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W05101

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ICOC 134

TOTAL # PAGES IN DOCUMENT 143

Rec 3/19/07

Analytical Data Package Prepared For

Pacific Northwest National Lab

Radiochemical Analysis By

STL Richland STLRL

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

Data Package Contains _____ Pages

Report Nbr: 34659

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05101	S07-001	B1LP43	J7A230268-1	JM8241AA	9JM82410	7031404
		B1LP43	J7A230268-1	JM8241AC	9JM82410	7031399
		B1LP34	J7A230268-2	JM8281AA	9JM82810	7031455
		B1LP34	J7A230268-2	JM8281AC	9JM82810	7031450
		B1LP34	J7A230268-2	JM8281AD	9JM82810	7031398
		B1LP34	J7A230268-2	JM8281AE	9JM82810	7031458
		B1LP34	J7A230268-2	JM8281AF	9JM82810	7031399
	S07-012	B1LC45	J7A230278-1	JM83H1AA	9JM83H10	7031450
		B1LD58	J7A250121-1	JNCXW1AA	9JNCXW10	7031399
		B1LD58	J7A250121-1	JNCXW1AD	9JNCXW10	7031396
		B1LD58	J7A250121-1	JNCXW2AC	9JNCXW20	7046186
		B1LD63	J7A250121-2	JNCX11AA	9JNCX110	7031396
	S07-001	B1LPC9	J7A250129-1	JNC0N1AA	9JNC0N10	7031404
		B1LPC9	J7A250129-1	JNC0N1AC	9JNC0N10	7031465
		B1LPC9	J7A250129-1	JNC0N1AE	9JNC0N10	7031455

Comments:

Report Nbr: 34659

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05101	S07-001	B1LPC9	J7A250129-1	JNC0N1AF	9JNC0N10	7031450
		B1LPC9	J7A250129-1	JNC0N1AG	9JNC0N10	7031458
		B1LPC9	J7A250129-1	JNC0N2AD	9JNC0N20	7053500
		B1LPB1	J7A250129-2	JNC021AA	9JNC0210	7031404
		B1LPB1	J7A250129-2	JNC021AC	9JNC0210	7031465
		B1LPB1	J7A250129-2	JNC021AE	9JNC0210	7031455
		B1LPB1	J7A250129-2	JNC021AF	9JNC0210	7031450
		B1LPB1	J7A250129-2	JNC021AG	9JNC0210	7031458
		B1LPB1	J7A250129-2	JNC022AD	9JNC0220	7053500
		B1LPB5	J7A250129-3	JNC091AA	9JNC0910	7031404
		B1LPB5	J7A250129-3	JNC091AC	9JNC0910	7031465
		B1LPB5	J7A250129-3	JNC091AE	9JNC0910	7031455
		B1LPB5	J7A250129-3	JNC091AF	9JNC0910	7031450
		B1LPB5	J7A250129-3	JNC091AG	9JNC0910	7031458
		B1LPB5	J7A250129-3	JNC092AD	9JNC0920	7053500
	S07-012	B1LC85	J7A250138-2	JNC241AA	9JNC2410	7031455
		B1LC85	J7A250138-2	JNC241AC	9JNC2410	7031458
	W07-012	B1LJD1	J7A250148-1	JNC411AA	9JNC4110	7031399
	I07-021	B1LNF9	J7A250163-1	JNC7W1AA	9JNC7W10	7031450
	S07-001	B1LP00	J7A260157-1	JNFMN1AA	9JNFMN10	7031450
	W07-001	B1LRM1	J7A260178-1	JNFRX1AA	9JNFRX10	7031465
		B1LRM1	J7A260178-1	JNFRX2AC	9JNFRX20	7053500
	W07-012	B1LJ46	J7A260181-1	JNFTQ1AC	9JNFTQ10	7031455
		B1LJ46	J7A260181-1	JNFTQ1AD	9JNFTQ10	7031399
		B1LJ46	J7A260181-1	JNFTQ1AE	9JNFTQ10	7031396
		B1LJ46	J7A260181-1	JNFTQ2AA	9JNFTQ20	7053500

Comments:

Report Nbr: 34659

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05101	W07-012	B1LJ45	J7A260181-2	JNFT01AC	9JNFT010	7031455
		B1LJ45	J7A260181-2	JNFT01AD	9JNFT010	7031399
		B1LJ45	J7A260181-2	JNFT01AE	9JNFT010	7031396
		B1LJ45	J7A260181-2	JNFT02AA	9JNFT020	7053500
	S07-010	B1KR91	J7A300174-1	JNKXW1AA	9JNKXW10	7031404
		B1KR91	J7A300174-1	JNKXW1AC	9JNKXW10	7031465
		B1KR91	J7A300174-1	JNKXW2AD	9JNKXW20	7053500
	I07-009	B1L208	J7A300180-1	JNK0D1AA	9JNK0D10	7031450
		B1L208	J7A300180-1	JNK0D1AC	9JNK0D10	7031399

Comments:

SEVERN TRENT STL

STL Richland
2800 George Washington Way
Richland, WA 99354

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

Certificate of Analysis

Pacific Northwest National Laboratories
Sigma V Building
Richland, WA 99352

March 12, 2007

Attention: Dot Stewart

SAF Number	:	W07-001, S07-001, S07-012, W07-012, S07-010, I07-021, I07-009
Date SDG Closed	:	January 26, 2007
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05101
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between January 24, 2007 and January 26, 2007, twenty water samples were received at STL Richland (STLR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Pacific Northwest National Laboratories (PGW) specific IDs:

PGW ID#	STLR ID#	MATRIX	DATE OF RECEIPT
B1LP43	JM824	WATER	1/23/07
B1LP34	JM828	WATER	1/28/07
B1LC45	JM83H	WATER	1/23/07
B1LD58	JNCXW	WATER	1/24/07
B1LD63	JNCX1	WATER	1/24/07
B1LPC9	JNC0N	WATER	1/24/07
B1LPB1	JN C02	WATER	1/24/07
B1LPB5	JNC09	WATER	1/24/07
B1LBV0	JNC2T	WATER	1/24/07
B1LC85	JNC24	WATER	1/24/07
B1LBV2	JNC3E	WATER	1/24/07
B1LBV4	JNC3P	WATER	1/24/07
B1LJD1	JNC41	WATER	1/24/07

B1LNF9	JNC7W	WATER	1/24/07
B1LP00	JNFMN	WATER	1/25/07
B1LRM1	JNFRX	WATER	1/25/07
B1LJ46	JNFTQ	WATER	1/25/07
B1LJ45	JNFT0	WATER	1/25/07
B1KR91	JNKXW	WATER	1/26/07
B1L208	JNK0D	WATER	1/26/07

II. Sample Receipt

The samples were received in good condition and no anomalies were noted during check-in. Sample B1LHB1 had a coliform requested on it. It was missed in sample receiving and not given to the analyst before the holding time was up.

III. Analytical Results/Methodology

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

The requested analyses were:

Alpha Spectroscopy
Plutonium-238, -239/240 by method RICH-RC-5010
Uranium 234, 235 and 238 by method RICH-RC-5039
Gas Proportional Counting
Gross Alpha by method RICH-RC-5014
Gross Beta by method RICH-RC-5014
Strontium-90 by method RICH-RC-5006
Gamma Spectroscopy
Gamma Spec (LL) by method RICH-RC-5017
Iodine-129 (LL) by method RICH-RC-5025
Liquid Scintillation Counting
Enriched Tritium by method RICH-RC-5024
Technetium-99 by TEVA method RICH-RC-5065
Tritium by method RICH-RC-5007
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 (B1LP34) results are within contractual requirements.

Uranium 234, 235 and 238 by method RICH-RC-5039

On the first analysis the duplicate was out. It was reanalyzed with good results. Other than as noted, the LCS, batch blank, samples and sample duplicate (B1LD58) results are within contractual requirements.

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:

The LCS, batch blank, samples and sample duplicate (B1LPC9) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:

On the original analysis the LCS had a 17% recovery. It was rerun with good results. Except as noted, the LCS, batch blank, samples and sample duplicate (B1LJ46) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006

The LCS, batch blank, samples and sample duplicate (B1LC85) results are within contractual requirements.

Gamma Spectroscopy

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

There was an obvious blank spike switch. It was corrected in Rad Calc. Except as noted, the LCS, batch blank, samples and sample duplicate (B1LJ46) results are within contractual requirements.

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

The LCS, batch blank, samples and sample duplicate (B1L208) results are within contractual requirements.

Liquid Scintillation Counting

Enriched Tritium by method RICH-RC-5024

The enriched tritium analysis was not completed at the time of reporting.

Technetium-99 by TEVA method RICH-RC-5065:
The LCS, batch blank, samples, sample duplicate (B1LJD1), and sample matrix spike (B1L208) results are within contractual requirements.

Tritium by method RICH-RC-5007:
The LCS, batch blank, samples and sample duplicate (B1KR91) results are within contractual requirements.

Total Uranium
Total Uranium by method RICH-RC-5058:
The LCS, batch blank, samples, sample duplicate (B1LJ46), and sample matrix spike (B1LJ46) 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:

Sherryl A. Adam
Project Manager

Drinking Water Method Cross References

	DRINKING WATER ASTM METHOD CROSS REFERENCES	
Referenced Method	**Isotope(s)**	**STL Richland's SOP number**
EPA 901.1	Cs-134, I-131	RICH-RC-5017
EPA 900.0	Alpha & Beta	RICH-RC-5014
EPA 903.1	Ra-226	RICH-RC-5005
EPA 904.0	Ra-228	RICH-RC-5005
EPA 905.0	Sr89/90	RICH-RC-5006
ASTM D2460	Total Radium	RICH-RC-5027
Standard Method 7500-U-C & ASTM D5174	Uranium	RICH-RC-5058
EPA 906.0	Tritium	RICH-RC-5007
NOTE:		
The Gross Alpha LCS is prepared with Am-241 (unless otherwise specified in the case narrative)		
The Gross Beta LCS is prepared with Sr/Y-90 (unless otherwise specified in the case narrative)		

Uncertainty Estimation

STL Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, R = constants * f(x,y,z,...). The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/vn), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or STL Richland.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
Total Uncert (#s) *u_c - Combined Uncertainty.*	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, *u_c the combined uncertainty*. The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or STL Richland "default" nominal detection limit. Often referred to the reporting level (RL)
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. Lc=(1.645 * Sqrt(2*(BkgrndCnt/BkgrndCntMin)/SCntMin)) * (ConvFct/(Eff*Yld*Abn*Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC|MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. MDC = (4.65 * Sqrt((BkgrndCnt/BkgrndCntMin)/SCntMin) + 2.71/SCntMin) * (ConvFct/(Eff * Yld * Abn * Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the **Work Order** Number.
RER	The equation Replicate Error Ratio = (S-D)/[sqrt($TPUs^2$ + $TPUd^2$)] as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by STL Richland upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

3/12/2007 1:28:54 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34659 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.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:
9JM82410	B1LP43		MW6-SBB-A1	S07-001	W05101					01/23/2007 12:13

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7031404	H-3	10028-17-8	1.72E+04	pCi/L	4.4E+02	8.0E+02		3.10E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/11/2007 08:04	I
7031399	TC-99	14133-76-7	1.18E+02	pCi/L	7.2E+00	1.4E+01		9.94E+00	100.0	TC99_ETVDSK_LS	1.253E-01	L	02/13/2007 11:31	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JM82810	B1LP34		MW6-SBB-A1	S07-001	W05101					01/23/2007 12:56

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7031455	BE-7	13966-02-4	9.72E+00	pCi/L	2.1E+01	2.1E+01	U	4.14E+01		GAMMALL_GS	2.0003E+00	L	02/22/2007 05:11	I
7031455	CO-60	10198-40-0	1.09E+00	pCi/L	2.3E+00	2.3E+00	U	5.05E+00		GAMMALL_GS	2.0003E+00	L	02/22/2007 05:11	I
7031455	CS-134	13967-70-9	-7.39E-01	pCi/L	2.3E+00	2.3E+00	U	4.07E+00		GAMMALL_GS	2.0003E+00	L	02/22/2007 05:11	I
7031455	CS-137	10045-97-3	-1.05E+00	pCi/L	2.5E+00	2.5E+00	U	4.33E+00		GAMMALL_GS	2.0003E+00	L	02/22/2007 05:11	I
7031455	EU-152	14683-23-9	2.26E+00	pCi/L	5.9E+00	5.9E+00	U	1.11E+01		GAMMALL_GS	2.0003E+00	L	02/22/2007 05:11	I
7031455	EU-154	15585-10-1	-3.30E+00	pCi/L	7.0E+00	7.0E+00	U	1.24E+01		GAMMALL_GS	2.0003E+00	L	02/22/2007 05:11	I
7031455	EU-155	14391-16-3	8.64E-01	pCi/L	4.8E+00	4.8E+00	U	8.90E+00		GAMMALL_GS	2.0003E+00	L	02/22/2007 05:11	I
7031455	K-40	13966-00-2	-3.17E+01	pCi/L	5.5E+01	5.5E+01	U	1.22E+02		GAMMALL_GS	2.0003E+00	L	02/22/2007 05:11	I
7031455	RU-106	13967-48-1	-1.42E+01	pCi/L	2.1E+01	2.1E+01	U	3.46E+01		GAMMALL_GS	2.0003E+00	L	02/22/2007 05:11	I
7031455	SB-125	14234-35-6	9.74E-01	pCi/L	5.5E+00	5.5E+00	U	1.02E+01		GAMMALL_GS	2.0003E+00	L	02/22/2007 05:11	I
7031450	I-129L	15046-84-1	1.20E-01	pCi/L	1.5E-01	1.5E-01	U	2.92E-01	103.2	I129LL_SEP_LEPS	3.8928E+00	L	02/22/2007 17:59	I
7031398	PU-238	13981-16-3	0.00E+00	pCi/L	1.0E-01	1.0E-01	U	2.37E-01	69.0	PUISO_PLATE_AE	2.006E-01	L	02/14/2007 16:52	I
7031398	PU-239	PU-239/240	-1.98E-02	pCi/L	1.0E-01	1.0E-01	U	2.80E-01	69.0	PUISO_PLATE_AE	2.006E-01	L	02/14/2007 16:52	I
7031458	SR-90	10098-97-2	-2.42E-01	pCi/L	1.7E-01	1.7E-01	U	4.45E-01	78.5	SRISO_SEP_PRE	1.0054E+00	L	02/22/2007 07:46	I
7031399	TC-99	14133-76-7	1.29E+02	pCi/L	7.4E+00	1.5E+01		9.92E+00	100.0	TC99_ETVDSK_LS	1.255E-01	L	02/13/2007 11:31	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JM83H10	B1LC45		MW6-SBB-A1	S07-012	W05101					01/23/2007 12:31

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7031450	I-129L	15046-84-1	7.16E-01	pCi/L	2.9E-01	2.9E-01	U	4.71E-01	100.8	I129LL_SEP_LEPS	3.9072E+00	L	02/22/2007 18:03	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNC0210	B1LPB1		MW6-SBB-A1	S07-001	W05101					01/24/2007 09:31

STL Richland

rptFeadRadSummaryEdd v3.48

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

3/12/2007 1:28:54 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34659 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7031404	H-3	10028-17-8	2.44E+03	pCi/L	2.0E+02	2.5E+02		3.09E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/11/2007 10:48	I
7031465	ALPHA	12587-46-1	9.11E-01	pCi/L	1.1E+00	1.1E+00	U	2.11E+00	100.0	9310_ALPHABETA	1.945E-01	L	02/22/2007 11:33	I
7031455	BE-7	13966-02-4	-1.20E+00	pCi/L	1.9E+01	1.9E+01	U	3.62E+01		GAMMALL_GS	2.00E+00	L	02/22/2007 05:12	I
7031455	CO-60	10198-40-0	-1.48E+00	pCi/L	2.3E+00	2.3E+00	U	3.90E+00		GAMMALL_GS	2.00E+00	L	02/22/2007 05:12	I
7031455	CS-134	13967-70-9	2.83E-01	pCi/L	2.5E+00	2.5E+00	U	4.77E+00		GAMMALL_GS	2.00E+00	L	02/22/2007 05:12	I
7031455	CS-137	10045-97-3	3.51E-01	pCi/L	2.4E+00	2.4E+00	U	4.49E+00		GAMMALL_GS	2.00E+00	L	02/22/2007 05:12	I
7031455	EU-152	14683-23-9	3.35E+00	pCi/L	5.6E+00	5.6E+00	U	1.06E+01		GAMMALL_GS	2.00E+00	L	02/22/2007 05:12	I
7031455	EU-154	15585-10-1	-2.35E+00	pCi/L	7.5E+00	7.5E+00	U	1.35E+01		GAMMALL_GS	2.00E+00	L	02/22/2007 05:12	I
7031455	EU-155	14391-16-3	-1.59E+00	pCi/L	3.6E+00	3.6E+00	U	6.22E+00		GAMMALL_GS	2.00E+00	L	02/22/2007 05:12	I
7031455	K-40	13966-00-2	-1.94E+01	pCi/L	5.2E+01	5.2E+01	U	1.12E+02		GAMMALL_GS	2.00E+00	L	02/22/2007 05:12	I
7031455	RU-106	13967-48-1	-2.19E+01	pCi/L	2.1E+01	2.1E+01	U	3.33E+01		GAMMALL_GS	2.00E+00	L	02/22/2007 05:12	I
7031455	SB-125	14234-35-6	-1.24E+00	pCi/L	5.9E+00	5.9E+00	U	1.04E+01		GAMMALL_GS	2.00E+00	L	02/22/2007 05:12	I
7031450	I-129L	15046-84-1	5.20E-02	pCi/L	1.4E-01	1.4E-01	U	2.65E-01	92.2	I129LL_SEP_LEPS	3.897E+00	L	02/22/2007 20:00	I
7031458	SR-90	10098-97-2	4.50E-03	pCi/L	1.6E-01	2.3E-01	U	5.09E-01	70.1	SRISO_SEP_PRE	1.0019E+00	L	02/22/2007 07:46	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNC0220	B1LPB1		MW6-SBB-A1	S07-001	W05101					01/24/2007 09:31

