

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: 34378

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05079	S07-012	B1LC99	J6L180171-1	JLPFQ1AA	9JLPFQ10	6363283
		B1LC94	J6L180171-2	JLPFT1AA	9JLPFT10	6363283
W07-011	W07-011	B1L5T9	J6L180177-1	JLPJR1AA	9JLPJR10	6363280
		B1L5T9	J6L180177-1	JLPJR1AC	9JLPJR10	6363286
		B1L5T9	J6L180177-1	JLPJR1AD	9JLPJR10	6363287
		B1L5T9	J6L180177-1	JLPJR1AE	9JLPJR10	6363285
		B1L5T9	J6L180177-1	JLPJR2AD	9JLPJR20	7024475
		B1L5T9	J6L180177-1	JLPJR2AD	9JLPJR20	7024475
W07-010	W07-010	B1KRT2	J6L180178-1	JLPJ01AA	9JLPJ010	6363286
		B1KRT2	J6L180178-1	JLPJ01AC	9JLPJ010	6363287
		B1KRT2	J6L180178-1	JLPJ02AC	9JLPJ020	7024475
S07-010	S07-010	B1KR22	J6L180179-1	JLPJ51AA	9JLPJ510	6363280
		B1KR22	J6L180179-1	JLPJ51AC	9JLPJ510	6363282
I07-015	I07-015	B1LK72	J6L180220-1	JLP3X1AA	9JLP3X10	6363282
		B1LK72	J6L180220-1	JLP3X1AC	9JLP3X10	6363284
I07-012	I07-012	B1LJC6	J6L180221-1	JLP371AA	9JLP3710	6363285

Comments:

Report Nbr: 34378

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05079	W07-012	B1LHJ7	J6L180222-1	JLP4L1AA	9JLP4L10	7005170
		B1LHJ7	J6L180222-1	JLP4L1AD	9JLP4L10	6363286
		B1LHJ7	J6L180222-1	JLP4L1AE	9JLP4L10	6363287
		B1LHJ7	J6L180222-1	JLP4L1AF	9JLP4L10	6363281
		B1LHJ7	J6L180222-1	JLP4L1AG	9JLP4L10	6363284
		B1LHJ7	J6L180222-1	JLP4L1AH	9JLP4L10	6363285
		B1LHJ7	J6L180222-1	JLP4L1AJ	9JLP4L10	6363280
		B1LHJ7	J6L180222-1	JLP4L2AE	9JLP4L20	7024475
		B1LH89	J6L180222-2	JLP4T1AA	9JLP4T10	7005170
		B1LH89	J6L180222-2	JLP4T1AD	9JLP4T10	6363286
		B1LH89	J6L180222-2	JLP4T1AE	9JLP4T10	6363287
		B1LH89	J6L180222-2	JLP4T1AF	9JLP4T10	6363281
		B1LH89	J6L180222-2	JLP4T1AG	9JLP4T10	6363284
		B1LH89	J6L180222-2	JLP4T1AH	9JLP4T10	6363285
		B1LH89	J6L180222-2	JLP4T1AJ	9JLP4T10	6363283
		B1LH89	J6L180222-2	JLP4T1AK	9JLP4T10	6363280
		B1LH89	J6L180222-2	JLP4T2AE	9JLP4T20	7024475
		B1LHC3	J6L180222-3	JLP4V1AC	9JLP4V10	6363286
		B1LHC3	J6L180222-3	JLP4V1AD	9JLP4V10	6363287
		B1LHC3	J6L180222-3	JLP4V1AE	9JLP4V10	6363281
		B1LHC3	J6L180222-3	JLP4V1AF	9JLP4V10	6363284
		B1LHC3	J6L180222-3	JLP4V1AG	9JLP4V10	6363285
		B1LHC3	J6L180222-3	JLP4V1AH	9JLP4V10	6363280
		B1LHC3	J6L180222-3	JLP4V2AD	9JLP4V20	7024475
	G07-012	B1LJX5	J6L200238-1	JLV661AA	9JLV6610	6363280
		B1LJX5	J6L200238-1	JLV661AC	9JLV6610	6363286

Comments:

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SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05079	G07-012	B1LJX5	J6L200238-1	JLV661AD	9JLV6610	6363287
		B1LJX5	J6L200238-1	JLV661AE	9JLV6610	6363281
		B1LJX5	J6L200238-1	JLV661AF	9JLV6610	6363284
		B1LJX5	J6L200238-1	JLV662AD	9JLV6620	7024475
		B1LJW5	J6L200242-1	JLV7X1AA	9JLV7X10	6363280
		B1LJW5	J6L200242-1	JLV7X1AC	9JLV7X10	6363286
		B1LJW5	J6L200242-1	JLV7X1AD	9JLV7X10	6363287
		B1LJW5	J6L200242-1	JLV7X1AE	9JLV7X10	6363281
		B1LJW5	J6L200242-1	JLV7X1AF	9JLV7X10	6363284
		B1LJW5	J6L200242-1	JLV7X2AD	9JLV7X20	7024475
		A07-012		B1LJR7	J6L210110-1	JLXJ61AA
B1LJR7	J6L210110-1			JLXJ61AC	9JLXJ610	6363283
B1LJR5	J6L210110-2			JLXJ81AA	9JLXJ810	6363282
B1LJR5	J6L210110-2			JLXJ81AC	9JLXJ810	6363285
B1LJR6	J6L210110-3			JLXKC1AA	9JLXKC10	6363282
B1LJR6	J6L210110-3			JLXKC1AC	9JLXKC10	6363285
W07-012		B1LHX7	J6L210114-1	JLXKL1AA	9JLXKL10	6363287
		B1LHX7	J6L210114-1	JLXKL1AC	9JLXKL10	6363281
		B1LHX7	J6L210114-1	JLXKL1AD	9JLXKL10	6363285
		B1LHX7	J6L210114-1	JLXKL1AE	9JLXKL10	6363283
		B1LHX7	J6L210114-1	JLXKL2AA	9JLXKL20	7024475
S07-012		B1LC14	J6L210119-1	JLXLJ1AA	9JLXLJ10	6363281
		B1LC15	J6L210119-2	JLXLL1AA	9JLXLL10	6363281
		B1LBX4	J6L210119-3	JLXLP1AA	9JLXLP10	6363280
		B1LBX4	J6L210119-3	JLXLP1AC	9JLXLP10	6363282
		B1LC36	J6L210119-4	JLXLX1AA	9JLXLX10	6363282

Comments:

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Certificate of Analysis

Pacific Northwest National Laboratories
Sigma V Building
Richland, WA 99352

January 31, 2007

Attention: Dot Stewart

SAF Number	:	S07-012, W07-011, W07-010, S07-010, I07-015, W07-012, G07-012, A07-012,
Date SDG Closed	:	December 19, 2006
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05079
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between December 14, 2006 and December 19, 2006, twenty water samples were received at STL Richland (STLR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Pacific Northwest National Laboratories (PGW) specific IDs:

<u>PGW ID#</u>	<u>STLR ID#</u>	<u>DATE OF RECEIPT</u>	<u>MATRIX</u>
B1LC94	JLPFT	12/14/06	WATER
B1LC99	JLPFQ	12/14/06	WATER
B1L5T9	JLPJR	12/14/06	WATER
B1KRT2	JLPJ0	12/14/06	WATER
B1KR22	JLPJ5	12/14/06	WATER
B1LK72	JLP3X	12/15/06	WATER
B1LJC6	JLP37	12/15/06	WATER
B1LHC3	JLP4V	12/18/06	WATER
B1LH89	JLP4T	12/18/06	WATER
B1LHJ7	JLP4L	12/18/06	WATER
B1LJX5	JLV66	12/18/06	WATER
B1LJW5	JLV7X	12/18/06	WATER

B1LJR6	JLXKC	12/19/06	WATER
B1LJR5	JLXJ8	12/19/06	WATER
B1LJR7	JLXJ6	12/19/06	WATER
B1LHX7	JLXKL	12/19/06	WATER
B1LC36	JLXLX	12/19/06	WATER
B1LBX4	JLXLP	12/19/06	WATER
B1LC15	JLXLL	12/19/06	WATER
B1LC14	JLXLJ	12/19/06	WATER

II. Sample Receipt

Sample B1LJR6 has a sample date of 12/9/06 on COC A07-012-5. Client was contacted on 12/27/06 via email. Sample was logged with a sample date of 12/19/06 per client instructions. The remaining samples in the SDG were received in good condition and no anomalies were noted during check-in.

