H10	6046244
		B1H794	J6B100334-2	HW89H1AC	9HW89H10	6046262
		B1H794	J6B100334-2	HW89H1AD	9HW89H10	6046267
		B1H794	J6B100334-2	HW89H1AE	9HW89H10	6046270
		B1H794	J6B100334-2	HW89H1AF	9HW89H10	6046272
	W06-002	B1HCT8	J6B140152-1	HXD3M1AA	9HXD3M10	6046244
		B1HCT8	J6B140152-1	HXD3M1AC	9HXD3M10	6046267
		B1HCT8	J6B140152-1	HXD3M1AD	9HXD3M10	6046282
		B1HCT8	J6B140152-1	HXD3M1AE	9HXD3M10	6046298
		B1HCP5	J6B140152-2	HXD3Q1AA	9HXD3Q10	6046244

Comments:

Report Nbr: 31800

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W04866	W06-002	B1HCP5	J6B140152-2	HXD3Q1AC	9HXD3Q10	6046282
		B1HCP5	J6B140152-2	HXD3Q1AD	9HXD3Q10	6046298
		B1HCR7	J6B140152-3	HXD3T1AA	9HXD3T10	6046244
		B1HCR7	J6B140152-3	HXD3T1AC	9HXD3T10	6046262
		B1HCR7	J6B140152-3	HXD3T1AD	9HXD3T10	6046267
		B1HCR7	J6B140152-3	HXD3T1AE	9HXD3T10	6046270
		B1HCR7	J6B140152-3	HXD3T1AF	9HXD3T10	6046284
		B1HCR7	J6B140152-3	HXD3T1AG	9HXD3T10	6046298
		B1HD35	J6B140156-1	HXD341AA	9HXD3410	6046244
		B1HD35	J6B140156-1	HXD341AC	9HXD3410	6046284
		B1HJW8	J6B140156-2	HXD361AA	9HXD3610	6046244
		B1HJW8	J6B140156-2	HXD361AC	9HXD3610	6046284
		B1HD43	J6B140156-3	HXD371AA	9HXD3710	6046244
		B1HD43	J6B140156-3	HXD371AC	9HXD3710	6046284
		B1HD81	J6B140156-4	HXD391AA	9HXD3910	6046244
		B1HD81	J6B140156-4	HXD391AC	9HXD3910	6046284
		B1HCN4	J6B140156-5	HXD4C1AA	9HXD4C10	6046244
		B1HCN4	J6B140156-5	HXD4C1AC	9HXD4C10	6046282
		B1HCN4	J6B140156-5	HXD4C1AD	9HXD4C10	6046298
		B1HD15	J6B140156-6	HXD4E1AA	9HXD4E10	6046244
		B1HD15	J6B140156-6	HXD4E1AC	9HXD4E10	6046282
		B1HD15	J6B140156-6	HXD4E1AD	9HXD4E10	6046298
	W06-001	B1H5Y9	J6B140159-1	HXD4H1AA	9HXD4H10	6046262
		B1H5Y9	J6B140159-1	HXD4H1AC	9HXD4H10	6046267
		B1H5Y5	J6B140164-1	HXD4M1AA	9HXD4M10	6046262
		B1H5Y5	J6B140164-1	HXD4M1AC	9HXD4M10	6046267

Comments:

Certificate of Analysis

Pacific Northwest National Laboratories
Sigma V Building
Richland, WA 99352

March 31, 2006

Attention: Dot Stewart

SAF Number	:	S06-001, S06-002, W06-002, W06-001
Date SDG Closed	:	February 13, 2006
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W04866
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between February 10, 2006 and February 13, 2006, 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#	MATRIX	DATE OF RECEIPT
B1HF69	HW88C	WATER	2/10/06
B1HF51	HW88G	WATER	2/10/06
B1H778	HW885	WATER	2/10/06
B1H794	HW89H	WATER	2/10/06
B1H736	HW88P	WATER	2/10/06
B1H6X3	HW88W	WATER	2/10/06
B1H6W9	HW880	WATER	2/10/06
B1H7B2	HW875	WATER	2/10/06
B1HCT8	HXD3M	WATER	2/13/06
B1HCP5	HXD3Q	WATER	2/13/06
B1HCR7	HXD3T	WATER	2/13/06
B1HD35	HXD34	WATER	2/13/06
B1HJW8	HXD36	WATER	2/13/06

B1HD43	HXD37	WATER	2/13/06
B1HD81	HXD39	WATER	2/13/06
B1HCN4	HXD4C	WATER	2/13/06
B1HD15	HXD4E	WATER	2/13/06
B1H5Y9	HXD4H	WATER	2/13/06
B1H5Y5	HXD4M	WATER	2/13/06
B1H724	HXD40	WATER	2/13/06

II. Sample Receipt

The samples were received in good condition and no anomalies were noted during check-in.

III. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information, analytical results and the appropriate associated statistical errors.

The requested analyses were:

Alpha Spectroscopy
Plutonium-238, -239/240 by method RICH-RC-5010
Gas Proportional Counting
Gross Alpha by method RICH-RC-5014
Gross Beta by method RICH-RC-5014
Strontium-90 by method RICH-RC-5006
Gamma Spectroscopy
Gamma Spec (LL) by method RICH-RC-5017
Iodine-129 (LL) by method RICH-RC-5025
Liquid Scintillation Counting
Technetium-99 by TEVA method RICH-RC-5065
Technetium-99 by method RICH-RC-5078
Tritium by method RICH-RC-5007
Laser Induced Phosphorimetry
Total Uranium by method RICH-RC-5058

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 (B1H1736) results are within contractual requirements.

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014

The LCS, batch blank, samples and sample duplicate (B1H5Y5) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:

The LCS, batch blank, samples and sample duplicate (B1H5Y9) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006

The LCS, batch blank, samples and sample duplicate (B1H794) results are within contractual requirements.

Gamma Spectroscopy

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

The LCS for this batch was recounted after the initial count yield a high recovery. The recounted LCS was acceptable and the results are approved. The LCS, batch blank, samples and sample duplicate (B1H778) results are within contractual requirements.

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

The LCS, batch blank, samples and sample duplicate (B1HF69) results are within contractual requirements.

Iodine-129 by method RICH-RC-5025

The LCS, batch blank, samples and sample duplicate (B1H724) results are within contractual requirements.

Liquid Scintillation Counting

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

The LCS, batch blank, samples, sample duplicate (B1HD35), and sample matrix spike (B1HJW8) results are within contractual requirements.

Technetium-99 by method RICH-RC-5078:

The LCS, batch blank, samples, sample duplicate (B1HCT8), and sample matrix spike (B1HCP5) results are within contractual requirements.

Tritium by method RICH-RC-5007:

The LCS, batch blank, samples and sample duplicate (B1H7B2) results are within contractual requirements.

Pacific Northwest National Laboratories
March 31, 2006

Total Uranium

Total Uranium by method RICH-RC-5058:

The LCS, batch blank, samples, sample duplicate (B1HCT8), and sample matrix spike (B1HCP5) 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:

Hans Carman
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: 31800 File Name: h:\Reportdb\edd\FeadIV\Rad\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.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:
9HW87510	B1H7B2		MW6-SBB-A1	S06-001	W04866					02/10/2006 12:12

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6046244	H-3	10028-17-8	1.84E+02	pCi/L	1.4E+02	1.6E+02	U	3.36E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/03/200 04:16	I
6046277	I-129L	15046-84-1	1.73E-02	pCi/L	1.4E-01	1.4E-01	U	2.60E-01	97.8	I129LL_SEP_LEPS	3.9368E+00	L	03/27/200 12:21	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:
9HW88010	B1H6W9		MW6-SBB-A1	S06-001	W04866					02/10/2006 11:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6046244	H-3	10028-17-8	-6.87E+01	pCi/L	1.4E+02	1.5E+02	U	3.38E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/03/200 12:26	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HW88510	B1H778		MW6-SBB-A1	S06-001	W04866					02/10/2006 08:36

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6046244	H-3	10028-17-8	2.82E+04	pCi/L	5.7E+02	1.3E+03		3.38E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/03/200 13:47	I
6046262	ALPHA	12587-46-1	3.50E+00	pCi/L	1.3E+00	1.5E+00		1.40E+00	100.0	9310_ALPHABETA	2.023E-01	L	03/28/200 15:13	I
6046267	BETA	12587-47-2	1.15E+01	pCi/L	1.5E+00	2.1E+00		1.94E+00	100.0	9310_ALPHABETA	2.031E-01	L	03/28/200 13:45	I
6046270	BE-7	13966-02-4	1.07E+01	pCi/L	2.0E+01	2.0E+01	U	3.93E+01		GAMMALL_GS	1.9997E+00	L	03/28/200 19:55	I
6046270	CO-60	10198-40-0	2.49E+00	pCi/L	1.9E+00	1.9E+00	U	4.25E+00		GAMMALL_GS	1.9997E+00	L	03/28/200 19:55	I
6046270	CS-134	13967-70-9	-3.04E-01	pCi/L	1.6E+00	1.6E+00	U	2.80E+00		GAMMALL_GS	1.9997E+00	L	03/28/200 19:55	I
6046270	CS-137	10045-97-3	5.49E-01	pCi/L	1.4E+00	1.4E+00	U	2.80E+00		GAMMALL_GS	1.9997E+00	L	03/28/200 19:55	I
6046270	EU-152	14683-23-9	-7.42E-02	pCi/L	3.8E+00	3.8E+00	U	6.74E+00		GAMMALL_GS	1.9997E+00	L	03/28/200 19:55	I
6046270	EU-154	15585-10-1	7.45E-01	pCi/L	4.4E+00	4.4E+00	U	8.92E+00		GAMMALL_GS	1.9997E+00	L	03/28/200 19:55	I
6046270	EU-155	14391-16-3	2.29E+00	pCi/L	2.7E+00	2.7E+00	U	5.46E+00		GAMMALL_GS	1.9997E+00	L	03/28/200 19:55	I
6046270	K-40	13966-00-2	-4.67E+00	pCi/L	3.2E+01	3.2E+01	U	7.05E+01		GAMMALL_GS	1.9997E+00	L	03/28/200 19:55	I
6046270	RU-106	13967-48-1	-4.31E+00	pCi/L	1.4E+01	1.4E+01	U	2.44E+01		GAMMALL_GS	1.9997E+00	L	03/28/200 19:55	I
6046270	SB-125	14234-35-6	-1.12E+00	pCi/L	3.8E+00	3.8E+00	U	6.75E+00		GAMMALL_GS	1.9997E+00	L	03/28/200 19:55	I
6046277	I-129L	15046-84-1	8.87E-01	pCi/L	8.8E-01	8.8E-01	U	7.14E-01	97.3	I129LL_SEP_LEPS	3.9113E+00	L	03/27/200 14:25	I
6046272	SR-90	10098-97-2	2.15E-01	pCi/L	2.0E-01	2.1E-01	U	4.20E-01	82.7	SRISO_SEP_PRE	9.987E-01	L	03/26/200 08:22	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HW88C10	B1HF69		MW6-SBB-A1	S06-002	W04866					02/10/2006 07:30

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

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 31800 File Name: h:\Reportdb\edd\FeadIV\Rad\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6046244	H-3	10028-17-8	-7.37E+01	pCi/L	1.3E+02	1.5E+02	U	3.38E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/03/200 06:59	I
6046262	ALPHA	12587-46-1	1.48E-01	pCi/L	3.2E-01	3.2E-01	U	7.08E-01	100.0	9310_ALPHABETA	2.003E-01	L	03/28/200 15:13	I
6046267	BETA	12587-47-2	1.33E+00	pCi/L	9.4E-01	9.6E-01	U	1.78E+00	100.0	9310_ALPHABETA	2.031E-01	L	03/28/200 13:45	I
6046270	BE-7	13966-02-4	6.16E+00	pCi/L	2.9E+01	2.9E+01	U	5.41E+01		GAMMALL_GS	2.0033E+00	L	03/28/200 19:01	I
6046270	CO-60	10198-40-0	6.08E-01	pCi/L	2.3E+00	2.3E+00	U	4.75E+00		GAMMALL_GS	2.0033E+00	L	03/28/200 19:01	I
6046270	CS-134	13967-70-9	6.44E-01	pCi/L	2.1E+00	2.1E+00	U	4.14E+00		GAMMALL_GS	2.0033E+00	L	03/28/200 19:01	I
6046270	CS-137	10045-97-3	-1.26E-01	pCi/L	2.0E+00	2.0E+00	U	3.69E+00		GAMMALL_GS	2.0033E+00	L	03/28/200 19:01	I
6046270	EU-152	14683-23-9	2.93E-01	pCi/L	5.4E+00	5.4E+00	U	9.81E+00		GAMMALL_GS	2.0033E+00	L	03/28/200 19:01	I
6046270	EU-154	15585-10-1	2.77E+00	pCi/L	6.1E+00	6.1E+00	U	1.30E+01		GAMMALL_GS	2.0033E+00	L	03/28/200 19:01	I
6046270	EU-155	14391-16-3	5.39E+00	pCi/L	5.0E+00	5.0E+00	U	9.84E+00		GAMMALL_GS	2.0033E+00	L	03/28/200 19:01	I
6046270	K-40	13966-00-2	-3.62E+01	pCi/L	3.5E+01	3.5E+01	U	7.07E+01		GAMMALL_GS	2.0033E+00	L	03/28/200 19:01	I
6046270	RU-106	13967-48-1	-4.52E+00	pCi/L	2.0E+01	2.0E+01	U	3.61E+01		GAMMALL_GS	2.0033E+00	L	03/28/200 19:01	I
6046270	SB-125	14234-35-6	-7.85E-01	pCi/L	5.4E+00	5.4E+00	U	9.50E+00		GAMMALL_GS	2.0033E+00	L	03/28/200 19:01	I
6046280	I-129L	15046-84-1	-1.61E-01	pCi/L	1.6E-01	1.6E-01	U	2.52E-01	94.1	I129_SEP_LEPS_G	3.9399E+00	L	03/29/200 12:44	I
6046272	SR-90	10098-97-2	-1.68E-02	pCi/L	1.1E-01	2.3E-01	U	5.24E-01	69.0	SRISO_SEP_PRE	1.0102E+00	L	03/26/200 08:22	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HW88G10	B1HF51		MW6-SBB-A1	S06-002	W04866					02/10/2006 09:24

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6046244	H-3	10028-17-8	3.64E+04	pCi/L	6.4E+02	1.6E+03		3.37E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/03/200 08:21	I
6046262	ALPHA	12587-46-1	5.52E+00	pCi/L	1.7E+00	2.0E+00		1.30E+00	100.0	9310_ALPHABETA	2.065E-01	L	03/28/200 15:13	I
6046267	BETA	12587-47-2	1.22E+01	pCi/L	1.5E+00	2.8E+00		1.98E+00	100.0	9310_ALPHABETA	1.972E-01	L	03/28/200 13:45	I
6046270	BE-7	13966-02-4	8.92E+00	pCi/L	2.7E+01	2.7E+01	U	4.93E+01		GAMMALL_GS	2.0073E+00	L	03/28/200 19:02	I
6046270	CO-60	10198-40-0	9.47E-01	pCi/L	2.4E+00	2.4E+00	U	4.67E+00		GAMMALL_GS	2.0073E+00	L	03/28/200 19:02	I
6046270	CS-134	13967-70-9	3.29E-01	pCi/L	2.1E+00	2.1E+00	U	3.93E+00		GAMMALL_GS	2.0073E+00	L	03/28/200 19:02	I
6046270	CS-137	10045-97-3	1.30E+00	pCi/L	2.1E+00	2.1E+00	U	4.07E+00		GAMMALL_GS	2.0073E+00	L	03/28/200 19:02	I
6046270	EU-152	14683-23-9	-8.48E+00	pCi/L	6.9E+00	6.9E+00	U	8.90E+00		GAMMALL_GS	2.0073E+00	L	03/28/200 19:02	I
6046270	EU-154	15585-10-1	2.99E+00	pCi/L	6.2E+00	6.2E+00	U	1.24E+01		GAMMALL_GS	2.0073E+00	L	03/28/200 19:02	I
6046270	EU-155	14391-16-3	-1.31E+00	pCi/L	5.8E+00	5.8E+00	U	1.01E+01		GAMMALL_GS	2.0073E+00	L	03/28/200 19:02	I
6046270	K-40	13966-00-2	-2.42E+00	pCi/L	6.7E+01	6.7E+01	U	1.49E+02		GAMMALL_GS	2.0073E+00	L	03/28/200 19:02	I
6046270	RU-106	13967-48-1	1.65E+01	pCi/L	1.9E+01	1.9E+01	U	3.72E+01		GAMMALL_GS	2.0073E+00	L	03/28/200 19:02	I
6046270	SB-125	14234-35-6	1.39E+00	pCi/L	5.2E+00	5.2E+00	U	9.50E+00		GAMMALL_GS	2.0073E+00	L	03/28/200 19:02	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.