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7053500	BETA	12587-47-2	9.40E+00	pCi/L	1.9E+00	2.2E+00		2.79E+00	100.0	9310_ALPHABETA	2.003E-01	L	02/26/2007 14:10	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:
9JNC0910	B1LPB5		MW6-SBB-A1	S07-001	W05101					01/24/2007 10:46

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7031404	H-3	10028-17-8	4.60E+04	pCi/L	7.0E+02	1.9E+03		3.09E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/11/2007 12:09	I
7031465	ALPHA	12587-46-1	7.20E-01	pCi/L	8.7E-01	8.9E-01	U	1.60E+00	100.0	9310_ALPHABETA	2.00E-01	L	02/22/2007 11:33	I
7031455	BE-7	13966-02-4	1.38E+01	pCi/L	2.2E+01	2.2E+01	U	4.31E+01		GAMMALL_GS	2.0025E+00	L	02/22/2007 05:12	I
7031455	CO-60	10198-40-0	-1.11E-01	pCi/L	2.4E+00	2.4E+00	U	4.64E+00		GAMMALL_GS	2.0025E+00	L	02/22/2007 05:12	I
7031455	CS-134	13967-70-9	-6.57E-01	pCi/L	2.3E+00	2.3E+00	U	4.19E+00		GAMMALL_GS	2.0025E+00	L	02/22/2007 05:12	I
7031455	CS-137	10045-97-3	-1.36E+00	pCi/L	2.0E+00	2.0E+00	U	3.26E+00		GAMMALL_GS	2.0025E+00	L	02/22/2007 05:12	I
7031455	EU-152	14683-23-9	-5.19E+00	pCi/L	5.7E+00	5.7E+00	U	9.08E+00		GAMMALL_GS	2.0025E+00	L	02/22/2007 05:12	I
7031455	EU-154	15585-10-1	6.31E-01	pCi/L	5.7E+00	5.7E+00	U	1.18E+01		GAMMALL_GS	2.0025E+00	L	02/22/2007 05:12	I
7031455	EU-155	14391-16-3	1.54E+00	pCi/L	3.9E+00	3.9E+00	U	7.34E+00		GAMMALL_GS	2.0025E+00	L	02/22/2007 05:12	I

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

7031455	K-40	13966-00-2	3.52E+00	pCi/L	4.2E+01	4.2E+01	U	9.42E+01		GAMMALL_GS	2.0025E+00	L	02/22/2007	05:12	I
7031455	RU-106	13967-48-1	1.90E+00	pCi/L	1.8E+01	1.8E+01	U	3.47E+01		GAMMALL_GS	2.0025E+00	L	02/22/2007	05:12	I
7031455	SB-125	14234-35-6	-2.45E+00	pCi/L	5.8E+00	5.8E+00	U	1.00E+01		GAMMALL_GS	2.0025E+00	L	02/22/2007	05:12	I
7031450	I-129L	15046-84-1	2.33E+00	pCi/L	4.3E-01	4.3E-01		2.82E-01	97.6	I129LL_SEP_LEPS	3.937E+00	L	02/22/2007	20:04	I
7031458	SR-90	10098-97-2	-4.12E-03	pCi/L	2.0E-01	2.0E-01	U	4.50E-01	73.6	SRISO_SEP_PRE	1.0013E+00	L	02/22/2007	07:46	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNC0920	B1LPB5		MW6-SBB-A1	S07-001	W05101					01/24/2007 10:46

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7053500	BETA	12587-47-2	1.59E+01	pCi/L	2.2E+00	3.0E+00		2.83E+00	100.0	9310_ALPHABETA	2.017E-01	L	02/26/2007 14:10	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:
9JNC0N10	B1LPC9		MW6-SBB-A1	S07-001	W05101					01/24/2007 12:16

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7031404	H-3	10028-17-8	6.75E+04	pCi/L	8.4E+02	2.7E+03		3.10E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/11/2007 09:26	I
7031465	ALPHA	12587-46-1	2.42E+00	pCi/L	1.6E+00	1.7E+00		2.22E+00	100.0	9310_ALPHABETA	2.006E-01	L	02/22/2007 11:33	I
7031455	BE-7	13966-02-4	-2.93E+01	pCi/L	2.6E+01	2.6E+01	U	3.90E+01		GAMMALL_GS	1.9997E+00	L	02/22/2007 05:08	I
7031455	CO-60	10198-40-0	-1.46E+00	pCi/L	2.9E+00	2.9E+00	U	5.13E+00		GAMMALL_GS	1.9997E+00	L	02/22/2007 05:08	I
7031455	CS-134	13967-70-9	-7.51E-01	pCi/L	3.2E+00	3.2E+00	U	5.63E+00		GAMMALL_GS	1.9997E+00	L	02/22/2007 05:08	I
7031455	CS-137	10045-97-3	1.68E+00	pCi/L	2.1E+00	2.1E+00	U	4.33E+00		GAMMALL_GS	1.9997E+00	L	02/22/2007 05:08	I
7031455	EU-152	14683-23-9	-5.14E+00	pCi/L	6.0E+00	6.0E+00	U	9.96E+00		GAMMALL_GS	1.9997E+00	L	02/22/2007 05:08	I
7031455	EU-154	15585-10-1	6.51E+00	pCi/L	6.8E+00	6.8E+00	U	1.56E+01		GAMMALL_GS	1.9997E+00	L	02/22/2007 05:08	I
7031455	EU-155	14391-16-3	2.76E+00	pCi/L	4.6E+00	4.6E+00	U	8.32E+00		GAMMALL_GS	1.9997E+00	L	02/22/2007 05:08	I
7031455	K-40	13966-00-2	1.95E+01	pCi/L	6.7E+01	6.7E+01	U	5.22E+01		GAMMALL_GS	1.9997E+00	L	02/22/2007 05:08	I
7031455	RU-106	13967-48-1	-1.41E+01	pCi/L	2.1E+01	2.1E+01	U	3.44E+01		GAMMALL_GS	1.9997E+00	L	02/22/2007 05:08	I
7031455	SB-125	14234-35-6	-1.05E+00	pCi/L	6.0E+00	6.0E+00	U	1.07E+01		GAMMALL_GS	1.9997E+00	L	02/22/2007 05:08	I
7031450	I-129L	15046-84-1	2.31E-01	pCi/L	1.6E-01	1.6E-01	U	3.28E-01	100.3	I129LL_SEP_LEPS	3.9375E+00	L	02/22/2007 18:04	I
7031458	SR-90	10098-97-2	-1.08E-01	pCi/L	1.9E-01	1.9E-01	U	4.65E-01	73.3	SRISO_SEP_PRE	1.0058E+00	L	02/22/2007 07:46	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNC0N20	B1LPC9		MW6-SBB-A1	S07-001	W05101					01/24/2007 12:16

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7053500	BETA	12587-47-2	3.30E+01	pCi/L	3.0E+00	5.2E+00		2.99E+00	100.0	9310_ALPHABETA	2.026E-01	L	02/26/2007 14:10	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.

3/12/2007 1:28:54 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34659 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.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:
9JNC2410	B1LC85		MW6-SBB-A1	S07-012	W05101					01/24/2007 09:56

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7031455	BE-7	13966-02-4	-2.30E+01	pCi/L	2.0E+01	2.0E+01	U	3.18E+01		GAMMALL_GS	2.001E+00	L	02/22/2007 05:12	I
7031455	CO-60	10198-40-0	6.90E-01	pCi/L	2.3E+00	2.3E+00	U	4.72E+00		GAMMALL_GS	2.001E+00	L	02/22/2007 05:12	I
7031455	CS-134	13967-70-9	9.03E-01	pCi/L	2.0E+00	2.0E+00	U	4.10E+00		GAMMALL_GS	2.001E+00	L	02/22/2007 05:12	I
7031455	CS-137	10045-97-3	-3.49E-01	pCi/L	1.6E+00	1.6E+00	U	2.96E+00		GAMMALL_GS	2.001E+00	L	02/22/2007 05:12	I
7031455	EU-152	14683-23-9	-2.59E-01	pCi/L	4.9E+00	4.9E+00	U	8.75E+00		GAMMALL_GS	2.001E+00	L	02/22/2007 05:12	I
7031455	EU-154	15585-10-1	-1.59E+00	pCi/L	4.3E+00	4.3E+00	U	7.94E+00		GAMMALL_GS	2.001E+00	L	02/22/2007 05:12	I
7031455	EU-155	14391-16-3	-2.01E-01	pCi/L	3.5E+00	3.5E+00	U	6.24E+00		GAMMALL_GS	2.001E+00	L	02/22/2007 05:12	I
7031455	K-40	13966-00-2	-1.00E+01	pCi/L	3.0E+01	3.0E+01	U	6.34E+01		GAMMALL_GS	2.001E+00	L	02/22/2007 05:12	I
7031455	RU-106	13967-48-1	-5.30E+00	pCi/L	1.7E+01	1.7E+01	U	2.98E+01		GAMMALL_GS	2.001E+00	L	02/22/2007 05:12	I
7031455	SB-125	14234-35-6	8.44E-01	pCi/L	4.8E+00	4.8E+00	U	8.85E+00		GAMMALL_GS	2.001E+00	L	02/22/2007 05:12	I
7031458	SR-90	10098-97-2	-1.05E-01	pCi/L	1.9E-01	1.9E-01	U	4.60E-01	83.3	SRISO_SEP_PRE	9.952E-01	L	02/22/2007 07:46	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNC4110	B1LJD1		MW6-SBB-A1	W07-012	W05101					01/24/2007 10:26

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7031399	TC-99	14133-76-7	1.13E+02	pCi/L	7.0E+00	1.4E+01		9.84E+00	100.0	TC99_ETVDSK_LS	1.264E-01	L	02/13/2007 11:31	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNC7W10	B1LNF9		MW6-SBB-A1	I07-021	W05101					01/24/2007 12:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7031450	I-129L	15046-84-1	-7.51E-02	pCi/L	1.0E-01	1.0E-01	U	1.74E-01	99.7	I129LL_SEP_LEPS	3.8172E+00	L	02/22/2007 20:04	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNCX110	B1LD63		MW6-SBB-A1	S07-012	W05101					01/24/2007 09:40

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7031396	Uranium	7440-61-1	5.27E+00	ug/L	5.4E-01	5.4E-01		8.35E-02		UTOT_KPA	2.51E-02	ML	02/28/2007 10:35	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNCXW10	B1LD58		MW6-SBB-A1	S07-012	W05101					01/24/2007 10:44

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7031399	TC-99	14133-76-7	2.57E+01	pCi/L	4.9E+00	7.8E+00		9.93E+00	100.0	TC99_ETVDSK_LS	1.254E-01	L	02/13/2007 11:31	I

STL Richland

rptFeadRadSummaryEdd v3.48

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

3/12/2007 1:28:54 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34659 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

7031396	Uranium	7440-61-1	3.81E+01	ug/L	4.5E+00	4.5E+00	8.25E-02	UTOT_KPA	2.54E-02	ML	02/28/2007	10:33	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNCXW20	B1LD58		MW6-SBB-A1	S07-012	W05101					01/24/2007 10:44

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7046186	U-234	13966-29-5	1.03E+01	pCi/L	1.1E+00	2.1E+00		2.79E-01	93.5	UISO_PLATE_AEA	2.043E-01	L	02/20/2007 19:19	I
7046186	U-235	15117-96-1	5.81E-01	pCi/L	2.7E-01	2.9E-01		1.76E-01	93.5	UISO_PLATE_AEA	2.043E-01	L	02/20/2007 19:19	I
7046186	U-238	U-238	1.37E+01	pCi/L	1.3E+00	2.6E+00		2.30E-01	93.5	UISO_PLATE_AEA	2.043E-01	L	02/20/2007 19:19	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNFMN10	B1LP00		MW6-SBB-A1	S07-001	W05101					01/25/2007 13:14

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7031450	I-129L	15046-84-1	-4.92E-02	pCi/L	1.3E-01	1.3E-01	U	2.29E-01	94.1	I129LL_SEP_LEPS	3.9748E+00	L	02/22/2007 21:53	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNFRX10	B1LRM1		MW6-SBB-A1	W07-001	W05101					01/25/2007 13:14

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7031465	ALPHA	12587-46-1	2.74E+00	pCi/L	1.8E+00	1.9E+00	U	2.84E+00	100.0	9310_ALPHABETA	1.114E-01	L	02/22/2007 13:03	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNFRX20	B1LRM1		MW6-SBB-A1	W07-001	W05101					01/25/2007 13:14

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7053500	BETA	12587-47-2	1.13E+01	pCi/L	2.4E+00	2.8E+00		3.67E+00	100.0	9310_ALPHABETA	1.526E-01	L	02/26/2007 14:10	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:
9JNFT010	B1LJ45		MW6-SBB-A1	W07-012	W05101					01/25/2007 12:05

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7031455	BE-7	13966-02-4	1.09E+01	pCi/L	2.1E+01	2.1E+01	U	4.15E+01		GAMMALL_GS	2.0026E+00	L	02/22/2007 06:58	I
7031455	CO-60	10198-40-0	3.24E+00	pCi/L	3.1E+00	3.1E+00	U	6.64E+00		GAMMALL_GS	2.0026E+00	L	02/22/2007 06:58	I
7031455	CS-134	13967-70-9	5.86E-01	pCi/L	2.6E+00	2.6E+00	U	5.03E+00		GAMMALL_GS	2.0026E+00	L	02/22/2007 06:58	I
7031455	CS-137	10045-97-3	9.53E-01	pCi/L	2.3E+00	2.3E+00	U	4.52E+00		GAMMALL_GS	2.0026E+00	L	02/22/2007 06:58	I
7031455	EU-152	14683-23-9	-6.56E-01	pCi/L	5.3E+00	5.3E+00	U	9.36E+00		GAMMALL_GS	2.0026E+00	L	02/22/2007 06:58	I
7031455	EU-154	15585-10-1	5.53E-03	pCi/L	7.0E+00	7.0E+00	U	1.36E+01		GAMMALL_GS	2.0026E+00	L	02/22/2007 06:58	I
7031455	EU-155	14391-16-3	4.21E-01	pCi/L	3.5E+00	3.5E+00	U	6.43E+00		GAMMALL_GS	2.0026E+00	L	02/22/2007 06:58	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.

3/12/2007 1:28:54 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34659 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

7031455	K-40	13966-00-2	-4.17E+01	pCi/L	5.0E+01	5.0E+01	U	1.05E+02		GAMMALL_GS	2.0026E+00	L	02/22/2007	06:58	I
7031455	RU-106	13967-48-1	1.81E+01	pCi/L	2.1E+01	2.1E+01	U	4.31E+01		GAMMALL_GS	2.0026E+00	L	02/22/2007	06:58	I
7031455	SB-125	14234-35-6	-3.41E-01	pCi/L	5.8E+00	5.8E+00	U	1.03E+01		GAMMALL_GS	2.0026E+00	L	02/22/2007	06:58	I
7031399	TC-99	14133-76-7	2.04E+03	pCi/L	2.5E+01	1.4E+02		9.89E+00	100.0	TC99_ETVDSK_LS	1.257E-01	L	02/13/2007	11:31	I
7031396	Uranium	7440-61-1	2.47E+00	ug/L	2.5E-01	2.5E-01		8.03E-02		UTOT_KPA	2.61E-02	ML	02/28/2007	10:45	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:
9JNFT020	B1LJ45		MW6-SBB-A1	W07-012	W05101					01/25/2007 12:05

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7053500	BETA	12587-47-2	5.15E+02	pCi/L	1.2E+01	6.7E+01		3.71E+00	100.0	9310_ALPHABETA	1.536E-01	L	02/26/2007 14:10	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:
9JNFTQ10	B1LJ46		MW6-SBB-A1	W07-012	W05101					01/25/2007 12:05

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7031455	BE-7	13966-02-4	9.31E+00	pCi/L	2.2E+01	2.2E+01	U	4.38E+01		GAMMALL_GS	1.9708E+00	L	02/22/2007 06:57	I
7031455	CO-60	10198-40-0	1.34E+00	pCi/L	3.0E+00	3.0E+00	U	6.09E+00		GAMMALL_GS	1.9708E+00	L	02/22/2007 06:57	I
7031455	CS-134	13967-70-9	9.41E-01	pCi/L	2.1E+00	2.1E+00	U	4.35E+00		GAMMALL_GS	1.9708E+00	L	02/22/2007 06:57	I
7031455	CS-137	10045-97-3	0.00E+00	pCi/L	0.0E+00	0.0E+00	U	4.03E+00		GAMMALL_GS	1.9708E+00	L	02/22/2007 06:57	I
7031455	EU-152	14683-23-9	-5.14E+00	pCi/L	5.6E+00	5.6E+00	U	8.93E+00		GAMMALL_GS	1.9708E+00	L	02/22/2007 06:57	I
7031455	EU-154	15585-10-1	3.06E+00	pCi/L	6.4E+00	6.4E+00	U	1.38E+01		GAMMALL_GS	1.9708E+00	L	02/22/2007 06:57	I
7031455	EU-155	14391-16-3	5.25E-01	pCi/L	5.3E+00	5.3E+00	U	9.57E+00		GAMMALL_GS	1.9708E+00	L	02/22/2007 06:57	I
7031455	K-40	13966-00-2	-2.61E+01	pCi/L	5.6E+01	5.6E+01	U	1.25E+02		GAMMALL_GS	1.9708E+00	L	02/22/2007 06:57	I
7031455	RU-106	13967-48-1	7.15E+00	pCi/L	1.9E+01	1.9E+01	U	3.75E+01		GAMMALL_GS	1.9708E+00	L	02/22/2007 06:57	I
7031455	SB-125	14234-35-6	2.74E-01	pCi/L	5.7E+00	5.7E+00	U	1.03E+01		GAMMALL_GS	1.9708E+00	L	02/22/2007 06:57	I
7031399	TC-99	14133-76-7	2.02E+03	pCi/L	2.5E+01	1.4E+02		9.89E+00	100.0	TC99_ETVDSK_LS	1.258E-01	L	02/13/2007 11:31	I
7031396	Uranium	7440-61-1	2.47E+00	ug/L	2.5E-01	2.5E-01		8.19E-02		UTOT_KPA	2.56E-02	ML	02/28/2007 10:38	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNFTQ20	B1LJ46		MW6-SBB-A1	W07-012	W05101					01/25/2007 12:05

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7053500	BETA	12587-47-2	4.51E+02	pCi/L	1.1E+01	6.0E+01		3.83E+00	100.0	9310_ALPHABETA	1.532E-01	L	02/26/2007 14:10	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:

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.