III. Analytical Results/Methodology

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

The requested analyses were:

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014
Gross Beta by method RICH-RC-5014
Strontium-90 by method RICH-RC-5006

Gamma Spectroscopy

Gamma Spec (LL) by method RICH-RC-5017
Iodine-129 (LL) by method RICH-RC-5025

Liquid Scintillation Counting

Technetium-99 by TEVA method RICH-RC-5065
Tritium by method RICH-RC-5007

Laser Induced Phosphorimetry

Total Uranium by method RICH-RC-5058

Chemical Analysis

Total Coliform by method 9223

IV. Quality Control

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

QC and sample results are reported in the same units.

V. Comments

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:

Sample B1L5T9 did not meet the MDA due to reduced aliquot size. It was counted for 200 minutes. Data is accepted. Except as noted, the LCS, batch blank, samples and sample duplicate (B1LJW5) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:

The original batch had a high blank. It was reanalyzed. Samples B1LHJ7, B1LJW5 and B1LJX5 were analyzed with smaller aliquots due to the original results. Sample B1L5T9 and its duplicate were reduced due to high weight screens. These samples did not meet MDA but the results exceed MDA achieved. Except as noted, the LCS, batch blank, samples and sample duplicate (B1L5T9) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006

The LCS, batch blank, samples and sample duplicate (B1LHJ7) results are within contractual requirements.

Gamma Spectroscopy

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

The LCS, batch blank, samples and sample duplicate (B1LC15) results are within contractual requirements.

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

The LCS, batch blank, samples and sample duplicate (B1LK72) results are within contractual requirements.

Liquid Scintillation Counting

Technetium-99 by method RICH-RC-5078:

The LCS, batch blank, samples, sample duplicate (B1LJC6), and sample matrix spike (B1LJR5) results are within contractual requirements.

Tritium by method RICH-RC-5007:

The LCS, batch blank, samples and sample duplicate (B1KR22) results are within contractual requirements.

Total Uranium

Total Uranium by method RICH-RC-5058:

The LCS results did not transfer from the database even though the hard copy of the results was there. The sample was recounted to provide results to the client. The results are congruent with the previous results. Data is accepted. Except as noted, the LCS, batch blank, samples, sample duplicate (B1LC99), and sample matrix spike (B1LC94) results are within contractual requirements.

Chemical Analysis

Total Coliform by method 9223

Pacific Northwest National Laboratories
January 31, 2007

The LCS, batch blank, samples and sample duplicate (BILH89) 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, $R = \text{constants} * f(x,y,z,\dots)$. 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/\sqrt{n}), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

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

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or STL Richland.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
Total Uncert (#s) <i>u_c-Combined Uncertainty.</i>	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, <i>u_c the combined uncertainty</i> . 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%. $Lc = (1.645 * \text{Sqrt}(2 * (\text{BkgndCnt} / \text{BkgndCntMin}) / \text{SCntMin})) * (\text{ConvFct} / (\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol})) * \text{IngrFct}$. 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%. $MDC = (4.65 * \text{Sqrt}((\text{BkgndCnt} / \text{BkgndCntMin}) / \text{SCntMin}) + 2.71 / \text{SCntMin}) * (\text{ConvFct} / (\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol})) * \text{IngrFct}$. 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 = $(S-D) / [\text{sqrt}(\text{TPUs}^2 + \text{TPUD}^2)]$ 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.

1/31/2007 8:50:21 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34378 File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.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:				
9JLP3710	B1LJC6		MW6-SBB-A1	I07-012	W05079					12/15/2006 11:47				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6363285	TC-99	14133-76-7	1.68E+01	pCi/L	4.6E+00	6.8E+00		9.73E+00	100.0	TC99_ETVDSK_LS	1.251E-01	L	01/16/2007 15:01	I
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JLP3X10	B1LK72		MW6-SBB-A1	I07-015	W05079					12/15/2006 10:28				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6363282	I-129L	15046-84-1	5.00E-01	pCi/L	1.5E-01	1.5E-01	U	3.54E-01	97.3	I129LL_SEP_LEPS	3.8601E+00	L	01/26/2007 13:54	I
6363284	SR-90	10098-97-2	2.20E-01	pCi/L	2.4E-01	2.4E-01	U	4.89E-01	75.6	SRISO_SEP_PRE	1.0003E+00	L	01/21/2007 08:35	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:				
9JLP4L10	B1LHJ7		MW6-SBB-A1	W07-012	W05079					12/18/2006 12:25				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6363280	H-3	10028-17-8	5.36E+03	pCi/L	2.6E+02	3.6E+02		3.00E+02	100.0	906.0_H3_LSC	5.00E-03	L	01/11/2007 22:01	I
6363286	ALPHA	12587-46-1	1.09E+00	pCi/L	9.5E-01	9.8E-01	U	1.58E+00	100.0	9310_ALPHABETA	1.59E-01	L	01/22/2007 17:35	I
6363287	BETA	12587-47-2	1.94E+03	pCi/L	2.1E+01	2.7E+02		2.91E+00	100.0	9310_ALPHABETA	2.016E-01	L	01/22/2007 12:44	I
6363281	BE-7	13966-02-4	1.23E+00	pCi/L	2.2E+01	2.2E+01	U	4.06E+01		GAMMALL_GS	2.0009E+00	L	01/19/2007 11:39	I
6363281	CO-60	10198-40-0	1.04E-01	pCi/L	2.4E+00	2.4E+00	U	4.86E+00		GAMMALL_GS	2.0009E+00	L	01/19/2007 11:39	I
6363281	CS-134	13967-70-9	1.61E+00	pCi/L	2.6E+00	2.6E+00	U	5.31E+00		GAMMALL_GS	2.0009E+00	L	01/19/2007 11:39	I
6363281	CS-137	10045-97-3	-3.29E-01	pCi/L	2.5E+00	2.5E+00	U	4.61E+00		GAMMALL_GS	2.0009E+00	L	01/19/2007 11:39	I
6363281	EU-152	14683-23-9	2.58E+00	pCi/L	5.1E+00	5.1E+00	U	9.88E+00		GAMMALL_GS	2.0009E+00	L	01/19/2007 11:39	I
6363281	EU-154	15585-10-1	-1.84E+00	pCi/L	7.5E+00	7.5E+00	U	1.37E+01		GAMMALL_GS	2.0009E+00	L	01/19/2007 11:39	I
6363281	EU-155	14391-16-3	-3.59E+00	pCi/L	5.2E+00	5.2E+00	U	8.84E+00		GAMMALL_GS	2.0009E+00	L	01/19/2007 11:39	I
6363281	K-40	13966-00-2	1.26E+01	pCi/L	5.4E+01	5.4E+01	U	4.94E+01		GAMMALL_GS	2.0009E+00	L	01/19/2007 11:39	I
6363281	RU-106	13967-48-1	6.10E+00	pCi/L	2.1E+01	2.1E+01	U	3.93E+01		GAMMALL_GS	2.0009E+00	L	01/19/2007 11:39	I
6363281	SB-125	14234-35-6	1.48E+00	pCi/L	5.5E+00	5.5E+00	U	1.02E+01		GAMMALL_GS	2.0009E+00	L	01/19/2007 11:39	I
6363284	SR-90	10098-97-2	1.17E-01	pCi/L	2.3E-01	2.3E-01	U	4.86E-01	83.1	SRISO_SEP_PRE	1.008E+00	L	01/21/2007 08:35	I
6363285	TC-99	14133-76-7	7.93E+03	pCi/L	4.7E+01	5.4E+02		9.34E+00	100.0	TC99_ETVDSK_LS	1.301E-01	L	01/16/2007 15:01	I
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JLP4L20	B1LHJ7		MW6-SBB-A1	W07-012	W05079					12/18/2006 12:25				

1/31/2007 8:50:22 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34378 File Name: h:\Reportdb\edd\Fead\Rad\W05079.Edd, h:\Reportdb\edd\Fead\Rad\34378.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7024475	BETA	12587-47-2	2.63E+03	pCi/L	5.1E+01	3.3E+02		1.84E+01	100.0	9310_ALPHABETA	2.02E-02	L	01/26/2007 14:38	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:
9JLP4T10	B1LH89		MW6-SBB-A1	W07-012	W05079					12/18/2006 13:04