6046280	I-129L	15046-84-1	1.87E+00	pCi/L	3.9E-01	3.9E-01	U	6.85E-01	96.8	I129_SEP_LEPS_G	3.9374E+00	L	03/29/200	14:26	I
6046272	SR-90	10098-97-2	5.60E-02	pCi/L	1.4E-01	2.3E-01	U	5.05E-01	73.5	SRISO_SEP_PRE	1.016E+00	L	03/26/200	08:22	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HW88P10	B1H736		MW6-SBB-A1	S06-001	W04866					02/10/2006 13:08

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
6046244	H-3	10028-17-8	2.13E+04	pCi/L	5.0E+02	1.0E+03		3.36E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/03/200	09:42	I
6046262	ALPHA	12587-46-1	3.14E+00	pCi/L	1.3E+00	1.5E+00		1.16E+00	100.0	9310_ALPHABETA	2.005E-01	L	03/28/200	15:13	I
6046267	BETA	12587-47-2	2.98E+01	pCi/L	2.1E+00	4.3E+00		2.07E+00	100.0	9310_ALPHABETA	2.012E-01	L	03/28/200	13:45	I
6046270	BE-7	13966-02-4	2.30E+01	pCi/L	1.7E+01	1.7E+01	U	3.64E+01		GAMMALL_GS	2.0115E+00	L	03/28/200	19:54	I
6046270	CO-60	10198-40-0	8.37E-01	pCi/L	1.8E+00	1.8E+00	U	3.78E+00		GAMMALL_GS	2.0115E+00	L	03/28/200	19:54	I
6046270	CS-134	13967-70-9	1.46E-01	pCi/L	1.5E+00	1.5E+00	U	2.89E+00		GAMMALL_GS	2.0115E+00	L	03/28/200	19:54	I
6046270	CS-137	10045-97-3	4.07E-01	pCi/L	2.2E+00	2.2E+00	U	4.60E+00		GAMMALL_GS	2.0115E+00	L	03/28/200	19:54	I
6046270	EU-152	14683-23-9	2.10E+00	pCi/L	3.2E+00	3.2E+00	U	6.45E+00		GAMMALL_GS	2.0115E+00	L	03/28/200	19:54	I
6046270	EU-154	15585-10-1	1.81E+00	pCi/L	4.1E+00	4.1E+00	U	8.72E+00		GAMMALL_GS	2.0115E+00	L	03/28/200	19:54	I
6046270	EU-155	14391-16-3	-2.97E-01	pCi/L	2.7E+00	2.7E+00	U	5.03E+00		GAMMALL_GS	2.0115E+00	L	03/28/200	19:54	I
6046270	K-40	13966-00-2	-5.05E+00	pCi/L	3.0E+01	3.0E+01	U	6.93E+01		GAMMALL_GS	2.0115E+00	L	03/28/200	19:54	I
6046270	RU-106	13967-48-1	-1.15E+01	pCi/L	1.4E+01	1.4E+01	U	2.23E+01		GAMMALL_GS	2.0115E+00	L	03/28/200	19:54	I
6046270	SB-125	14234-35-6	-1.36E+00	pCi/L	3.8E+00	3.8E+00	U	6.51E+00		GAMMALL_GS	2.0115E+00	L	03/28/200	19:54	I
6046277	I-129L	15046-84-1	2.82E-01	pCi/L	2.3E-01	2.3E-01	U	3.48E-01	97.8	I129LL_SEP_LEPS	4.0029E+00	L	03/27/200	12:21	I
6046281	PU-238	13981-16-3	-8.24E-03	pCi/L	1.6E-02	1.7E-02	U	1.97E-01	80.1	PUISO_PLATE_AE	1.994E-01	L	03/29/200	15:23	I
6046281	PU-239	PU-239/240	2.47E-02	pCi/L	8.6E-02	8.6E-02	U	2.33E-01	80.1	PUISO_PLATE_AE	1.994E-01	L	03/29/200	15:23	I
6046272	SR-90	10098-97-2	1.33E-01	pCi/L	2.4E-01	2.4E-01	U	5.08E-01	78.6	SRISO_SEP_PRE	1.0091E+00	L	03/26/200	08:22	I
6046284	TC-99	14133-76-7	9.30E+01	pCi/L	6.8E+00	1.2E+01		1.03E+01	100.0	TC99_ETVDSK_LS	1.272E-01	L	03/28/200	23:11	I
6046298	Uranium	7440-61-1	5.56E+00	ug/L	6.5E-01	6.5E-01		7.41E-02		UTOT_KPA	2.83E-02	ML	03/29/200	15:59	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:
9HW88W10	B1H6X3		MW6-SBB-A1	S06-001	W04866					02/10/2006 09:47

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
6046244	H-3	10028-17-8	7.51E+00	pCi/L	1.4E+02	1.5E+02	U	3.36E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/03/200	11:04	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:
9HW89H10	B1H794		MW6-SBB-A1	S06-001	W04866					02/10/2006 11:02

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

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 31800 File Name: h:\Reportdb\edd\FeadIV\Rad\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6046244	H-3	10028-17-8	1.65E+04	pCi/L	4.5E+02	8.4E+02		3.38E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/03/200 19:15	I
6046262	ALPHA	12587-46-1	3.38E+00	pCi/L	1.4E+00	1.5E+00		1.35E+00	100.0	9310_ALPHABETA	1.84E-01	L	03/28/200 15:13	I
6046267	BETA	12587-47-2	1.31E+01	pCi/L	1.6E+00	2.4E+00		2.17E+00	100.0	9310_ALPHABETA	1.797E-01	L	03/28/200 13:45	I
6046270	BE-7	13966-02-4	-9.93E+00	pCi/L	3.0E+01	3.0E+01	U	5.24E+01		GAMMALL_GS	2.0021E+00	L	03/28/200 21:46	I
6046270	CO-60	10198-40-0	2.65E+00	pCi/L	2.8E+00	2.8E+00	U	6.02E+00		GAMMALL_GS	2.0021E+00	L	03/28/200 21:46	I
6046270	CS-134	13967-70-9	6.39E-01	pCi/L	2.3E+00	2.3E+00	U	4.55E+00		GAMMALL_GS	2.0021E+00	L	03/28/200 21:46	I
6046270	CS-137	10045-97-3	-1.95E-01	pCi/L	2.2E+00	2.2E+00	U	3.99E+00		GAMMALL_GS	2.0021E+00	L	03/28/200 21:46	I
6046270	EU-152	14683-23-9	-1.23E+00	pCi/L	5.0E+00	5.0E+00	U	8.85E+00		GAMMALL_GS	2.0021E+00	L	03/28/200 21:46	I
6046270	EU-154	15585-10-1	2.30E+00	pCi/L	7.0E+00	7.0E+00	U	1.41E+01		GAMMALL_GS	2.0021E+00	L	03/28/200 21:46	I
6046270	EU-155	14391-16-3	2.61E+00	pCi/L	5.8E+00	5.8E+00	U	1.06E+01		GAMMALL_GS	2.0021E+00	L	03/28/200 21:46	I
6046270	K-40	13966-00-2	-2.62E+01	pCi/L	3.2E+01	3.2E+01	U	6.94E+01		GAMMALL_GS	2.0021E+00	L	03/28/200 21:46	I
6046270	RU-106	13967-48-1	7.71E+00	pCi/L	2.0E+01	2.0E+01	U	3.78E+01		GAMMALL_GS	2.0021E+00	L	03/28/200 21:46	I
6046270	SB-125	14234-35-6	1.02E-01	pCi/L	5.3E+00	5.3E+00	U	9.44E+00		GAMMALL_GS	2.0021E+00	L	03/28/200 21:46	I
6046272	SR-90	10098-97-2	4.10E-02	pCi/L	1.3E-01	3.3E-01	U	7.36E-01	49.0	SRISO_SEP_PRE	1.0018E+00	L	03/26/200 08:23	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:
9HXD3410	B1HD35		MW6-SBB-A1	W06-002	W04866					02/13/2006 13:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6046244	H-3	10028-17-8	1.73E+03	pCi/L	1.9E+02	2.3E+02		3.38E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/04/200 00:42	I
6046284	TC-99	14133-76-7	7.61E+01	pCi/L	6.5E+00	1.1E+01		1.04E+01	100.0	TC99_ETVDSK_LS	1.256E-01	L	03/29/200 01:16	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HXD3610	B1HJW8		MW6-SBB-A1	W06-002	W04866					02/13/2006 13:02

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6046244	H-3	10028-17-8	9.52E+03	pCi/L	3.5E+02	5.5E+02		3.34E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/04/200 02:03	I
6046284	TC-99	14133-76-7	1.76E+02	pCi/L	8.4E+00	1.8E+01		1.03E+01	100.0	TC99_ETVDSK_LS	1.267E-01	L	03/29/200 03:21	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:
9HXD3710	B1HD43		MW6-SBB-A1	W06-002	W04866					02/13/2006 10:13

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6046244	H-3	10028-17-8	3.58E+03	pCi/L	2.4E+02	3.1E+02		3.41E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/04/200 03:25	I
6046284	TC-99	14133-76-7	1.21E+03	pCi/L	1.9E+01	8.5E+01		1.02E+01	100.0	TC99_ETVDSK_LS	1.296E-01	L	03/29/200 05:26	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: 31800 File Name: h:\Reportdb\edd\FeadIV\Rad\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.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:
9HXD3910	B1HD81		MW6-SBB-A1	W06-002	W04866					02/13/2006 11:53

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6046244	H-3	10028-17-8	4.61E+03	pCi/L	2.6E+02	3.5E+02		3.37E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/04/200 04:47	I
6046284	TC-99	14133-76-7	1.71E+02	pCi/L	8.3E+00	1.7E+01		1.03E+01	100.0	TC99_ETVDSK_LS	1.273E-01	L	03/29/200 06:29	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HXD3M10	B1HCT8		MW6-SBB-A1	W06-002	W04866					02/13/2006 13:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6046244	H-3	10028-17-8	1.45E+04	pCi/L	4.2E+02	7.6E+02		3.36E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/03/200 20:37	I
6046267	BETA	12587-47-2	7.10E+01	pCi/L	2.9E+00	1.2E+01		1.83E+00	100.0	9310_ALPHABETA	2.02E-01	L	03/28/200 13:45	I
6046282	TC-99	14133-76-7	4.31E+02	pCi/L	1.2E+01	3.1E+01		9.91E+00	100.0	TC99_SEP_LSC	1.262E-01	L	03/29/200 19:15	I
6046298	Uranium	7440-61-1	5.34E+00	ug/L	6.3E-01	6.3E-01		8.32E-02		UTOT_KPA	2.52E-02	ML	03/29/200 16:00	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:
9HXD3Q10	B1HCP5		MW6-SBB-A1	W06-002	W04866					02/13/2006 12:14

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6046244	H-3	10028-17-8	1.67E+03	pCi/L	1.9E+02	2.3E+02		3.40E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/03/200 21:58	I
6046282	TC-99	14133-76-7	3.81E+01	pCi/L	5.3E+00	7.9E+00		9.96E+00	100.0	TC99_SEP_LSC	1.253E-01	L	03/29/200 19:15	I
6046298	Uranium	7440-61-1	2.84E+00	ug/L	2.9E-01	2.9E-01		7.57E-02		UTOT_KPA	2.77E-02	ML	03/29/200 16:04	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:
9HXD3T10	B1HCR7		MW6-SBB-A1	W06-002	W04866					02/13/2006 11:25

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6046244	H-3	10028-17-8	1.13E+04	pCi/L	3.8E+02	6.3E+02		3.39E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/03/200 23:20	I
6046262	ALPHA	12587-46-1	6.41E+01	pCi/L	7.5E+00	1.5E+01		2.71E+00	100.0	9310_ALPHABETA	8.00E-02	L	03/28/200 17:20	I
6046267	BETA	12587-47-2	2.13E+03	pCi/L	2.2E+01	2.7E+02		4.01E+00	100.0	9310_ALPHABETA	1.00E-01	L	03/28/200 13:45	I
6046270	BE-7	13966-02-4	-8.19E+00	pCi/L	1.8E+01	1.8E+01	U	3.23E+01		GAMMALL_GS	2.0051E+00	L	03/28/200 21:47	I
6046270	CO-60	10198-40-0	3.79E+01	pCi/L	7.9E+00	7.9E+00		3.72E+00		GAMMALL_GS	2.0051E+00	L	03/28/200 21:47	I
6046270	CS-134	13967-70-9	6.36E-01	pCi/L	2.1E+00	2.1E+00	U	3.90E+00		GAMMALL_GS	2.0051E+00	L	03/28/200 21:47	I
6046270	CS-137	10045-97-3	1.43E-02	pCi/L	2.4E+00	2.4E+00	U	4.83E+00		GAMMALL_GS	2.0051E+00	L	03/28/200 21:47	I
6046270	EU-152	14683-23-9	5.44E-01	pCi/L	3.8E+00	3.8E+00	U	7.11E+00		GAMMALL_GS	2.0051E+00	L	03/28/200 21:47	I
6046270	EU-154	15585-10-1	-6.01E-01	pCi/L	5.1E+00	5.1E+00	U	9.60E+00		GAMMALL_GS	2.0051E+00	L	03/28/200 21:47	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.

6046270	EU-155	14391-16-3	-7.41E-01	pCi/L	3.6E+00	3.6E+00	U	6.49E+00		GAMMALL_GS	2.0051E+00	L	03/28/200	21:47	I
6046270	K-40	13966-00-2	-1.15E+01	pCi/L	3.4E+01	3.4E+01	U	7.28E+01		GAMMALL_GS	2.0051E+00	L	03/28/200	21:47	I
6046270	RU-106	13967-48-1	7.25E+00	pCi/L	1.7E+01	1.7E+01	U	3.13E+01		GAMMALL_GS	2.0051E+00	L	03/28/200	21:47	I
6046270	SB-125	14234-35-6	-1.16E+00	pCi/L	3.3E+00	3.3E+00	U	5.73E+00		GAMMALL_GS	2.0051E+00	L	03/28/200	21:47	I
6046284	TC-99	14133-76-7	1.02E+04	pCi/L	5.6E+01	6.7E+02		1.04E+01	100.0	TC99_ETVDSK_LS	1.28E-01	L	03/29/200	00:14	I
6046298	Uranium	7440-61-1	1.99E+02	ug/L	2.3E+01	2.3E+01		7.01E-02		UTOT_KPA	2.99E-02	ML	03/29/200	16:10	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:
9HXD4010	B1H724		MW6-SBB-A1	S06-001	W04866					02/13/2006 10:09

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
6046244	H-3	10028-17-8	1.86E+02	pCi/L	1.4E+02	1.6E+02	U	3.36E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/04/200	10:14	I
6046277	I-129L	15046-84-1	8.92E-02	pCi/L	1.3E-01	1.3E-01	U	2.56E-01	97.3	I129LL_SEP_LEPS	3.9894E+00	L	03/27/200	14:26	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HXD4C10	B1HCN4		MW6-SBB-A1	W06-002	W04866					02/13/2006 10:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
6046244	H-3	10028-17-8	1.39E+04	pCi/L	4.1E+02	7.3E+02		3.37E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/04/200	06:09	I
6046282	TC-99	14133-76-7	6.11E+01	pCi/L	5.9E+00	9.2E+00		9.98E+00	100.0	TC99_SEP_LSC	1.254E-01	L	03/29/200	19:15	I
6046298	Uranium	7440-61-1	6.04E+00	ug/L	7.1E-01	7.1E-01		7.06E-02		UTOT_KPA	2.97E-02	ML	03/29/200	16:13	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:
9HXD4E10	B1HD15		MW6-SBB-A1	W06-002	W04866					02/13/2006 11:28

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
6046244	H-3	10028-17-8	1.46E+04	pCi/L	4.2E+02	7.6E+02		3.34E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/04/200	08:52	I
6046282	TC-99	14133-76-7	8.51E+01	pCi/L	6.3E+00	1.0E+01		9.70E+00	100.0	TC99_SEP_LSC	1.284E-01	L	03/29/200	19:15	I
6046298	Uranium	7440-61-1	5.32E+00	ug/L	5.4E-01	5.4E-01		8.22E-02		UTOT_KPA	2.55E-02	ML	03/29/200	16:16	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HXD4H10	B1H5Y9		MW6-SBB-A1	W06-001	W04866					02/13/2006 09:53

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
6046262	ALPHA	12587-46-1	1.80E+00	pCi/L	1.1E+00	1.1E+00		1.34E+00	100.0	9310_ALPHABETA	2.039E-01	L	03/28/200	17:20	I
6046267	BETA	12587-47-2	1.45E+01	pCi/L	1.9E+00	2.6E+00		2.45E+00	100.0	9310_ALPHABETA	1.498E-01	L	03/28/200	13:45	I

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

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

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 31800 File Name: h:\Reportdb\edd\FeadIV\Rad\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

9HXD4M10 B1H5Y5 MW6-SBB-A1 W06-001 W04866 02/13/2006 10:09

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6046262	ALPHA	12587-46-1	2.71E+00	pCi/L	1.5E+00	1.6E+00		1.59E+00	100.0	9310_ALPHABETA	1.453E-01	L	03/28/200 17:20	I
6046267	BETA	12587-47-2	8.76E+00	pCi/L	1.7E+00	2.1E+00		2.67E+00	100.0	9310_ALPHABETA	1.55E-01	L	03/28/200 13:45	I

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

Friday, March 31, 2006

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id: HXG0H1AB **Sdg/Rept Nbr:** W04866 31800 **Collection Date:** 02/13/2006 13:00

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 02/13/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6046298	Uranium	7.70E-02	ug/L	7.9E-03	U	8.38E-02			UTOT_KPA	2.50E-02	03/29/2006				D
BLK	7440-61-1			7.9E-03						ML	15:50				

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

Friday, March 31, 2006

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id: HXGTA1AB **Sdg/Rept Nbr:** W04866 31800 **Collection Date:** 02/10/2006 12:12

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 02/10/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6046244	H-3	1.09E+01	pCi/L	1.5E+02	U	3.33E+02	100.0		906.0_H3_LSC	5.00E-03	03/03/2006				D
BLK	10028-17-8			1.4E+02						L	01:32				

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

Friday, March 31, 2006

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id: HXGTA1DX **Sdg/Rept Nbr:** W04866 31800 **Collection Date:** 02/10/2006 12:12

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 02/10/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6046244	H-3	-2.61E+01	pCi/L	1.5E+02	U	3.45E+02	100.0		906.0_H3_LSC	5.00E-03	03/03/2006				D
BLK	10028-17-8			1.4E+02						L	16:31				

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\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id:	HXGW01AB	**Sdg/Rept Nbr:**	W04866 31800	**Collection Date:**	02/13/2006 09:53
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	02/13/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6046267	BETA	4.48E-02	pCi/L	9.0E-01	U	1.83E+00	100.0		9310_ALPHAB	2.04E-01	03/28/2006				D
BLK	12587-47-2			9.0E-01						L	13:45				

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

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id: HXGW11AB **Sdg/Rept Nbr:** W04866 31800 **Collection Date:** 02/10/2006 08:36