3/12/2007 1:28:54 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34659 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

9JNK0D10 B1L208 MW6-SBB-A1 I07-009 W05101 01/26/2007 09:01

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7031450	I-129L	15046-84-1	1.85E+00	pCi/L	4.3E-01	4.3E-01		2.71E-01	98.4	I129LL_SEP_LEPS	3.9194E+00	L	02/22/2007 21:57	I
7031399	TC-99	14133-76-7	3.08E+02	pCi/L	1.0E+01	2.7E+01		9.99E+00	100.0	TC99_ETVDSK_LS	1.257E-01	L	02/13/2007 11:31	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNKXW10	B1KR91		MW6-SBB-A1	S07-010	W05101					01/26/2007 12:55

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7031404	H-3	10028-17-8	-5.94E+01	pCi/L	1.2E+02	1.5E+02	U	3.09E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/11/2007 13:31	I
7031465	ALPHA	12587-46-1	5.81E+00	pCi/L	2.5E+00	2.8E+00		1.97E+00	100.0	9310_ALPHABETA	1.663E-01	L	02/22/2007 11:33	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNKXW20	B1KR91		MW6-SBB-A1	S07-010	W05101					01/26/2007 12:55

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7053500	BETA	12587-47-2	1.09E+01	pCi/L	2.0E+00	2.4E+00		2.85E+00	100.0	9310_ALPHABETA	1.971E-01	L	02/26/2007 14:10	I

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

Monday, March 12, 2007

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id:	JNNG51DN	**Sdg/Rept Nbr:**	W05101 34659	**Collection Date:**	01/26/2007 09:01
Client Id:	INTRA-LAB BL	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**		**Received Date:**	01/26/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7031399	TC-99	1.44E+03	pCi/L	1.4E+02			100.0		TC99_ETVDSK	5.00E-03	02/13/2007				D
	14133-76-7			1.0E+02						L	11:31				

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.

Monday, March 12, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id:	JNNG21AB	**Sdg/Rept Nbr:**	W05101	34659	**Collection Date:** 01/23/2007 12:56
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 01/23/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7031398	PU-238	0.00E+00	pCi/L	1.4E-01	U	3.28E-01	51.2		PUISO_PLATE	2.008E-01	02/14/2007				D
BLK	13981-16-3			1.4E-01						L	16:52				
7031398	PU-239	4.10E-02	pCi/L	1.4E-01	U	3.87E-01	51.2		PUISO_PLATE	2.008E-01	02/14/2007				D
BLK	PU-239/240			1.4E-01						L	16:52				

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

Monday, March 12, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id:	JNNG51AB	Sdg/Rept Nbr:	W05101	34659	Collection Date: 01/26/2007 09:01
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BLK		Received Date: 01/26/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7031399	TC-99	-4.22E+00	pCi/L	5.9E+00	U	9.84E+00	100.0		TC99_ETVDSK	1.266E-01	02/13/2007				D
BLK	14133-76-7			3.9E+00						L	11:32				

STL Richland

rptFeadRadEdd v3.68

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

Monday, March 12, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id:	JNNGR1AB	**Sdg/Rept Nbr:**	W05101 34659	**Collection Date:**	01/25/2007 12:05
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	01/25/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7031396	Uranium	0.00E+00	ug/L	0.0E+00	U	2.10E-01			UTOT_KPA	2.51E-02	02/28/2007				D
BLK	7440-61-1			0.0E+00						ML	13:44				

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

Monday, March 12, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id:	JNNHL1AB	**Sdg/Rept Nbr:**	W05101	34659	**Collection Date:** 01/26/2007 12:55
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 01/26/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7031404	H-3	-1.40E+02	pCi/L	1.5E+02	U	3.10E+02	100.0		906.0_H3_LSC	5.00E-03	02/11/2007				D
BLK	10028-17-8			1.2E+02						L	02:37				

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

Monday, March 12, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id: JNNHL1DX
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05101 34659
Matrix: WATER WATER
QC Type: BLK

Collection Date: 01/26/2007 12:55
Sample On Date:
Received Date: 01/26/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7031404	H-3	1.51E+02	pCi/L	1.6E+02	U	3.14E+02	100.0		906.0_H3_LSC	5.00E-03	02/11/2007				D
BLK	10028-17-8			1.3E+02						L	05:21				

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

Monday, March 12, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id:	JNNP51AB	**Sdg/Rept Nbr:**	W05101 34659	**Collection Date:**	01/24/2007 09:56
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	01/24/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7031458	SR-90	-4.66E-02	pCi/L	1.9E-01	U	4.56E-01	78.4		SRISO_SEP_P	1.0004E+00	02/22/2007				D
BLK	10098-97-2			1.9E-01						L	07:46				

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

Monday, March 12, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id:	JNNPC1AB	**Sdg/Rept Nbr:**	W05101 34659	**Collection Date:**	01/26/2007 09:01
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	01/26/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7031450	I-129L	-1.34E-02	pCi/L	1.2E-01	U	2.13E-01	99.7		I129LL_SEP_L	3.9759E+00	02/23/2007				D
BLK	15046-84-1			1.2E-01						L	05:08				

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

Monday, March 12, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id: JNNPX1CB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05101 34659
Matrix: WATER WATER
QC Type: BLK

Collection Date: 01/25/2007 12:05
Sample On Date:
Received Date: 01/25/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7031455	BE-7	9.98E-01	pCi/L	1.3E+01	U	2.41E+01			GAMMALL_GS	2.0026E+00	02/22/2007				D
BLK	13966-02-4			1.3E+01						L	06:58				
7031455	CO-60	6.45E-01	pCi/L	1.6E+00	U	3.68E+00			GAMMALL_GS	2.0026E+00	02/22/2007				D
BLK	10198-40-0			1.6E+00						L	06:58				
7031455	CS-134	2.16E-01	pCi/L	2.4E+00	U	4.45E+00			GAMMALL_GS	2.0026E+00	02/22/2007				D
BLK	13967-70-9			2.4E+00						L	06:58				
7031455	CS-137	-1.03E+00	pCi/L	2.0E+00	U	3.51E+00			GAMMALL_GS	2.0026E+00	02/22/2007				D
BLK	10045-97-3			2.0E+00						L	06:58				
7031455	EU-152	-1.34E+00	pCi/L	4.8E+00	U	8.38E+00			GAMMALL_GS	2.0026E+00	02/22/2007				D
BLK	14683-23-9			4.8E+00						L	06:58				
7031455	EU-154	2.71E+00	pCi/L	4.6E+00	U	1.09E+01			GAMMALL_GS	2.0026E+00	02/22/2007				D
BLK	15585-10-1			4.6E+00						L	06:58				
7031455	EU-155	-1.91E+00	pCi/L	3.6E+00	U	6.07E+00			GAMMALL_GS	2.0026E+00	02/22/2007				D
BLK	14391-16-3			3.6E+00						L	06:58				
7031455	K-40	7.58E-01	pCi/L	3.0E+01	U	6.62E+01			GAMMALL_GS	2.0026E+00	02/22/2007				D
BLK	13966-00-2			3.0E+01						L	06:58				
7031455	RU-106	-1.00E+01	pCi/L	1.8E+01	U	3.01E+01			GAMMALL_GS	2.0026E+00	02/22/2007				D
BLK	13967-48-1			1.8E+01						L	06:58				
7031455	SB-125	5.04E+00	pCi/L	5.0E+00	U	1.00E+01			GAMMALL_GS	2.0026E+00	02/22/2007				D
BLK	14234-35-6			5.0E+00						L	06:58				

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

Monday, March 12, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id:	JNNQK1AB	**Sdg/Rept Nbr:**	W05101 34659	**Collection Date:**	01/24/2007 12:16
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	01/24/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7031465	ALPHA	-9.36E-02	pCi/L	1.7E-01	U	6.12E-01	100.0		9310_ALPHAB	2.036E-01	02/22/2007				D
BLK	12587-46-1			1.7E-01						L	13:03				

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

Monday, March 12, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id:	JPGFT1AB	**Sdg/Rept Nbr:**	W05101	34659	**Collection Date:** 01/24/2007 10:44
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 01/24/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7046186	U-234	8.42E-02	pCi/L	1.3E-01	U	2.66E-01	90.5		UISO_PLATE_	2.003E-01	02/20/2007				D
BLK	13966-29-5			1.3E-01						L	19:19				
7046186	U-235	2.59E-02	pCi/L	6.6E-02	U	1.55E-01	90.5		UISO_PLATE_	2.003E-01	02/20/2007				D
BLK	15117-96-1			6.6E-02						L	19:19				
7046186	U-238	-6.49E-02	pCi/L	7.7E-02	U	3.01E-01	90.5		UISO_PLATE_	2.003E-01	02/20/2007				D
BLK	U-238			7.7E-02						L	19:19				

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

Monday, March 12, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id: JPXHP1AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05101 34659
Matrix: WATER WATER
QC Type: BLK

Collection Date: 01/24/2007 12:16
Sample On Date:
Received Date: 01/24/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7053500	BETA	1.99E+00	pCi/L	1.3E+00	U	2.38E+00	100.0		9310_ALPHAB	1.993E-01	02/26/2007				D
BLK	12587-47-2			1.2E+00						L	14:10				

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

Monday, March 12, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id:	JNNG21CS	**Sdg/Rept Nbr:**	W05101	34659	**Collection Date:** 01/23/2007 12:56
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 01/23/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7031398	PU-239	4.02E+00	pCi/L	1.3E+00		3.72E-01	42.3	4.51E+00	PUISO_PLATE	2.031E-01	02/14/2007			75	D
BS	PU-239/240			1.1E+00				89.3		L	16:53			125	

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

Monday, March 12, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id:	JNNG51CS	**Sdg/Rept Nbr:**	W05101	34659	**Collection Date:** 01/26/2007 09:01
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 01/26/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7031399	TC-99	5.22E+02	pCi/L	4.1E+01		9.95E+00	100.0	5.42E+02	TC99_ETVDSK	1.251E-01	02/13/2007			70	D
BS	14133-76-7			1.3E+01				96.2		L	11:32			130	

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

Monday, March 12, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id:	JNNGR1CS	**Sdg/Rept Nbr:**	W05101 34659	**Collection Date:**	01/25/2007 12:05
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	01/25/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7031396	Uranium	3.54E+01	ug/L	4.2E+00		8.38E-02		3.61E+01	UTOT_KPA	2.50E-02	02/28/2007			70	D
BS	7440-61-1			4.2E+00				98.0		ML	10:50			130	

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

Monday, March 12, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id:	JNNGR1DS	**Sdg/Rept Nbr:**	W05101 34659	**Collection Date:**	01/25/2007 12:05
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	01/25/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7031396	Uranium	3.65E+00	ug/L	3.7E-01		8.25E-02		3.56E+00	UTOT_KPA	2.54E-02	02/28/2007			70	D
BS	7440-61-1			3.7E-01				102.5		ML	16:02			130	

STL Richland

rptFeadRadEdd v3.68

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

Monday, March 12, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id:	JNNHL1CS	Sdg/Rept Nbr:	W05101	34659	Collection Date: 01/26/2007 12:55
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BS		Received Date: 01/26/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7031404	H-3	2.57E+03	pCi/L	2.6E+02		3.09E+02	100.0	2.71E+03	906.0_H3_LSC	5.00E-03	02/11/2007			70	D
BS	10028-17-8			2.1E+02				94.8		L	03:59			130	

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

Monday, March 12, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id: JNNHL1EM **Sdg/Rept Nbr:** W05101 34659 **Collection Date:** 01/26/2007 12:55

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 01/26/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7031404	H-3	2.54E+03	pCi/L	2.5E+02		3.13E+02	100.0	2.71E+03	906.0_H3_LSC	5.00E-03	02/11/2007			70	D
BS	10028-17-8			2.1E+02				93.6		L	06:42			130	

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

Monday, March 12, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id:	JNNP51CS	**Sdg/Rept Nbr:**	W05101	34659	**Collection Date:** 01/24/2007 09:56
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 01/24/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7031458	SR-90	1.56E+01	pCi/L	2.5E+00		5.14E-01	70.3	1.37E+01	SRISO_SEP_P	1.0003E+00	02/22/2007			70	D
BS	10098-97-2			9.3E-01				113.7		L	07:46			130	

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

Monday, March 12, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id: JNNPC1CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05101 34659
Matrix: WATER WATER
QC Type: BS

Collection Date: 01/26/2007 09:01
Sample On Date:
Received Date: 01/26/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7031450	I-129L	9.43E+00	pCi/L	1.2E+00		4.52E-01	94.6	9.74E+00	I129LL_SEP_L	3.9513E+00	02/23/2007			70	D
BS	15046-84-1			1.2E+00				96.8		L	05:09			130	

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

Monday, March 12, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id:	JNNPX1AS	**Sdg/Rept Nbr:**	W05101	34659	**Collection Date:** 01/25/2007 12:05
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 01/25/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7031455	CO-60	3.42E+01	pCi/L	1.0E+01		4.73E+00		3.88E+01	GAMMALL_GS	2.0001E+00	02/22/2007			70	D
BS	10198-40-0			1.0E+01				88.0		L	06:58			130	
7031455	CS-137	2.36E+01	pCi/L	7.6E+00		4.99E+00		2.54E+01	GAMMALL_GS	2.0001E+00	02/22/2007			70	D
BS	10045-97-3			7.6E+00				93.1		L	06:58			130	
7031455	EU-152	8.45E+01	pCi/L	1.7E+01		1.16E+01		7.63E+01	GAMMALL_GS	2.0001E+00	02/22/2007			70	D
BS	14683-23-9			1.7E+01				110.7		L	06:58			130	

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

Monday, March 12, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id: JNNQK1CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05101 34659
Matrix: WATER WATER
QC Type: BS

Collection Date: 01/24/2007 12:16
Sample On Date:
Received Date: 01/24/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7031465	ALPHA	2.06E+01	pCi/L	5.1E+00		6.64E-01	100.0	2.21E+01	9310_ALPHAB	2.039E-01	02/22/2007			70	D
BS	12587-46-1			2.0E+00				93.2		L	13:03			130	

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

Monday, March 12, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id: JPGFT1CS **Sdg/Rept Nbr:** W05101 34659 **Collection Date:** 01/24/2007 10:44

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 01/24/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7046186	U-234	8.60E+00	pCi/L	1.8E+00		1.92E-01	89.3	8.59E+00	UISO_PLATE_	2.005E-01	02/20/2007			70	D
BS	13966-29-5			1.1E+00				100.1		L	19:19			130	
7046186	U-235	2.37E-01	pCi/L	1.8E-01		1.62E-01	89.3	3.92E-01	UISO_PLATE_	2.005E-01	02/20/2007			70	D
BS	15117-96-1			1.8E-01				60.6		L	19:19			130	
7046186	U-238	8.84E+00	pCi/L	1.8E+00		1.62E-01	89.3	9.00E+00	UISO_PLATE_	2.005E-01	02/20/2007			70	D
BS	U-238			1.1E+00				98.3		L	19:19			130	

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

Monday, March 12, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id:	JPXHP1CS	**Sdg/Rept Nbr:**	W05101 34659	**Collection Date:**	01/24/2007 12:16
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	01/24/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7053500	BETA	1.93E+01	pCi/L	3.5E+00		2.66E+00	100.0	2.25E+01	9310_ALPHAB	2.01E-01	02/26/2007			70	D
BS	12587-47-2			2.3E+00				85.7		L	14:10			130	

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

Monday, March 12, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id:	JM8281GR	Sdg/Rept Nbr:	W05101	34659	Collection Date: 01/23/2007 12:56
Client Id:	B1LP34	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	DUP		Received Date: 01/23/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-001	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
7031398	PU-238	0.00E+00	pCi/L	9.5E-02	U	2.23E-01	73.9		PUISO_PLATE	2.006E-01	02/14/2007	0.0	0.		D
DUP	13981-16-3	0.00E+00		9.5E-02						L	16:52	20.0	3		
7031398	PU-239	-9.29E-03	pCi/L	9.5E-02	U	2.23E-01	73.9		PUISO_PLATE	2.006E-01	02/14/2007	0.0	0.2		D
DUP	PU-239/240	-1.98E-02		9.5E-02						L	16:52	20.0	3		

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

Monday, March 12, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id:	JNC0N1HR	**Sdg/Rept Nbr:**	W05101	34659	**Collection Date:** 01/24/2007 12:16
Client Id:	B1LPC9	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 01/24/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-001	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
7031465	ALPHA	2.24E+00	pCi/L	1.6E+00		2.02E+00	100.0		9310_ALPHAB	1.991E-01	02/22/2007	7.9	0.2		D
DUP	12587-46-1	2.42E+00		1.5E+00						L	11:33	20.0	3		

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

Monday, March 12, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id:	JNC241DR	**Sdg/Rept Nbr:**	W05101	34659	**Collection Date:** 01/24/2007 09:56
Client Id:	B1LC85	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 01/24/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-012	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
7031458	SR-90	-1.69E-01	pCi/L	2.0E-01	U	4.83E-01	80.0		SRISO_SEP_P	1.0015E+00	02/22/2007	0.0	0.5		D
DUP	10098-97-2	-1.05E-01		1.9E-01						L	07:46	20.0	3		