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6363280	H-3	10028-17-8	3.29E+03	pCi/L	2.2E+02	2.7E+02		2.98E+02	100.0	906.0_H3_LSC	5.00E-03	L	01/11/2007 23:23	I
6363286	ALPHA	12587-46-1	1.50E+00	pCi/L	1.1E+00	1.1E+00		1.25E+00	100.0	9310_ALPHABETA	1.994E-01	L	01/22/2007 16:05	I
6363287	BETA	12587-47-2	3.22E+01	pCi/L	3.0E+00	5.9E+00		2.99E+00	100.0	9310_ALPHABETA	1.989E-01	L	01/22/2007 12:44	I
6363281	BE-7	13966-02-4	-4.75E-01	pCi/L	2.5E+01	2.5E+01	U	4.55E+01		GAMMALL_GS	2.0002E+00	L	01/19/2007 11:39	I
6363281	CO-60	10198-40-0	1.96E-01	pCi/L	2.5E+00	2.5E+00	U	4.94E+00		GAMMALL_GS	2.0002E+00	L	01/19/2007 11:39	I
6363281	CS-134	13967-70-9	-2.73E-01	pCi/L	2.8E+00	2.8E+00	U	5.12E+00		GAMMALL_GS	2.0002E+00	L	01/19/2007 11:39	I
6363281	CS-137	10045-97-3	-8.97E-01	pCi/L	2.2E+00	2.2E+00	U	3.97E+00		GAMMALL_GS	2.0002E+00	L	01/19/2007 11:39	I
6363281	EU-152	14683-23-9	-1.70E+00	pCi/L	5.6E+00	5.6E+00	U	9.90E+00		GAMMALL_GS	2.0002E+00	L	01/19/2007 11:39	I
6363281	EU-154	15585-10-1	2.26E+00	pCi/L	6.3E+00	6.3E+00	U	1.33E+01		GAMMALL_GS	2.0002E+00	L	01/19/2007 11:39	I
6363281	EU-155	14391-16-3	-2.18E+00	pCi/L	3.9E+00	3.9E+00	U	6.43E+00		GAMMALL_GS	2.0002E+00	L	01/19/2007 11:39	I
6363281	K-40	13966-00-2	-1.80E+01	pCi/L	4.6E+01	4.6E+01	U	1.02E+02		GAMMALL_GS	2.0002E+00	L	01/19/2007 11:39	I
6363281	RU-106	13967-48-1	-4.11E+00	pCi/L	2.1E+01	2.1E+01	U	3.87E+01		GAMMALL_GS	2.0002E+00	L	01/19/2007 11:39	I
6363281	SB-125	14234-35-6	-3.34E+00	pCi/L	5.6E+00	5.6E+00	U	9.45E+00		GAMMALL_GS	2.0002E+00	L	01/19/2007 11:39	I
6363284	SR-90	10098-97-2	4.37E-02	pCi/L	2.1E-01	2.1E-01	U	4.52E-01	86.1	SRISO_SEP_PRE	1.0018E+00	L	01/21/2007 08:35	I
6363285	TC-99	14133-76-7	9.01E+01	pCi/L	6.5E+00	1.2E+01		9.65E+00	100.0	TC99_ETVDSK_LS	1.259E-01	L	01/16/2007 15:01	I
6363283	Uranium	7440-61-1	2.42E+00	ug/L	2.5E-01	2.5E-01		7.73E-02		UTOT_KPA	2.71E-02	ML	01/25/2007 11:22	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JLP4T20	B1LH89		MW6-SBB-A1	W07-012	W05079					12/18/2006 13:04

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7024475	BETA	12587-47-2	2.89E+01	pCi/L	2.8E+00	4.7E+00		2.81E+00	100.0	9310_ALPHABETA	2.003E-01	L	01/26/2007 13:47	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:
9JLP4V10	B1LHC3		MW6-SBB-A1	W07-012	W05079					12/18/2006 11:44

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6363280	H-3	10028-17-8	7.57E+03	pCi/L	3.0E+02	4.4E+02		2.98E+02	100.0	906.0_H3_LSC	5.00E-03	L	01/12/2007 00:45	I
6363286	ALPHA	12587-46-1	2.14E+00	pCi/L	1.5E+00	1.6E+00		2.10E+00	100.0	9310_ALPHABETA	1.851E-01	L	01/22/2007 16:05	I
6363287	BETA	12587-47-2	1.22E+01	pCi/L	2.2E+00	2.8E+00		3.00E+00	100.0	9310_ALPHABETA	1.991E-01	L	01/22/2007 12:44	I

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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.

1/31/2007 8:50:22 AM

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Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34378 File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

6363281	BE-7	13966-02-4	-5.03E+00	pCi/L	2.1E+01	2.1E+01	U	3.85E+01	GAMMALL_GS	2.0034E+00	L	01/19/2007 11:40	I
6363281	CO-60	10198-40-0	1.06E+00	pCi/L	2.2E+00	2.2E+00	U	4.82E+00	GAMMALL_GS	2.0034E+00	L	01/19/2007 11:40	I
6363281	CS-134	13967-70-9	1.19E+00	pCi/L	2.5E+00	2.5E+00	U	4.93E+00	GAMMALL_GS	2.0034E+00	L	01/19/2007 11:40	I
6363281	CS-137	10045-97-3	-4.54E-01	pCi/L	2.5E+00	2.5E+00	U	4.46E+00	GAMMALL_GS	2.0034E+00	L	01/19/2007 11:40	I
6363281	EU-152	14683-23-9	-2.99E-01	pCi/L	5.2E+00	5.2E+00	U	9.23E+00	GAMMALL_GS	2.0034E+00	L	01/19/2007 11:40	I
6363281	EU-154	15585-10-1	6.80E-01	pCi/L	5.4E+00	5.4E+00	U	1.12E+01	GAMMALL_GS	2.0034E+00	L	01/19/2007 11:40	I
6363281	EU-155	14391-16-3	5.21E-01	pCi/L	3.6E+00	3.6E+00	U	6.43E+00	GAMMALL_GS	2.0034E+00	L	01/19/2007 11:40	I
6363281	K-40	13966-00-2	-1.19E+01	pCi/L	4.8E+01	4.8E+01	U	1.07E+02	GAMMALL_GS	2.0034E+00	L	01/19/2007 11:40	I
6363281	RU-106	13967-48-1	-1.05E+01	pCi/L	2.2E+01	2.2E+01	U	3.74E+01	GAMMALL_GS	2.0034E+00	L	01/19/2007 11:40	I
6363281	SB-125	14234-35-6	-1.26E-01	pCi/L	5.2E+00	5.2E+00	U	9.45E+00	GAMMALL_GS	2.0034E+00	L	01/19/2007 11:40	I
6363284	SR-90	10098-97-2	4.62E-01	pCi/L	2.9E-01	2.9E-01	U	5.51E-01	77.6 SRISO_SEP_PRE	1.0021E+00	L	01/21/2007 08:36	I
6363285	TC-99	14133-76-7	3.21E+01	pCi/L	5.1E+00	7.8E+00		9.78E+00	100.0 TC99_ETVDSK_LS	1.251E-01	L	01/16/2007 15:01	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JLP4V20	B1LHC3		MW6-SBB-A1	W07-012	W05079					12/18/2006 11:44				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7024475	BETA	12587-47-2	1.44E+01	pCi/L	2.1E+00	2.8E+00		2.70E+00	100.0	9310_ALPHABETA	2.012E-01	L	01/26/2007 13:47	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:				
9JLPFQ10	B1LC99		MW6-SBB-A1	S07-012	W05079					12/14/2006 11:47				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6363283	Uranium	7440-61-1	4.09E-02	ug/L	5.1E-03	5.1E-03	U	7.94E-02		UTOT_KPA	2.64E-02	ML	01/25/2007 11:05	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:				
9JLPFT10	B1LC94		MW6-SBB-A1	S07-012	W05079					12/14/2006 10:37				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6363283	Uranium	7440-61-1	5.82E+00	ug/L	6.0E-01	6.0E-01		8.38E-02		UTOT_KPA	2.50E-02	ML	01/25/2007 11:18	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:				
9JLPJ010	B1KRT2		MW6-SBB-A1	W07-010	W05079					12/14/2006 10:53				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6363286	ALPHA	12587-46-1	2.40E+00	pCi/L	1.5E+00	1.6E+00		1.96E+00	100.0	9310_ALPHABETA	2.001E-01	L	01/22/2007 16:05	I
6363287	BETA	12587-47-2	9.00E+00	pCi/L	1.8E+00	2.6E+00		2.62E+00	100.0	9310_ALPHABETA	2.006E-01	L	01/22/2007 12:44	I