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 02/10/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6046270	BE-7	-5.20E+00	pCi/L	1.7E+01	U	3.08E+01			GAMMALL_GS	2.0018E+00	03/28/2006				D
BLK	13966-02-4			1.7E+01						L	21:47				
6046270	CO-60	-1.00E+00	pCi/L	1.8E+00	U	3.11E+00			GAMMALL_GS	2.0018E+00	03/28/2006				D
BLK	10198-40-0			1.8E+00						L	21:47				
6046270	CS-134	7.40E-01	pCi/L	1.9E+00	U	3.57E+00			GAMMALL_GS	2.0018E+00	03/28/2006				D
BLK	13967-70-9			1.9E+00						L	21:47				
6046270	CS-137	2.15E-01	pCi/L	1.3E+00	U	2.51E+00			GAMMALL_GS	2.0018E+00	03/28/2006				D
BLK	10045-97-3			1.3E+00						L	21:47				
6046270	EU-152	-8.48E-01	pCi/L	4.0E+00	U	6.92E+00			GAMMALL_GS	2.0018E+00	03/28/2006				D
BLK	14683-23-9			4.0E+00						L	21:47				
6046270	EU-154	9.96E-01	pCi/L	4.0E+00	U	8.35E+00			GAMMALL_GS	2.0018E+00	03/28/2006				D
BLK	15585-10-1			4.0E+00						L	21:47				
6046270	EU-155	1.49E+00	pCi/L	3.1E+00	U	5.92E+00			GAMMALL_GS	2.0018E+00	03/28/2006				D
BLK	14391-16-3			3.1E+00						L	21:47				
6046270	K-40	1.26E+01	pCi/L	3.4E+01	U	7.51E+01			GAMMALL_GS	2.0018E+00	03/28/2006				D
BLK	13966-00-2			3.4E+01						L	21:47				
6046270	RU-106	-1.29E+00	pCi/L	1.4E+01	U	2.53E+01			GAMMALL_GS	2.0018E+00	03/28/2006				D
BLK	13967-48-1			1.4E+01						L	21:47				
6046270	SB-125	1.79E+00	pCi/L	3.7E+00	U	7.16E+00			GAMMALL_GS	2.0018E+00	03/28/2006				D
BLK	14234-35-6			3.7E+00						L	21:47				

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

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id: HXGW51AB **Sdg/Rept Nbr:** W04866 31800 **Collection Date:** 02/10/2006 11:02

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 02/10/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6046272	SR-90	1.42E-01	pCi/L	2.9E-01	U	6.13E-01	57.5		SRISO_SEP_P	9.981E-01	03/26/2006				D
BLK	10098-97-2			2.9E-01						L	08:23				

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\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id: HXGW91AB **Sdg/Rept Nbr:** W04866 31800 **Collection Date:** 02/13/2006 10:09

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 02/13/2006

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
6046277	I-129L	-3.66E-02	pCi/L	9.8E-02	U	1.76E-01	96.8		I129LL_SEP_L	4.1776E+00	03/27/2006				D
BLK	15046-84-1			9.8E-02						L	17:16				

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

Friday, March 31, 2006

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id: HXGWQ1AB **Sdg/Rept Nbr:** W04866 31800 **Collection Date:** 02/13/2006 10:09

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 02/13/2006

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
6046262	ALPHA	-1.74E-01	pCi/L	9.6E-02	U	6.25E-01	100.0		9310_ALPHAB	2.009E-01	03/28/2006				D
BLK	12587-46-1			9.0E-02						L	17:20				

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

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id: HXGXF1AB **Sdg/Rept Nbr:** W04866 31800 **Collection Date:** 02/10/2006 07:30

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 02/10/2006

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
6046280	I-129L	6.48E-02	pCi/L	1.2E-01	U	2.42E-01	94.6		I129_SEP_LEP	3.9152E+00	03/29/2006				D
BLK	15046-84-1			1.2E-01						L	14:27				

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\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id: HXGXH1AB **Sdg/Rept Nbr:** W04866 31800 **Collection Date:** 02/10/2006 13:08
Client Id: NA **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** BLK **Received Date:** 02/10/2006

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
6046281	PU-238	2.45E-02	pCi/L	8.5E-02	U	2.31E-01	78.0		PUISO_PLATE	2.026E-01	03/29/2006				D
BLK	13981-16-3			8.5E-02						L	15:23				
6046281	PU-239	-8.16E-03	pCi/L	1.6E-02	U	1.95E-01	78.0		PUISO_PLATE	2.026E-01	03/29/2006				D
BLK	PU-239/240			1.6E-02						L	15:23				

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\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id:	HXGXM1AB	**Sdg/Rept Nbr:**	W04866 31800	**Collection Date:**	02/13/2006 13:00
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	02/13/2006

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
6046284	TC-99	1.35E+00	pCi/L	6.5E+00	U	1.04E+01	100.0		TC99_ETVDSK	1.268E-01	03/29/2006				D
BLK	14133-76-7			4.3E+00						L	07:32				

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\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id: HXG0H1CS **Sdg/Rept Nbr:** W04866 31800 **Collection Date:** 02/13/2006 13:00

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 02/13/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6046298	Uranium	3.24E+01	ug/L	3.8E+00		8.35E-02		3.63E+01	UTOT_KPA	2.51E-02	03/29/2006			70	D
BS	7440-61-1			3.8E+00				89.4		ML	15:53			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\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id:	HXG0H1DS	**Sdg/Rept Nbr:**	W04866	31800	**Collection Date:** 02/13/2006 13:00
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 02/13/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6046298	Uranium	3.09E+00	ug/L	3.2E-01		8.15E-02		3.50E+00	UTOT_KPA	2.57E-02	03/29/2006			70	D
BS	7440-61-1			3.2E-01				88.3		ML	15:55			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\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id: HXGTA1CS **Sdg/Rept Nbr:** W04866 31800 **Collection Date:** 02/10/2006 12:12

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 02/10/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6046244	H-3	2.72E+03	pCi/L	2.7E+02		3.33E+02	100.0	2.80E+03	906.0_H3_LSC	5.00E-03	03/03/2006			70	D
BS	10028-17-8			2.2E+02				97.1		L	02:54			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\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id: HXGTA1EM **Sdg/Rept Nbr:** W04866 31800 **Collection Date:** 02/10/2006 12:12

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 02/10/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6046244	H-3	2.60E+03	pCi/L	2.7E+02		3.43E+02	100.0	2.80E+03	906.0_H3_LSC	5.00E-03	03/03/2006			70	D
BS	10028-17-8			2.2E+02				93.0		L	17:53			130	

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

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id:	HXGW01CS	**Sdg/Rept Nbr:**	W04866 31800	**Collection Date:**	02/13/2006 09:53
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	02/13/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6046267	BETA	1.97E+01	pCi/L	3.2E+00		2.15E+00	100.0	2.24E+01	9310_ALPHAB	2.022E-01	03/28/2006			70	D
BS	12587-47-2			1.8E+00				87.9		L	13:45			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\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id: HXGW12CS **Sdg/Rept Nbr:** W04866 31800 **Collection Date:** 02/10/2006 08:36

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 02/10/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6046270	CO-60	3.83E+01	pCi/L	9.8E+00		4.65E+00		3.74E+01	GAMMALL_GS	2.0019E+00	03/30/2006			70	D
BS	10198-40-0			9.8E+00				102.5		L	07:43			130	
6046270	CS-137	2.66E+01	pCi/L	7.0E+00		4.95E+00		2.48E+01	GAMMALL_GS	2.0019E+00	03/30/2006			70	D
BS	10045-97-3			7.0E+00				107.0		L	07:43			130	
6046270	EU-152	9.62E+01	pCi/L	2.2E+01	U	2.87E+01		7.54E+01	GAMMALL_GS	2.0019E+00	03/30/2006			70	D
BS	14683-23-9			2.2E+01				127.7		L	07:43			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\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id: HXGW51CS **Sdg/Rept Nbr:** W04866 31800 **Collection Date:** 02/10/2006 11:02

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 02/10/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6046272	SR-90	1.50E+01	pCi/L	2.4E+00		5.47E-01	62.2	1.41E+01	SRISO_SEP_P	1.0039E+00	03/26/2006			70	D
BS	10098-97-2			9.5E-01				106.2		L	08:23			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\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id: HXGW91CS **Sdg/Rept Nbr:** W04866 31800 **Collection Date:** 02/13/2006 10:09

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 02/13/2006

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
6046277	I-129L	8.81E+00	pCi/L	1.1E+00		4.89E-01	96.6	9.81E+00	I129LL_SEP_L	3.9036E+00	03/27/2006			70	D
BS	15046-84-1			1.1E+00				89.8		L	19:02			130	

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

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id: HXGXH1CS **Sdg/Rept Nbr:** W04866 31800 **Collection Date:** 02/10/2006 13:08

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 02/10/2006

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
6046281	PU-239	6.25E+00	pCi/L	1.7E+00		1.17E-01	77.2	6.14E+00	PUISO_PLATE	2.00E-01	03/29/2006			70	D
BS	PU-239/240			1.0E+00				101.7		L	15:23			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\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id: HXGXJ1CS **Sdg/Rept Nbr:** W04866 31800 **Collection Date:** 02/13/2006 13:00

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 02/13/2006

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
6046282	TC-99	4.85E+02	pCi/L	3.4E+01		9.79E+00	100.0	5.28E+02	TC99_SEP_LS	1.279E-01	03/29/2006			70	D
BS	14133-76-7			1.2E+01				91.9		L	19:15			130	

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

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id: HXGXM1CS **Sdg/Rept Nbr:** W04866 31800 **Collection Date:** 02/13/2006 13:00

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 02/13/2006

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
6046284	TC-99	5.04E+02	pCi/L	3.9E+01		1.02E+01	100.0	5.35E+02	TC99_ETVDSK	1.268E-01	03/29/2006			70	D
BS	14133-76-7			1.3E+01				94.1		L	08:34			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\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id: HW8751DR **Sdg/Rept Nbr:** W04866 31800 **Collection Date:** 02/10/2006 12:12

Client Id: B1H7B2 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 02/10/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S06-001	MW6-SBB-A19981								AU	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6046244	H-3	1.40E+02	pCi/L	1.6E+02	U	3.36E+02	100.0		906.0_H3_LSC	5.00E-03	03/03/2006	26.9	0.4		D
DUP	10028-17-8	1.84E+02		1.4E+02						L	05:37	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\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id: HW8851JR **Sdg/Rept Nbr:** W04866 31800 **Collection Date:** 02/10/2006 08:36

Client Id: B1H778 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 02/10/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S06-001	MW6-SBB-A19981								AV	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6046270	BE-7	-1.33E+01	pCi/L	2.9E+01	U	4.86E+01			GAMMALL_GS	1.9106E+00	03/28/2006	0.0	1.2		D
DUP	13966-02-4	1.07E+01		2.9E+01						L	21:45	20.0	3		
6046270	CO-60	-4.09E-01	pCi/L	2.5E+00	U	4.61E+00			GAMMALL_GS	1.9106E+00	03/28/2006	278.8	1.6		D
DUP	10198-40-0	2.49E+00		2.5E+00						L	21:45	20.0	3		
6046270	CS-134	-2.79E-01	pCi/L	2.2E+00	U	3.99E+00			GAMMALL_GS	1.9106E+00	03/28/2006	0.0	0.		D
DUP	13967-70-9	-3.04E-01		2.2E+00						L	21:45	20.0	3		
6046270	CS-137	-1.31E+00	pCi/L	1.9E+00	U	3.11E+00			GAMMALL_GS	1.9106E+00	03/28/2006	0.0	1.4		D
DUP	10045-97-3	5.49E-01		1.9E+00						L	21:45	20.0	3		
6046270	EU-152	7.08E-01	pCi/L	6.1E+00	U	1.07E+01			GAMMALL_GS	1.9106E+00	03/28/2006	246.9	0.2		D
DUP	14683-23-9	-7.42E-02		6.1E+00						L	21:45	20.0	3		
6046270	EU-154	-2.36E+00	pCi/L	7.1E+00	U	1.25E+01			GAMMALL_GS	1.9106E+00	03/28/2006	0.0	0.6		D
DUP	15585-10-1	7.45E-01		7.1E+00						L	21:45	20.0	3		
6046270	EU-155	-2.83E+00	pCi/L	5.8E+00	U	9.99E+00			GAMMALL_GS	1.9106E+00	03/28/2006	0.0	1.2		D
DUP	14391-16-3	2.29E+00		5.8E+00						L	21:45	20.0	3		
6046270	K-40	-9.10E+01	pCi/L	6.6E+01	U	1.42E+02			GAMMALL_GS	1.9106E+00	03/28/2006	0.0	1.8		D
DUP	13966-00-2	-4.67E+00		6.6E+01						L	21:45	20.0	3		
6046270	RU-106	2.06E+01	pCi/L	2.1E+01	U	4.09E+01			GAMMALL_GS	1.9106E+00	03/28/2006	305.9	1.7		D
DUP	13967-48-1	-4.31E+00		2.1E+01						L	21:45	20.0	3		
6046270	SB-125	-6.99E-01	pCi/L	5.6E+00	U	9.80E+00			GAMMALL_GS	1.9106E+00	03/28/2006	0.0	0.1		D
DUP	14234-35-6	-1.12E+00		5.6E+00						L	21:45	20.0	3		

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

Friday, March 31, 2006

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id: HW88C1HR **Sdg/Rept Nbr:** W04866 31800 **Collection Date:** 02/10/2006 07:30

Client Id: B1HF69 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 02/10/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S06-002	MW6-SBB-A19981								AW	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6046280	I-129L	-7.13E-02	pCi/L	9.8E-02	U	1.64E-01	94.9		I129_SEP_LEP	3.9185E+00	03/29/2006	0.0	1.3		D
DUP	15046-84-1	-1.61E-01		9.8E-02						L	12:44	20.0	3		

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

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id: HW88P1LR **Sdg/Rept Nbr:** W04866 31800 **Collection Date:** 02/10/2006 13:08
Client Id: B1H736 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **Received Date:** 02/10/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S06-001	MW6-SBB-A19981								AX	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6046281	PU-238	0.00E+00	pCi/L	1.2E-01	U	1.36E-01	64.6		PUISO_PLATE	2.013E-01	03/29/2006	0.0	0.1		D
DUP	13981-16-3	-8.24E-03		1.2E-01						L	15:23	20.0	3		
6046281	PU-239	4.02E-02	pCi/L	1.0E-01	U	2.41E-01	64.6		PUISO_PLATE	2.013E-01	03/29/2006	47.7	0.2		D
DUP	PU-239/240	2.47E-02		1.0E-01						L	15:23	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\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id: HW88P1LR **Sdg/Rept Nbr:** W04866 31800 **Collection Date:** 02/10/2006 13:08

Client Id: B1H736 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 02/10/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S06-001	MW6-SBB-A19981								AX	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6046281	PU-238	0.00E+00	pCi/L	1.2E-01	U	1.36E-01	64.6		PUISO_PLATE	2.013E-01	03/29/2006	0.0	0.1		D
DUP	13981-16-3	-8.24E-03		1.2E-01						L	15:23	20.0	3		
6046281	PU-239	4.02E-02	pCi/L	1.0E-01	U	2.41E-01	64.6		PUISO_PLATE	2.013E-01	03/29/2006	47.7	0.2		D
DUP	PU-239/240	2.47E-02		1.0E-01						L	15:23	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\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id: HW89H1GR **Sdg/Rept Nbr:** W04866 31800 **Collection Date:** 02/10/2006 11:02

Client Id: B1H794 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 02/10/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S06-001	MW6-SBB-A19981								AY	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6046272	SR-90	1.59E-01	pCi/L	3.5E-01	U	7.48E-01	46.3		SRISO_SEP_P	1.0083E+00	03/26/2006	118.1	0.5		D
DUP	10098-97-2	4.10E-02		3.5E-01						L	08:23	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\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id: HXD341DR **Sdg/Rept Nbr:** W04866 31800 **Collection Date:** 02/13/2006 13:00
Client Id: B1HD35 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **Received Date:** 02/13/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W06-002	MW6-SBB-A19981								AZ	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6046284	TC-99	7.33E+01	pCi/L	1.1E+01		1.03E+01	100.0		TC99_ETVDSK	1.258E-01	03/29/2006	3.8	0.4		D
DUP	14133-76-7	7.61E+01		6.4E+00						L	02:19	20.0	3		

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

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id:	HXD3M1FR	**Sdg/Rept Nbr:**	W04866 31800	**Collection Date:**	02/13/2006 13:00
Client Id:	B1HCT8	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	02/13/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W06-002	MW6-SBB-A19981								BB	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6046282	TC-99	4.08E+02	pCi/L	2.9E+01		9.84E+00	100.0		TC99_SEP_LS	1.271E-01	03/29/2006	5.5	1.1		D
DUP	14133-76-7	4.31E+02		1.2E+01						L	19:15	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 Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id: HXD3M1GR **Sdg/Rept Nbr:** W04866 31800 **Collection Date:** 02/13/2006 13:00

Client Id: B1HCT8 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 02/13/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W06-002	MW6-SBB-A19981								BC	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6046298	Uranium	4.89E+00	ug/L	5.8E-01		7.62E-02			UTOT_KPA	2.75E-02	03/29/2006	8.9	1.1		D
DUP	7440-61-1	5.34E+00		5.8E-01						ML	16:02	20.0	3		

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

Friday, March 31, 2006

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id: HXD401DR **Sdg/Rept Nbr:** W04866 31800 **Collection Date:** 02/13/2006 10:09

Client Id: B1H724 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 02/13/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S06-001	MW6-SBB-A19981								BF	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6046277	I-129L	-1.34E-02	pCi/L	1.7E-01	U	2.93E-01	95.9		I129LL_SEP_L	3.8593E+00	03/27/2006	270.9	0.9		D
DUP	15046-84-1	8.92E-02		1.7E-01						L	17:15	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.