STL Richland

rptFeadRadEdd v3.68

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

Monday, March 12, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id: JNC411CR
Client Id: B1LJD1
Moisture/Solids%*:

Sdg/Rept Nbr: W05101 34659
Matrix: WATER WATER
QC Type: DUP

Collection Date: 01/24/2007 10:26
Sample On Date:
Received Date: 01/24/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-012	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
7031399	TC-99	1.12E+02	pCi/L	1.4E+01		9.93E+00	100.0		TC99_ETVDSK	1.253E-01	02/13/2007	1.1	0.1		D
DUP	14133-76-7	1.13E+02		7.0E+00						L	11:31	20.0	3		

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

Monday, March 12, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id:	JNCXW2ER	**Sdg/Rept Nbr:**	W05101	34659	**Collection Date:** 01/24/2007 10:44
Client Id:	B1LD58	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 01/24/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-012	MW6-SBB-A19981								BD	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7046186	U-234	9.86E+00	pCi/L	1.9E+00		2.08E-01	108.0		UISO_PLATE_	1.991E-01	02/20/2007	4.4	0.3		D
DUP	13966-29-5	1.03E+01		1.1E+00						L	19:19	20.0	3		
7046186	U-235	4.61E-01	pCi/L	2.6E-01		2.08E-01	108.0		UISO_PLATE_	1.991E-01	02/20/2007	23.0	0.7		D
DUP	15117-96-1	5.81E-01		2.4E-01						L	19:19	20.0	3		
7046186	U-238	1.43E+01	pCi/L	2.7E+00		2.61E-01	108.0		UISO_PLATE_	1.991E-01	02/20/2007	4.5	0.3		D
DUP	U-238	1.37E+01		1.3E+00						L	19:19	20.0	3		

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

Monday, March 12, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id:	JNFTQ1GR	**Sdg/Rept Nbr:**	W05101 34659	**Collection Date:**	01/25/2007 12:05
Client Id:	B1LJ46	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	01/25/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-012	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
7031396	Uranium	2.46E+00	ug/L	2.5E-01		8.12E-02			UTOT_KPA	2.58E-02	02/28/2007	.5	0.1		D
DUP	7440-61-1	2.47E+00		2.5E-01						ML	10:42	20.0	3		

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

Monday, March 12, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id: JNFTQ1HR
Client Id: B1LJ46
Moisture/Solids%*:

Sdg/Rept Nbr: W05101 34659
Matrix: WATER WATER
QC Type: DUP

Collection Date: 01/25/2007 12:05
Sample On Date:
Received Date: 01/25/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-012	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
7031455	BE-7	8.12E+00	pCi/L	2.3E+01	U	4.39E+01			GAMMALL_GS	2.0075E+00	02/22/2007	13.6	0.1		D
DUP	13966-02-4	9.31E+00		2.3E+01						L	06:54	20.0	3		
7031455	CO-60	2.98E+00	pCi/L	2.7E+00	U	6.12E+00			GAMMALL_GS	2.0075E+00	02/22/2007	75.7	0.9		D
DUP	10198-40-0	1.34E+00		2.7E+00						L	06:54	20.0	3		
7031455	CS-134	-7.70E-01	pCi/L	2.3E+00	U	4.03E+00			GAMMALL_GS	2.0075E+00	02/22/2007	1995.9	1.1		D
DUP	13967-70-9	9.41E-01		2.3E+00						L	06:54	20.0	3		
7031455	CS-137	-1.90E+00	pCi/L	2.2E+00	U	3.62E+00			GAMMALL_GS	2.0075E+00	02/22/2007	0.0	1.2		D
DUP	10045-97-3	0.00E+00		2.2E+00						L	06:54	20.0	3		
7031455	EU-152	2.17E+00	pCi/L	5.0E+00	U	9.70E+00			GAMMALL_GS	2.0075E+00	02/22/2007	0.0	2.		D
DUP	14683-23-9	-5.14E+00		5.0E+00						L	06:54	20.0	3		
7031455	EU-154	-5.88E-01	pCi/L	6.8E+00	U	1.32E+01			GAMMALL_GS	2.0075E+00	02/22/2007	295.2	0.8		D
DUP	15585-10-1	3.06E+00		6.8E+00						L	06:54	20.0	3		
7031455	EU-155	5.15E-01	pCi/L	4.9E+00	U	8.54E+00			GAMMALL_GS	2.0075E+00	02/22/2007	2.0	0.		D
DUP	14391-16-3	5.25E-01		4.9E+00						L	06:54	20.0	3		
7031455	K-40	-4.50E+01	pCi/L	4.6E+01	U	9.87E+01			GAMMALL_GS	2.0075E+00	02/22/2007	0.0	0.6		D
DUP	13966-00-2	-2.61E+01		4.6E+01						L	06:54	20.0	3		
7031455	RU-106	-4.84E+00	pCi/L	2.0E+01	U	3.59E+01			GAMMALL_GS	2.0075E+00	02/22/2007	1038.2	0.9		D
DUP	13967-48-1	7.15E+00		2.0E+01						L	06:54	20.0	3		
7031455	SB-125	2.18E+00	pCi/L	6.4E+00	U	1.19E+01			GAMMALL_GS	2.0075E+00	02/22/2007	155.5	0.4		D
DUP	14234-35-6	2.74E-01		6.4E+00						L	06:54	20.0	3		

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

Monday, March 12, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id:	JNFTQ2JR	**Sdg/Rept Nbr:**	W05101 34659	**Collection Date:**	01/25/2007 12:05
Client Id:	B1LJ46	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	01/25/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-012	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
7053500	BETA	5.25E+02	pCi/L	6.9E+01		3.81E+00	100.0		9310_ALPHAB	1.551E-01	02/26/2007	15.1	1.5		D
DUP	12587-47-2	4.51E+02		1.2E+01						L	14:10	20.0	3		

STL Richland

rptFeadRadEdd v3.68

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

Monday, March 12, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id: JNK0D1ER
Client Id: B1L208
Moisture/Solids%*:

Sdg/Rept Nbr: W05101 34659
Matrix: WATER WATER
QC Type: DUP

Collection Date: 01/26/2007 09:01
Sample On Date:
Received Date: 01/26/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I07-009	MW6-SBB-A19981								BJ	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7031450	I-129L	2.39E+00	pCi/L	4.2E-01	U	7.44E-01	98.6		I129LL_SEP_L	3.922E+00	02/22/2007	25.8	1.8		D
DUP	15046-84-1	1.85E+00		4.2E-01						L	21:58	20.0	3		

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

Monday, March 12, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id:	JNKXW1ER	**Sdg/Rept Nbr:**	W05101	34659	**Collection Date:** 01/26/2007 12:55
Client Id:	B1KR91	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 01/26/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-010	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
7031404	H-3	3.70E+01	pCi/L	1.5E+02	U	3.08E+02	100.0		906.0_H3_LSC	5.00E-03	02/11/2007	0.0	0.9		D
DUP	10028-17-8	-5.94E+01		1.3E+02						L	14:53	20.0	3		

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

Monday, March 12, 2007

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id: JNFTQ1FW **Sdg/Rept Nbr:** W05101 34659 **Collection Date:** 01/25/2007 12:05

Client Id: B1LJ46 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** MS **Received Date:** 01/25/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-012	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
7031396	Uranium	3.64E+01	ug/L	4.6E+00		8.28E-02		3.58E+01	UTOT_KPA	2.53E-02	02/28/2007			60	D
MS	7440-61-1			4.6E+00				101.7		ML	10:40			140	

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

Monday, March 12, 2007

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id:	JNK0D1DW	**Sdg/Rept Nbr:**	W05101 34659	**Collection Date:**	01/26/2007 09:01
Client Id:	B1L208	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	MS	**Received Date:**	01/26/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I07-009	MW6-SBB-A19981								BI	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7031399	TC-99	3.81E+03	pCi/L	2.6E+02		9.92E+00	100.0	3.61E+03	TC99_ETVDSK	1.259E-01	02/13/2007			60	D
MS	14133-76-7			3.4E+01				105.4		L	11:31			140	

STL Richland

rptFeadRadEdd v3.68

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

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/15/2007 9:50:45 AM

Lot No., Due Date: J7A230268; 03/09/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7031398; RPUISO Pulso by ALP

SDG, Matrix: W05101; WATER

8.0 Correction Calculation Protocol Used. OK	Yes ✓	No	N/A
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	Yes ✓	No	N/A
8.02 Final Results Are in the Appropriate Activity Units OK	Yes ✓	No	N/A
8.03 Batch Contains the Required QC Appropriate for the Method OK	Yes ✓	No	N/A
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	Yes ✓	No	N/A
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	Yes ✓	No	N/A
8.06 At Least the Minimum Sample Volume Was Used OK	Yes ✓	No	N/A
8.07 The Correct Count Geometry was Used. OK	Yes ✓	No	N/A
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	Yes ✓	No	N/A
8.09 Method Blank is within Control Limits. OK	Yes ✓	No	N/A
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!	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. Not Compared => JM8281AG PU-238 (RPD)	Yes	No	N/A
8.14 LCS within Control Limits. OK	Yes ✓	No	N/A
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!	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. OK	Yes ✓	No	N/A
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	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	Yes ✓	No	N/A
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	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. Yes No N/A
FWHM > maxFWHM => JNNG21AC PU-239 35.2>0 Q:V1

8.26 Instruments have Current Calibrations. Yes No N/A

8.27 Correct Count Library Used. Yes No N/A
Library Not Specified => JM8281AD I:[NUC_LIBR]AR_PU Q:
JM8281AG I:[NUC_LIBR]AR_PU Q:
JNNG21AA I:[NUC_LIBR]AR_PU Q:
JNNG21AC I:[NUC_LIBR]AR_PU Q:

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

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

8.3 Comments:

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

First Level Review Pam Anderson Date 2-15-07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7031398

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: Erika Jordan Date: 2/15/7

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/21/2007 2:48:32 PM

Lot No., Due Date: J7A250121; 03/09/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7046186; RUISO Uiso by ALP

SDG, Matrix: W05101; WATER

1.0 COC

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

2.0 QC Batch

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

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

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

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

3.0 QC & Samples

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

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

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

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

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

4.0 Raw Data

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

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

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

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

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

5.0 Other

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

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

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

5.4 Was transcription checked? Yes ✓ No N/A

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

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

6.0 Comments on any No response:

Reanalysis due to duplicate miss-match - NCM

First Level Review [signature] **Date** 2/21/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7046186
W05101

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

Comments on any "No" response: See NCM

Second Level Review: Sheryl R Adam Date: 2-23-07

Clouseau
Nonconformance Memo

SEVERN TRENT SERVICES

NCM #: **10-09467**
NCM Initiated By: Steven Wheland
Date Opened: 02/21/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Sep
Tests: Ulso by ALP
Lot #'s (Sample #'s): J7A250121 (1), J7B150000 (186),
QC Batches: 7046186

Nonconformance: Dups not within acceptance limits
Subcategory: Inhomogenity of the Sample

Problem Description / Root Cause

Name	Date	Description
Steven Wheland	02/21/2007	Initial run of sample produced a duplicate that did not match the sample. Upon reanalysis with the caution of shaking the sample the duplicate matched the sample. This implies some sediment in the sample and the need for proper mixing proir to aliquanting.

Corrective Action

Name	Date	Corrective Action
Steven Wheland	02/21/2007	Report reanalysis data.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 2/21/2007

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/22/2007 3:40:42 PM

Lot No., Due Date: J7A250129,J7A260178,J7A300174; 03/09/2007,03/12/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7031465; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05101; 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 => JNFRX1AA 111.40<200.00 JNKXW1AC 166.30<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 => JNC0N1AC ALPHA 2.4E+00 L:2.2E+00 JNKXW1AC ALPHA 5.8E+00 L:2.0E+00		✓	
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => ALPHA OK; No Callin Level Found => ALPHA	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		

8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!	Yes	No	N/A ✓
8.26 Instruments have Current Calibrations.	Yes	No	N/A
8.27 Correct Count Library Used. No Count Library found in Batch Data!	Yes	No	N/A ✓
8.28 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later versions)	Yes	No	N/A
8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later versions)	Yes	No	N/A
8.3 Comments:			
8.31 Results Blank Subtracted as Appropriate. OK	Yes ✓	No	N/A

First Level Review Lisa Antonson **Date** 2/22/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7031465
W05101

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

Comments on any "No" response:

Second Level Review: Sheryl A Adam Date: 2-23-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/27/2007 11:00:39 AM

Lot No., Due Date: J7A250129,J7A260178,J7A260181,J7A300174; 03/09/2007,03/12/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7053500; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05101; 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 => JNFRX2AC 152.60<200.00 JNFTQ2AA 153.20<200.00 JNFT02LA 153.60<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 => JNC0N2AD BETA 3.3E+01 L:3.0E+00 JNC022LD BETA 9.4E+00 L:2.8E+00 JNC092LD BETA 1.6E+01 L:2.8E+00 JNFRX2AC BETA 1.1E+01 L:3.7E+00 JNFTQ2AA BETA 4.5E+02 L:3.8E+00 JNFT02LA BETA 5.2E+02 L:3.7E+00 JNKXW2AD BETA 1.1E+01 L:2.9E+00		✓	
8.23 Result < = Action Level, when Defined. OK; No Action Level Found => BETA	✓		

OK; No Callin Level Found => BETA

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

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

8.26 Instruments have Current Calibrations. Yes No N/A

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

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

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

8.3 Comments:

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

First Level Review Lisa Quinton **Date** 2/27/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7053500
W05101

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?	✓		2-28-07
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: See NCM

Second Level Review: Sheryl R Wilson Date: 2-28-07

Clouseau
Nonconformance Memo

SEVERN TRENT SERVICES

NCM #: **10-09488**
NCM Initiated By: Lisa Antonson
Date Opened: 02/27/2007
Date Closed:

Classification: **Deficiency**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Beta by GPC-Sr/Y
Lot #'s (Sample #'s): J7A250129 (1,2,3), J7A260178 (1), J7A260181 (1,2), J7A300174 (1), J7A310000 (464),
QC Batches: 7031464

Nonconformance: QC Result Out of Limits
Subcategory: Analyte was recovered low in the LCS

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	02/27/2007	The original Beta batch has an LCS with a recovery of 17%. The batch was rerun as 7053500 and has acceptable results.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	02/27/2007	Will continue to monitor performance.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 2/27/2007

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/27/2007 12:41:18 PM

Lot No., Due Date: J7A230268,J7A250129,J7A250138; 03/09/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7031458; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05101; 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 Kim Anderson **Date** 2/27/07

Matt Larsen 2-27-07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7031458
W05101

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

Comments on any "No" response:

Second Level Review: Sheryl R Adams Date: 2-28-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/22/2007 2:29:48 PM

Lot No., Due Date: J7A230268,J7A250129,J7A250138,J7A260181; 03/09/2007,03/12/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7031455; RGAMMA Gamma by GER

SDG, Matrix: W05101; WATER

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

6.0 Comments on any No response:
Blank/LCS switch - NCM

First Level Review [signature] **Date** 2/22/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7031455
W05101

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

Comments on any "No" response: See NCM

Second Level Review: Sheryl R. Adam Date: 2-23-07

Clouseau
Nonconformance Memo

SEVERN TRENT SERVICES

NCM #: **10-09471**
NCM Initiated By: Steven Wheland
Date Opened: 02/22/2007
Date Closed:

Classification: **Deficiency**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Gamma by GER
Lot #'s (Sample #'s): J7A230268 (2), J7A250129 (1,2,3), J7A250138 (2), J7A260181 (1,2), J7A310000 (455),
QC Batches: 7031455

Nonconformance: Technician Error
Subcategory: LCS/Blank Switch

Problem Description / Root Cause

Name	Date	Description
Steven Wheland	02/22/2007	Blank/ LCS switch. The blank calculated to produce an acceptable LCS yields for each of the three isotopes.

Corrective Action

Name	Date	Corrective Action
Steven Wheland	02/22/2007	report results.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/23/2007 9:49:11 AM

Lot No., Due Date: J7A230268,J7A230278,J7A250129,J7A250163,J7A260157,J7A300180; 03/09/2007,03/12/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7031450; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05101; WATER

1.0 COC

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

2.0 QC Batch

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

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

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

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

3.0 QC & Samples

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

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

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

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

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

4.0 Raw Data

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

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

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

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

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

5.0 Other

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

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

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

5.4 Was transcription checked? Yes ✓ No N/A

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

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 2/23/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 703450
W05101

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

Comments on any "No" response:

Second Level Review: Sheryl A Adam Date: 2-25-07

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/14/2007 4:10:27 PM

Lot No., Due Date: J7A230268,J7A250148,J7A250121,J7A260181,J7A300180; 03/09/2007,03/12/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7031399; RTC99 Tc-99 by LSC

SDG, Matrix: W05101; 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 => JNK0D1AD 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. Yes No N/A ✓
No Count Library found in Batch Data!