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FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34378 File Name: h:\Reportdb\ledd\FeadIV\Rad\W05079.Edd, h:\Reportdb\ledd\FeadIV\Rad\34378.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:				
9JLPJ020	B1KRT2		MW6-SBB-A1	W07-010	W05079					12/14/2006 10:53				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7024475	BETA	12587-47-2	1.04E+01	pCi/L	1.9E+00	2.3E+00		2.67E+00	100.0	9310_ALPHABETA	2.00E-01	L	01/26/2007 13:47	I
9JLPJ510	B1KR22		MW6-SBB-A1	S07-010	W05079					12/14/2006 10:53				
6363280	H-3	10028-17-8	7.76E+02	pCi/L	1.5E+02	1.7E+02		3.00E+02	100.0	906.0_H3_LSC	5.00E-03	L	01/11/2007 19:18	I
6363282	I-129L	15046-84-1	2.05E+00	pCi/L	4.1E-01	4.1E-01	U	6.34E-01	107.0	I129LL_SEP_LEPS	3.9751E+00	L	01/26/2007 13:52	I
9JLPJR10	B1L5T9		MW6-SBB-A1	W07-011	W05079					12/14/2006 12:51				
6363280	H-3	10028-17-8	2.23E+03	pCi/L	1.9E+02	2.3E+02		2.99E+02	100.0	906.0_H3_LSC	5.00E-03	L	01/11/2007 17:56	I
6363286	ALPHA	12587-46-1	1.96E+00	pCi/L	2.7E+00	2.8E+00	U	5.23E+00	100.0	9310_ALPHABETA	3.35E-02	L	01/22/2007 13:37	I
6363287	BETA	12587-47-2	4.30E+01	pCi/L	9.5E+00	1.1E+01		1.53E+01	100.0	9310_ALPHABETA	2.81E-02	L	01/22/2007 13:34	I
6363285	TC-99	14133-76-7	7.53E+01	pCi/L	6.2E+00	1.1E+01		9.71E+00	100.0	TC99_ETVDSK_LS	1.251E-01	L	01/16/2007 15:01	I
9JLPJR20	B1L5T9		MW6-SBB-A1	W07-011	W05079					12/14/2006 12:51				
7024475	BETA	12587-47-2	3.79E+01	pCi/L	9.9E+00	1.2E+01		1.63E+01	100.0	9310_ALPHABETA	2.54E-02	L	01/26/2007 14:38	I
9JLV6610	B1LJX5		MW6-SBB-A1	G07-012	W05079					12/18/2006 10:21				
6363280	H-3	10028-17-8	1.81E+04	pCi/L	4.5E+02	8.3E+02		2.98E+02	100.0	906.0_H3_LSC	5.00E-03	L	01/12/2007 02:07	I
6363286	ALPHA	12587-46-1	6.71E-01	pCi/L	6.7E-01	6.9E-01	U	1.07E+00	100.0	9310_ALPHABETA	1.134E-01	L	01/22/2007 17:35	I
6363287	BETA	12587-47-2	4.26E+03	pCi/L	4.0E+01	5.4E+02		6.44E+00	100.0	9310_ALPHABETA	5.69E-02	L	01/22/2007 13:34	I
6363281	BE-7	13966-02-4	-4.05E+00	pCi/L	2.5E+01	2.5E+01	U	4.50E+01		GAMMALL_GS	2.0019E+00	L	01/19/2007 11:41	I
6363281	CO-60	10198-40-0	-3.28E-01	pCi/L	2.5E+00	2.5E+00	U	4.75E+00		GAMMALL_GS	2.0019E+00	L	01/19/2007 11:41	I
6363281	CS-134	13967-70-9	3.47E-01	pCi/L	2.1E+00	2.1E+00	U	4.10E+00		GAMMALL_GS	2.0019E+00	L	01/19/2007 11:41	I

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FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34378 File Name: h:\Reportdb\ledd\Fead\Rad\W05079.Edd, h:\Reportdb\ledd\Fead\Rad\34378.Edd

6363281	CS-137	10045-97-3	-8.19E-03	pCi/L	2.0E+00	2.0E+00	U	3.77E+00	GAMMALL_GS	2.0019E+00	L	01/19/2007	11:41	I
6363281	EU-152	14683-23-9	-4.58E-01	pCi/L	5.6E+00	5.6E+00	U	1.02E+01	GAMMALL_GS	2.0019E+00	L	01/19/2007	11:41	I
6363281	EU-154	15585-10-1	3.25E+00	pCi/L	6.1E+00	6.1E+00	U	1.35E+01	GAMMALL_GS	2.0019E+00	L	01/19/2007	11:41	I
6363281	EU-155	14391-16-3	2.84E+00	pCi/L	6.3E+00	6.3E+00	U	1.13E+01	GAMMALL_GS	2.0019E+00	L	01/19/2007	11:41	I
6363281	K-40	13966-00-2	-2.64E+00	pCi/L	4.1E+01	4.1E+01	U	8.97E+01	GAMMALL_GS	2.0019E+00	L	01/19/2007	11:41	I
6363281	RU-106	13967-48-1	9.66E+00	pCi/L	2.2E+01	2.2E+01	U	4.29E+01	GAMMALL_GS	2.0019E+00	L	01/19/2007	11:41	I
6363281	SB-125	14234-35-6	5.33E+00	pCi/L	5.1E+00	5.1E+00	U	1.06E+01	GAMMALL_GS	2.0019E+00	L	01/19/2007	11:41	I
6363284	SR-90	10098-97-2	2.16E+03	pCi/L	1.4E+01	3.2E+02		8.39E-01 84.4	SRISO_SEP_PRE	1.0042E+00	L	01/21/2007	09:56	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JLV6620	B1LJX5		MW6-SBB-A1	G07-012	W05079					12/18/2006 10:21				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7024475	BETA	12587-47-2	4.12E+03	pCi/L	8.7E+01	7.9E+02		3.22E+01	100.0	9310_ALPHABETA	1.03E-02	L	01/26/2007 14:38	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:				
9JLV7X10	B1LJW5		MW6-SBB-A1	G07-012	W05079					12/18/2006 11:17				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6363280	H-3	10028-17-8	1.48E+04	pCi/L	4.1E+02	7.1E+02		2.98E+02	100.0	906.0_H3_LSC	5.00E-03	L	01/12/2007 03:28	I
6363286	ALPHA	12587-46-1	4.47E-01	pCi/L	7.3E-01	7.4E-01	U	1.50E+00	100.0	9310_ALPHABETA	1.996E-01	L	01/22/2007 16:05	I
6363287	BETA	12587-47-2	1.19E+03	pCi/L	1.6E+01	2.2E+02		2.88E+00	100.0	9310_ALPHABETA	1.997E-01	L	01/22/2007 12:44	I
6363281	BE-7	13966-02-4	1.72E+01	pCi/L	2.1E+01	2.1E+01	U	4.27E+01		GAMMALL_GS	1.9989E+00	L	01/19/2007 11:42	I
6363281	CO-60	10198-40-0	-9.41E-01	pCi/L	2.3E+00	2.3E+00	U	4.14E+00		GAMMALL_GS	1.9989E+00	L	01/19/2007 11:42	I
6363281	CS-134	13967-70-9	3.15E-01	pCi/L	2.2E+00	2.2E+00	U	4.29E+00		GAMMALL_GS	1.9989E+00	L	01/19/2007 11:42	I
6363281	CS-137	10045-97-3	-1.66E+00	pCi/L	1.8E+00	1.8E+00	U	2.76E+00		GAMMALL_GS	1.9989E+00	L	01/19/2007 11:42	I
6363281	EU-152	14683-23-9	-2.15E+00	pCi/L	5.1E+00	5.1E+00	U	8.73E+00		GAMMALL_GS	1.9989E+00	L	01/19/2007 11:42	I
6363281	EU-154	15585-10-1	-4.79E+00	pCi/L	6.1E+00	6.1E+00	U	9.68E+00		GAMMALL_GS	1.9989E+00	L	01/19/2007 11:42	I
6363281	EU-155	14391-16-3	-3.16E+00	pCi/L	4.3E+00	4.3E+00	U	7.08E+00		GAMMALL_GS	1.9989E+00	L	01/19/2007 11:42	I
6363281	K-40	13966-00-2	-1.82E+01	pCi/L	2.2E+01	2.2E+01	U	4.80E+01		GAMMALL_GS	1.9989E+00	L	01/19/2007 11:42	I
6363281	RU-106	13967-48-1	-8.78E+00	pCi/L	2.0E+01	2.0E+01	U	3.48E+01		GAMMALL_GS	1.9989E+00	L	01/19/2007 11:42	I
6363281	SB-125	14234-35-6	2.96E+00	pCi/L	5.3E+00	5.3E+00	U	1.01E+01		GAMMALL_GS	1.9989E+00	L	01/19/2007 11:42	I
6363284	SR-90	10098-97-2	6.47E+02	pCi/L	4.8E+00	9.5E+01		5.43E-01 75.9		SRISO_SEP_PRE	9.986E-01	L	01/21/2007 08:36	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
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1/31/2007 8:50:22 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34378 File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9JLV7X20	B1LJW5												12/18/2006 11:17	
7024475	BETA	12587-47-2	1.09E+03	pCi/L	3.0E+01	2.1E+02		1.43E+01	100.0	9310_ALPHABETA	2.31E-02	L	01/26/2007 14:38	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:				
9JLXJ610	B1LJR7		MW6-SBB-A1	A07-012	W05079								12/19/2006 11:11	
6363285	TC-99	14133-76-7	4.87E+01	pCi/L	5.5E+00	8.9E+00		9.81E+00	100.0	TC99_ETVDSK_LS	1.255E-01	L	01/16/2007 15:01	I
6363283	Uranium	7440-61-1	1.83E+01	ug/L	2.2E+00	2.2E+00		8.35E-02		UTOT_KPA	2.51E-02	ML	01/25/2007 11:24	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:				
9JLXJ810	B1LJR5		MW6-SBB-A1	A07-012	W05079								12/19/2006 12:24	
6363282	I-129L	15046-84-1	3.37E+00	pCi/L	5.9E-01	5.9E-01		2.58E-01	99.7	I129LL_SEP_LEPS	3.8555E+00	L	01/26/2007 16:00	I
6363285	TC-99	14133-76-7	1.50E+03	pCi/L	2.1E+01	1.1E+02		9.69E+00	100.0	TC99_ETVDSK_LS	1.259E-01	L	01/16/2007 15:01	I
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JLXKC10	B1LJR6		MW6-SBB-A1	A07-012	W05079								12/19/2006 12:24	
6363282	I-129L	15046-84-1	3.50E+00	pCi/L	6.2E-01	6.2E-01		2.86E-01	103.8	I129LL_SEP_LEPS	3.843E+00	L	01/26/2007 17:53	I
6363285	TC-99	14133-76-7	1.42E+03	pCi/L	2.1E+01	1.0E+02		9.59E+00	100.0	TC99_ETVDSK_LS	1.267E-01	L	01/16/2007 15:01	I
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JLXKL10	B1LHX7		MW6-SBB-A1	W07-012	W05079								12/19/2006 09:58	
6363287	BETA	12587-47-2	2.13E+01	pCi/L	2.5E+00	3.9E+00		2.72E+00	100.0	9310_ALPHABETA	2.02E-01	L	01/22/2007 12:44	I
6363281	BE-7	13966-02-4	7.59E+00	pCi/L	2.0E+01	2.0E+01	U	3.93E+01		GAMMALL_GS	2.0009E+00	L	01/19/2007 13:27	I
6363281	CO-60	10198-40-0	-1.25E+00	pCi/L	1.6E+00	1.6E+00	U	2.45E+00		GAMMALL_GS	2.0009E+00	L	01/19/2007 13:27	I
6363281	CS-134	13967-70-9	-5.91E-01	pCi/L	2.4E+00	2.4E+00	U	4.34E+00		GAMMALL_GS	2.0009E+00	L	01/19/2007 13:27	I
6363281	CS-137	10045-97-3	7.74E-01	pCi/L	2.1E+00	2.1E+00	U	4.12E+00		GAMMALL_GS	2.0009E+00	L	01/19/2007 13:27	I
6363281	EU-152	14683-23-9	-4.45E+00	pCi/L	5.1E+00	5.1E+00	U	8.37E+00		GAMMALL_GS	2.0009E+00	L	01/19/2007 13:27	I
6363281	EU-154	15585-10-1	-6.36E+00	pCi/L	7.3E+00	7.3E+00	U	1.13E+01		GAMMALL_GS	2.0009E+00	L	01/19/2007 13:27	I
6363281	EU-155	14391-16-3	4.61E-01	pCi/L	4.8E+00	4.8E+00	U	8.92E+00		GAMMALL_GS	2.0009E+00	L	01/19/2007 13:27	I
6363281	K-40	13966-00-2	-2.56E+01	pCi/L	5.5E+01	5.5E+01	U	1.21E+02		GAMMALL_GS	2.0009E+00	L	01/19/2007 13:27	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.