Friday, March 31, 2006

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id:	HXD4H1DR	**Sdg/Rept Nbr:**	W04866 31800	**Collection Date:**	02/13/2006 09:53
Client Id:	B1H5Y9	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	02/13/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W06-001	MW6-SBB-A19981								BG	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6046267	BETA	7.07E+00	pCi/L	1.9E+00		2.66E+00	100.0		9310_ALPHAB	1.492E-01	03/28/2006	68.8	5.6		D
DUP	12587-47-2	1.45E+01		1.7E+00						L	13:45	20.0	3		

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

Friday, March 31, 2006

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id:	HXD4M1DR	**Sdg/Rept Nbr:**	W04866	31800	**Collection Date:** 02/13/2006 10:09
Client Id:	B1H5Y5	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 02/13/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W06-001	MW6-SBB-A19981								BH	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6046262	ALPHA	2.23E+00	pCi/L	1.5E+00		2.12E+00	100.0		9310_ALPHAB	1.461E-01	03/28/2006	19.4	0.5		D
DUP	12587-46-1	2.71E+00		1.4E+00						L	17:20	20.0	3		

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

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id: HXD361DW **Sdg/Rept Nbr:** W04866 31800 **Collection Date:** 02/13/2006 13:02

Client Id: B1HJW8 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** MS **Received Date:** 02/13/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W06-002	MW6-SBB-A19981								BA	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6046284	TC-99	3.31E+03	pCi/L	2.3E+02		1.03E+01	100.0	3.53E+03	TC99_ETVDSK	1.275E-01	03/29/2006			60	D
MS	14133-76-7			3.3E+01				93.7		L	04:24			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\W04866.Edd, h:\Reportdb\edd\FeadIV\Rad\31800.Edd

Lab Sample Id: HXD3Q1FW **Sdg/Rept Nbr:** W04866 31800 **Collection Date:** 02/13/2006 12:14

Client Id: B1HCP5 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** MS **Received Date:** 02/13/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W06-002	MW6-SBB-A19981								BE	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6046298	Uranium	2.74E+01	ug/L	3.6E+00		7.70E-02		3.32E+01	UTOT_KPA	2.72E-02	03/29/2006			60	D
MS	7440-61-1			3.6E+00				82.8		ML	16:06			140	

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

3/30/2006 1:50:26 PM

Lot No., Due Date: J6B100332; 03/30/2006

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6046281; RPUISO Pulso by ALP

SDG, Matrix: W04866; 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. RPD > UCL : 20.0=> HW88P1AL PU-239 48.0 (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. No Positive Results OK	✓		
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => PU-238 PU-239 OK; No Callin Level Found => PU-238 PU-239	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		

8.25 Counting Spectrum are within FWHM Limits. FWHM > maxFWHM => HXGXH1AC PU-239 53.2>0 [illegible]V1	Yes	No ✓	N/A
8.26 Instruments have Current Calibrations.	Yes	No	N/A
8.27 Correct Count Library Used. Library Not Specified => HW88P1AG I:[NUC_LIBR]AR_PU Q: HW88P1AL I:[NUC_LIBR]AR_PU Q: HXGXH1AA I:[NUC_LIBR]AR_PU Q: HXGXH1AC I:[NUC_LIBR]AR_PU Q:	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 Pam Anderson **Date** 3-30-06

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6046281

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: [signature] Date: 3-31-06

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6046281

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: [signature] Date: 3-31-06

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

3/29/2006 10:16:41 AM

Lot No., Due Date: J6B100329,J6B100334,J6B100332,J6B140166; 03/30/2006

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6046277; RGAMLEPS Gamma by LEPS

SDG, Matrix: W04866; 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 Pam Anderson **Date** 3-29-06

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6046277

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: [signature] Date: 3-31-06

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

3/30/2006 1:56:36 PM

Lot No., Due Date: J6B100330; 03/30/2006

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6046280; RGAMLEPS Gamma by LEPS

SDG, Matrix: W04866; 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 Pam Anderson **Date** 3-30-06

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6046280

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: [signature] Date: 3-31-06

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

3/30/2006 10:31:13 AM

Lot No., Due Date: J6B100334,J6B100330,J6B100332,J6B140152; 03/30/2006

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6046270; RGAMMA Gamma by GER

SDG, Matrix: W04866; WATER

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

6.0 Comments on any No response:
See NCM. 10-07793

First Level Review Pam Anderson **Date** 3-30-06

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6046270

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: recounted the LCS

Second Level Review: [signature] Date: 3-31-06

Clouseau
Nonconformance Memo

SEVERN TRENT SERVICES

NCM #: **10-07793**
NCM Initiated By: Pam Anderson
Date Opened: 03/30/2006
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Sep
Tests: Gamma by GER
Lot #'s (Sample #'s): J6B100330 (1,2), J6B100332 (1), J6B100334 (1,2), J6B140152 (3), J6B150000 (270),
QC Batches: 6046270

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

Problem Description / Root Cause

Name	Date	Description
Pam Anderson	03/30/2006	The LCS had high recoveries on the first count. After recount the LCS recoveries are acceptable. Report the data.

Corrective Action

Name	Date	Corrective Action
Pam Anderson	03/30/2006	The LCS was recounted.

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

3/30/2006 [illegible] AM

Lot No., Due Date: J6B100334,J6B100330,J6B100332,J6B140152,J6B140159,J6B140164; 03/30/2006

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6046262; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W04866; 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 => HW89H1AC 184.00<200.00 HXD3T1AC 80.00<200.00 HXD4M1AA 145.30<200.00 Q:VB			
8.07 The Correct Count Geometry was Used. OK			
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK			
8.09 Method Blank is within Control Limits. OK			
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK			
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)			
8.14 LCS within Control Limits. OK			
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK			
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK			
8.19 Sample Specific MDC <= CRDL. 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 => HW88G1AC ALPHA 5.5E+00 L:1.3E+00 HW88P1AC ALPHA 3.1E+00 L:1.2E+00 HW8851AC ALPHA 3.5E+00 L:1.4E+00 HW89H1AC ALPHA 3.4E+00 L:1.3E+00 HXD3T1AC ALPHA 6.4E+01 L:2.7E+00 HXD4H1AA ALPHA 1.8E+00 L:1.3E+00 HXD4M1AA ALPHA 2.7E+00 L:1.6E+00			
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => ALPHA			

OK; No Callin Level Found => ALPHA

8.24 Result + 3s >=0, Not Too Negative. Y s N N/A

Result + 3s < 0 HXGWQ1AA ALPHA -3.0E-02

8.25 Counting Spectrum are within FWHM Limits. Y N N/A

No FWHM found in Batch Data!

8.26 Instruments have Current Calibrations. Y s N N/A

8.27 Correct Count Library Used. Y s N N/A

No Count Library found in Batch Data!

8.28 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later version Y s N N/A

8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later version Y N N/A

8.3 Comments:

8.31 Results Blank Subtracted as Appropriate. Y N N/A

OK

First Level Review Pam Anderson **Date** 3-30-04

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6046262

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: [signature] Date: 3-31-06

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

3/30/2006 8:08:03 AM

Lot No., Due Date: J6B100334,J6B100330,J6B100332,J6B140152,J6B140159,J6B140164; 03/30/2006

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6046267; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W04866; 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 => HW89H1AD 179.70<200.00 HXD3T1AD 100.00<200.00 HXD4H1AC 149.80<200.00 HXD4M1AC 155.00<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. RPD > UCL : 20.0=> HXD4H1AD BETA 69.0 (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 => HW88G1AD BETA 1.2E+01 L:2.0E+00 HW88P1AD BETA 3.0E+01 L:2.1E+00 HW8851AD BETA 1.2E+01 L:1.9E+00 HW89H1AD BETA 1.3E+01 L:2.2E+00 HXD3M1AC BETA 7.1E+01 L:1.8E+00 HXD3T1AD BETA 2.1E+03 L:4.0E+00 HXD4H1AC BETA 1.4E+01 L:2.5E+00 HXD4M1AC BETA 8.8E+00 L:2.7E+00		✓	

8.23 Result <= Action Level, when Defined. OK; No Action Level Found => BETA OK; No Callin Level Found => BETA	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 version	Yes	No	N/A
8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later version	Yes	No	N/A
8.3 Comments:			
8.31 Results Blank Subtracted as Appropriate. OK	Yes	No	N/A

First Level Review Pam Anderson **Date** 3·30·04

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6046267

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: [signature] Date: 3-31-06

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

3/29/2006 10:11:31 AM

Lot No., Due Date: J6B100334,J6B100330,J6B100332; 03/30/2006

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6046272; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W04866; 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. RPD > UCL : 20.0=> HW89H1AG SR-90 130.0 HW89H1AG SR-90 48.0 HW89H1AG SR-90 83.0 (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. No Positive Results OK	✓		
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => SR-90 OK; No Callin Level Found => SR-90	✓		
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 Pam Anderson **Date** 3-29-06

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6046272

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: [signature] Date: 3-31-06

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

3/30/2006 10:30:00 AM

Lot No., Due Date: J6B140152,J6B140156; 03/30/2006

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6046282; RTC99 Tc-99 by LSC

SDG, Matrix: W04866; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples Incorrect Tracer/Vial => HXD3Q1AE TCSG<>TCSE Q:V9		✓	
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used OK	✓		
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. OK	✓		
8.17 Tracer within Control Limits. No Tracers found in Batch!			✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!			✓
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK Calc_IDL Not Calculated	✓		
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => TC-99 OK; No Callin Level Found => TC-99	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

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 Pam Anderson **Date** 3-30-06

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6046282

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: [signature] Date: 3-31-06

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

3/30/2006 8:07:42 AM

Lot No., Due Date: J6B100332,J6B140156,J6B140152; 03/30/2006

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6046284; RTC99 Tc-99 by LSC

SDG, Matrix: W04866; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples Incorrect Tracer/Vial => HXD361AD TCSG<>TCSE Q:V9		✓	
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used OK	✓		
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. OK	✓		
8.17 Tracer within Control Limits. No Tracers found in Batch!			✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!			✓
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK Calc_IDL Not Calculated	✓		
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => TC-99 OK; No Callin Level Found => TC-99	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

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 Pam Anderson **Date** 3-30-06

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6046284

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: [signature] Date: 3-31-00

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

3/7/2006 3:18:41 PM

Lot No., Due Date: J6B100329,J6B100332,J6B100334,J6B100330,J6B140156,J6B140152,J6B140166; 03/30/2006

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6046244; RTRITIUM H-3 by LSC

SDG, Matrix: W04866; 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 => HW8751AA 5.00<10.00
HW88C1AA 5.00<10.00
HW88G1AA 5.00<10.00
HW88P1AA 5.00<10.00
HW88W1AA 5.00<10.00
HW8801AA 5.00<10.00
HW8851AA 5.00<10.00
HW89H1AA 5.00<10.00
HXD3M1AA 5.00<10.00
HXD3Q1AA 5.00<10.00
HXD3T1AA 5.00<10.00
HXD341AA 5.00<10.00
HXD361AA 5.00<10.00
HXD371AA 5.00<10.00
HXD391AA 5.00<10.00
HXD4C1AA 5.00<10.00
HXD4E1AA 5.00<10.00
HXD401AA 5.00<10.00 Q:VB

OK
PA 3-7-06

	Yes	No	N/A
8.07 The Correct Count Geometry was Used.		✓	

Count Geometry => HXGTA1AF SVP15/5<>SVP10/10
HXGTA1AG SVP15/5<>SVP10/10
HXGTA1AA SVP15/5<>SVP10/10
HXGTA1AC SVP15/5<>SVP10/10
HW8751AA SVP15/5<>SVP10/10
HW8751AD SVP15/5<>SVP10/10
HW88C1AA SVP15/5<>SVP10/10
HW88G1AA SVP15/5<>SVP10/10
HW88P1AA SVP15/5<>SVP10/10
HW88W1AA SVP15/5<>SVP10/10
HW8801AA SVP15/5<>SVP10/10
HW8851AA SVP15/5<>SVP10/10
HXGTA1AH SVP15/5<>SVP10/10
HXGTA1AD SVP15/5<>SVP10/10
HXGTA1AE SVP15/5<>SVP10/10
HW89H1AA SVP15/5<>SVP10/10
HXD3M1AA SVP15/5<>SVP10/10
HXD3Q1AA SVP15/5<>SVP10/10
HXD3T1AA SVP15/5<>SVP10/10
HXD341AA SVP15/5<>SVP10/10
HXD361AA SVP15/5<>SVP10/10
HXD371AA SVP15/5<>SVP10/10
HXD391AA SVP15/5<>SVP10/10
HXD4C1AA SVP15/5<>SVP10/10
HXGTA1AJ SVP15/5<>SVP10/10
HXD4E1AA SVP15/5<>SVP10/10
HXD401AA SVP15/5<>SVP10/10 Q:VC

OK
PA 3-7-06

	Yes	No	N/A
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	Yes ✓	No	N/A
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	Yes ✓	No	N/A
8.13 QAS Specified Duplicate Equation Value within Control Limits. RPD > UCL : 20.0=> HW8751AD H-3 45.0 (RPD)	Yes	No ✓	N/A
8.14 LCS within Control Limits. OK	Yes ✓	No	N/A
8.15 MLCS within Control Limits. OK	Yes ✓	No	N/A
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!	Yes	No	N/A ✓
8.17 Tracer within Control Limits. No Tracers found in Batch!	Yes	No	N/A ✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!	Yes	No	N/A ✓
8.19 Sample Specific MDC <= CRDL. OK	Yes ✓	No	N/A

8.2 Comments:

8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!	Yes	No	N/A ✓
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK Calc_IDL Not Calculated	Yes ✓	No	N/A
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => H-3 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 Pam Anderson **Date** 3-7-04

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6046244

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: [signature] Date: 3-31-06

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

3/30/2006 8:08 44 AM

Lot No., Due Date: J6B100332,J6B140152,J6B140156; 03/30/2006

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6046298; RUNAT UNat by KPA

SDG, Matrix: W04866; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples Incorrect Tracer/Vial => HXG0H1AD UNSC<>UNSF Q:V9		✓	
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used No Count Analysis Size found in Batch Data!			✓
8.07 The Correct Count Geometry was Used. No Count Geometry found in Batch Data!			✓
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. No Count Duration Field Found in Batch Data!			✓
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. OK	✓		
8.17 Tracer within Control Limits. No Tracers found in Batch!			✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!			✓
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => HW88P1AK Uranium 5.6E+00 L:7.4E-02 HXD3M1AE Uranium 5.3E+00 L:8.3E-02 HXD3Q1AD Uranium 2.8E+00 L:7.6E-02 HXD3T1AG Uranium 2.0E+02 L:7.0E-02 HXD4C1AD Uranium 6.0E+00 L:7.1E-02 HXD4E1AD Uranium 5.3E+00 L:8.2E-02 Calc_IDL Not Calculated		✓	
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => Uranium OK; No Callin Level Found => Uranium	✓		

8.24 Result + 3s >=0, Not Too Negative. OK	Y	o	N/A
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!	Y	No	N/A ✓
8.26 Instruments have Current Calibrations.	Y	No	N/A
8.27 Correct Count Library Used. No Count Library found in Batch Data!	Y	No	N/A ✓
8.28 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later version		o	N/A
8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later v	Y	o	N/A
8.3 Comments:			
8.31 Results Blank Subtracted as Appropriate. OK	Y	No	N/A

First Level Review Pam Anderson **Date** 3·30·06

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6046295

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?	✓	HMC	✓
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: [signature] Date: 3-31-06

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S06-001-209

Page 1 of 1

Collector DURATEK F. M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S06-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2005	DTS SAWS-H102	**Ice Chest No.** SHW5102 **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
** **

W04866
JOB 100329
Due 03 27 06
71

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1H7B2		W	2-10-06	1212	1x20-mL P	Activity Scan HW875	None
B1H7B2		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1H7B2		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By DURATEK F. M. HALL	Print Sign	Date/Time 1310 FEB 1 0 2006	Received By Jeff Jensen Print Sign Date/Time 1310 02 10 06
Relinquished By		Date/Time	Received By Date/Time
Relinquished By		Date/Time	Received By Date/Time
Relinquished By		Date/Time	Received By Date/Time

<100 CPM

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 02 10 06 1310

Client: PAW SDG #: W04866 NA [ ] SAF #: S06-002 S06-001 NA [ ]

Work Order Number: JGB100327 Chain of Custody # S06-002-154, 136 S06-001-215, 209

Shipping Container ID: SAWS 102, 221 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: 31
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 [✓] adjusted pH [ ]
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: [signature] Date: 02 10 06

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

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PNNL	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S06-002-154
		Page 1 of 1

Collector DURATEX F. M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S06-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, FEBRUARY 2006	DTS SAWS-H102	**Ice Chest No.** SAWS221 **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
** **

W04866
J6B1x0330
Due 03 27 06

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HF69		W	2-10-06	0730	1x1000-mL P	906.0_H3_LSC: Tritium (1) HW 88C	None
B1HF69		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1HF69		W			1x20-mL P	Activity Scan	None
B1HF69		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1HF69		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1HF69		W			2x4000-mL G/P	I129_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEX F. M. HALL			1310 FEB 10 2006	Jeff Jensen			1310 02 10 06
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

<100 CPM

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	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S06-002-136
		Page 1 of 1

Collector DUPRATEK F. M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S06-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, FEBRUARY 2006	DTS SHWS H102	**Ice Chest No.** SHWS221 **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
** **
W04866

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HF51		W	2-10-06	0724	1x1000-mL P	906.0_H3_LSC: Tritium (1) HW886	None
B1HF51		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1HF51		W			1x20-mL P	Activity Scan	None
B1HF51		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1HF51		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1HF51		W			2x4000-mL G/P	I129_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DUPRATEK F. M. HALL			1310 FEB 10 2006	Jeff Jensen			1310 FEB 10 2006
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

<100 CPM

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 02 10 06 1310

Client: PAW SDG #: W04866 NA [ ] SAF #: 506-002 506-001 NA [ ]

Work Order Number: J6B100329 Chain of Custody # 506-002 - 154, 136 506-001 - 215, 209

Shipping Container ID: SAWS 102, 221 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: 31
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ tape
   - X custody seals
   - ____ hazard labels
   - X appropriate samples labels
9. Samples are:
   - X in good condition
   - ____ broken
   - ____ leaking
   - ____ have air bubbles (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] adjusted pH [ ]
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: [signature] Date: 02 10 06

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

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PNNL	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S06-001-305
		Page 1 of 1

Collector	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S06-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2005	DTS SAWS-1498	**Ice Chest No.** SAWS-209 **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
** **