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

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

8.3 Comments:

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

First Level Review Pam Anderson Date 2-14-07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7031399

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: Erika Jordan Date: 2/15/7

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/12/2007 2:43:26 PM

Lot No., Due Date: J7A230268,J7A250129,J7A300174; 03/09/2007,03/12/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7031404; RTRITIUM H-3 by LSC

SDG, Matrix: W05101; WATER

8.0 Correction Calculation Protocol Used. Yes No N/A
OK

8.01 The Appropriate Methods Were Used To Analyze the Samples Yes No N/A
OK

8.02 Final Results Are in the Appropriate Activity Units Yes No N/A
OK

8.03 Batch Contains the Required QC Appropriate for the Method Yes No N/A
OK

8.04 The Correct Tracer and QC Vials Where Used in the Samples Yes No N/A
OK

8.05 Sample was Appropriately Traced Before or After Fractionating the Sample Yes No N/A
OK

8.06 At Least the Minimum Sample Volume Was Used Yes No N/A
Analysis Volume => JM8241AA 5.00<10.00
JNC0N1AA 5.00<10.00
JNC021AA 5.00<10.00
JNC091AA 5.00<10.00
JNKXW1AA 5.00<10.00 Q:VB
OK PA 2-12-07

8.07 The Correct Count Geometry was Used. Yes No N/A
Count Geometry => JNNHL1AF SVP15/5<>SVP10/10
JNNHL1AA SVP15/5<>SVP10/10
JNNHL1AC SVP15/5<>SVP10/10
JNNHL1AD SVP15/5<>SVP10/10
JNNHL1AE SVP15/5<>SVP10/10
JM8241AA SVP15/5<>SVP10/10
JNC0N1AA SVP15/5<>SVP10/10
JNC021AA SVP15/5<>SVP10/10
JNC091AA SVP15/5<>SVP10/10
JNKXW1AA SVP15/5<>SVP10/10
JNKXW1AE SVP15/5<>SVP10/10 Q:VC
OK PA 2-12-07

8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. Yes No N/A
OK

8.09 Method Blank is within Control Limits. Yes No N/A
OK

8.1 Comments:

8.11 Matrix Blank is within Control Limits. Yes No N/A
OK

8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). Yes No N/A
OK

8.13 QAS Specified Duplicate Equation Value within Control Limits. Yes No N/A
OK (RPD)

8.14 LCS within Control Limits. Yes No N/A
OK

8.15 MLCS within Control Limits. Yes No N/A
OK

8.16 MS within Control Limits. Yes No N/A
No Matrix Spike Samples (MS) found in Batch!

8.17 Tracer within Control Limits. Yes No N/A
No Tracers found in Batch!

8.18 Samples are above Minimum Tracer Yield (No Failed Samples) Yes No N/A
No Tracers found in Batch!

8.19 Sample Specific MDC <= CRDL. Yes No N/A
OK

8.2 Comments:

8.21 Result < Lc, Activity Not Detected, U Flag. Yes No N/A
No Limit Specified!

8.22 Result < Mdc, Activity Not Detected, U Flag. Yes No N/A

No Positive Results

OK Calc_IDL Not Calculated

8.23 Result <= Action Level, when Defined. Yes No N/A

OK; No Action Level Found => H-3

OK; No Callin Level Found => H-3

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

OK

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

No FWHM found in Batch Data!

8.26 Instruments have Current Calibrations. Yes No N/A

8.27 Correct Count Library Used. Yes No N/A

No Count Library found in Batch Data!

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

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

8.3 Comments:

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

OK

First Level Review Pam Anderson Date 2-12-07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 703140 4
W0510 1

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

Comments on any "No" response:

Second Level Review: Sheryl A Adam Date: 2-12-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/28/2007 4:39:04 PM

Lot No., Due Date: J7A250121,J7A260181; 03/09/2007,03/12/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7031396; RUNAT UNat by KPA

SDG, Matrix: W05101; WATER

1.0 COC

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

2.0 QC Batch

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

3.0 QC & Samples

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

4.0 Raw Data

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

5.0 Other

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

6.0 Comments on any No response:

First Level Review EHB **Date** 2/28/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7031396
W05101

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

Comments on any "No" response: _____

Second Level Review: Sheryl R Adam Date: 3-1-07

PNNL J7AZ30268 W05101 Due 03.09.07

Fluor Hanford

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-366**

Page 1 of 1

Collector: D. P. CONNOLLY	Contact/Requester: Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. S07-001	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JANUARY 2007	HNF-N-506 2	Ice Chest No. GW0 06-11 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LP43		W	1-23-07	1213	1x20-mL P	Activity Scan	None
B1LP43		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1LP43		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None

JM824

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. P. CONNOLLY	[signature]		JAN 23 2007 1405	[signature]	S. Smith	S. Smith	JAN 23 2007 1405
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

PNNL J7A230268
S8 ~~W05105~~ W05101
Due 03-09-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-346**

Page 1 of 1

Collector: Fluor Hanford D. P. CONNOLLY	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: S07-001	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JANUARY 2007	HNF-N-5062	Ice Chest No.: 6W00-06-11 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LP34		W	1-23-07	1256	1x20-mL P	Activity Scan	None
B1LP34		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LP34		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1LP34		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LP34		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1LP34		W			1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	HNO3 to pH <2
						JM828	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. P. CONNOLLY			JAN 23 2007 1405				JAN 23 2007 1405
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: 01.23.07 1405

Client: PGW SDG #: W05101 NA [ ] SAF #: S07-001 NA [ ]

Work Order Number J7A230268 Chain of Custody #: S07-001-366, 346

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   ____ tape
   ____ custody seals
   ____ hazard labels
   ✓ appropriate samples labels
9. Samples are:
   ✓ in good condition
   ____ broken
   ____ leaking
   ____ have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed. Yes [✓] No [ ]
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: S. Smith Date: 01.23.07 1405

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary, process as is.

Project Manager _____ Date _____

LS-023 9/03, Rev. 5

PNNL JTA230278
WQ5701
due 03.09.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-012-520

Page 1 of 1

Collector: Fluor Hanford K. B. HULSE	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: S07-012	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV. DECEMBER 2006	HNF-N-506-4	Ice Chest No.: TJ.-2 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LC45		W	1/23/7	1231	1x20-mL P	Activity Scan	None
B1LC45		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						JM83H	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford K.B. HULSE		K.B. Hulse	JAN 23 2007 1405		S. Smith	S. Smith	JAN 23 2007 1405
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

SFT RICHLAND

84

STL

Sample Check-in List

Date/Time Received: 01-23-07 1405

Client: PGW SDG #: W05101 NA ( ) SAF #: 507-012 NA ( )

Work Order Number: J7A230278 Chain of Custody #: 507-012-520

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA ( ) Yes (✓) No ( )
2. Custody Seals dated and signed? NA ( ) Yes (✓) No ( )
3. Chain of Custody record present? Yes (✓) No ( )
4. Cooler temperature: _____ NA (✓) 5. Vermiculite/packing materials is NA (✓) Wet ( ) Dry ( )
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA (✓) Yes ( ) No ( )
8. Samples have:
   - ____ tape
   - ____ custody seals
   - ____ hazard labels
   - 1 appropriate samples labels
9. Samples are:
   - 1 in good condition
   - ____ broken
   - ____ leaking
   - ____ have air bubbles (Only for samples requiring head space)
10. Sample pH taken? NA ( ) pH<2 ( ) pH>2 (✓) pH>9 ( )
11. Sample Location, Sample Collector Listed? * Yes (✓) No ( )
    *For documentation only. No corrective action needed
12. Were any anomalies identified in sample receipt? Yes ( ) No (✓)
13. Description of anomalies (include sample numbers): _____

Sample Custodian: S. Smith Date: 01-23-07 1405

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

( ) No action necessary; process as is.

Project Manager _____ Date _____

LS-023 9/03, Rev. 5

PNNL J7A250121
W05701
Due 03.09.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-012-616**

Page 1 of 1

Collector Fluor Hanford F. M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-012	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, DECEMBER 2006	HNF-N-506 3	**Ice Chest No.** Ros1 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LD58		W	1-24-07	1044	1x20-mL P	Activity Scan	None
B1LD58		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1LD58		W			1x1000-mL G/P	UISO_PLATE_AEA: List-1 (3)	HNO3 to pH <2
B1LD58		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JNCXW	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F.M. HALL			JAN 2 4 2007 1220	Eric Darby	Eric Darby	1220	JAN 2 4 2007
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

SIT RICHLAND

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PNNL J7A250121
W05701
Due 03-09-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-012-624

Page 1 of 1

Collector: Fluor Hanford F. M. HALL	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: S07-012	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, DECEMBER 2006	HNF-N-506 3	Ice Chest No.: R055 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LD63		W	1-24-07	0940	1x20-mL P	Activity Scan	None
B1LD63		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

JNCX1

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F.M.HALL			1220 JAN 24 2007		Eric Dudley	Eric Dudley	1220 JAN 24 2007
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

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STL

Sample Check-in List

Date/Time Received: 11/24/07 12:25

Client: PNL PGW SDG #: W05101 NA [ ] SAF #: S07-012 NA [ ]

Work Order Number: J7A250121 Chain of Custody # S07-012-616,624

Shipping Container ID: _____ Air Bill # _____

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

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

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

4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]

6. Number of samples in shipping container 2

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

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

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

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

11. Sample Location, Sample Collector Listed? * 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 Eric Bailey Date: 11/24/07 12:20

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary: process as is.

Project Manager _____ Date _____

LS-022 9/03, Rev 5

PNNL J7A250129
W05101
Due 03.09.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-268**

Page 1 of 1

Collector Fluor Hanford D. P. CONNOLLY	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. S07-001	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURV, JANUARY 2007	HNF-N-5062	Ice Chest No. SAWS-115 Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LPC9		W	1-24-07	1216	1x20-mL P	Activity Scan	None
B1LPC9		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LPC9		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LPC9		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1LPC9		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1LPC9		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						JNCON	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. P. CONNOLLY	[signature]		JAN 24 2007 1330	[signature]	Eric Danby		JAN 24 2007 1330
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

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PNNL J7A250129
W05101
Due 03.09.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-238**

Page 1 of 1

Collector Fluor Hanford D. P. CONNOLLY	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. S07-001	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURV, JANUARY 2007	HNF-N-5062	Ice Chest No. SAWS-115 Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LPB1		W	1-24-07	0931	1x20-mL P	Activity Scan	None
B1LPB1		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LPB1		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LPB1		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1LPB1		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1LPB1		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						JNC02	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. P. CONNOLLY	[signature]		JAN 24 2007 1330	[signature]	ERIC Darley		JAN 24 2007 1330
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

90

PNNL J7A250129
WO 5701
Fluor Hanford Due 03-09-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-001-244

Page 1 of 1

Collector D. P. CONNOLLY	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. S07-001	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURV, JANUARY 2007	HNF-N-506 2	Ice Chest No. SHWS 115 Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LPB5		W	1-24-07	1046	1x20-mL P	Activity Scan	None
B1LPB5		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LPB5		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LPB5		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1LPB5		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1LPB5		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						JNC09	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. P. CONNOLLY			JAN 24 2007 1330				JAN 24 2007 1330
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

SLT RICHLAND

91

STL

Sample Check-in List

Date/Time Received: 1/24/07 1330

Client: PNL SDG #: W05101 NA [ ] SAF #: S07-001 NA [ ]

Work Order Number: JTA250129 Chain of Custody # S07-001, 268, 238, 244

Shipping Container ID: _____ Air Bill # _____

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

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

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

4 Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]

6 Number of samples in shipping container: 3

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

8. Samples have:
_____tape
_____custody seals
_____hazard labels
✓ appropriate samples labels

9 Samples are:
✓ in good condition
_____broken
_____leaking
_____have air bubbles
(Only for samples requiring head space)

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

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

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

13 Description of anomalies (include sample numbers): _____

Sample Custodian: Eric Danby Date: 1/24/07 1330

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary, process as is.

Project Manager _____ Date _____

LS-023 9/03, Rev 5

PNNL J7A250138
W05701
FLUOR HANFORD due 03-09-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-012-612

Page 1 of 1

Collector: M.R. WEIL	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: S07-012	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, DECEMBER 2006	HNF-N-506-1	Ice Chest No.: 118 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LBV0		W	1-24-07	1309	1x20-mL P	Activity Scan	None
B1LBV0		W	↓	↑	3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None
						JNC2T	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD M.R. WEIL			JAN 24 2007 1330		Eric Dorsey		JAN 24 2007 1330
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

SIL RICHLAND

93

PNNL J7A250138 ~~W05105~~ W05101
FLUOR HANFORD Due 03-0907

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-012-604**

Collector: M.R. WEIL	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: S07-012	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, DECEMBER 2006	HNF-N-506-1	Ice Chest No.: 105 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LC85		W	1-24-07	0956	1x20-mL P	Activity Scan	None
B1LC85		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LC85		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

JNC24

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
FLUOR HANFORD M.R. WEIL	JAN 24 2007 1330	Eric Darling	JAN 24 2007 1330
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

SLL RICHLAND

PNNL J7A250138 W05101

FLUOR HANFORD Due 03-09-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-012-600**

Page 1 of 1

Collector M.R. WEIL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-012	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, DECEMBER 2006	HNF-N-506-1	**Ice Chest No.** 005 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LBV2		W	1-24-07	1228	1x20-mL P	Activity Scan	None
B1LBV2		W	✓	✓	3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None
						JNC3E	

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
FLUOR HANFORD M.R. WEIL	JAN 24 2007 1330	Eric Dowling	JAN 24 2007 1330
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

SIL RICHLAND

95

PNNL J1A250138
WO 5101
FLUOR HANFORD due 03-09-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-012-596

Page 1 of 1

Collector: M.R. WEIL	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: S07-012	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, DECEMBER 2006	HNF-N-506-1	Ice Chest No.: 005 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LBV4		W	1-24-07	1149	1x20-mL P	Activity Scan	None
B1LBV4		W	↓	↓	3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None
						JNC3P	

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
FLUOR HANFORD M.R. WEIL	JAN 24 2007 1330	Eric Daly	JAN 24 2007 1330
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

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

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

SIL RICHLAND

96

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 1/24/07 1330

Client: PNL SDG #: W05107 NA ( ) SAF #: S07-012 NA ( )

Work Order Number: J7A250138 Chain of Custody #: S07-012, 594, 600, 604, 612

Shipping Container ID: _____ Air Bill # _____

1 Custody Seals on shipping container intact? NA ( ) Yes (✓) No ( )

2 Custody Seals dated and signed? NA ( ) Yes (✓) No ( )

3. Chain of Custody record present? Yes (✓) No ( )

4 Cooler temperature: _____ NA (✓) 5. Vermiculite/packing materials is NA (✓) Wet ( ) Dry ( )

6 Number of samples in shipping container: 4

7 Sample holding times exceeded? NA (✓) Yes ( ) No ( )

8 Samples have:
_____tape
_____custody seals
_____hazard labels
✓ appropriate samples labels

9 Samples are:
✓ in good condition
_____broken
_____leaking
_____have air bubbles
(Only for samples requiring head space)

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

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

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

13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 1/24/07 1330

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary: process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL J7A250148
W05101
Due 03-09-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-012-388**

Page 1 of 1

Collector: J. E. PARCHEN	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W07-012	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, DECEMBER 2006	HNF-N-506-4	Ice Chest No.: TJ-2 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LJD1		W	1/24/7	1026	1x20-mL P	Activity Scan	None
B1LJD1		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JNC41	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
J. E. PARCHEN		JAN 24 2007	1515	Eric Darby	Eric Darby	JAN 24 2007	1515
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

98

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 1/24/07 1515

Client: PNL SDG #: W05101 NA [ ] SAF #: W07-012 NA [ ]

Work Order Number: J7A250148 Chain of Custody # W07-012-388

Shipping Container ID: _____ Air Bill # _____

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

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

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

4 Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]

6 Number of samples in shipping container: 1

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

8. Samples have:
_____tape
_____custody seals
_____hazard labels
✓ appropriate samples labels

9 Samples are
✓ in good condition
_____broken
_____leaking
_____have air bubbles
(Only for samples requiring head space)

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

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

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

13 Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 1/24/07 1515

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary, process as is.

Project Manager _____ Date _____

LS-023 9/03, Rev 5

STL RICHLAND

PNNL J7A250163
W05701
Due 03-09-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I07-021-7

Page 1 of 1

Collector: D.E. PARCHEN	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: I07-021	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2ZP1-LOI, JANUARY 2007	HNF-N-506-4	Ice Chest No.: TJ-2 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LNF9		W	1/24/7	1230	1x20-mL P	Activity Scan	None
B1LNF9		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						JNC7W	

Relinquished By: D.E. PARCHEN Print Sign Date/Time 1515 JAN 24 2007	Received By: Eric Darby Print Sign Date/Time 1515 JAN 24 2007	Matrix *	
Relinquished By Date/Time	Received By Date/Time	S = Soil; SE = Sediment; SO = Solid; SL = Sludge; W = Water; O = Oil; A = Air	DS = Drum Solid; DL = Drum Liqui; T = Tissue; WI = Wine; L = Liquid; V = Vegetation; X = Other
Relinquished By Date/Time	Received By Date/Time		
Relinquished By Date/Time	Received By Date/Time		

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

100

STL

Sample Check-in List

Date/Time Received: 11/24/07 1315

Client: PNL SDG #: W05701 NA [ ] SAF #: I07-021 NA [ ]

Work Order Number: J7A250163 Chain of Custody #: I07-021-7

Shipping Container ID: _____ Air Bill # _____

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

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

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

4 Cooler temperature: _____ NA [✓] 5 Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]

6 Number of samples in shipping container: 1

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

8 Samples have:
_____tape
_____custody seals
_____hazard labels
✓ appropriate samples labels

9 Samples are:
✓ in good condition
_____broken
_____leaking
_____have air bubbles
(Only for samples requiring head space)

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

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

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

13. Description of anomalies (include sample numbers) _____

Sample Custodian: E. Daly Date: 11/24/07 1515

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary. process as is.