STL Richland Report

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34378 File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

6363281	RU-106	13967-48-1	4.84E+00	pCi/L	2.0E+01	2.0E+01	U	3.78E+01	GAMMALL_GS	2.0009E+00	L	01/19/2007	13:27	I	
6363281	SB-125	14234-35-6	3.06E+00	pCi/L	5.7E+00	5.7E+00	U	1.09E+01	GAMMALL_GS	2.0009E+00	L	01/19/2007	13:27	I	
6363285	TC-99	14133-76-7	3.44E+01	pCi/L	5.1E+00	7.9E+00		9.69E+00	100.0	TC99_ETVDSK_LS	1.266E-01	L	01/16/2007	15:01	I
6363283	Uranium	7440-61-1	3.36E+00	ug/L	3.4E-01	3.4E-01		8.38E-02		UTOT_KPA	2.50E-02	ML	01/25/2007	11:26	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JLXKL20	B1LHX7		MW6-SBB-A1	W07-012	W05079					12/19/2006 09:58				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7024475	BETA	12587-47-2	1.72E+01	pCi/L	2.2E+00	3.2E+00		2.64E+00	100.0	9310_ALPHABETA	2.037E-01	L	01/26/2007 13:47	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:				
9JLXLJ10	B1LC14		MW6-SBB-A1	S07-012	W05079					12/19/2006 12:24				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6363281	BE-7	13966-02-4	-2.69E+00	pCi/L	2.6E+01	2.6E+01	U	4.62E+01		GAMMALL_GS	1.9995E+00	L	01/19/2007 13:28	I
6363281	CO-60	10198-40-0	1.99E+00	pCi/L	2.8E+00	2.8E+00	U	5.97E+00		GAMMALL_GS	1.9995E+00	L	01/19/2007 13:28	I
6363281	CS-134	13967-70-9	-1.61E+00	pCi/L	2.6E+00	2.6E+00	U	4.34E+00		GAMMALL_GS	1.9995E+00	L	01/19/2007 13:28	I
6363281	CS-137	10045-97-3	9.38E-01	pCi/L	2.2E+00	2.2E+00	U	4.38E+00		GAMMALL_GS	1.9995E+00	L	01/19/2007 13:28	I
6363281	EU-152	14683-23-9	-3.25E+00	pCi/L	5.3E+00	5.3E+00	U	9.00E+00		GAMMALL_GS	1.9995E+00	L	01/19/2007 13:28	I
6363281	EU-154	15585-10-1	9.68E-01	pCi/L	6.8E+00	6.8E+00	U	1.36E+01		GAMMALL_GS	1.9995E+00	L	01/19/2007 13:28	I
6363281	EU-155	14391-16-3	-1.34E+00	pCi/L	4.4E+00	4.4E+00	U	7.43E+00		GAMMALL_GS	1.9995E+00	L	01/19/2007 13:28	I
6363281	K-40	13966-00-2	-3.29E+01	pCi/L	4.5E+01	4.5E+01	U	9.80E+01		GAMMALL_GS	1.9995E+00	L	01/19/2007 13:28	I
6363281	RU-106	13967-48-1	4.99E+00	pCi/L	2.0E+01	2.0E+01	U	3.94E+01		GAMMALL_GS	1.9995E+00	L	01/19/2007 13:28	I
6363281	SB-125	14234-35-6	2.19E-01	pCi/L	5.6E+00	5.6E+00	U	1.02E+01		GAMMALL_GS	1.9995E+00	L	01/19/2007 13:28	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:				
9JLXL10	B1LC15		MW6-SBB-A1	S07-012	W05079					12/19/2006 12:24				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6363281	BE-7	13966-02-4	-9.24E+00	pCi/L	2.6E+01	2.6E+01	U	4.59E+01		GAMMALL_GS	1.9638E+00	L	01/19/2007 13:29	I
6363281	CO-60	10198-40-0	-4.42E-02	pCi/L	2.7E+00	2.7E+00	U	5.15E+00		GAMMALL_GS	1.9638E+00	L	01/19/2007 13:29	I
6363281	CS-134	13967-70-9	2.78E+00	pCi/L	2.4E+00	2.4E+00	U	5.27E+00		GAMMALL_GS	1.9638E+00	L	01/19/2007 13:29	I
6363281	CS-137	10045-97-3	-2.39E+00	pCi/L	2.7E+00	2.7E+00	U	4.32E+00		GAMMALL_GS	1.9638E+00	L	01/19/2007 13:29	I
6363281	EU-152	14683-23-9	-1.50E+00	pCi/L	6.1E+00	6.1E+00	U	1.04E+01		GAMMALL_GS	1.9638E+00	L	01/19/2007 13:29	I
6363281	EU-154	15585-10-1	9.85E+00	pCi/L	8.4E+00	8.4E+00	U	1.83E+01		GAMMALL_GS	1.9638E+00	L	01/19/2007 13:29	I