W04866
JGB 100332
Dm 03 2706

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1H736		W	2-9-06	1308	1x20-mL P	Activity Scan HW88P	None
B1H736		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1H736		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1H736		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1H736		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1H736		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1H736		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1H736		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1H736		W			1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
			FEB 10 2006 1417		Jeff Jensen		FEB 10 2006 1417
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

<100 CPM

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	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S06-001-339
		Page 1 of 1

Collector	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S06-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2005	DTS-SAWS-1498	**Ice Chest No.** SAWS-207 **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
** **

W04866 16

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1H6X3		W	2-10-06	0947	1x20-mL P	Activity Scan HW88W	None
B1H6X3		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
			FEB 10 2006 1417		Jeff Jensen		FEB 10 2006 1417
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 *
<100 CPM

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

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S06-001-329

Page 1 of 1

Collector: R.L. FOX	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: S06-001	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JANUARY 2005	DTS-SAWS-H98	Ice Chest No.: SAWS-209 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
** **

W04866

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1H6W9		W	2-10-05	1145	1x20-mL P	Activity Scan HW880	None
B1H6W9		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R.L. FOX			FEB 10 2006 1417		Jeff Jensen		FEB 10 2006 1417
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

<100 CPM

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 02 10 06 1417

Client: PLW SDG #: W04866 NA [ ] SAF #: 506-001 NA [ ]

Work Order Number: J6B100332 Chain of Custody # 506-001-339, 305, 329

Shipping Container ID: SANS 209 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: 16

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 [✓] adjusted pH [ ]

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: [signature] Date: 02 10 06

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

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PNNL	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S06-001-227
		Page 1 of 1

Collector DUNATEK K. B. HULSE	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. S06-001	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURV, JANUARY 2005	SAW SH 10 3 13	Ice Chest No. SNW5-119 Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No. N/A
Protocol SURV	Priority: 45 Days	Offsite Property No. N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** **
WO 4866
JB 100 334
Dm 03 2706

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1H778		W	2.10.06	0536	1x20-mL P	Activity Scan HW 885	None
B1H778		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1H778		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1H778		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1H778		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1H778		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DUNATEK K. B. HULSE			2.10.06 1310	DAVID HARB. NSOI			2.10.06 1310
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

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S06-001-197

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Collector DURATEK K. B. HULSE	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. S06-001	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURV, JANUARY 2005	SAWS-11 W3 13	Ice Chest No. SAWS-119 Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No. N/A
Protocol SURV	Priority: 45 Days	Offsite Property No. N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

W04866

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1H794		W	2-10-06	1102	1x20-mL P	Activity Scan HW 89 H	None
B1H794		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1H794		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1H794		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1H794		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK K. B. HULSE			2-10-06 1310	DAVID HARBINSON			2-10-06 1310
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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 02 10 06 1310

Client: PLW SDG #: WO 4866 NA [ ] SAF #: 506-001 NA [ ]

Work Order Number: J6B100334 Chain of Custody # 506-001-197, 227

Shipping Container ID: SAWS 119 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: 16
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 [✓] adjusted pH [ ]
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: [signature] Date: 02 10 06

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

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PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W06-002-88

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Collector: SGATEK D. T. SICKLE	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W06-002	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, February 2006	DT5- SAWS H98	Ice Chest No.: SAWS 209 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

W04866 152 J 021406
JGB 140492
Due 03 30 06

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HCT8		W	2-13-06	1308	1x20-mL P	Activity Scan HX03M	None
B1HCT8		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1HCT8		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1HCT8		W			3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
B1HCT8		W			1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
SGATEK D. T. SICKLE			FEB 13 2006 1510	Jeff Jensen			FEB 13 2006 1510
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

<100 CPM

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	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W06-002-100
		Page 1 of 1

Collector DURATEK	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. T. T. SICKLE W06-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, February 2006	DTS- SAWS 498	**Ice Chest No.** SAWS 209 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** W04166

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HCP5		W	2-13-06	1214	1x20-mL P	Activity Scan HXD3Q	None
B1HCP5		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1HCP5		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1HCP5		W			3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK T. T. SICKLE			FEB 13 2006 1514	Jeff Jensen			FEB 13 2006 1514
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

<100 CPM

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	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W06-002-94
		Page 1 of 1

Collector DURATEK R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W06-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, February 2006	DTS- SAWS HC18	**Ice Chest No.** SAWS 209 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** W04866

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HCR7		W	2-13-06	1125	1x20-mL P	Activity Scan HX03T	None
B1HCR7		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1HCR7		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1HCR7		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1HCR7		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1HCR7		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK R. T. SICKLE			1510 FEB 13 2006		Jeff Jensen		1510 FEB 13 2006
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

<100 CPM

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 02 13 06 1510

Client: PLW SDG #: W04866 NA [ ] SAF #: S06-001 W06-002 W06-001 NA [ ]

Work Order Number: J6B140152 Chain of Custody # S06-001-139 W06-002-94, 100, 88 W06-001-53

Shipping Container ID: SAWS 209 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: 25

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 [✓] adjusted pH [ ]

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: [signature] Date: 02 13 06

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

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PNNL	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W06-002-130
		Page 1 of 1

Collector DURATEK D. P. CONNOLLY	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W06-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, February 2006	Logbook: DTS-SAWS-H103A	**Ice Chest No.** DANS **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

W04966
JBB140156
Dw 03 30 06

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HD35		W	2/13/06	1300	1x20-mL P	Activity Scan HXD34	None
B1HD35		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1HD35		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK D. P. CONNOLLY			FEB 13 2006 1500	Jeff Jensen			FEB 13 2006 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

<100 CPM

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

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W06-002-494

Page 1 of 1

Collector DURATEK K.B. HULSE	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. W06-002	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA, February 2006	DTS-SAWS-H107	Ice Chest No. SAWS-221 Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No. N/A
Protocol RCRA	Priority: 45 Days	Offsite Property No. N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

WO 4866

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HJW8		W	2-13-06	1302	1x20-mL P	Activity Scan HXD36	None
B1HJW8		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1HJW8		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
					2-13-06		

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK K.B. HULSE			1500 FEB 13 2006		Jeff Jensen		1500 FEB 13 2006
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

<100 CPM

Matrix *

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

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

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W06-002-142**

Page 1 of 1

Collector DURATEK K.B. HULSE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W06-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, February 2006	DTS-SAWS-H102	**Ice Chest No.** S4WS-221 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.** N/A
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.** N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** **
W04866

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HD43		W	2-13-06	1013	1x20-mL P	Activity Scan HXD37	None
B1HD43		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1HD43		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
					2-13-06		

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK K.B. HULSE			FEB 13 2006 1500	Jeff Jensen			FEB 13 2006 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

<100 CPM

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	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W06-002-158
		Page 1 of 1

Collector DURATEK K. B. HULSE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W06-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, February 2006	SAWS-H102	**Ice Chest No.** SAWS-221 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.** N/A
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.** N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** **
WO 4866

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HD81		W	2-13-06	1153	1x20-mL P	Activity Scan HYD39	None
B1HD81		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1HD81		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
					2-13-06		

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK K. B. HULSE			FEB 13 2006 1500	Jeff Jensen			FEB 13 2006 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

<100 CPM

Matrix *

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

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

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W06-002-106**

Collector DURATEK D. P. CONNOLLY	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W06-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, February 2006	Logbook: DTS-SAWS-H103A	**Ice Chest No.** DANS **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

W04966

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HCN4		W	2/13/06	1045	1x20-mL P	Activity Scan HXD4C	None
B1HCN4		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1HCN4		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1HCN4		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK D. P. CONNOLLY			FEB 13 2006 1500	Jeff Jensen			FEB 13 2006 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

<100 CPM

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

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W06-002-112**

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Collector DURATEK D. P. CONNOLLY	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W06-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, February 2006	Logbook: DTS-SAWS-H103A	**Ice Chest No.** DANS **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

WO 4866

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HD15		W	2/13/06	1128	1x20-mL P	Activity Scan HXD4E	None
B1HD15		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1HD15		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1HD15		W			3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK D. P. CONNOLLY			FEB 13 2006 1500	Jeff Jensen			FEB 13 2006 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

<100 CPM

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 02 13 06 1500

Client: PNW SDG #: W04866 NA [ ] SAF #: W06-001 W06-002 NA [ ]

Work Order Number: JB3140156 Chain of Custody # W06-001-59, W06-002-158, 142, 494, 106, 112, 130

Shipping Container ID: DANS 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: 26

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

8. Samples have:
   - ____ tape
   - X custody seals
   - ____ hazard labels
   - X appropriate samples labels

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

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

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: [signature] Date: 02 13 06

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

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PNNL

DURATEK

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W06-001-59

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Collector D. P. CONNOLLY	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W06-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, JANUARY 2006	Logbook: DTS - SAWS - H103A	**Ice Chest No.** DANS **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

W04866
J6B140159
Due 03 30 06

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1H5Y9		W	2/13/06	0953	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2) HXD4H	HNO3 to pH <2
B1H5Y9		W	↓	↓	1x20-mL P	Activity Scan	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK D. P. CONNOLLY			FEB 13 2006 1500	Jeff Jensen			FEB 13 2006 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

<100 CPM

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 02 13 06 1500

Client: PAW SDG #: W04866 NA [ ] SAF #: W06-001 W06-002 NA [ ]

Work Order Number: J6B140159 Chain of Custody # W06-001-59, W06-002-158, 142, 494 106, 112, 130

Shipping Container ID: DANS 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: 26
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ tape
   - X custody seals
   - ____ hazard labels
   - X appropriate samples labels
9. Samples are:
   - X in good condition
   - ____ broken
   - ____ leaking
   - ____ have air bubbles (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] adjusted pH [ ]
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: [signature] Date: 02 13 06

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, 12/05, Rev. 6

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W06-001-53**

Page 1 of 1

Collector DURATEK R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W06-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, JANUARY 2006	DTS-SAWS H 98	**Ice Chest No.** SAWS 209 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

W04966
J6B140164
Due 03 30 06

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1H5Y5		W	2-13-06	1009	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2) HXD4M	HNO3 to pH <2
B1H5Y5		W	↓	↓	1x20-mL P	Activity Scan	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK R. T. SICKLE			FEB 13 2006 1510	Jeff Jensen			FEB 13 2006 1510
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

<100 CPM

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 02 13 06 1510

Client: PWW SDG #: W04866 NA [ ] SAF #: S06-001 W06-002 W06-001 NA [ ]

Work Order Number: J6B140164 Chain of Custody # S06-001-139 W06-002-94, 100, 88 W06-001-53

Shipping Container ID: SAWS 209 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: 25
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 [✓] adjusted pH [ ]
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: [signature] Date: 02 13 06

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, 12/05, Rev. 6

PNNL	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S06-001-139
		Page 1 of 1

Collector DURATEK R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S06-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV. JANUARY 2005	DTS - SAWS H 98	**Ice Chest No.** SAWS 209 **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
** **

W04866
J6B140166
Due 03 30 06

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1H724		W	2-13-06	1009	1x20-mL P	Activity Scan HX D 40	None
B1H724		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1H724		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK R. T. SICKLE			FEB 13 2006 1510	Jeff Jensen			FEB 13 2006 1510
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

<100 CPM

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 02 13 06 1510

Client: PWW SDG #: W09866 NA [ ] SAF #: S06-001 W06-002 W06-001 NA [ ]

Work Order Number: J6B140166 Chain of Custody # S06-001-139 W06-002-94, 100, 88 W06-001-53

Shipping Container ID: SAWS 209 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: 25

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

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

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

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

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: [signature] Date: 02 13 06

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, 12/05, Rev. 6

3/24/2006 6:36:21 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

6D
SO Plutonium-238,239/40 by Alpha Spec
5I CLIENT: HANFORD

Pipet #: _____

Report Due: 03/30/2006 WO4866

Sep1 DT/Tm Tech:

Batch: 6046281 **WATER** **pCi/L** **PM, Quote: HC , 57671**

Sep2 DT/Tm Tech: 3-29-06 mf

SEQ Batch, Test: None

Prep Tech: ,WAGNERJ

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 HW88P-1-AG J6B100332-1-SAMP 02/10/2006 13:08		199.40g,in AmtRec: 20ML,2X500P,6XLP,3X4LP	putc10081 03/15/06,pd 06/07/94,r #Containers: 12	200		Scr:	Alpha: 5.19E-04 uCi/Sa	Beta: 2.26E-04 uCi/Sa
2 HW88P-1-AL-X J6B100332-1-DUP 02/10/2006 13:08		201.30g,in AmtRec: 20ML,2X500P,6XLP,3X4LP	putc10083 03/15/06,pd 06/07/94,r #Containers: 12	200		Scr:	Alpha: 5.19E-04 uCi/Sa	Beta: 2.26E-04 uCi/Sa
3 HXGXH-1-AA-B J6B150000-281-BLK 02/10/2006 13:08		202.60g,in AmtRec:	putc10084 03/15/06,pd 06/07/94,r #Containers: 1	200		Scr:	Alpha:	Beta:
4 HXGXH-1-AC-C J6B150000-281-LCS 02/10/2006 13:08		200.00g,in AmtRec:	pusg0822 02/21/06,pd 12/28/05,r #Containers: 1	200		Scr:	Alpha:	Beta:

Comments: PHL2 3-24-06

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

HW88P1AG-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						

HXGXH1AA-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						

HXGXH1AC-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

Balance Id:1120482733

6D
SO Plutonium-238,239/40 by Alpha Spec
5I CLIENT: HANFORD

Pipet #: _____

Report Due: 03/30/2006

Sep1 DT/Tm Tech:

Batch: 6046281 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,WAGNERJ

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:

```
HW88P1AG-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
HXGXH1AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
HXGXH1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

3/30/2006 1:47:17 PM

ICOC Fraction Transfer/Status Report

ByDate: 3/30/2005, 4/4/2006, Batch: '6046281', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6046281						
AC		**CalcC**	**WAGNERJ**	3/24/2006 6:31:32 PM		
SC			wagarr	IsBatched	2/15/2006 11:00:23 AM	ICOC_RADCALC v4.8.18
SC			WAGNERJ	InPrep	3/24/2006 6:31:32 PM	RICH-RC-5016 REVISION 6
SC			WAGNERJ	Prep1C	3/24/2006 6:37:20 PM	RICH-RC-5016 REVISION 6
SC			AntonsonL	InSep1	3/28/2006 8:15:24 AM	RICHRC5010 REVISION 4
SC			ManisD	Sep1C	3/29/2006 8:30:46 AM	RICH-RC-5010 REV 4
SC			FABREM	InSep2	3/29/2006 10:29:03 AM	RICH-RC-5039 REV 4
SC			FABREM	Sep2C	3/29/2006 1:08:15 PM	RICH-RC-5039 REV 4
SC			BlackCL	InCnt1	3/29/2006 1:14:22 PM	RICH-RD-0008 REVISION 4
SC			DAWKINSO	CalcC	3/29/2006 8:36:07 PM	RICH-RD-0008 REVISION 4
AC			**WAGNERJ**	3/24/2006 6:37:20 PM		
AC			**AntonsonL**	3/28/2006 8:15:24		
AC			**ManisD**	3/29/2006 8:30:46		
AC			**FABREM**	3/29/2006 10:29:03		
AC			**FABREM**	3/29/2006 1:08:15 PM		
AC			**BlackCL**	3/29/2006 1:14:22 PM		
AC			**DAWKINSO**	3/29/2006 8:36:07 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 8

ICOCFractions v4.8.18

3/14/2006 2:29:14 PM

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 L Level

Pipet #:

Report Due: 03/30/2006 W04806

Sep1 DT/Tm Tech:

Batch: 6046277 WATER pCi/L PM, Quote: HC , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,GiroirB

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 HW875-1-AC J6B100329-1-SAMP 02/10/2006 12:12	AmtRec: 20ML,LP,2X4LP #Containers: 4	3936.80g,in	ITA5063 02/06/06	FA	36.2	100	L4	1401	3/27/06	Scr: Alpha: 2.65E-03 uCi/Sa Beta: 2.03E-03 uCi/Sa
2 HW88P-1-AF J6B100332-1-SAMP 02/10/2006 13:08	AmtRec: 20ML,2X500P,6XLP,3X4LP #Containers: 12	4002.90g,in	ITA5064 02/06/06		36.0		L5	1401	3/27/06	Scr: Alpha: 5.19E-04 uCi/Sa Beta: 2.26E-04 uCi/Sa
3 HW885-1-AH J6B100334-1-SAMP 02/10/2006 08:36	AmtRec: 20ML,5XLP,3X4LP #Containers: 9	3911.30g,in	ITA5065 02/06/06		36.2		L4	1605	3/27/06	Scr: Alpha: 4.40E-03 uCi/Sa Beta: -8.07E-04 uCi/Sa
4 HXD40-1-AC J6B140166-1-SAMP 02/13/2006 10:09	AmtRec: 20ML,LP,2X4LP #Containers: 4	3989.40g,in	ITA5066 02/06/06		36.0		L5	1606		Scr: Alpha: 4.33E-04 uCi/Sa Beta: -1.87E-06 uCi/Sa
5 HXD40-1-AD-X J6B140166-1-DUP 02/13/2006 10:09	AmtRec: 20ML,LP,2X4LP #Containers: 4	3859.30g,in	ITA5067 02/06/06		35.5		L4	1856		Scr: Alpha: 4.33E-04 uCi/Sa Beta: -1.87E-06 uCi/Sa
6 HXGW9-1-AA-B J6B150000-277-BLK 02/13/2006 10:09	AmtRec: #Containers: 1	4177.60g,in	ITA5068 02/06/06		35.8		L5			Scr: Alpha: Beta:
7 HXGW9-1-AC-C J6B150000-277-LCS 02/13/2006 10:09	AmtRec: #Containers: 1	3903.60g,in	ISD0621 02/16/06,pd 11/24/04,r		38.5		L4	2042		Scr: Alpha: Beta:

3/14/2006 2:29:15 PM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

Report Due: 03/30/2006

Sep1 DT/Tm Tech:

Batch: 6046277 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,GiroirB

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:

Ppt. redissolved in neutral

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

HW8751AC-SAMP Constituent List:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:
HXGW91AA-BLK:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:
HXGW91AC-LCS:
I-129 RDL:5 pCi/L LCL:70 UCL:130 RPD:20

HW8751AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
HXGW91AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
HXGW91AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

3/29/2006 8:31:03 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/29/2005, 4/3/2006, Batch: '6046277', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6046277						
AC		**CalcC**	**GiroirB**	3/13/2006 3:20:19 PM		
SC			wagarr	IsBatched	2/15/2006 11:00:23 AM	ICOC_RADCALC v4.8.18
SC			GiroirB	InPrep	3/13/2006 3:20:19 PM	RICH-RC-5016 REVISION 5
SC			GiroirB	Prep1C	3/15/2006 6:35:39 AM	RICH-RC-5016 REVISION 6
SC			NortonJ	InSep1	3/15/2006 10:43:39 AM	RICH-RC-5025 REVISION3
SC			NortonJ	Sep1C	3/27/2006 12:15:58 PM	RICH-RC-5025 REVISION3
SC			BlackCL	InCnt1	3/27/2006 12:18:30 PM	RICH-RD-0007 REVISION 5
SC			DAWKINSO	CalcC	3/27/2006 9:25:01 PM	RICH-RD-0007 REVISION 5
AC			**GiroirB**	3/15/2006 6:35:39		
AC			**NortonJ**	3/15/2006 10:43:39		
AC			**NortonJ**	3/27/2006 12:15:58		
AC			**BlackCL**	3/27/2006 12:18:30		
AC			**DAWKINSO**	3/27/2006 9:25:01 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.18

3/27/2006 11:48:37 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 #: _____

Report Due: 03/30/2006 WO4866

Sep1 DT/Tm Tech:

Batch: 6046280 WATER pCi/L

PM, Quote: HC , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WAGNERJ

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 HW88C-1-AF J6B100330-1-SAMP 02/10/2006 07:30		3939.90g,in AmtRec: 20ML,5XLP,3X4LP	ITA5069 02/06/06 #Containers: 9	IFA	34.8	100	L4	1424 Scr: Alpha: 1.29E-03 uCi/Sa	3/29/06	Beta: -4.04E-04 uCi/Sa
2 HW88C-1-AH-X J6B100330-1-DUP 02/10/2006 07:30		3918.50g,in AmtRec: 20ML,5XLP,3X4LP	ITA5070 02/06/06 #Containers: 9		35.1	100	L5	1424 Scr: Alpha: 1.29E-03 uCi/Sa		Beta: -4.04E-04 uCi/Sa
3 HW88G-1-AF J6B100330-2-SAMP 02/10/2006 09:24		3937.40g,in AmtRec: 20ML,5XLP,3X4LP	ITA5071 02/06/06 #Containers: 9		35.8	100	L4	1606 Scr: Alpha: -7.97E-04 uCi/Sa	3/29/06	Beta: 2.02E-03 uCi/Sa
4 HXGXF-1-AA-B J6B150000-280-BLK 02/10/2006 07:30		3915.20g,in AmtRec:	ITA5072 02/06/06 #Containers: 1		35.0	100	L5	1607 Scr: Alpha:		Beta:
5 HXGXF-1-AC-C J6B150000-280-LCS 02/10/2006 07:30		4000.90g,in AmtRec:	ISD0623 02/16/06,pd 11/24/04,r #Containers: 1		38.0	100	L4	1812 Scr: Alpha:	3/29/06	Beta:

Comments: PH>2. 2 32706

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

HW88C1AF-SAMP Constituent List:
I-129 RDL:5.00E+00 pCi/L LCL:70 UCL:130 RPD:20

3/27/2006 11:48:39 AM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

Report Due: 03/30/2006

Sep1 DT/Tm Tech:

Batch: 6046280 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WAGNERJ

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:

```
HXGXF1AA-BLK:
  I-129        RDL:5.00E+00    pCi/L    LCL:        UCL:        RPD:
HXGXF1AC-LCS:
  I-129        RDL:5           pCi/L    LCL:70      UCL:130     RPD:20
HW88C1AF-SAMP Calc Info:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
HXGXF1AA-BLK:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
HXGXF1AC-LCS:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

Approved By _____ Date: _____

3/30/2006 1:57:05 PM

ICOC Fraction Transfer/Status Report

ByDate: 3/30/2005, 4/4/2006, Batch: '6046280', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6046280						
AC		**CalcC**	**WAGNERJ**	3/27/2006 10:17:24		
SC			wagarr	IsBatched	2/15/2006 11:00:23 AM	ICOC_RADCALC v4.8.18
SC			WAGNERJ	InPrep	3/27/2006 10:17:24 AM	RICH-RC-5016 REVISION 6
SC			WAGNERJ	Prep1C	3/27/2006 11:49:40 AM	RICH-RC-5016 REVISION 6
SC			NortonJ	InSep1	3/28/2006 8:18:12 AM	RICH-RC-5025 REVISION3
SC			NortonJ	Sep1C	3/29/2006 12:37:23 PM	RICHRC5025 REV3
SC			BlackCL	InCnt1	3/29/2006 12:43:36 PM	RICH-RD-0007 REVISION 5
SC			DAWKINSO	CalcC	3/29/2006 8:36:40 PM	RICH-RD-0007 REVISION 5
AC			**WAGNERJ**	3/27/2006 11:49:40		
AC			**NortonJ**	3/28/2006 8:18:12		
AC			**NortonJ**	3/29/2006 12:37:23		
AC			**BlackCL**	3/29/2006 12:43:36		
AC			**DAWKINSO**	3/29/2006 8:36:40 PM		

AC: Accepting Entry; SC: Status Change

SEVERN TRENT STL

*** RE-COUNT REQUEST ***

DUE DATE 3-30-06

CUSTOMER PGW

ANALYSIS gamma

MATRIX water

LOT NUMBER J6B 100330

SAMPLE DELIVERY GROUP WO 4866

OLD BATCH NUMBER 4046270

	LAB SAMPLE ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1)	HXGW1 IAC C	high recoveries
2)		
3)		
4)		
5)		
6)		
7)		
8)		
9)		
10)		
11)		
12)		
13)		
14)		
15)		
16)		
17)		
18)		
19)		
20)		

3/30/2006 7:20:44 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

Report Due: 03/30/2006 W0 4866

Sep1 DT/Tm Tech:

Batch: 6046270 WATER pCi/L PM, Quote: HC , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 6046244 ARS6, 6046262 AZS7, 6046267 BCS8, 6046270 AWTA, 6046272 CLTL, 6046280 BNTB,

Prep Tech: ,WAGNERJ

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 HW88C-1-AE J6B100330-1-SAMP 02/10/2006 07:30		2003.30g,in AmtRec: 20ML,5XLP,3X4LP	#Containers: 9			100		Scr:	Alpha: 1.29E-03 uCi/Sa	Beta: -4.04E-04 uCi/Sa
2 HW88G-1-AE J6B100330-2-SAMP 02/10/2006 09:24		2007.30g,in AmtRec: 20ML,5XLP,3X4LP	#Containers: 9			100		Scr:	Alpha: -7.97E-04 uCi/Sa	Beta: 2.02E-03 uCi/Sa
3 HW88P-1-AE J6B100332-1-SAMP 02/10/2006 13:08		2011.50g,in AmtRec: 20ML,2X500P,6XLP,3X4LP	#Containers: 12			100		Scr:	Alpha: 5.19E-04 uCi/Sa	Beta: 2.26E-04 uCi/Sa
4 HW885-1-AE J6B100334-1-SAMP 02/10/2006 08:36		1999.70g,in AmtRec: 20ML,5XLP,3X4LP	#Containers: 9			100		Scr:	Alpha: 4.40E-03 uCi/Sa	Beta: -8.07E-04 uCi/Sa
5 HW885-1-AJ-X J6B100334-1-DUP 02/10/2006 08:36		1910.60g,in AmtRec: 20ML,5XLP,3X4LP	#Containers: 9			100		Scr:	Alpha: 4.40E-03 uCi/Sa	Beta: -8.07E-04 uCi/Sa
6 HW89H-1-AE J6B100334-2-SAMP 02/10/2006 11:02		2002.10g,in AmtRec: 20ML,5XLP,4LP	#Containers: 7			100		Scr:	Alpha: -6.24E-05 uCi/Sa	Beta: 2.23E-03 uCi/Sa
7 HXD3T-1-AE J6B140152-3-SAMP 02/13/2006 11:25		2005.10g,in AmtRec: 20ML,2X500P,2XLP,4LP	#Containers: 6			100		Scr:	Alpha: 3.10E-03 uCi/Sa	Beta: 9.14E-04 uCi/Sa

3/30/2006 7:20:46 AM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

Report Due: 03/30/2006

Sep1 DT/Tm Tech:

Batch: 6046270 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WAGNERJ

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 HXGW1-1-AA-B J6B150000-270-BLK 02/10/2006 08:36		2001.80g,in AmtRec:	#Containers: 1			100		Scr:	Alpha:	Beta:
9 HXGW1-1-AC-C J6B150000-270-LCS 02/10/2006 08:36		2001.90g,in AmtRec:	QCAG1182 03/15/06,pd 03/07/05,r #Containers: 1			100		Scr:	Alpha:	Beta:
10HXGW1-2-AC-C J6B150000-270-LCS 02/10/2006 08:36		2001.9 AmtRec:	QCAG-1182 #Containers: 1		100 gro	100 min	CT	0923 Scr:	3/30 Alpha:	Beta:

Comments: HW89H-SAMP "Comments: Sample HW89H had reduced aliquots due to wt. screens."

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

HW88C1AE-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:

HXGW11AA-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:

HXGW11AC-LCS:

3/30/2006 7:20:47 AM

Sample Preparation/Analysis

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

Report Due: 03/30/2006

Batch: 6046270 pCi/L
SEQ Batch, Test: None

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

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

```
 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
HXGW12AC-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

HW88C1AE-SAMP Calc Info:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
HXGW11AA-BLK:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
HXGW11AC-LCS:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
HXGW12AC-LCS:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

Approved By _____ Date: _____

3/30/2006 10:27:09 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/30/2005, 4/4/2006, Batch: '6046270', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6046270						
AC		**CalcC**	**WAGNERJ**	3/27/2006 9:25:52		
SC			wagarr	IsBatched	2/15/2006 11:00:23 AM	ICOC_RADCALC v4.8.18
SC			WAGNERJ	InPrep	3/27/2006 9:25:52 AM	RICH-RC-5017 REVISION 5
SC			WAGNERJ	Prep1C	3/27/2006 9:49:23 AM	RICH-RC-5017 REVISION 5
SC			ScottM	InPrep2	3/27/2006 10:09:19 AM	RICH-RC-5017 REVISION 4
SC			ScottM	Prep2C	3/28/2006 3:27:09 PM	RICH-RC-5017 REVISION 4
SC			DAWKINSO	InCnt1	3/28/2006 3:52:32 PM	RICH-RD-0007 REVISION 5
SC			BlackCL	CalcC	3/29/2006 8:12:49 AM	RICH-RD-0007 REVISION 5
SC			BlackCL	InCnt1	3/30/2006 7:43:12 AM	RICH-RD-0007 REVISION 5
SC			BlackCL	CalcC	3/30/2006 9:29:22 AM	RICH-RD-0007 REVISION 5
AC			**WAGNERJ**	3/27/2006 9:49:23		
AC			**ScottM**	3/27/2006 10:09:19		
AC			**ScottM**	3/28/2006 3:27:09 PM		
AC			**DAWKINSO**	3/28/2006 3:52:32 PM		
AC			**BlackCL**	3/29/2006 8:12:49		
AC			**BlackCL**	3/30/2006 7:43:12		
AC			**BlackCL**	3/30/2006 9:29:22		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 8

ICOCFractions v4.8.18

3/28/2006 9:30:04 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: 240

Report Due: 03/30/2006

Sep1 DT/Tm Tech:

Batch: 6046262 **WATER** **pCi/L** **PM, Quote: HC , 57671**

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 6046244 ARS6, 6046262 AZS7, 6046267 BCS8, 6046270 AWTA, 6046272 CLTL, 6046280 BNTB,

Prep Tech: ,WAGNERJ

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 HW88C-1-AC J6B100330-1-SAMP 02/10/2006 07:30		200.30g,in AmtRec: 20ML,5XLP,3X4LP #Containers: 9			115 0.3 no	100 3/28b	10T	1603	3/28/06/ad Scr: Alpha: 1.29E-03 uCi/Sa	Beta: -4.04E-04 uCi/Sa
2 HW88G-1-AC J6B100330-2-SAMP 02/10/2006 09:24		206.50g,in AmtRec: 20ML,5XLP,3X4LP #Containers: 9			56.0		10B		Scr: Alpha: -7.97E-04 uCi/Sa	Beta: 2.02E-03 uCi/Sa
3 HW88P-1-AC J6B100332-1-SAMP 02/10/2006 13:08		200.50g,in AmtRec: 20ML,2X500P,6XLP,3X4LP #Containers: 12			56.4		10C		Scr: Alpha: 5.19E-04 uCi/Sa	Beta: 2.26E-04 uCi/Sa
4 HW885-1-AC J6B100334-1-SAMP 02/10/2006 08:36		202.30g,in AmtRec: 20ML,5XLP,3X4LP #Containers: 9			50.6		10D		Scr: Alpha: 4.40E-03 uCi/Sa	Beta: -8.07E-04 uCi/Sa
5 HW89H-1-AC J6B100334-2-SAMP 02/10/2006 11:02		184.00g,in AmtRec: 20ML,5XLP,4LP #Containers: 7			50.2		10E		Scr: Alpha: -6.24E-05 uCi/Sa	Beta: 2.23E-03 uCi/Sa
6 HXD3T-1-AC J6B140152-3-SAMP 02/13/2006 11:25		80.00g,in AmtRec: 20ML,2X500P,2XLP,4LP #Containers: 6			37.8		10A	1811	Scr: Alpha: 3.10E-03 uCi/Sa	Beta: 9.14E-04 uCi/Sa
7 HXD4H-1-AA J6B140159-1-SAMP 02/13/2006 09:53		203.90g,in AmtRec: 20ML,LP #Containers: 2			57.0		10B		Scr: Alpha: -6.57E-05 uCi/Sa	Beta: 2.03E-04 uCi/Sa

3/28/2006 9:30:05 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: 240

Report Due: 03/30/2006

Sep1 DT/Tm Tech:

Batch: 6046262 **WATER** **pCi/L** **PM, Quote: HC , 57671**

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: WAGNERJ

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 HXD4M-1-AA J6B140164-1-SAMP 02/13/2006 10:09		145.30g,in AmtRec: 20ML,LP	#Containers: 2	1.5	562	100	10C	1811	3/28/06	Scr: Alpha: -9.19E-06 uCi/Sa Beta: 9.50E-05 uCi/Sa
9 HXD4M-1-AD-X J6B140164-1-DUP 02/13/2006 10:09		146.10g,in AmtRec: 20ML,LP	#Containers: 2		553		10D			Scr: Alpha: -9.19E-06 uCi/Sa Beta: 9.50E-05 uCi/Sa
10HXGWQ-1-AA-B J6B150000-262-BLK 02/13/2006 10:09		200.90g,in AmtRec:	#Containers: 1		0.2		10E	D		Scr: Alpha: Beta:
11HXGWQ-1-AC-C J6B150000-262-LCS 02/13/2006 10:09		202.10g,in AmtRec:	ASD3815 03/08/06,pd 03/25/05,r #Containers: 1		0.5		10D	2005	D	Scr: Alpha: Beta:

Comments: HW89H-SAMP "Comments: Sample HW89H had reduced aliquots due to wt. screens."
HXD4H-SAMP "Comments: Sample HXD4H had reduced aliquots for Beta due to wt. screens."
HXD4M-SAMP "Comments: Sample HXD4M had reduced aliquots due to wt. screens"

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

HW88C1AC-SAMP Constituent List:
ALPHA RDL:3 pCi/L LCL: UCL: RPD:
HXGWQ1AA-BLK:
ALPHA RDL:3 pCi/L LCL: UCL: RPD:
HXGWQ1AC-LCS:

3/28/2006 9:30:07 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

Report Due: 03/30/2006

Sep1 DT/Tm Tech:

Batch: 6046262 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WAGNERJ

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:

Am-241 RDL: pCi/L LCL:70 UCL:130 RPD:20

HW88C1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

HXGWQ1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

HXGWQ1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

3/30/2006 7:47:46 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/30/2005, 4/4/2006, Batch: '6046262', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6046262						
AC		**CalcC**	**WAGNERJ**	3/24/2006 11:06:32		
SC			wagarr	IsBatched	2/15/2006 11:00:23 AM	ICOC_RADCALC v4.8.18
SC			WAGNERJ	InPrep	3/24/2006 11:06:32 AM	RICH-RC-5014 REVISION 6
SC			WAGNERJ	Prep1C	3/24/2006 11:32:47 AM	RICH-RC-5014 REVISION 6
SC			ScottM	InPrep2	3/27/2006 8:30:23 AM	RICH-RC-5014 REVISION 6
SC			ScottM	Prep2C	3/28/2006 11:47:58 AM	RICH-RC-5014 REVISION 6
SC			BlackCL	InCnt1	3/28/2006 11:56:31 AM	RICH-RD-0003 REVISION 4
SC			DAWKINSO	CalcC	3/28/2006 8:41:54 PM	RICH-RD-0003 REVISION 4
AC			**WAGNERJ**	3/24/2006 11:32:47		
AC			**ScottM**	3/27/2006 8:30:23		
AC			**ScottM**	3/28/2006 11:47:58		
AC			**BlackCL**	3/28/2006 11:56:31		
AC			**DAWKINSO**	3/28/2006 8:41:54 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.18

3/28/2006 9:30:40 AM

Sample Preparaticn/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 #: 240

Report Due: 03/30/2006

Sep1 DT/Tm Tech:

Batch: 6046267 WATER pCi/L PM, Quote: HC , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WAGNERJ

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 HW88C-1-AD J6B100330-1-SAMP 02/10/2006 07:30		203.10g,in AmtRec: 20ML,5XLP,3X4LP #Containers: 9			1.5 0.1	200	27A ~~26B~~ Scr:	1523 Alpha: 1.29E-03 uCi/Sa	3/28/06 Beta: -4.04E-04 uCi/Sa	
2 HW88G-1-AD J6B100330-2-SAMP 02/10/2006 09:24		197.20g,in AmtRec: 20ML,5XLP,3X4LP #Containers: 9			67.0		27B ~~26C~~ Scr:	Alpha: -7.97E-04 uCi/Sa	Beta: 2.02E-03 uCi/Sa	
3 HW88P-1-AD J6B100332-1-SAMP 02/10/2006 13:08		201.20g,in AmtRec: 20ML,2X500P,6XLP,3X4LP #Containers: 12			74.8		27C ~~26D~~ Scr:	Alpha: 5.19E-04 uCi/Sa	Beta: 2.26E-04 uCi/Sa	
4 HW885-1-AD J6B100334-1-SAMP 02/10/2006 08:36		203.10g,in AmtRec: 20ML,5XLP,3X4LP #Containers: 9			75.0		3/28/06 27D ~~37A~~ Scr:	Alpha: 4.40E-03 uCi/Sa	Beta: -8.07E-04 uCi/Sa	
5 HW89H-1-AD J6B100334-2-SAMP 02/10/2006 11:02		179.70g,in AmtRec: 20ML,5XLP,4LP #Containers: 7			67.0		31B Scr:	Alpha: -6.24E-05 uCi/Sa	Beta: 2.23E-03 uCi/Sa	
6 HXD3M-1-AC J6B140152-1-SAMP 02/13/2006 13:00		202.00g,in AmtRec: 20ML,500P,5XLP #Containers: 7			100.6		31B Scr:	Alpha: -1.14E-03 uCi/Sa	Beta: 1.17E-03 uCi/Sa	
7 HXD3T-1-AD J6B140152-3-SAMP 02/13/2006 11:25		100.00g,in AmtRec: 20ML,2X500P,2XLP,4LP #Containers: 6			87.4		31B Scr:	Alpha: 3.10E-03 uCi/Sa	Beta: 9.14E-04 uCi/Sa	

3/28/2006 9:30:41 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: 240

Report Due: 03/30/2006

Sep1 DT/Tm Tech:

Batch: 6046267 **WATER** **pCi/L** **PM, Quote: HC , 57671**

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: WAGNERJ

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 HXD4H-1-AC J6B140159-1-SAMP 02/13/2006 09:53		149.80g,in AmtRec: 20ML,LP	#Containers: 2	1.5	43.5	200	31D ~~32A~~	1523	3/28/06	Scr: Alpha: -6.57E-05 uCi/Sa Beta: 2.03E-04 uCi/Sa
9 HXD4H-1-AD-X J6B140159-1-DUP 02/13/2006 09:53		149.20g,in AmtRec: 20ML,LP	#Containers: 2		44.6		32A			Scr: Alpha: -6.57E-05 uCi/Sa Beta: 2.03E-04 uCi/Sa
10 HXD4M-1-AC J6B140164-1-SAMP 02/13/2006 10:09		155.00g,in AmtRec: 20ML,LP	#Containers: 2		98.8		32B			Scr: Alpha: -9.19E-06 uCi/Sa Beta: 9.50E-05 uCi/Sa
11 HXGW0-1-AA-B J6B150000-267-BLK 02/13/2006 09:53		204.00g,in AmtRec:	#Containers: 1		0.4		32C			Scr: Alpha: Beta:
12 HXGW0-1-AC-C J6B150000-267-LCS 02/13/2006 09:53		202.20g,in AmtRec:	BESB2737 02/13/06,pd 12/28/05,r #Containers: 1		0.5		32D			Scr: Alpha: Beta:

Comments: HW89H-SAMP "Comments: Sample HW89H had reduced aliquots due to wt. screens."
HXD4H-SAMP "Comments: Sample HXD4H had reduced aliquots for Beta due to wt. screens."
HXD4M-SAMP "Comments: Sample HXD4M had reduced aliquots due to wt. screens"

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

3/30/2006 7:47:21 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/30/2005, 4/4/2006, Batch: '6046267', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6046267						
AC		**CalcC**	**WAGNERJ**	3/24/2006 11:06:38		
SC			wagarr	IsBatched	2/15/2006 11:00:23 AM	ICOC_RADCALC v4.8.18
SC			WAGNERJ	InPrep	3/24/2006 11:06:38 AM	RICH-RC-5014 REVISION 6
SC			WAGNERJ	Prep1C	3/24/2006 11:32:54 AM	RICH-RC-5014 REVISION 6
SC			ScottM	InPrep2	3/27/2006 8:30:27 AM	RICH-RC-5014 REVISION 6
SC			ScottM	Prep2C	3/28/2006 11:48:07 AM	RICH-RC-5014 REVISION 6
SC			BlackCL	InCnt1	3/28/2006 11:56:42 AM	RICH-RD-0003 REVISION 4
SC			DAWKINSO	CalcC	3/28/2006 8:41:48 PM	RICH-RD-0003 REVISION 4
AC			**WAGNERJ**	3/24/2006 11:32:54		
AC			**ScottM**	3/27/2006 8:30:27		
AC			**ScottM**	3/28/2006 11:48:07		
AC			**BlackCL**	3/28/2006 11:56:42		
AC			**DAWKINSO**	3/28/2006 8:41:48 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.18

3/13/2006 10:00:12 AM

Sample Preparation/Analysis

Balance Id:1120482733 101

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 #: NA

Report Due: 03/30/2006 W0487064

Sep1 DT/Tm Tech: 3-17-06 3:04 PM

Batch: 6046272 **WATER** **pCi/L** **PM, Quote: HC , 57671**

Sep2 DT/Tm Tech: 3-24-06 10:40 AM

SEQ Batch, Test: None

Prep Tech: ,GiroirB

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 HW88C-1-AG J6B100330-1-SAMP		1010.20g,in	srtb13258 02/21/06,pd 09/06/05,r YTA15340 Ex:11/13/2006	1.490 2.0570 .7244		24.2	30 100	9"	0712 7a 1006 3a 0913	3/22/06 K 3/25/06 K 3/26/06 K	
02/10/2006 07:30		AmtRec: 20ML,5XLP,3X4LP	#Containers: 9					Scr:	Alpha: 1.29E-03 uCi/Sa	Beta: -4.04E-04 uCi/Sa	
2 HW88G-1-AG J6B100330-2-SAMP		1016.00g,in	srtb13259 02/21/06,pd 09/06/05,r YTA15341 Ex:11/13/2006	1.574 2.0425 .7716		24.2		3"	0712 7b 1006 3b 0913	3/22/06 K 3/25/06 K 3/26/06 K	
02/10/2006 09:24		AmtRec: 20ML,5XLP,3X4LP	#Containers: 9					Scr:	Alpha: -7.97E-04 uCi/Sa	Beta: 2.02E-03 uCi/Sa	
3 HW88P-1-AH J6B100332-1-SAMP		1009.10g,in	srtb13260 02/21/06,pd 09/06/05,r YTA15342 Ex:11/13/2006	1.612 2.0266 .7954		25.1		9"	0752 7c 1006 3c 0913	3/22/06 K 3/25/06 K 3/26/06 K	
02/10/2006 13:08		AmtRec: 20ML,2X500P,6XLP,3X4LP	#Containers: 12					Scr:	Alpha: 5.19E-04 uCi/Sa	Beta: 2.26E-04 uCi/Sa	
4 HW885-1-AG J6B100334-1-SAMP		998.70g,in	srtb13261 02/21/06,pd 09/06/05,r YTA15343 Ex:11/13/2006	1.735 2.0497 .8465		24.8		3"	0752 1A 1006 3d 0913	3/22/06 K 3/25/06 K 3/26/06 K	
02/10/2006 08:36		AmtRec: 20ML,5XLP,3X4LP	#Containers: 9					Scr:	Alpha: 4.40E-03 uCi/Sa	Beta: -8.07E-04 uCi/Sa	

3/13/2006 10:00:13 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Report Due: 03/30/2006

Batch: 6046272 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: HC , 57671

Balance Id:1120482733, 01
Pipet #: NA
Sep1 DT/Tm Tech: 3-17-06 3:04 PM
Sep2 DT/Tm Tech: 3-24-06 10:40 AM
Prep Tech: ,GiroirB

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 HW89H-1-AF		1001.80g,in	srtb13262	1.039				9"	0826	3/22/06 R	
J6B100334-2-SAMP			02/21/06,pd								
			09/06/05,r	2.0382			30				
			YTA15344	.5098					1c	1006 3/25/06 r	
			Ex:11/13/2006			244	100		4a	0913 3/26/06 R	
02/10/2006 11:02		AmtRec: 20ML,5XLP,4LP		#Containers: 7				Scr:	Alpha: -6.24E-05 uCi/Sa	Beta: 2.23E-03 uCi/Sa	
6 HW89H-1-AG-X		1008.30g,in	srtb13263	1.015				3"	0826	3/22/06 R	
J6B100334-2-DUP			02/21/06,pd								
			09/06/05,r	2.0541							
			YTA15345	.4941					1d	1006 3/25/06 R	
			Ex:11/13/2006			238			4b	0913 3/26/06 R	
02/10/2006 11:02		AmtRec: 20ML,5XLP,4LP		#Containers: 7				Scr:	Alpha: -6.24E-05 uCi/Sa	Beta: 2.23E-03 uCi/Sa	
7 HXGW5-1-AA-B		998.10g,in	srtb13264	1.254				9"	0904	3/22/06 R	
J6B150000-272-BLK			02/21/06,pd								
			09/06/05,r	2.0353							
			YTA15346	.6161					4A 1006 3/25/06 RS		
			Ex:11/13/2006			23.7			4c 0913 3/26/06 R		
02/10/2006 11:02		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:	
8 HXGW5-1-AC-C		1003.90g,in	srsg1202	1.337				3"	0904	3/22/06 R2	
J6B150000-272-LCS			03/13/06,pd								
			09/06/05,r	1.9981							
			YTA15347	.6691					4b 1006 3/25/06 R		
			Ex:11/13/2006			23.6			4d 0913 3/26/06 R		
02/10/2006 11:02		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:	

3/13/2006 10:00:15 AM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

Report Due: 03/30/2006

Sep1 DT/Tm Tech:

Batch: 6046272 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,GiroirB

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

Comments:

Out Reviewed 2-2

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

HW88C1AG-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

HXGW51AA-BLK:

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

HXGW51AC-LCS:

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

HW88C1AG-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

HXGW51AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

HXGW51AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

3/29/2006 8:25:44 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/29/2005, 4/3/2006, Batch: '6046272', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6046272						
AC		**CalcC**	**GiroirB**	3/13/2006 7:38:09		
SC			wagarr	IsBatched	2/15/2006 11:00:23 AM	ICOC_RADCALC v4.8.18
SC			GiroirB	InPrep	3/13/2006 7:38:09 AM	RICH-RC-5016 REVISION 5
SC			GiroirB	Prep1C	3/13/2006 10:13:24 AM	RICH-RC-5016 REVISION 5
SC			FABREM	InSep1	3/13/2006 5:12:58 PM	RICH-RC-5006 REVISION 6
SC			FABREM	Sep1C	3/21/2006 12:53:53 PM	RICH-RC-5006 REVISION 6
SC			BlackCL	InCnt1	3/21/2006 12:58:27 PM	RICH-RD-0007 REVISION 5
SC			FABREM	InSep2	3/22/2006 4:45:01 PM	RICH-RC-5071 REVISION 4
SC			FABREM	Sep2C	3/24/2006 4:11:48 PM	RICH-RC-5071 REVISION 4
SC			DAWKINSO	InCnt2	3/24/2006 4:23:14 PM	RICH-RD-0003 REVISION 4
SC			StringerR	CalcC	3/26/2006 9:45:28 AM	RICH-RD-0003 REVISION 4
AC			**GiroirB**	3/13/2006 10:13:24		
AC			**FABREM**	3/13/2006 5:12:58 PM		
AC			**FABREM**	3/21/2006 12:53:53		
AC			**BlackCL**	3/21/2006 12:58:27		
AC			**FABREM**	3/22/2006 4:45:01 PM		
AC			**FABREM**	3/24/2006 4:11:48 PM		
AC			**DAWKINSO**	3/24/2006 4:23:14 PM		
AC			**StringerR**	3/26/2006 9:45:28		

AC: Accepting Entry; SC: Status Change

3/24/2006 6:47:35 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

Report Due: 03/30/2006 W04866

Sep1 DT/Tm Tech:

Batch: 6046282 WATER pCi/L PM, Quote: HC , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WAGNERJ

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 HXD3M-1-AD J6B140152-1-SAMP 02/13/2006 13:00		126.20g,in AmtRec: 20ML,500P,5XLP	#Containers: 7	60		Scr:	Alpha: -1.14E-03 uCi/Sa	Beta: 1.17E-03 uCi/Sa
2 HXD3M-1-AF-X J6B140152-1-DUP 02/13/2006 13:00		127.10g,in AmtRec: 20ML,500P,5XLP	#Containers: 7	60		Scr:	Alpha: -1.14E-03 uCi/Sa	Beta: 1.17E-03 uCi/Sa
3 HXD3Q-1-AC J6B140152-2-SAMP 02/13/2006 12:14		125.30g,in AmtRec: 20ML,500P,4XLP	#Containers: 6	60		Scr:	Alpha: -1.29E-03 uCi/Sa	Beta: 1.39E-03 uCi/Sa
4 HXD3Q-1-AE-S J6B140152-2-MS 02/13/2006 12:14		125.40g,in AmtRec: 20ML,500P,4XLP	tcsg1564 02/09/06,pd 01/10/06,r #Containers: 6	60		Scr:	Alpha: -1.29E-03 uCi/Sa	Beta: 1.39E-03 uCi/Sa
5 HXD4C-1-AC J6B140156-5-SAMP 02/13/2006 10:45		125.40g,in AmtRec: 20ML,500P,4XLP	#Containers: 6	60		Scr:	Alpha: -4.06E-04 uCi/Sa	Beta: 8.03E-04 uCi/Sa
6 HXD4E-1-AC J6B140156-6-SAMP 02/13/2006 11:28		128.40g,in AmtRec: 20ML,500P,4XLP	#Containers: 6	60		Scr:	Alpha: -4.57E-04 uCi/Sa	Beta: 8.55E-04 uCi/Sa
7 HXGXJ-1-AA-B J6B150000-282-BLK 02/13/2006 13:00		126.70g,in AmtRec:	#Containers: 1	60		Scr:	Alpha:	Beta:

3/24/2006 6:47:36 PM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

Report Due: 03/30/2006

Sep1 DT/Tm Tech:

Batch: 6046282 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WAGNERJ

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 HXGXJ-1-AC-C J6B150000-282-LCS 02/13/2006 13:00		127.90g,in AmtRec:	tcse1913 03/15/06,pd 01/10/06,r #Containers: 1	60			Scr: Alpha: Beta:	
9 HXGXJ-1-AD-BN J6B150000-282-IBLK 02/13/2006 13:00		AmtRec:	#Containers: 1	60			Scr: Alpha: Beta:	

Comments: PHL2. 3.24.06
HXD3Q-1AE-MS - scorched dryness during step 11.2.12. DM 3/29/06

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

HXD3M1AD-SAMP Constituent List:
Tc-99 RDL:1.50E+01 pCi/L LCL:70 UCL:130 RPD:20
HXD3Q1AE-MS:

HXGXJ1AA-BLK:
Tc-99 RDL:1.50E+01 pCi/L LCL: UCL: RPD:
HXGXJ1AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
HXGXJ1AD-IBLK:
Tc-99 RDL:1.50E+01 pCi/L LCL: UCL: RPD:

HXD3M1AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
HXD3Q1AE-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
HXGXJ1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
HXGXJ1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
HXGXJ1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

3/24/2006 6:47:37 PM

Sample Preparation/Analysis

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

Report Due: 03/30/2006

Batch: 6046282 **pCi/L**
SEQ Batch, Test: None

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

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

Approved By _____ **Date:** _____

3/30/2006 10:29:25 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/30/2005, 4/4/2006, Batch: '6046282', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6046282						
AC		**CalcC**	**WAGNERJ**	3/24/2006 6:42:07 PM		
SC			wagarr	IsBatched	2/15/2006 11:00:23 AM	ICOC_RADCALC v4.8.18
SC			WAGNERJ	InPrep	3/24/2006 6:42:07 PM	RICH-RC-5016 REVISION 6
SC			WAGNERJ	Prep1C	3/24/2006 6:50:47 PM	RICH-RC-5016 REVISION 6
SC			BlackCL	InCnt1	3/29/2006 1:08:15 PM	RICH-RD-0001 REVISION 3
SC			BlackCL	CalcC	3/30/2006 7:42:33 AM	RICH-RD-0001 REVISION 3
AC			**WAGNERJ**	3/24/2006 6:50:47 PM		
AC			**BlackCL**	3/29/2006 1:08:15 PM		
AC			**BlackCL**	3/30/2006 7:42:33		

AC: Accepting Entry; SC: Status Change

3/24/2006 6:28:53 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

Report Due: 03/30/2006 W04866

Sep1 DT/Tm Tech:

Batch: 6046284 WATER pCi/L PM, Quote: HC , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WAGNERJ

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 HW88P-1-AJ J6B100332-1-SAMP 02/10/2006 13:08			127.20g,in	127.20g		60				
	AmtRec: 20ML,2X500P,6XLP,3X4LP #Containers: 12							Scr:	Alpha: 5.19E-04 uCi/Sa	Beta: 2.26E-04 uCi/Sa
2 HXD3T-1-AF J6B140152-3-SAMP 02/13/2006 11:25			128.00g,in	128.00g		60				
	AmtRec: 20ML,2X500P,2XLP,4LP #Containers: 6							Scr:	Alpha: 3.10E-03 uCi/Sa	Beta: 9.14E-04 uCi/Sa
3 HXD34-1-AC J6B140156-1-SAMP 02/13/2006 13:00			125.60g,in	125.60g		60				
	AmtRec: 20ML,500P,LP #Containers: 3							Scr:	Alpha: -9.95E-05 uCi/Sa	Beta: 2.48E-04 uCi/Sa
4 HXD34-1-AD-X J6B140156-1-DUP 02/13/2006 13:00			125.80g,in	125.80g		60				
	AmtRec: 20ML,500P,LP #Containers: 3							Scr:	Alpha: -9.95E-05 uCi/Sa	Beta: 2.48E-04 uCi/Sa
5 HXD36-1-AC J6B140156-2-SAMP 02/13/2006 13:02			126.70g,in	126.70g		60				
	AmtRec: 20ML,500P,LP #Containers: 3							Scr:	Alpha: 2.02E-05 uCi/Sa	Beta: 8.93E-05 uCi/Sa
6 HXD36-1-AD-S J6B140156-2-MS 02/13/2006 13:02			127.50g,in	127.50g	tcsg1563 02/09/06,pd 01/10/06,r	60				
	AmtRec: 20ML,500P,LP #Containers: 3							Scr:	Alpha: 2.02E-05 uCi/Sa	Beta: 8.93E-05 uCi/Sa
7 HXD37-1-AC J6B140156-3-SAMP 02/13/2006 10:13			129.60g,in	129.60g		60				
	AmtRec: 20ML,500P,LP #Containers: 3							Scr:	Alpha: 3.13E-04 uCi/Sa	Beta: -2.49E-04 uCi/Sa

3/24/2006 6:28:54 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

Report Due: 03/30/2006

Sep1 DT/Tm Tech:

Batch: 6046284 **WATER** **pCi/L** **PM, Quote: HC , 57671**

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WAGNERJ

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 HXD39-1-AC J6B140156-4-SAMP 02/13/2006 11:53			127.30g,in	127.30g		60				
AmtRec: 20ML,500P,LP	#Containers: 3							Scr:	Alpha: -2.61E-04 uCi/Sa	Beta: 2.68E-04 uCi/Sa
9 HXGXM-1-AA-B J6B150000-284-BLK 02/13/2006 13:00			126.80g,in	126.80g		60				
AmtRec:	#Containers: 1							Scr:	Alpha:	Beta:
10 HXGXM-1-AC-C J6B150000-284-LCS 02/13/2006 13:00			126.80g,in	126.80g	tcse1912 03/15/06,pd 01/10/06,r	60				
AmtRec:	#Containers: 1							Scr:	Alpha:	Beta:
11 HXGXM-1-AD-BN J6B150000-284-IBLK 02/13/2006 13:00						60				
AmtRec:	#Containers: 1							Scr:	Alpha:	Beta:

Comments: PH<2. 3-24-06

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

HW88P1AJ-SAMP Constituent List:

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

HXD361AD-MS:

HXGXM1AA-BLK:

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

HXGXM1AC-LCS:

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

3/24/2006 6:28:55 PM

Sample Preparation/Analysis

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

Report Due: 03/30/2006

Batch: 6046284 **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:

```
HXGXM1AD-IBLK:
  Tc-99        RDL:15          pCi/L     LCL:        UCL:        RPD:
HW88P1AJ-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
HXD361AD-MS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
HXGXM1AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
HXGXM1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
HXGXM1AD-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

3/30/2006 7:46:55 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/30/2005, 4/4/2006, Batch: '6046284', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6046284						
AC		**CalcC**	**WAGNERJ**	3/24/2006 6:20:58 PM		
SC			wagarr	IsBatched	2/15/2006 11:00:23 AM	ICOC_RADCALC v4.8.18
SC			WAGNERJ	InPrep	3/24/2006 6:20:58 PM	RICH-RC-5016 REVISION 6
SC			WAGNERJ	Prep1C	3/24/2006 6:30:02 PM	RICH-RC-5016 REVISION 6
SC			AntonsonL	InSep1	3/28/2006 4:18:26 PM	RICHRC5078 REVISION 3
SC			DAWKINSO	InCnt1	3/28/2006 4:25:31 PM	RICH-RD-0001 REVISION 3
SC			BlackCL	CalcC	3/29/2006 10:38:32 AM	RICH-RD-0001 REVISION 3
AC			**WAGNERJ**	3/24/2006 6:30:02 PM		
AC			**AntonsonL**	3/28/2006 4:18:26 PM		
AC			**DAWKINSO**	3/28/2006 4:25:31 PM		
AC			**BlackCL**	3/29/2006 10:38:32		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.18

2/15/2006 10:58:48 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Labortories ,
Pacific Northwest National Lab

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

Report Due: 03/30/2006 W048606

Batch: 6046244 **WATER** **pCi/L** **PM, Quote: HC , 57671**
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 3-2-06 [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 HW875-1-AA J6B100329-1-SAMP 02/10/2006 12:12	AmtRec: 20ML,LP,2X4LP	#Containers: 4				Scr:	Alpha: 2.65E-03 uCi/Sa	Beta: 2.03E-03 uCi/Sa
2 HW875-1-AD-X J6B100329-1-DUP 02/10/2006 12:12	AmtRec: 20ML,LP,2X4LP	#Containers: 4				Scr:	Alpha: 2.65E-03 uCi/Sa	Beta: 2.03E-03 uCi/Sa
3 HW88C-1-AA J6B100330-1-SAMP 02/10/2006 07:30	AmtRec: 20ML,5XLP,3X4LP	#Containers: 9				Scr:	Alpha: 1.29E-03 uCi/Sa	Beta: -4.04E-04 uCi/Sa
4 HW88G-1-AA J6B100330-2-SAMP 02/10/2006 09:24	AmtRec: 20ML,5XLP,3X4LP	#Containers: 9				Scr:	Alpha: -7.97E-04 uCi/Sa	Beta: 2.02E-03 uCi/Sa
5 HW88P-1-AA J6B100332-1-SAMP 02/10/2006 13:08	AmtRec: 20ML,2X500P,6XLP,3X4LP	#Containers: 12				Scr:	Alpha: 5.19E-04 uCi/Sa	Beta: 2.26E-04 uCi/Sa
6 HW88W-1-AA J6B100332-2-SAMP 02/10/2006 09:47	AmtRec: 20ML,LP	#Containers: 2				Scr:	Alpha: 3.50E-05 uCi/Sa	Beta: 1.54E-04 uCi/Sa
7 HW880-1-AA J6B100332-3-SAMP 02/10/2006 11:45	AmtRec: 20ML,LP	#Containers: 2				Scr:	Alpha: -3.40E-05 uCi/Sa	Beta: 8.29E-05 uCi/Sa

2/15/2006 10:58:49 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Labortories ,
Pacific Northwest National Lab

Report Due: 03/30/2006

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

Batch: 6046244 **WATER** **pCi/L** **PM, Quote: HC , 57671**
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 3-2-06 DM
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 HW885-1-AA J6B100334-1-SAMP 02/10/2006 08:36	AmtRec: 20ML,5XLP,3X4LP	#Containers: 9				Scr:	Alpha: 4.40E-03 uCi/Sa	Beta: -8.07E-04 uCi/Sa
9 HW89H-1-AA J6B100334-2-SAMP 02/10/2006 11:02	AmtRec: 20ML,5XLP,4LP	#Containers: 7				Scr:	Alpha: -6.24E-05 uCi/Sa	Beta: 2.23E-03 uCi/Sa
10 HXD3M-1-AA J6B140152-1-SAMP 02/13/2006 13:00	AmtRec: 20ML,500P,5XLP	#Containers: 7				Scr:	Alpha:	Beta:
11 HXD3Q-1-AA J6B140152-2-SAMP 02/13/2006 12:14	AmtRec: 20ML,500P,4XLP	#Containers: 6				Scr:	Alpha:	Beta:
12 HXD3T-1-AA J6B140152-3-SAMP 02/13/2006 11:25	AmtRec: 20ML,2X500P,2XLP,4LP	#Containers: 6				Scr:	Alpha:	Beta:
13 HXD34-1-AA J6B140156-1-SAMP 02/13/2006 13:00	AmtRec: 20ML,500P,LP	#Containers: 3				Scr:	Alpha:	Beta:
14 HXD36-1-AA J6B140156-2-SAMP 02/13/2006 13:02	AmtRec: 20ML,500P,LP	#Containers: 3				Scr:	Alpha:	Beta:

2/15/2006 10:58:49 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Labortories ,
Pacific Northwest National Lab

Report Due: 03/30/2006

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

Balance Id: 124445
Pipet #:
Sep1 DT/Tm Tech: 3-2-06 [illegible]
Sep2 DT/Tm Tech:
Prep Tech:

Batch: 6046244 **WATER** **pCi/L** **PM, Quote: HC , 57671**
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15HXD37-1-AA J6B140156-3-SAMP 02/13/2006 10:13	AmtRec: 20ML,500P,LP	#Containers: 3				Scr:	Alpha:	Beta:
16HXD39-1-AA J6B140156-4-SAMP 02/13/2006 11:53	AmtRec: 20ML,500P,LP	#Containers: 3				Scr:	Alpha:	Beta:
17HXD4C-1-AA J6B140156-5-SAMP 02/13/2006 10:45	AmtRec: 20ML,500P,4XLP	#Containers: 6				Scr:	Alpha:	Beta:
18HXD4E-1-AA J6B140156-6-SAMP 02/13/2006 11:28	AmtRec: 20ML,500P,4XLP	#Containers: 6				Scr:	Alpha:	Beta:
19HXD40-1-AA J6B140166-1-SAMP 02/13/2006 10:09	AmtRec: 20ML,LP,2X4LP	#Containers: 4				Scr:	Alpha:	Beta:
20HXGTA-1-AA-B J6B150000-244-BLK 02/10/2006 12:12	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
21HXGTA-1-AC-C J6B150000-244-LCS 02/10/2006 12:12	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

2/15/2006 10:58:50 AM

Sample Preparation/Analysis

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

Report Due: 03/30/2006

Batch: 6046244 **pCi/L**
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 3-2-06 [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:
22 HXGTA-1-AD-BX J6B150000-244-MBLK 02/10/2006 12:12	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
23 HXGTA-1-AE-CM J6B150000-244-MLCS 02/10/2006 12:12	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
24 HXGTA-1-AF-BN J6B150000-244-IBLK 02/10/2006 12:12	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
25 HXGTA-1-AG-BN J6B150000-244-IBLK 02/10/2006 12:12	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
26 HXGTA-1-AH-BN J6B150000-244-IBLK 02/10/2006 12:12	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
27 HXGTA-1-AJ-BN J6B150000-244-IBLK 02/10/2006 12:12	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

2/15/2006 10:58:51 AM

Sample Preparation/Analysis

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

Report Due: 03/30/2006

Batch: 6046244 pCi/L
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 3-7 06 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:

Comments:

All Clients for Batch:
384868, Pacific Northwest National Labortories Pacific Northwest National Lab, HC , 57671

HW8751AA-SAMP Constituent List:

H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20
HXGTA1AA-BLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:
HXGTA1AC-LCS:					
H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20
HXGTA1AD-MBLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:
HXGTA1AE-MLCS:					
H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20
HXGTA1AF-IBLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:
HXGTA1AG-IBLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:
HXGTA1AH-IBLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:
HXGTA1AJ-IBLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:

HW8751AA-SAMP Calc Info:

Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
HXGTA1AA-BLK:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
HXGTA1AC-LCS:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
HXGTA1AD-MBLK:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
HXGTA1AE-MLCS:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
HXGTA1AF-IBLK:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
HXGTA1AG-IBLK:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B

2/15/2006 10:58:51 AM

Sample Preparation/Analysis

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

Report Due: 03/30/2006

Batch: 6046244 pCi/L
SEQ Batch, Test: None

Balance Id: 171445
Pipet #:
Sep1 DT/Tm Tech: 3-2-06 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:

HXGTA1AH-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
HXGTA1AJ-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

3/7/2006 2:42:25 PM

ICOC Fraction Transfer/Status Report

ByDate: 3/7/2005, 3/12/2006, Batch: '6046244', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6046244						
AC		**CalcC**	**McDowellD**	2/28/2006 2:43:23 PM		
SC			wagarr	IsBatched	2/15/2006 11:00:23 AM	ICOC_RADCALC v4.8.18
SC			McDowellD	InSep1	2/28/2006 2:43:23 PM	RICH-RC-5007 REVISION 6
SC			McDowellD	Sep1C	3/2/2006 1:47:25 PM	RICH-RC-5007 REVISION 6
SC			DAWKINSO	InCnt1	3/2/2006 1:55:03 PM	RICH-RD-0001 REVISION 3
SC			BlackCL	CalcC	3/4/2006 1:46:17 PM	RICH-RD-0001 REVISION 3
AC			**McDowellD**	3/2/2006 1:47:25 PM		
AC			**DAWKINSO**	3/2/2006 1:55:03 PM		
AC			**BlackCL**	3/4/2006 1:46:17 PM		

AC: Accepting Entry; SC: Status Change

3/24/2006 6:17:01 PM

Sample Preparation/Analysis

Balance Id:I4 A

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: 240

Report Due: 03/30/2006 LW04866

Sep1 DT/Tm Tech:

Batch: 6046298 WATER ug/L PM, Quote: HC , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WAGNERJ Scott

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 HW88P-1-AK J6B100332-1-SAMP 02/10/2006 13:08	Final Vol 10.0ml	28.30g,in AmtRec: 20ML,2X500P,6XLP,3X4LP #Containers: 12				Scr:	Alpha: 5.19E-04 uCi/Sa	Beta: 2.26E-04 uCi/Sa
2 HXD3M-1-AE J6B140152-1-SAMP 02/13/2006 13:00		25.20g,in AmtRec: 20ML,500P,5XLP #Containers: 7				Scr:	Alpha: -1.14E-03 uCi/Sa	Beta: 1.17E-03 uCi/Sa
3 HXD3M-1-AG-X J6B140152-1-DUP 02/13/2006 13:00		27.50g,in AmtRec: 20ML,500P,5XLP #Containers: 7				Scr:	Alpha: -1.14E-03 uCi/Sa	Beta: 1.17E-03 uCi/Sa
4 HXD3Q-1-AD J6B140152-2-SAMP 02/13/2006 12:14		27.70g,in AmtRec: 20ML,500P,4XLP #Containers: 6				Scr:	Alpha: -1.29E-03 uCi/Sa	Beta: 1.39E-03 uCi/Sa
5 HXD3Q-1-AF-S J6B140152-2-MS 02/13/2006 12:14		27.20g,in AmtRec: 20ML,500P,4XLP #Containers: 6	unsf3027 03/08/06,pd 03/22/05,r			Scr:	Alpha: -1.29E-03 uCi/Sa	Beta: 1.39E-03 uCi/Sa
6 HXD3T-1-AG J6B140152-3-SAMP 02/13/2006 11:25		29.90g,in AmtRec: 20ML,2X500P,2XLP,4LP #Containers: 6				Scr:	Alpha: 3.10E-03 uCi/Sa	Beta: 9.14E-04 uCi/Sa
7 HXD4C-1-AD J6B140156-5-SAMP 02/13/2006 10:45		29.70g,in AmtRec: 20ML,500P,4XLP #Containers: 6				Scr:	Alpha: -4.06E-04 uCi/Sa	Beta: 8.03E-04 uCi/Sa

3/24/2006 6:17:02 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

Report Due: 03/30/2006

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

Balance Id:I4 A
Pipet #: 240
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,WAGNERJ

Batch: 6046298 **WATER** **ug/L** **PM, Quote: HC , 57671**
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 HXD4E-1-AD J6B140156-6-SAMP 02/13/2006 11:28	Final 001 10.0 ml	25.50g,in AmtRec: 20ML,500P,4XLP	#Containers: 6			Scr:	Alpha: -4.57E-04 uCi/Sa	Beta: 8.55E-04 uCi/Sa
9 HXG0H-1-AA-B J6B150000-298-BLK 02/13/2006 13:00		25.00g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
10 HXG0H-1-AC-C J6B150000-298-LCS 02/13/2006 13:00		25.10g,in AmtRec:	unsf3028 03/08/06,pd 03/22/05,r #Containers: 1			Scr:	Alpha:	Beta:
11 HXG0H-1-AD-C J6B150000-298-LCS 02/13/2006 13:00		25.70g,in AmtRec:	unsc1054 01/31/06,pd 09/17/04,r #Containers: 1			Scr:	Alpha:	Beta:

Comments: PH<2 3/24/06

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

HW88P1AK-SAMP Constituent List:

Uranium	RDL:1.44E-01	ug/L	LCL:	UCL:	RPD:

HXD3Q1AF-MS:

HXG0H1AA-BLK:

Uranium	RDL:1.44E-01	ug/L	LCL:	UCL:	RPD:

HXG0H1AC-LCS:

Uranium	RDL:0.144343	ug/L	LCL:70	UCL:130	RPD:20

3/24/2006 6:17:03 PM

Sample Preparation/Analysis

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

Balance Id:I4 A

Pipet #: _____

Report Due: 03/30/2006

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Batch: 6046298 ug/L
SEQ Batch, Test: None

Prep Tech: ,WAGNERJ

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:

```
HXG0H1AD-LCS:
 Uranium      RDL:0.144343    ug/L      LCL:70      UCL:130      RPD:20
HW88P1AK-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
HXD3Q1AF-MS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
HXG0H1AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
HXG0H1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
HXG0H1AD-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

3/30/2006 7:53:51 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/30/2005, 4/4/2006, Batch: '6046298', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6046298						
AC		**Cnt1C**	**WAGNERJ**	3/24/2006 6:09:14 PM		
SC			wagarr	IsBatched	2/15/2006 11:00:23 AM	ICOC_RADCALC v4.8.18
SC			WAGNERJ	InPrep	3/24/2006 6:09:14 PM	RICH-RC-5015 REVISION 4
SC			ScottM	InPrep2	3/27/2006 8:29:11 AM	RICH-RC-5015 REVISION 4
SC			ScottM	Prep2C	3/28/2006 3:39:47 PM	RICH-RC-5015 REVISION 4
SC			BarbosaH	Cnt1C	3/29/2006 4:27:13 PM	RICH-RC-5058 REVISION 7
AC			**ScottM**	3/27/2006 8:29:11		
AC			**ScottM**	3/28/2006 3:39:47 PM		
AC			**BarbosaH**	3/29/2006 4:27:13 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.18