Project Manager _____ Date _____

LS-022 9/03, Rev 5

PNNL J7A260157
WO 5101
Due 03.12.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-001-138

Page 1 of 1

Collector: Fluor Hanford ~~D. E. PARCHEN~~	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: S07-001	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JANUARY 2007	HNF-N-506-4	Ice Chest No. TJ-2 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LP00		W	1/25/7	1314	1x20-mL P	Activity Scan	None
B1LP00		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

JNFMN

Relinquished By	Received By
Print: Fluor Hanford D. E. PARCHEN; Sign: [signature]; Date/Time: JAN 25 2007 1450	Print: Eric Darby; Sign: [signature]; Date/Time: JAN 25 2007 1450
Relinquished By; Date/Time	Received By; Date/Time
Relinquished By; Date/Time	Received By; Date/Time
Relinquished By; Date/Time	Received By; Date/Time

Matrix *

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

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

STL RICHLAND

102

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 1/25/07 1450

Client: PNL SDG #: W05101 NA ( ) SAF #: 507-001 NA ( )

Work Order Number: J7A260157 Chain of Custody # 507-001-138

Shipping Container ID: _____ Air Bill # _____

1 Custody Seals on shipping container intact? NA ( ) Yes (✓) No ( )

2 Custody Seals dated and signed? NA ( ) Yes (✓) No ( )

3. Chain of Custody record present? Yes (✓) No ( )

4 Cooler temperature _____ NA (✓) 5. Vermiculite/packing materials is NA (✓) Wet ( ) Dry ( )

6 Number of samples in shipping container: 1

7 Sample holding times exceeded? NA (✓) Yes ( ) No ( )

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

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

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

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

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

13. Description of anomalies (include sample numbers). _____

Sample Custodian: [signature] Date: [signature] 1/25/07 1450

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023 9/03, Rev. 5

PNNL J7A260178
W05701
Due 03.12.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-001-53**

Page 1 of 1

Collector Fluor Hanford D. E. PARCHEN	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. W07-001	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA, JANUARY 2007	HNF-N-506-4	Ice Chest No. TJ-2 Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol RCRA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LRM1		W	1/25/7	1314	1x20-mL P	Activity Scan	None
B1LRM1		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						JNFRX	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. E. PARCHEN			JAN 25 2007 1450		Eric Darby		JAN 25 2007 1450
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

STL

Sample Check-in List

Date/Time Received: 01.25.07

Client: Dow

SDG #: W05101 NA [ ] SAF #: W07-001 NA [ ]

Work Order Number: J7A260178

Chain of Custody # W07-001.53

Shipping Container ID: _____

Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ tape
   - ____ custody seals
   - ____ hazard labels
   - ✓ appropriate samples labels
9. Samples are:
   - ✓ in good condition
   - ____ broken
   - ____ leaking.
   - ____ have air bubbles (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: EP [signature] Date: 01.25.07 1450

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL J7A260181
W05101
Due 03-12-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W07-012-113

Page 1 of 1

Collector: Fluor Hanford D. E. PARCHEN	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W07-012	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, DECEMBER 2006	HMF-N-506-4	Ice Chest No.: TJ-2 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LJ46		W	1/25/7	1205	1x20-mL P	Activity Scan	None
B1LJ46		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LJ46		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1LJ46		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1LJ46		W			1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2

JNFTQ

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. E. PARCHEN			JAN 25 2007 1450		Eric Darby	Eric Darby	JAN 25 2007 1450
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

106

PNNL J7A260181
W05701
Dell 03.12.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-012-112**

Page 1 of 1

Collector: Fluor Hanford D. E. PARCHEN	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W07-012	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, DECEMBER 2006	HNF-N-506-4	Ice Chest No.: TJ-2 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LJ45		W	1/25/7	1205	1x20-mL P	Activity Scan	None
B1LJ45		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LJ45		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1LJ45		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1LJ45		W			1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2

JNFTU

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. E. PARCHEN			JAN 25 2007 1430		Eric Dailey		JAN 25 2007 1430
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

107

STL

Sample Check-in List

Date/Time Received: 1/25/07 1450

Client: PNL SDG #: W05101 NA [ ] SAF #: W07-012 NA [ ]

Work Order Number: J7A260181 Chain of Custody #: W07-012-53, 112, 113

Shipping Container ID: _____ Air Bill # _____

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

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

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

4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]

6. Number of samples in shipping container: ~~32~~ 54

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

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

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

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

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

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

13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 1/25/07 1450

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary. process as is.

Project Manager _____ Date _____

LS-023 9/03, Rev 5

PNNL J7A300174
W05101
Due 03-12-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-010-251**

Page 1 of 1

Collector Fluor Hanford D. R. BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-010	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, OCTOBER 2006	HNF-N-506-1	**Ice Chest No.** **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL GW samples submitted under A, G, I, S, and W 07 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
B1KR91		W	1-26-07	1255	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1KR91		W	↓	↓	1x20-mL P	Activity Scan	None
B1KR91		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						JNKXW	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON		D.R. Brewington	1453 JAN 26 2007	Eric Dudley	Eric Dudley	(01-30-07) SS	1453 01-26-07
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

SIL RICHLAND

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SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 1/26/07 1453

Client: PNL SDG #: W05101 NA [ ] SAF #: S07-010 NA [ ]

Work Order Number: J7A300174 Chain of Custody # S07-010-251

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
5. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   _____tape
   _____custody seals
   _____hazard labels
   ✓ appropriate samples labels
9. Samples are:
   ✓ in good condition
   _____broken
   _____leaking
   _____have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed. Yes [✓] No [ ]
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers). _____

Sample Custodian: [signature] Date: 1/26/07 1453

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023 9/03, Rev. 5

PNNL J7A300180
WO 5101
Due 03.12.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I07-009-69

Page 1 of 1

Collector Fluor Hanford R. BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I07-009	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2UP1-LOI NOVEMBER 2006	4NF-N-506-1	**Ice Chest No.** **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1L208		W	1-26-07	0901	1x20-mL P	Activity Scan	None
B1L208		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1L208		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

JNKOD

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford	R. BREWINGTON	D.R. Brewington	JAN 26 2007 1453	Eric Darby	Eric Darby	(SS 01-30-07)	01-26-07 1453
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

111

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 1/26/07 1453

Client: PNL SDG #: W05101 NA [ ] SAF #: I07-009 NA [ ]

Work Order Number: J7A300180 Chain of Custody # I07-009-69

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ tape
   - ____ custody seals
   - ____ hazard labels
   - ✓ appropriate samples labels
9. Samples are:
   - ✓ in good condition
   - ____ broken
   - ____ leaking
   - ____ have air bubbles (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 1/26/07 1453

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary, process as is.

Project Manager _____ Date _____

LS-023 9/03, Rev 5

STL RICHLAND

2/9/2007 9:27:10 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #:

AnalyDueDate: 03/09/2007 WD5,01

Batch: 7031398 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JM828-1-AD J7A230268-2-SAMP 01/23/2007 12:56	AmtRec: 20ML,500ML,4XLP,3X4LP #Containers: 9	200.60g,in	PUTC10487 01/18/07,pd 08/04/06,r	200		Scr:	Alpha: 1.71E-03 uCi/Sa	Beta: -1.40E-03 uCi/Sa
2 JM828-1-AG-X J7A230268-2-DUP 01/23/2007 12:56	AmtRec: 20ML,500ML,4XLP,3X4LP #Containers: 9	200.60g,in	PUTC10488 01/18/07,pd 08/04/06,r			Scr:	Alpha: 1.71E-03 uCi/Sa	Beta: -1.40E-03 uCi/Sa
3 JNNG2-1-AA-B J7A310000-398-BLK 01/23/2007 12:56	AmtRec: #Containers: 1	200.80g,in	PUTC10489 01/23/07,pd 08/04/06,r			Scr:	Alpha:	Beta:
4 JNNG2-1-AC-C J7A310000-398-LCS 01/23/2007 12:56	AmtRec: #Containers: 1	203.10g,in	PUSG0900 01/18/07,pd 08/04/06,r			Scr:	Alpha:	Beta:

Comments: PH <2.0 9B2-9-07

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

JM8281AD-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						
JNNG21AA-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						
JNNG21AC-LCS:											
PU-239	RDL:1	pCi/L	LCL:70	UCL:130	RPD:20	Pu-242	RDL:	pCi/L	LCL:20	UCL:105	RPD:20

STL RICHLAND

2/15/2007 10:48:14 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 03/09/2007

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

Balance Id:1120482733

Pipet #: _____

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Batch: 7046186 **WATER** **pCi/L** **PM, Quote: SA , 57671**
SEQ Batch, Test: None

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JNCXW-2-AC J7A250121-1-SAMP 01/24/2007 10:44		AmtRec: 20ML,2X500ML,LP	204.30g,in #Containers: 4	204.30g	UITC17031 02/12/07,pd 01/20/04,r	200		Scr:	Alpha: -3.32E-05 uCi/Sa	Beta: 2.07E-04 uCi/Sa
2 JNCXW-2-AE-X J7A250121-1-DUP 01/24/2007 10:44		AmtRec: 20ML,2X500ML,LP	199.10g,in #Containers: 4	199.10g	UITC17032 02/12/07,pd 01/20/04,r			Scr:	Alpha: -3.32E-05 uCi/Sa	Beta: 2.07E-04 uCi/Sa
3 JPGFT-1-AA-B J7B150000-186-BLK 01/24/2007 10:44		AmtRec:	200.30g,in #Containers: 1	200.30g	UITC17033 02/12/07,pd 01/20/04,r			Scr:	Alpha:	Beta:
4 JPGFT-1-AC-C J7B150000-186-LCS 01/24/2007 10:44		AmtRec:	200.50g,in #Containers: 1	200.50g	UISG1399 11/22/06,pd 01/20/04,r			Scr:	Alpha:	Beta:

Comments: JH 2-15-07

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

JNCXW2AC-SAMP Constituent List:

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

JPGFT1AA-BLK:

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

STL RICHLAND

2/13/2007 7:44:12 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: 235

AnalyDueDate: 03/09/2007 W05101

Batch: 7031465 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,BockJ / APA

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JNC0N-1-AC J7A250129-1-SAMP 01/24/2007 12:16	200.60g,in	AmtRec: 20ML,5XLP,3X4LP	#Containers: 9	1.5	46.2	50	10A	1159	2/22/07	Scr: Alpha: 5.90E-04 uCi/Sa Beta: 1.96E-03 uCi/Sa
2 JNC0N-1-AH-X J7A250129-1-DUP 01/24/2007 12:16	199.10g,in	AmtRec: 20ML,5XLP,3X4LP	#Containers: 9		50.3		10B			Scr: Alpha: 5.90E-04 uCi/Sa Beta: 1.96E-03 uCi/Sa
3 JNC02-1-AC J7A250129-2-SAMP 01/24/2007 09:31	194.50g,in	AmtRec: 20ML,5XLP,3X4LP	#Containers: 9		46.4		10C			Scr: Alpha: 3.66E-04 uCi/Sa Beta: -4.11E-05 uCi/Sa
4 JNC09-1-AC J7A250129-3-SAMP 01/24/2007 10:46	200.00g,in	AmtRec: 20ML,5XLP,3X4LP	#Containers: 9		34.8		10D			Scr: Alpha: -5.70E-04 uCi/Sa Beta: 9.57E-04 uCi/Sa
5 JNFRX-1-AA J7A260178-1-SAMP 01/25/2007 13:14	111.40g,in	AmtRec: 20ML,LP	#Containers: 2		53.1	100	10A	1354	2/22/07	Scr: Alpha: -1.87E-04 uCi/Sa Beta: 1.86E-04 uCi/Sa
6 JNKXW-1-AC J7A300174-1-SAMP 01/26/2007 12:55	166.30g,in	AmtRec: 20ML,2XLP	#Containers: 3		47.6	50	10F	1159	2/22/07	Scr: Alpha: 7.20E-06 uCi/Sa Beta: 1.59E-04 uCi/Sa
7 JNNQK-1-AA-B J7A310000-465-BLK 01/24/2007 12:16	203.60g,in	AmtRec:	#Containers: 1		0.5	100	10B	1354	2/22/07	Scr: Alpha: Beta:

STL Richland Richland Wa.

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

ISV - Insufficient Volume for Analysis

WO Cnt: 7
Prep_SamplePrep v4.8.26

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STL RICHLAND

2/13/2007 7:44:17 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 03/09/2007

Sep1 DT/Tm Tech:

Batch: 7031465 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JNNQK-1-AC-C J7A310000-465-LCS 01/24/2007 12:16		203.90g,in	ASD4120 01/18/07,pd 02/09/06,r	1.5	0.7	100		10 C	1354 2/22/07 n	

AmtRec: #Containers: 1 Scr: Alpha: Beta:

Comments: JNFRX-SAMP "Comments. Aliquot reduced due to weight screen activity. JB 02/13/07"
JNKXW-SAMP "Comments. Aliquot reduced due to weight screen activity. JB 02/13/07"
PH <2.0 JB 2-13-07

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

JNC0N1AC-SAMP Constituent List:
ALPHA RDL:3 pCi/L LCL: UCL: RPD:
JNNQK1AA-BLK:
ALPHA RDL:3 pCi/L LCL: UCL: RPD:
JNNQK1AC-LCS:
Am-241 RDL: pCi/L LCL:70 UCL:130 RPD:20

JNC0N1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JNNQK1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JNNQK1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

STL RICHLAND

2/23/2007 10:48:15 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 #:

AnalyDueDate: 03/09/2007

Sep1 DT/Tm Tech:

Batch: 7053500 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ/APA

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JNC0N-2-AD J7A250129-1-SAMP 01/24/2007 12:16		202.60g,in AmtRec: 20ML,5XLP,3X4LP #Containers: 9		1.5	68.4	100	26A	1500	2/26/07	Scr: Alpha: 5.90E-04 uCi/Sa Beta: 1.96E-03 uCi/Sa
2 JNC02-2-AD J7A250129-2-SAMP 01/24/2007 09:31		200.30g,in AmtRec: 20ML,5XLP,3X4LP #Containers: 9			58.3		26B			Scr: Alpha: 8.66E-04 uCi/Sa Beta: -4.11E-05 uCi/Sa
3 JNC09-2-AD J7A250129-3-SAMP 01/24/2007 10:46		201.70g,in AmtRec: 20ML,5XLP,3X4LP #Containers: 9			55.8		26C			Scr: Alpha: -5.70E-04 uCi/Sa Beta: 9.57E-04 uCi/Sa
4 JNFRX-2-AC J7A260178-1-SAMP 01/25/2007 13:14		152.60g,in AmtRec: 20ML,LP #Containers: 2			96.7		26D			Scr: Alpha: -1.87E-04 uCi/Sa Beta: 1.86E-04 uCi/Sa
5 JNFTQ-2-AA J7A260181-1-SAMP 01/25/2007 12:05		153.20g,in AmtRec: 20ML,2X500ML,LP,4LP #Containers: 5			97.6		27A			Scr: Alpha: 5.77E-04 uCi/Sa Beta: 3.41E-04 uCi/Sa
6 JNFTQ-2-AJ-X J7A260181-1-DUP 01/25/2007 12:05		155.10g,in AmtRec: 20ML,2X500ML,LP,4LP #Containers: 5			95.6		27B			Scr: Alpha: 5.77E-04 uCi/Sa Beta: 3.41E-04 uCi/Sa
7 JNFT0-2-AA J7A260181-2-SAMP 01/25/2007 12:05		153.60g,in AmtRec: 20ML,2X500ML,LP,4LP #Containers: 5			90.6		27C			Scr: Alpha: -1.52E-03 uCi/Sa Beta: 4.10E-04 uCi/Sa

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

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2/23/2007 10:48:17 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 #: _____

AnalyDueDate: 03/09/2007

Sep1 DT/Tm Tech:

Batch: 7053500 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JNKXW-2-AD J7A300174-1-SAMP 01/26/2007 12:55		197.10g,in AmtRec: 20ML,2XLP	#Containers: 3	1.5	87.2	100	27D	1500	2/26/07	Scr: Alpha: 7.20E-06 uCi/Sa Beta: 1.59E-04 uCi/Sa
9 JPXHP-1-AA-B J7B220000-500-BLK 01/24/2007 12:16		199.30g,in AmtRec:	#Containers: 1		0.4		28A			Scr: Alpha: Beta:
10 JPXHP-1-AC-C J7B220000-500-LCS 01/24/2007 12:16		201.00g,in AmtRec:	BESB3010 01/23/07,pd 08/08/06,r #Containers: 1		0.6		28B			Scr: Alpha: Beta:

Comments: JNFRX-SAMP "Comments. Aliquot reduced due to weight screen activity. JB 02/23/07"
JNFTQ-SAMP "Aliquot reduced due to weight screen activity. JB 02/23/07"
JNFT0-SAMP "Aliquot reduced due to weight screen activity. JB 02/23/07"
~~JNKXW-SAMP~~ PH <2.0 JB 2-23-07

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

JNC0N2AD-SAMP Constituent List:
BETA RDL:4 pCi/L LCL: UCL: RPD:
JPXHP1AA-BLK:
BETA RDL:4 pCi/L LCL: UCL: RPD:
JPXHP1AC-LCS:
Sr-90 RDL: pCi/L LCL:70 UCL:130 RPD:20
JNC0N2AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JPXHP1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

2/23/2007 10:48:18 AM

Sample Preparation/Analysis

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

Balance Id:1120482733
Pipet #: _____

AnalyDueDate: 03/09/2007

Sep1 DT/Tm Tech:

Batch: 7053500 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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

JPXHP1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

STL RICHLAND

2/9/2007 10:25:26 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

Balance Id:1120482733
Pipet #: DRM

AnalyDueDate: 03/09/2007 WO5101

Sep1 DT/Tm Tech: 2/13/07 2:40 PM

Batch: 7031458 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech: 2/20/07 7:48:59 AM

SEQ Batch, Test: None

Prep Tech: ,BockJ DRM

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 JM828-1-AE J7A230268-2-SAMP		1005.40g,in	SRTB14473 01/24/07,pd 09/11/06,r	1.802 3.0333	1"	22.5	~~1000~~ 100	93 2-9-07 3"	0926	2/14/07	
YTA16972 Ex:1/3/2008				0.8862				3L	0744	2/21/07	
								3L	0834	2/22/07	
01/23/2007 12:56		AmtRec: 20ML,500ML,4XLP,3X4LP	#Containers: 9					Scr:	Alpha: 1.71E-03 uCi/Sa	Beta: -1.40E-03 uCi/Sa	
2 JNC0N-1-AG J7A250129-1-SAMP		1005.80g,in	SRTB14477 02/06/07,pd 09/11/06,r	1.544 2.0008		23.3		9"	1003	2/14/07 R	
YTA1693 Ex:1/3/2008				0.7992				3S	0744	2/21/07	
								3S	0834	2/22/07	
01/24/2007 12:16		AmtRec: 20ML,5XLP,3X4LP	#Containers: 9					Scr:	Alpha: 5.90E-04 uCi/Sa	Beta: 1.96E-03 uCi/Sa	
3 JNC02-1-AG J7A250129-2-SAMP		1001.90g,in	SRTB14478 02/06/07,pd 09/11/06,r	1.707 1.9853		20.7		3"	1003	2/14/07 R	
YTA16974 Ex:1/3/2008				0.8598				3L	0744	2/21/07	
								3L	0834	2/22/07	
01/24/2007 09:31		AmtRec: 20ML,5XLP,3X4LP	#Containers: 9					Scr:	Alpha: 8.66E-04 uCi/Sa	Beta: -4.11E-05 uCi/Sa	
4 JNC09-1-AG J7A250129-3-SAMP		1001.30g,in	SRTB14479 02/06/07,pd 09/11/06,r	1.633 2.0086		23.0		9"	1038	2/14/07 R	
YTA16975 Ex:1/3/2008				0.8130				3D	0744	2/21/07	
								3D	0834	2/22/07	
01/24/2007 10:46		AmtRec: 20ML,5XLP,3X4LP	#Containers: 9					Scr:	Alpha: -5.70E-04 uCi/Sa	Beta: 9.57E-04 uCi/Sa	

STL Richland
Richland Wa.