1/31/2007 8:50:22 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34378 File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

6363281	EU-155	14391-16-3	6.22E+00	pCi/L	3.8E+00	3.8E+00	U	7.77E+00	GAMMALL_GS	1.9638E+00	L	01/19/2007 13:29	I
6363281	K-40	13966-00-2	-5.53E+01	pCi/L	5.0E+01	5.0E+01	U	1.02E+02	GAMMALL_GS	1.9638E+00	L	01/19/2007 13:29	I
6363281	RU-106	13967-48-1	-4.52E+00	pCi/L	2.1E+01	2.1E+01	U	3.73E+01	GAMMALL_GS	1.9638E+00	L	01/19/2007 13:29	I
6363281	SB-125	14234-35-6	1.08E+00	pCi/L	6.0E+00	6.0E+00	U	1.09E+01	GAMMALL_GS	1.9638E+00	L	01/19/2007 13:29	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JLXLP10	B1LBX4		MW6-SBB-A1	S07-012	W05079					12/19/2006 11:11				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6363280	H-3	10028-17-8	4.05E+03	pCi/L	2.4E+02	3.0E+02		2.99E+02	100.0	906.0_H3_LSC	5.00E-03	L	01/12/2007 08:55	I
6363282	I-129L	15046-84-1	5.29E-01	pCi/L	1.8E-01	1.8E-01	U	3.58E-01	99.2	I129LL_SEP_LEPS	3.8511E+00	L	01/26/2007 17:54	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:				
9JLXLX10	B1LC36		MW6-SBB-A1	S07-012	W05079					12/19/2006 09:58				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6363282	I-129L	15046-84-1	5.01E+00	pCi/L	7.2E-01	7.2E-01		3.04E-01	98.1	I129LL_SEP_LEPS	3.9149E+00	L	01/26/2007 19:56	I

Wednesday, January 31, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Lab Sample Id: JL9TL1AB

Sdg/Rept Nbr: W05079 34378

Collection Date: 12/14/2006 10:53

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 12/14/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BC	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qual	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6363280 BLK	H-3 10028-17-8	-1.26E+02	pCi/L	1.3E+02 1.2E+02	U	2.99E+02	100.0		906.0_H3_LSC	5.00E-03 L	01/11/2007 15:13				D

Wednesday, January 31, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\Rad\W05079.Edd, h:\Reportdb\edd\Fead\Rad\34378.Edd

Lab Sample Id: JL9TL1DX

Sdg/Rept Nbr: W05079 34378

Collection Date: 12/14/2006 10:53

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 12/14/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BE	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/ L	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6363280 BLK	H-3 10028-17-8	1.56E+01	pCi/L	1.4E+02 1.2E+02	U	3.04E+02	100.0		906.0_H3_LSC	5.00E-03	01/12/2007 06:12				D

Wednesday, January 31, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Lab Sample Id: JL9TM1AB

Sdg/Rept Nbr: W05079

34378

Collection Date: 12/19/2006 12:24

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 12/19/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType					
	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
6363281 BLK	BE-7 13966-02-4	1.77E-01	pCi/L	2.2E+01 2.2E+01	U	4.11E+01			GAMMALL_GS	2.002E+00 L	01/19/2007 13:30				D
6363281 BLK	CO-60 10198-40-0	8.49E-01	pCi/L	1.6E+00 1.6E+00	U	3.85E+00			GAMMALL_GS	2.002E+00 L	01/19/2007 13:30				D
6363281 BLK	CS-134 13967-70-9	-3.13E-02	pCi/L	2.3E+00 2.3E+00	U	4.33E+00			GAMMALL_GS	2.002E+00 L	01/19/2007 13:30				D
6363281 BLK	CS-137 10045-97-3	-3.84E-01	pCi/L	1.9E+00 1.9E+00	U	3.51E+00			GAMMALL_GS	2.002E+00 L	01/19/2007 13:30				D
6363281 BLK	EU-152 14683-23-9	3.41E+00	pCi/L	5.1E+00 5.1E+00	U	9.79E+00			GAMMALL_GS	2.002E+00 L	01/19/2007 13:30				D
6363281 BLK	EU-154 15585-10-1	3.73E+00	pCi/L	4.5E+00 4.5E+00	U	1.12E+01			GAMMALL_GS	2.002E+00 L	01/19/2007 13:30				D
6363281 BLK	EU-155 14391-16-3	3.18E-01	pCi/L	3.8E+00 3.8E+00	U	6.71E+00			GAMMALL_GS	2.002E+00 L	01/19/2007 13:30				D
6363281 BLK	K-40 13966-00-2	1.95E+01	pCi/L	3.5E+01 3.5E+01	U	7.70E+01			GAMMALL_GS	2.002E+00 L	01/19/2007 13:30				D
6363281 BLK	RU-106 13967-48-1	-9.49E+00	pCi/L	1.9E+01 1.9E+01	U	3.18E+01			GAMMALL_GS	2.002E+00 L	01/19/2007 13:30				D
6363281 BLK	SB-125 14234-35-6	4.05E+00	pCi/L	4.6E+00 4.6E+00	U	9.34E+00			GAMMALL_GS	2.002E+00 L	01/19/2007 13:30				D

Wednesday, January 31, 2007

STL Richland QC Blank Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Lab Sample Id: JL9TN1AB

Sdg/Rept Nbr: W05079

34378

Collection Date: 12/15/2006 10:28

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 12/15/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BI	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6363282 BLK	I-129L 15046-84-1	-5.63E-02	pCi/L	1.3E-01 1.3E-01	U	2.24E-01	97.3		I129LL_SEP_L	3.7501E+00 L	01/26/2007 19:59				D

Wednesday, January 31, 2007

STL Richland QC Blank Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Lab Sample Id: JL9TP1AB

Sdg/Rept Nbr: W05079 34378

Collection Date: 12/14/2006 11:47

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 12/14/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BK	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/ ML	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6363283 BLK	Uranium 7440-61-1	-2.61E-03	ug/L	6.0E-04 6.0E-04	U	8.19E-02			UTOT_KPA	2.56E-02	01/25/2007 10:51				D

Wednesday, January 31, 2007

STL Richland QC Blank Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Lab Sample Id: JL9TQ1AB

Sdg/Rept Nbr: W05079

34378

Collection Date: 12/18/2006 12:25

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 12/18/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BN	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6363284 BLK	SR-90 10098-97-2	1.13E-01	pCi/L	2.6E-01 2.1E-01	U	5.63E-01	68.3		SRISO_SEP_P	1.0004E+00 L	01/21/2007 08:36				D

Wednesday, January 31, 2007

STL Richland QC Blank Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Lab Sample Id: JL9TR1AB

Sdg/Rept Nbr: W05079 34378

Collection Date: 12/15/2006 11:47

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 12/15/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BP	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6363285 BLK	TC-99 14133-76-7	3.47E+00	pCi/L	5.9E+00 4.1E+00	U	9.64E+00	100.0		TC99_ETVDSK	1.261E-01 L	01/16/2007 15:01				D

Wednesday, January 31, 2007

STL Richland QC Blank Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Lab Sample Id: JL9TT1AB

Sdg/Rept Nbr: W05079 34378

Collection Date: 12/18/2006 11:17

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 12/18/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BR	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qual	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6363286 BLK	ALPHA 12587-46-1	2.09E-02	pCi/L	1.2E-01 1.2E-01	U	2.89E-01	100.0		9310_ALPHAB	2.018E-01 L	01/22/2007 13:37				D

Wednesday, January 31, 2007

STL Richland QC Blank Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Lab Sample Id: JL9TV1AB

Sdg/Rept Nbr: W05079 34378

Collection Date: 12/14/2006 12:51

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 12/14/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BT	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6363287 BLK	BETA 12587-47-2	6.39E+00	pCi/L	1.4E+00 1.1E+00		1.66E+00	100.0		9310_ALPHAB	2.014E-01 L	01/22/2007 13:34				D

Wednesday, January 31, 2007

STL Richland QC Blank Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Lab Sample Id: JNA911AB

Sdg/Rept Nbr: W05079 34378

Collection Date: 12/14/2006 12:51

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 12/14/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								CG	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7024475 BLK	BETA 12587-47-2	7.16E-01	pCi/L	1.0E+00 9.9E-01	U	1.95E+00	100.0		9310_ALPHAB	2.006E-01 L	01/26/2007 14:38				D