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

ISV - Insufficient Volume for Analysis

WO Cnt: 4
Prep_SamplePrep v4.8.26

120

2/9/2007 10:25:28 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 03/09/2007

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

Batch: 7031458 **WATER** **pCi/L**
SEQ Batch, Test: None

PM, Quote: SA , 57671

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

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
5 JNC24-1-AC J7A250138-2-SAMP		995.20g,in	SRTB14480 02/06/07,pd 09/11/06,r	1.979 2.0086	1"	23.9	100	3"	1039	2/14/07 R	
YTA16976 Ex:1/3/2008				0.8857				4A 4A	0744 0836	2/21/07 2/22/07	
01/24/2007 09:56		AmtRec: 20ML,3XLP,4LP		#Containers: 5				Scr:	Alpha: 1.14E-03 uCi/Sa	Beta: -3.47E-04 uCi/Sa	
6 JNC24-1-AD-X J7A250138-2-DUP		1001.50g,in	SRTB14481 02/06/07,pd 09/11/06,r	1.677 1.9969		24.2		9"	1112	2/14/07 R	
YTA16977 Ex:1/3/2008				0.8398				4B 4B	0744 0836	2/21/07 2/22/07	
01/24/2007 09:56		AmtRec: 20ML,3XLP,4LP		#Containers: 5				Scr:	Alpha: 1.14E-03 uCi/Sa	Beta: -3.47E-04 uCi/Sa	
7 JNNP5-1-AA-B J7A310000-458-BLK		1000.40g,in	SRTB14482 02/06/07,pd 09/11/06,r	1.684 2.0280		23.9		3"	1112	2/14/07 R	
YTA16978 Ex:1/3/2008				0.8328				4C 4C	0744 0836	2/21/07 2/22/07	
01/24/2007 09:56		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:	
8 JNNP5-1-AC-C J7A310000-458-LCS		1000.30g,in	srsg1314 02/06/07,pd 09/11/06,r	1.502 1.9928		23.7		9"	1145	2/14/07 R	
YTA16979 Ex:1/3/2008				0.4537				4D 4D	0744 0836	2/21/07 2/22/07	
01/24/2007 09:56		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:	

2/9/2007 10:25:31 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 03/09/2007

Batch: 7031458 pCi/L
SEQ Batch, Test: None

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

Comments: pH < 2.0 JB 2-9-07

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

JM8281AE-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

JNNP51AA-BLK:

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

JNNP51AC-LCS:

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

JM8281AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JNNP51AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JNNP51AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

PGW WATER

2/9/2007 11:00:34 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #:

AnalyDueDate: 03/09/2007 W05101

Sep1 DT/Tm Tech:

Batch: 7031455 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ / APA

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JM828-1-AA J7A230268-2-SAMP 01/23/2007 12:56		2000.30g,in AmtRec: 20ML,500ML,4XLP,3X4LP #Containers: 9			100 mL	100	64	0657 Scr: Alpha: 1.71E-03 uCi/Sa	2/08/07 Beta: -1.40E-03 uCi/Sa	
2 JNC0N-1-AE J7A250129-1-SAMP 01/24/2007 12:16		1999.70g,in AmtRec: 20ML,5XLP,3X4LP #Containers: 9					65	0648 Scr: Alpha: 5.90E-04 uCi/Sa	Beta: 1.96E-03 uCi/Sa	
3 JNC02-1-AE J7A250129-2-SAMP 01/24/2007 09:31		2000.00g,in AmtRec: 20ML,5XLP,3X4LP #Containers: 9					66	0652 Scr: Alpha: 8.66E-04 uCi/Sa	Beta: -4.11E-05 uCi/Sa	
4 JNC09-1-AE J7A250129-3-SAMP 01/24/2007 10:46		2002.50g,in AmtRec: 20ML,5XLP,3X4LP #Containers: 9					67	0652 Scr: Alpha: -5.70E-04 uCi/Sa	Beta: 9.57E-04 uCi/Sa	
5 JNC24-1-AA J7A250138-2-SAMP 01/24/2007 09:56		2001.00g,in AmtRec: 20ML,3XLP,4LP #Containers: 5					68	0652 Scr: Alpha: 1.14E-03 uCi/Sa	Beta: -3.47E-04 uCi/Sa	
6 JNFTQ-1-AC J7A260181-1-SAMP 01/25/2007 12:05		1970.80g,in AmtRec: 20ML,2X500ML,LP,4LP #Containers: 5					64	0837 Scr: Alpha: 5.77E-04 uCi/Sa	2/08/07 Beta: 3.41E-04 uCi/Sa	
7 JNFTQ-1-AH-X J7A260181-1-DUP 01/25/2007 12:05		2007.50g,in AmtRec: 20ML,2X500ML,LP,4LP #Containers: 5					65	0834 Scr: Alpha: 5.77E-04 uCi/Sa	Beta: 3.41E-04 uCi/Sa	

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

STL RICHLAND

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2/9/2007 11:00:37 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 03/09/2007

Sep1 DT/Tm Tech:

Batch: 7031455 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JNFT0-1-AC J7A260181-2-SAMP 01/25/2007 12:05		2002.60g,in			100 ml	100	66	0837	2/22/07	
		AmtRec: 20ML,2X500ML,LP,4LP	#Containers: 5				Scr:	Alpha: -1.52E-03 uCi/Sa		Beta: 4.10E-04 uCi/Sa
9 JNNPX-1-AA-B J7A310000-455-BLK 01/25/2007 12:05		2000.10g,in					67	0838		
		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:
10 JNNPX-1-AC-C J7A310000-455-LCS 01/25/2007 12:05		2002.60g,in	qcag1332 01/23/07,pd 03/07/05,r				68	0838		
		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:

Comments: PH<2.0 JB2-9-07

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

JM8281AA-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:

JNNPX1AA-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:

JNNPX1AC-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

STL RICHLAND

2/22/2007 5:44:45 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 03/09/2007

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

Balance Id:1120482733

Pipet #: _____

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ManisD,BockJ

Batch: 7031450 **WATER** **pCi/L** **PM, Quote: SA , 57671**
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JM828-1-AC J7A230268-2-SAMP 01/23/2007 12:56		3892.80g,in	ITA6024 01/17/07	IFA	38.2	100	L2	1939	2/22/07 AD	
		AmtRec: 20ML,500ML,4XLP,3X4LP	#Containers: 9					Scr: Alpha: 1.71E-03 uCi/Sa		Beta: -1.40E-03 uCi/Sa
2 JM83H-1-AA J7A230278-1-SAMP 01/23/2007 12:31		3907.20g,in	ITA6025 01/17/07	IFA	37.3	100	L4	1943		
		AmtRec: 20ML,2X4LP	#Containers: 3					Scr: Alpha: -4.14E-04 uCi/Sa		Beta: -2.07E-04 uCi/Sa
3 JNC0N-1-AF J7A250129-1-SAMP 01/24/2007 12:16		3937.50g,in	ITA6026 01/17/07	IFA	37.1	100	L5	1944		
		AmtRec: 20ML,5XLP,3X4LP	#Containers: 9					Scr: Alpha: 5.90E-04 uCi/Sa		Beta: 1.96E-03 uCi/Sa
4 JNC02-1-AF J7A250129-2-SAMP 01/24/2007 09:31		3897.00g,in	ITA6027 01/17/07	IFA	34.1	100	L2	2140		
		AmtRec: 20ML,5XLP,3X4LP	#Containers: 9					Scr: Alpha: 8.66E-04 uCi/Sa		Beta: -4.11E-05 uCi/Sa
5 JNC09-1-AF J7A250129-3-SAMP 01/24/2007 10:46		3937.00g,in	ITA6028 01/17/07	IFA	36.1	100	L4	2143		
		AmtRec: 20ML,5XLP,3X4LP	#Containers: 9					Scr: Alpha: -5.70E-04 uCi/Sa		Beta: 9.57E-04 uCi/Sa
6 JNC7W-1-AA J7A250163-1-SAMP 01/24/2007 12:30		3817.20g,in	ITA6029 01/17/07	IFA	36.9	100	L5	2144		
		AmtRec: 20ML,2X4LP	#Containers: 3					Scr: Alpha: 4.17E-04 uCi/Sa		Beta: 2.64E-04 uCi/Sa
7 JNFMN-1-AA J7A260157-1-SAMP 01/25/2007 13:14		3974.80g,in	ITA6030 01/17/07	IFA	34.8	100	L2	2333		
		AmtRec: 20ML,2X4LP	#Containers: 3					Scr: Alpha: -1.22E-03 uCi/Sa		Beta: 1.20E-03 uCi/Sa

STL Richland
Richland Wa.

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

ISV - Insufficient Volume for Analysis

WO Cnt: 7
Prep_SamplePrep v4.8.26

STL RICHLAND

2/22/2007 5:44:46 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: _____

AnalyDueDate: 03/09/2007

Sep1 DT/Tm Tech:

Batch: 7031450 WATER pCi/L PM, Quote: SA , 57671

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JNK0D-1-AA J7A300180-1-SAMP		3919.40g,in	ITA6031 01/17/07	IFA	36.4	100	L4	2338	2/22/07 OD	
01/26/2007 09:01		AmtRec: 20ML,500MLP,2X4LP	#Containers: 4				Scr:	Alpha: 2.19E-03 uCi/Sa		Beta: -1.37E-03 uCi/Sa
9 JNK0D-1-AE-X J7A300180-1-DUP		3922.00g,in	ITA6032 01/17/07	IFA	36.5	100	L5	2338		
01/26/2007 09:01		AmtRec: 20ML,500MLP,2X4LP	#Containers: 4				Scr:	Alpha: 2.19E-03 uCi/Sa		Beta: -1.37E-03 uCi/Sa
10 JNNPC-1-AA-B J7A310000-450-BLK		3975.90g,in	ITA6033 01/17/07	IFA	36.9	100	L4	0648	2/23/07	
01/26/2007 09:01		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:
11 JNNPC-1-AC-C J7A310000-450-LCS		3951.30g,in	ISD0728 12/20/06	IFA	38.2	100	L5	0649		
01/26/2007 09:01		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:

Comments: JM828-SAMP "Comments: Samples JNC7W, JNK0D & JNK0D-Dup required filtering, soil present. DRM 2/22/07"

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

JM8281AC-SAMP Constituent List:

I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:
JNNPC1AA-BLK:					
I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:
JNNPC1AC-LCS:					
I-129	RDL:5	pCi/L	LCL:70	UCL:130	RPD:20

JM8281AC-SAMP Calc Info:

STL RICHLAND

2/9/2007 9:14:37 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: _____

AnalyDueDate: 03/09/2007 W05101

Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: BockJ

Batch: 7031399 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None All Tests: 7031398 6DSO, 7031399 FPS5, 7031404 ARS6, 7031450 BNTB, 7031455 AWTA, 7031458 CLTL,

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 JM824-1-AC J7A230268-1-SAMP 01/23/2007 12:13			125.30g,in	125.30g		-60				
	AmtRec: 20ML,500MLP,LP	#Containers: 3					Scr:	Alpha: -1.47E-04 uCi/Sa		Beta: 1.41E-05 uCi/Sa
2 JM828-1-AF J7A230268-2-SAMP 01/23/2007 12:56			125.50g,in	125.50g						
	AmtRec: 20ML,500ML,4XLP,3X4LP	#Containers: 9					Scr:	Alpha: 1.71E-03 uCi/Sa		Beta: -1.40E-03 uCi/Sa
3 JNCXW-1-AA J7A250121-1-SAMP 01/24/2007 10:44			125.40g,in	125.40g						
	AmtRec: 20ML,2X500ML,LP	#Containers: 4					Scr:	Alpha: -3.32E-05 uCi/Sa		Beta: 2.07E-04 uCi/Sa
4 JNC41-1-AA J7A250148-1-SAMP 01/24/2007 10:26			126.40g,in	126.40g						
	AmtRec: 20ML,500MLP	#Containers: 2					Scr:	Alpha: -5.38E-05 uCi/Sa		Beta: 1.05E-04 uCi/Sa
5 JNC41-1-AC-X J7A250148-1-DUP 01/24/2007 10:26			125.30g,in	125.30g						
	AmtRec: 20ML,500MLP	#Containers: 2					Scr:	Alpha: -5.38E-05 uCi/Sa		Beta: 1.05E-04 uCi/Sa
6 JNFTQ-1-AD J7A260181-1-SAMP 01/25/2007 12:05			125.80g,in	125.80g						
	AmtRec: 20ML,2X500ML,LP,4LP	#Containers: 5					Scr:	Alpha: 5.77E-04 uCi/Sa		Beta: 3.41E-04 uCi/Sa
7 JNFT0-1-AD J7A260181-2-SAMP 01/25/2007 12:05			125.70g,in	125.70g						
	AmtRec: 20ML,2X500ML,LP,4LP	#Containers: 5					Scr:	Alpha: -1.52E-03 uCi/Sa		Beta: 4.10E-04 uCi/Sa

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STL RICHLAND

2/12/2007 9:08:16 AM

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 03/09/2007

Sample Preparation/Analysis

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

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

Batch: 7031399 **WATER** **pCi/L** **PM, Quote: SA , 57671**
SEQ Batch, Test: None

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JNK0D-1-AC J7A300180-1-SAMP 01/26/2007 09:01			125.70g,in	125.70g						
	AmtRec: 20ML,500MLP,2X4LP		#Containers: 4					Scr:	Alpha: 2.19E-03 uCi/Sa	Beta: -1.37E-03 uCi/Sa
9 JNK0D-1-AD-S J7A300180-1-MS 01/26/2007 09:01			125.90g,in	125.90g	TCSG1767 01/03/07,pd 01/10/06,r					
	AmtRec: 20ML,500MLP,2X4LP		#Containers: 4					Scr:	Alpha: 2.19E-03 uCi/Sa	Beta: -1.37E-03 uCi/Sa
10 JNNG5-1-AA-B J7A310000-399-BLK 01/26/2007 09:01			126.60g,in	126.60g						
	AmtRec:		#Containers: 1					Scr:	Alpha:	Beta:
11 JNNG5-1-AC-C J7A310000-399-LCS 01/26/2007 09:01			125.10g,in	125.10g	TCSE2068 01/24/07,pd 01/10/06,r					
	AmtRec:		#Containers: 1					Scr:	Alpha:	Beta:
12 JNNG5-1-AD-BN J7A310000-399-IBLK 01/26/2007 09:01										
	AmtRec:		#Containers: 1					Scr:	Alpha:	Beta:

Comments:

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

JM8241AC-SAMP Constituent List:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20

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STL RICHLAND

2/9/2007 9:14:48 AM

Sample Preparation/Analysis

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

AnalyDueDate: 03/09/2007

Batch: 7031399
SEQ Batch, Test: None

pCi/L

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:

Comments: PH < 2.0 9:3 2-9-07

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

JM8241AC-SAMP Constituent List:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
JNK0D1AD-MS:

JNNG51AA-BLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
JNNG51AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
JNNG51AD-IBLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
JNNG51AE-IBLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:

JM8241AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JNK0D1AD-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JNNG51AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JNNG51AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JNNG51AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JNNG51AE-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

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1/31/2007 1:34:24 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 2-9-07 Tom
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 03/09/2007 W051C1

Batch: 7031404 WATER pCi/L
SEO Batch, Test: None

PM, Quote: SA , 57671

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 JM824-1-AA J7A230268-1-SAMP 01/23/2007 12:13	AmtRec: 20ML,500MLP,LP	#Containers: 3				Scr:	Alpha:	Beta:
2 JNC0N-1-AA J7A250129-1-SAMP 01/24/2007 12:16	AmtRec: 20ML,5XLP,3X4LP	#Containers: 9				Scr:	Alpha:	Beta:
3 JNC02-1-AA J7A250129-2-SAMP 01/24/2007 09:31	AmtRec: 20ML,5XLP,3X4LP	#Containers: 9				Scr:	Alpha:	Beta:
4 JNC09-1-AA J7A250129-3-SAMP 01/24/2007 10:46	AmtRec: 20ML,5XLP,3X4LP	#Containers: 9				Scr:	Alpha:	Beta:
5 JNKXW-1-AA J7A300174-1-SAMP 01/26/2007 12:55	AmtRec: 20ML,2XLP	#Containers: 3				Scr:	Alpha:	Beta:
6 JNKXW-1-AE-X J7A300174-1-DUP 01/26/2007 12:55	AmtRec: 20ML,2XLP	#Containers: 3				Scr:	Alpha:	Beta:
7 JNNHL-1-AA-B J7A310000-404-BLK 01/26/2007 12:55	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

STL RICHLAND

1/31/2007 1:34:27 PM

Sample Preparation/Analysis

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

AnalyDueDate: 03/09/2007

Batch: 7031404
SEQ Batch, Test: None

pCi/L

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 2-9-07 [illegible]
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JNNHL-1-AC-C J7A310000-404-LCS 01/26/2007 12:55		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
9 JNNHL-1-AD-BX J7A310000-404-MBLK 01/26/2007 12:55		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
10 JNNHL-1-AE-CM J7A310000-404-MLCS 01/26/2007 12:55		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
11 JNNHL-1-AF-BN J7A310000-404-IBLK 01/26/2007 12:55		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

JM8241AA-SAMP Constituent List:

H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20
JNNHL1AA-BLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:
JNNHL1AC-LCS:					
H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20
JNNHL1AD-MBLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:

STL RICHLAND

STL RICHLAND

2/14/2007 10:16:28 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 03/09/2007 W05101

Sep1 DT/Tm Tech:

Batch: 7031396 WATER ug/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JNCXW-1-AD J7A250121-1-SAMP 01/24/2007 10:44		25.40g,in AmtRec: 20ML,2X500ML,LP	#Containers: 4			Scr:	Alpha: -3.32E-05 uCi/Sa	Beta: 2.07E-04 uCi/Sa
2 JNCX1-1-AA J7A250121-2-SAMP 01/24/2007 09:40		25.10g,in AmtRec: 20ML,500ML	#Containers: 2			Scr:	Alpha: -5.01E-05 uCi/Sa	Beta: 9.88E-05 uCi/Sa
3 JNFTQ-1-AE J7A260181-1-SAMP 01/25/2007 12:05		25.60g,in AmtRec: 20ML,2X500ML,LP,4LP	#Containers: 5			Scr:	Alpha: 5.77E-04 uCi/Sa	Beta: 3.41E-04 uCi/Sa
4 JNFTQ-1-AF-S J7A260181-1-MS 01/25/2007 12:05		25.30g,in AmtRec: 20ML,2X500ML,LP,4LP	unsf3593 02/05/07,pd 01/23/07,r #Containers: 5			Scr:	Alpha: 5.77E-04 uCi/Sa	Beta: 3.41E-04 uCi/Sa
5 JNFTQ-1-AG-X J7A260181-1-DUP 01/25/2007 12:05		25.80g,in AmtRec: 20ML,2X500ML,LP,4LP	#Containers: 5			Scr:	Alpha: 5.77E-04 uCi/Sa	Beta: 3.41E-04 uCi/Sa
6 JNFT0-1-AE J7A260181-2-SAMP 01/25/2007 12:05		26.10g,in AmtRec: 20ML,2X500ML,LP,4LP	#Containers: 5			Scr:	Alpha: -1.52E-03 uCi/Sa	Beta: 4.10E-04 uCi/Sa
7 JNNGR-1-AA-B J7A310000-396-BLK 01/25/2007 12:05		25.10g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

STL Richland
Richland Wa.

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

ISV - Insufficient Volume for Analysis

WO Cnt: 7
Prep_SamplePrep v4.8.26

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STL RICHLAND

2/14/2007 10:16:34 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 03/09/2007

Batch: 7031396 ug/L
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JNNGR-1-AC-C J7A310000-396-LCS 01/25/2007 12:05		25.00g,in AmtRec:	unsf3594 02/05/07,pd 01/23/07,r #Containers: 1			Scr:	Alpha:	Beta:
9 JNNGR-1-AD-C J7A310000-396-LCS 01/25/2007 12:05		25.40g,in AmtRec:	unsc1490 01/23/07,pd 04/28/06,r #Containers: 1			Scr:	Alpha:	Beta:

Comments: ~~JNFTQ-SAMP~~ ""
JNFT0-SAMP "" PH <2.0 B2-14-07

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

JNCXW1AD-SAMP Constituent List:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
JNFTQ1AF-MS:

JNNGR1AA-BLK:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
JNNGR1AC-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20
JNNGR1AD-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20

JNCXW1AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JNFTQ1AF-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JNNGR1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JNNGR1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

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2/15/2007 9:44:58 AM

ICOC Fraction Transfer/Status Report

ByDate: 2/15/2006, 2/20/2007, Batch: '7031398', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7031398						
AC		CalcC	BockJ	2/9/2007 9:21:17 AM		
SC			andersonp	IsBatched	1/31/2007 1:33:42 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	2/9/2007 9:21:17 AM	RICH-RC-5016 Revision 6
SC			BockJ	Prep1C	2/9/2007 9:27:17 AM	RICH-RC-5016 REVISION 6
SC			HarveyK	InSep1	2/9/2007 9:47:02 AM	RICH-RC-5010 REV0
SC			HarveyK	Sep1C	2/14/2007 8:38:12 AM	RICH-RC-5010 REV4
SC			FABREM	Sep2C	2/14/2007 2:47:43 PM	RICH-RC-5039 REV 5
SC			StringerR	InCnt1	2/14/2007 2:58:20 PM	RICH-RD-0008 REVISION 4
SC			DAWKINSO	CalcC	2/14/2007 7:47:17 PM	RICH-RD-0008 REVISION 4
AC			BockJ	2/9/2007 9:27:17 AM		
AC			HarveyK	2/9/2007 9:47:02 AM		
AC			HarveyK	2/14/2007 8:38:12		
AC			FABREM	2/14/2007 2:47:43 PM		
AC			StringerR	2/14/2007 2:58:20 PM		
AC			DAWKINSO	2/14/2007 7:47:17 PM		

AC: Accepting Entry; SC: Status Change

2/21/2007 2:47:06 PM

ICOC Fraction Transfer/Status Report

ByDate: 2/21/2006, 2/26/2007, Batch: '7046186', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7046186						
AC		CalcC	BockJ	2/15/2007 10:43:10		
SC			andersonp	IsBatched	2/15/2007 9:15:18 AM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	2/15/2007 10:43:10 AM	rich-rc-5017 rEVISION 5
SC			BockJ	Prep1C	2/15/2007 10:48:22 AM	RICH-RC-5016 REVISION 6
SC			HarveyK	InPrep2	2/16/2007 9:58:11 AM	RICH-RC-5086 REV2
SC			HarveyK	Prep2C	2/16/2007 9:58:26 AM	RICH-RC-5086 REV2
SC			HarveyK	InSep1	2/16/2007 9:58:40 AM	RICH-RC-5067 REV6
SC			HarveyK	Sep1C	2/19/2007 9:18:41 AM	RICH-RC-5067 REV6
SC			FABREM	Sep2C	2/20/2007 4:08:30 PM	RICH-RC-5039 REV 5
SC			DAWKINSO	InCnt1	2/20/2007 5:35:21 PM	RICH-RD-0008 REVISION 4
SC			DAWKINSO	CalcC	2/20/2007 10:14:23 PM	RICH-RD-0008 REVISION 4
AC			BockJ	2/15/2007 10:48:22		
AC			HarveyK	2/16/2007 9:58:11		
AC			HarveyK	2/16/2007 9:58:26		
AC			HarveyK	2/16/2007 9:58:40		
AC			HarveyK	2/19/2007 9:18:41		
AC			FABREM	2/20/2007 4:08:30 PM		
AC			DAWKINSO	2/20/2007 5:35:21 PM		
AC			DAWKINSO	2/20/2007 10:14:23		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 9

ICOCFractions v4.8.26

2/22/2007 3:22:33 PM

ICOC Fraction Transfer/Status Report

ByDate: 2/22/2006, 2/27/2007, Batch: '7031465', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7031465						
AC		**CalcC**	**BockJ**	2/13/2007 7:38:56		
SC			andersonp	IsBatched	1/31/2007 1:39:36 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	2/13/2007 7:38:56 AM	RICH-RC-5014 Revision 6
SC			BockJ	Prep1C	2/13/2007 7:44:28 AM	RICH-RC-5014 REVISION 6
SC			AshworthA	InPrep2	2/21/2007 10:45:46 AM	RICH-RC-5014 REVISION 6
SC			AshworthA	Prep2C	2/22/2007 10:33:12 AM	RICH-RC-5014 REVISION 6
SC			BlackCL	InCnt1	2/22/2007 10:50:15 AM	RICH-RD-0003 REVISION 4
SC			StringerR	CalcC	2/22/2007 2:07:49 PM	RICH-RD-0003 REVISION 4
AC			**BockJ**	2/13/2007 7:44:28		
AC			**AshworthA**	2/21/2007 10:45:46		
AC			**AshworthA**	2/22/2007 10:33:12		
AC			**BlackCL**	2/22/2007 10:50:15		
AC			**StringerR**	2/22/2007 2:07:49 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.26

2/27/2007 10:53:19 AM

ICOC Fraction Transfer/Status Report

ByDate: 2/27/2006, 3/4/2007, Batch: '7053500', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7053500						
AC		CalcC	BockJ	2/23/2007 10:32:19		
SC			antonsonl	IsBatched	2/22/2007 3:01:05 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	2/23/2007 10:32:19 AM	RICH-RC-5017 Revision 5
SC			BockJ	Prep1C	2/23/2007 10:48:20 AM	RICH-RC-5014 REVISION 6
SC			AshworthA	InPrep2	2/23/2007 12:04:39 PM	RICH-RC-5014 REVISION 6
SC			AshworthA	Prep2C	2/26/2007 12:53:33 PM	RICH-RC-5014 REVISION 6
SC			BlackCL	InCnt1	2/26/2007 1:07:02 PM	RICH-RD-0003 REVISION 4
SC			DAWKINSO	CalcC	2/26/2007 8:11:26 PM	RICH-RD-0003 REVISION 4
AC			BockJ	2/23/2007 10:48:20		
AC			AshworthA	2/23/2007 12:04:39		
AC			AshworthA	2/26/2007 12:53:33		
AC			BlackCL	2/26/2007 1:07:02 PM		
AC			DAWKINSO	2/26/2007 8:11:26 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa

Grp Rec Cnt: 6

ICOCFractions v4.8.26

2/27/2007 12:09:05 PM

ICOC Fraction Transfer/Status Report

ByDate: 2/27/2006, 3/4/2007, Batch: '7031458', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7031458						
AC		CalcC	BockJ	2/9/2007 9:47:46 AM		
SC			andersonp	IsBatched	1/31/2007 1:37:47 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	2/9/2007 9:47:46 AM	RICH-RC-5016 Revision 6
SC			BockJ	Prep1C	2/9/2007 10:26:15 AM	RICH-RC-5016 REVISION 6
SC			ManisD	InSep1	2/12/2007 8:28:10 AM	RICH-RC-5006 REV 6
SC			ManisD	Sep1C	2/13/2007 3:16:24 PM	RICH-RC-5006 REV 6
SC			DAWKINSO	InCnt1	2/13/2007 4:36:49 PM	RICH-RD-0007 REVISION 5
SC			StringerR	Cnt1C	2/14/2007 11:23:53 AM	RICH-RD-0007 REVISION 5
SC			ManisD	Sep2C	2/20/2007 1:45:00 PM	RICH-RC-5071 REV 4
SC			BlackCL	InCnt1	2/20/2007 1:46:14 PM	RICH-RD-0003 REVISION 4
SC			StringerR	CalcC	2/22/2007 9:19:24 AM	RICH-RD-0003 REVISION 4
AC			BockJ	2/9/2007 10:26:15		
AC			ManisD	2/12/2007 8:28:10		
AC			ManisD	2/13/2007 3:16:24 PM		
AC			DAWKINSO	2/13/2007 4:36:49 PM		
AC			StringerR	2/14/2007 11:23:53		
AC			ManisD	2/20/2007 1:45:00 PM		
AC			BlackCL	2/20/2007 1:46:14 PM		
AC			StringerR	2/22/2007 9:19:24		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 9

ICOCFractions v4.8.26

2/22/2007 2:26:03 PM

ICOC Fraction Transfer/Status Report

ByDate: 2/22/2006, 2/27/2007, Batch: '7031455', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7031455						
AC		**CalcC**	**BockJ**	2/9/2007 10:44:37		
SC			andersonp	IsBatched	1/31/2007 1:37:47 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	2/9/2007 10:44:37 AM	RICH-RC-5016 Revision 6
SC			BockJ	Prep1C	2/9/2007 11:00:40 AM	RICH-RC-5017 REVISION 5
SC			AshworthA	InPrep2	2/20/2007 11:18:43 AM	RICH-RC-5017 REVISION 4
SC			AshworthA	Prep2C	2/21/2007 6:42:05 PM	RICH-RC-5017 REVISION 4
SC			DAWKINSO	InCnt1	2/21/2007 8:40:36 PM	RICH-RD-0007 REVISION 5
SC			StringerR	CalcC	2/22/2007 9:19:18 AM	RICH-RD-0007 REVISION 5
AC			**BockJ**	2/9/2007 11:00:40		
AC			**AshworthA**	2/20/2007 11:18:43		
AC			**AshworthA**	2/21/2007 6:42:05 PM		
AC			**DAWKINSO**	2/21/2007 8:40:36 PM		
AC			**StringerR**	2/22/2007 9:19:18		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.26

2/23/2007 9:47:59 AM

ICOC Fraction Transfer/Status Report

ByDate: 2/23/2006, 2/28/2007, Batch: '7031450', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7031450						
AC		CalcC	BockJ	2/20/2007 9:22:18		
SC			andersonp	IsBatched	1/31/2007 1:37:46 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	2/20/2007 9:22:18 AM	RICH-RC-5016 Revision 6
SC			BockJ	Prep1C	2/20/2007 10:18:54 AM	RICH-RC-5017 REVISION 5
SC			ManisD	InSep1	2/21/2007 1:53:58 PM	RICH-RC-5025 REV 3
SC			BostedD	Sep1C	2/22/2007 5:45:19 PM	RICHRC5025 REV3
SC			ManisD	Sep1C	2/22/2007 5:46:06 PM	RICHRC5025 REV3
SC			DAWKINSO	InCnt1	2/22/2007 6:01:11 PM	RICH-RD-0007 REVISION 5
SC			StringerR	CalcC	2/23/2007 8:38:56 AM	RICH-RD-0007 REVISION 5
AC			**BockJ**	2/20/2007 10:18:54		
AC			**BostedD**	2/22/2007 5:45:19 PM		
AC			**ManisD**	2/22/2007 5:46:06 PM		
AC			**DAWKINSO**	2/22/2007 6:01:11 PM		
AC			**StringerR**	2/23/2007 8:38:56		

AC: Accepting Entry; SC: Status Change

2/14/2007 3:47:29 PM

ICOC Fraction Transfer/Status Report

ByDate: 2/14/2006, 2/19/2007, Batch: '7031399', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7031399						
AC		CalcC	BockJ	2/9/2007 9:05:40 AM		
SC			andersonp	IsBatched	1/31/2007 1:33:42 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	2/9/2007 9:05:40 AM	RICH-RC-5016 Revision 6
SC			BockJ	Prep1C	2/9/2007 9:14:48 AM	RICH-RC-5016 REVISION 6
SC			HarveyK	InSep1	2/12/2007 8:45:26 AM	RICH-RC-5065 REV5
SC			HarveyK	Sep1C	2/12/2007 4:02:28 PM	RICH-RC-5065 REV5
SC			DAWKINSO	InCnt1	2/12/2007 5:07:28 PM	RICH-RD-0001 REVISION 3
SC			BlackCL	CalcC	2/13/2007 1:31:26 PM	RICH-RD-0001 REVISION 3
AC			BockJ	2/9/2007 9:14:48 AM		
AC			HarveyK	2/12/2007 8:45:26		
AC			HarveyK	2/12/2007 4:02:28 PM		
AC			DAWKINSO	2/12/2007 5:07:28 PM		
AC			BlackCL	2/13/2007 1:31:26 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.26

2/12/2007 2:29:05 PM

ICOC Fraction Transfer/Status Report

ByDate: 2/12/2006, 2/17/2007, Batch: '7031404', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7031404						
AC		CalcC	McDowellD	2/8/2007 4:14:22 PM		
SC			andersonp	IsBatched	1/31/2007 1:33:42 PM	ICOC_RADCALC v4.8.26
SC			McDowellD	InSep1	2/8/2007 4:14:22 PM	RICH-RC-5007 REVISION 6
SC			McDowellD	Sep1C	2/9/2007 2:31:49 PM	RICH-RC-5007 REVISION 6
SC			StringerR	InCnt1	2/9/2007 2:43:06 PM	RICH-RD-0001 REVISION 3
SC			BlackCL	CalcC	2/12/2007 7:31:31 AM	RICH-RD-0001 REVISION 3
AC			McDowellD	2/9/2007 2:31:49 PM		
AC			StringerR	2/9/2007 2:43:06 PM		
AC			BlackCL	2/12/2007 7:31:31		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.26

2/28/2007 4:33:23 PM

ICOC Fraction Transfer/Status Report

ByDate: 2/28/2006, 3/5/2007, Batch: '7031396', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7031396						
AC		**Cnt1C**	**BockJ**	2/14/2007 9:17:34		
SC			andersonp	IsBatched	1/31/2007 1:33:42 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	2/14/2007 9:17:34 AM	RICH-RC-5016 Revision 6
SC			BockJ	Prep1C	2/14/2007 10:19:29 AM	RICH-RC-5015 REVISION 4
SC			AshworthA	InPrep2	2/23/2007 7:01:16 AM	RICH-RC-5015 REVISION 4
SC			AntonsonL	InPrep2	2/23/2007 7:01:34 AM	RICH-RC-5015 REVISION 4
SC			AshworthA	Prep2C	2/26/2007 6:44:25 PM	RICH-RC-5015 REVISION 4
SC			NelsonT	Cnt1C	2/28/2007 2:55:05 PM	RICH-RC-5058 REV 7
AC			**BockJ**	2/14/2007 10:19:29		
AC			**AshworthA**	2/23/2007 7:01:16		
AC			**AntonsonL**	2/23/2007 7:01:34		
AC			**AshworthA**	2/26/2007 6:44:25 PM		
AC			**NelsonT**	2/28/2007 2:55:05 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.26