Wednesday, January 31, 2007

STL Richland QC Control Sample Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Lab Sample Id: JL9TL1CS

Sdg/Rept Nbr: W05079 34378

Collection Date: 12/14/2006 10:53

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 12/14/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BD	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6363280 BS	H-3 10028-17-8	2.49E+03	pCi/L	2.4E+02 2.0E+02		2.99E+02	100.0	2.72E+03 91.8	906.0_H3_LSC	5.00E-03 L	01/11/2007 16:35			75 125	D

Wednesday, January 31, 2007

STL Richland QC Control Sample Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Lab Sample Id: JL9TL1EM

Sdg/Rept Nbr: W05079 34378

Collection Date: 12/14/2006 10:53

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 12/14/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BF	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6363280 BS	H-3 10028-17-8	2.28E+03	pCi/L	2.4E+02 2.0E+02		3.05E+02	100.0	2.72E+03 84.0	906.0_H3_LSC	5.00E-03 L	01/12/2007 07:33			75 125	D

Wednesday, January 31, 2007

STL Richland QC Control Sample Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Lab Sample Id: JL9TM1CS

Sdg/Rept Nbr: W05079

34378

Collection Date: 12/19/2006 12:24

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 12/19/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BH	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6363281 BS	CO-60 10198-40-0	4.03E+01	pCi/L	8.4E+00 8.4E+00		5.76E+00		3.88E+01 103.9	GAMMALL_GS	2.003E+00 L	01/19/2007 15:20			75 125	D
6363281 BS	CS-137 10045-97-3	2.29E+01	pCi/L	6.7E+00 6.7E+00		4.40E+00		2.48E+01 92.5	GAMMALL_GS	2.003E+00 L	01/19/2007 15:20			70 130	D
6363281 BS	EU-152 14683-23-9	6.16E+01	pCi/L	2.1E+01 2.1E+01	U	2.54E+01		7.75E+01 79.4	GAMMALL_GS	2.003E+00 L	01/19/2007 15:20			70 130	D

Wednesday, January 31, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Lab Sample Id: JL9TN1CS

Sdg/Rept Nbr: W05079

34378

Collection Date: 12/15/2006 10:28

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 12/15/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp				
	MW6-SBB-A19981								BJ	H				
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qual MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6363282 BS	I-129L 15046-84-1	8.18E+00	pCi/L	1.0E+00 1.0E+00	2.94E-01	98.6	9.60E+00 85.2	I129LL_SEP_L	4.003E+00 L	01/27/2007 09:20			70 130	D

Wednesday, January 31, 2007

STL Richland QC Control Sample Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Lab Sample Id: JL9TP1CS

Sdg/Rept Nbr: W05079

34378

Collection Date: 12/14/2006 11:47

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 12/14/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BL	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6363283 BS	Uranium 7440-61-1	3.59E+01	ug/L	4.2E+00 4.2E+00		8.32E-02		3.63E+01 98.9	UTOT_KPA	2.52E-02 ML	01/29/2007 11:36			75 125	D

Wednesday, January 31, 2007

STL Richland QC Control Sample Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Lab Sample Id: JL9TP1DS

Sdg/Rept Nbr: W05079 34378

Collection Date: 12/14/2006 11:47

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 12/14/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BM	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6363283 BS	Uranium 7440-61-1	3.64E+00	ug/L	3.7E-01 3.7E-01		8.35E-02		3.61E+00 100.9	UTOT_KPA	2.51E-02 ML	01/25/2007 11:03			75 125	D

Wednesday, January 31, 2007

STL Richland QC Control Sample Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Lab Sample Id: JL9TQ1CS

Sdg/Rept Nbr: W05079 34378

Collection Date: 12/18/2006 12:25

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 12/18/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BO	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6363284 BS	SR-90 10098-97-2	1.29E+01	pCi/L	2.1E+00 7.4E-01		5.66E-01	72.1	1.36E+01 94.8	SRISO_SEP_P	1.0001E+00 L	01/21/2007 08:36			70 130	D

Wednesday, January 31, 2007

STL Richland QC Control Sample Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Lab Sample Id: JL9TR1CS

Sdg/Rept Nbr: W05079

34378

Collection Date: 12/15/2006 11:47

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 12/15/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp				
	MW6-SBB-A19981								BQ	H				
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qual MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6363285 BS	TC-99 14133-76-7	4.95E+02	pCi/L	3.9E+01 1.3E+01	9.45E+00	100.0	5.26E+02 94.1	TC99_ETVDSK	1.287E-01 L	01/16/2007 15:01			75 125	D

Wednesday, January 31, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Lab Sample Id: JL9TT1CS

Sdg/Rept Nbr: W05079

34378

Collection Date: 12/18/2006 11:17

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 12/18/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp				
	MW6-SBB-A19981								BS	H				
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qual MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6363286 BS	ALPHA 12587-46-1	1.99E+01	pCi/L	4.8E+00 1.4E+00	4.17E-01	100.0	2.30E+01 86.8	9310_ALPHAB	1.993E-01 L	01/22/2007 13:37			70 130	D

Wednesday, January 31, 2007

STL Richland QC Control Sample Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Lab Sample Id: JL9TV1CS

Sdg/Rept Nbr: W05079

34378

Collection Date: 12/14/2006 12:51

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 12/14/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BU	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6363287 BS	BETA 12587-47-2	2.35E+01	pCi/L	3.5E+00 1.7E+00		1.70E+00	100.0	2.23E+01 105.4	9310_ALPHAB	2.026E-01 L	01/22/2007 13:34			70 130	D

Wednesday, January 31, 2007

STL Richland QC Control Sample Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Lab Sample Id: JNA911CS

Sdg/Rept Nbr: W05079

34378

Collection Date: 12/14/2006 12:51

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 12/14/2006

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
7024475 BS	BETA 12587-47-2	1.89E+01	pCi/L	2.9E+00 1.6E+00		1.65E+00	100.0	2.27E+01 83.3	9310_ALPHAB	2.012E-01 L	01/26/2007 14:38			70 130	D

Wednesday, January 31, 2007

STL Richland QC Duplicate Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Lab Sample Id: JLP371CR

Sdg/Rept Nbr: W05079

34378

Collection Date: 12/15/2006 11:47

Client Id: B1LJC6

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 12/15/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
I07-012	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
6363285 DUP	TC-99 14133-76-7	1.48E+01 1.68E+01	pCi/L	6.6E+00 4.5E+00		9.79E+00	100.0		TC99_ETVDSK	1.263E-01 L	01/16/2007 15:01	12.6 20.0	0.4 3		D

Wednesday, January 31, 2007

STL Richland QC Duplicate Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Lab Sample Id: JLP3X1DR

Sdg/Rept Nbr: W05079 34378

Collection Date: 12/15/2006 10:28

Client Id: B1LK72

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 12/15/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
I07-015	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
6363282 DUP	I-129L 15046-84-1	4.37E-01 5.00E-01	pCi/L	1.9E-01 1.9E-01	U	3.97E-01	97.0		I129LL_SEP_L	3.8608E+00 L	01/26/2007 15:59	13.5 20.0	0.5 3		D

Wednesday, January 31, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Lab Sample Id: JLP4L1KR

Sdg/Rept Nbr: W05079 34378

Collection Date: 12/18/2006 12:25

Client Id: B1LHJ7

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 12/18/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
W07-012	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
6363284 DUP	SR-90 10098-97-2	6.22E-02 1.17E-01	pCi/L	2.5E-01 2.5E-01	U	5.18E-01	77.5		SRISO_SEP_P	1.0043E+00 L	01/21/2007 08:35	60.8 20.0	0.3 3		D

Wednesday, January 31, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Lab Sample Id: JLPPQ1CR

Sdg/Rept Nbr: W05079

34378

Collection Date: 12/14/2006 11:47

Client Id: B1LC99

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 12/14/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
S07-012	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
6363283 DUP	Uranium 7440-61-1	4.34E-03 4.09E-02	ug/L	6.3E-04 6.3E-04	U	8.38E-02			UTOT_KPA	2.50E-02 ML	01/25/2007 11:13	161.7 20.0	82. 3		D

Wednesday, January 31, 2007

STL Richland QC Duplicate Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Lab Sample Id: JLPJ51DR

Sdg/Rept Nbr: W05079

34378

Collection Date: 12/14/2006 10:53

Client Id: B1KR22

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 12/14/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
S07-010	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
6363280	H-3	9.11E+02	pCi/L	1.8E+02		3.00E+02	100.0		906.0_H3_LSC	5.00E-03	01/11/2007	16.0	1.1		D
DUP	10028-17-8	7.76E+02		1.6E+02						L	20:40	20.0	3		

Wednesday, January 31, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Lab Sample Id: JLPJR1FR

Sdg/Rept Nbr: W05079 34378

Collection Date: 12/14/2006 12:51

Client Id: B1L5T9

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 12/14/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
W07-011	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
6363287 DUP	BETA 12587-47-2	3.68E+01 4.30E+01	pCi/L	1.0E+01 9.1E+00		1.50E+01	100.0		9310_ALPHAB	2.73E-02 L	01/22/2007 13:34	15.5 20.0	0.8 3		D

Wednesday, January 31, 2007

STL Richland QC Duplicate Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Lab Sample Id: JLPJR2FR

Sdg/Rept Nbr: W05079 34378

Collection Date: 12/14/2006 12:51

Client Id: B1L5T9

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 12/14/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
W07-011	MW6-SBB-A19981								CC	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qual	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	REP/ UCL	LCS LCL/UCL	R Typ
7024475 DUP	BETA 12587-47-2	3.62E+01 3.79E+01	pCi/L	1.1E+01 9.5E+00		1.55E+01	100.0		9310_ALPHAB	2.52E-02 L	01/26/2007 14:38	4.6 20.0	0.2 3		D

Wednesday, January 31, 2007

STL Richland QC Duplicate Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Lab Sample Id: JLV7X1GR

Sdg/Rept Nbr: W05079 34378

Collection Date: 12/18/2006 11:17

Client Id: B1LJW5

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 12/18/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
G07-012	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
6363286 DUP	ALPHA 12587-46-1	9.38E-01 4.47E-01	pCi/L	9.4E-01 9.1E-01	U	1.43E+00	100.0		9310_ALPHAB	2.005E-01 L	01/22/2007 16:05	70.9 20.0	0.7 3		D

Wednesday, January 31, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Lab Sample Id: JLXLL1CR

Sdg/Rept Nbr: W05079

34378

Collection Date: 12/19/2006 12:24

Client Id: B1LC15

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 12/19/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
S07-012	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
6363281 DUP	BE-7 13966-02-4	-3.65E+00 -9.24E+00	pCi/L	2.1E+01 2.1E+01	U	3.87E+01			GAMMALL_GS	1.9805E+00 L	01/19/2007 13:30	0.0 20.0	0.4 3		D
6363281 DUP	CO-60 10198-40-0	6.35E+00 -4.42E-02	pCi/L	3.4E+00 3.4E+00	U	7.86E+00			GAMMALL_GS	1.9805E+00 L	01/19/2007 13:30	202.8 20.0	2.7 3		D
6363281 DUP	CS-134 13967-70-9	1.02E+00 2.78E+00	pCi/L	2.3E+00 2.3E+00	U	4.72E+00			GAMMALL_GS	1.9805E+00 L	01/19/2007 13:30	93.0 20.0	1.1 3		D
6363281 DUP	CS-137 10045-97-3	-3.64E-01 -2.39E+00	pCi/L	2.1E+00 2.1E+00	U	3.94E+00			GAMMALL_GS	1.9805E+00 L	01/19/2007 13:30	0.0 20.0	1.3 3		D
6363281 DUP	EU-152 14683-23-9	1.22E+00 -1.50E+00	pCi/L	5.7E+00 5.7E+00	U	1.07E+01			GAMMALL_GS	1.9805E+00 L	01/19/2007 13:30	0.0 20.0	0.7 3		D
6363281 DUP	EU-154 15585-10-1	2.81E+00 9.85E+00	pCi/L	6.8E+00 6.8E+00	U	1.45E+01			GAMMALL_GS	1.9805E+00 L	01/19/2007 13:30	111.2 20.0	1.5 3		D
6363281 DUP	EU-155 14391-16-3	2.47E+00 6.22E+00	pCi/L	4.3E+00 4.3E+00	U	8.18E+00			GAMMALL_GS	1.9805E+00 L	01/19/2007 13:30	86.4 20.0	1.2 3		D
6363281 DUP	K-40 13966-00-2	2.25E+01 -5.53E+01	pCi/L	4.6E+01 4.6E+01	U	1.01E+02			GAMMALL_GS	1.9805E+00 L	01/19/2007 13:30	0.0 20.0	2.4 3		D
6363281 DUP	RU-106 13967-48-1	3.23E-02 -4.52E+00	pCi/L	1.8E+01 1.8E+01	U	3.49E+01			GAMMALL_GS	1.9805E+00 L	01/19/2007 13:30	0.0 20.0	0.3 3		D
6363281 DUP	SB-125 14234-35-6	-2.94E+00 1.08E+00	pCi/L	5.6E+00 5.6E+00	U	9.54E+00			GAMMALL_GS	1.9805E+00 L	01/19/2007 13:30	0.0 20.0	1. 3		D

Wednesday, January 31, 2007

STL Richland Qc Matrix Spike Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05079.Edd, h:\Reportdb\edd\FeadIV\Rad\34378.Edd

Lab Sample Id: JLPFT1CW

Sdg/Rept Nbr: W05079

34378

Collection Date: 12/14/2006 10:37

Client Id: B1LC94

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: MS

Received Date: 12/14/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
S07-012	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
6363283 MS	Uranium 7440-61-1	3.66E+01	ug/L	5.0E+00 5.0E+00		8.35E-02		3.65E+01 100.5	UTOT_KPA	2.51E-02 ML	01/25/2007 11:20			60 140	D

Wednesday, January 31, 2007

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\Rad\W05079.Edd, h:\Reportdb\edd\Fead\Rad\34378.Edd

Lab Sample Id: JLXJ81DW

Sdg/Rept Nbr: W05079 34378

Collection Date: 12/19/2006 12:24

Client Id: B1LJR5

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: MS

Received Date: 12/19/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
A07-012	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
6363285 MS	TC-99 14133-76-7	3.34E+03	pCi/L	3.5E+02 3.8E+01		9.52E+00	100.0	3.53E+03 94.6	TC99_ETVDSK	1.276E-01 L	01/16/2007 15:01			60 140	D

Lot No., Due Date: J6L180222,J6L180178,J6L180177,J6L200238,J6L200242; 02/02/2007
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 6363286; RALPHA-A Alpha by GPC-Am
SDG, Matrix: W05079; WATER

8.0 Correction Calculation Protocol Used. OK	Yes	No	N/A
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	Yes	No	N/A
8.02 Final Results Are in the Appropriate Activity Units OK	Yes	No	N/A
8.03 Batch Contains the Required QC Appropriate for the Method OK	Yes	No	N/A
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	Yes	No	N/A
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	Yes	No	N/A
8.06 At Least the Minimum Sample Volume Was Used Analysis Volume => JLPJR1AC 33.50<200.00 JLP4L1AD 159.00<200.00 JLP4V1AC 185.10<200.00 JLV661AC 113.40<200.00 Q:VB	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 (MBIks) 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. RPD > UCL : 20.0=> JLV7X1AG ALPHA 71.0 (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. MDC/MDA > CRDL => JLPJR1AC ALPHA 5.2E+00>3.0E+00 Q:C1	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. Batch Positive Result => JLPJ01AA ALPHA 2.4E+00 L:2.0E+00 JLP4T1AD ALPHA 1.5E+00 L:1.3E+00	Yes	No	N/A
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => ALPHA OK; No Callin Level Found => ALPHA	Yes	No	N/A
8.24 Result + 3s >=0, Not Too Negative. OK	Yes	No	N/A

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

NCRM# 10-09338

First Level Review Lisa Antonson Pam Anderson Date 1/26/07



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6363286
W05079

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. Adams Date: 1-25-07

Clouseau Nonconformance Memo



NCM #: 10-09338 NCM Initiated By: Lisa Antonson Date Opened: 01/24/2007 Date Closed:	Classification: Anomaly Status: GLREVIEW Production Area: Environmental - Prep Tests: Alpha by GPC-Am Lot #'s (Sample #'s): J6L180177 (1), J6L180178 (1), J6L180222 (1,2,3), J6L200238 (1), J6L200242 (1), J6L290000 (286), QC Batches: 6363286
Nonconformance: MDA not met Subcategory: Sample size reduced due to high residue mass	

Problem Description / Root Cause

<u>Name</u>	<u>Date</u>	<u>Description</u>
Lisa Antonson	01/24/2007	Sample JLPJR 1AC didn't meet MDA due to reduced aliquot based on weight screen. Sample was counted for maximum of 200 minutes. Data accepted.

Corrective Action

<u>Name</u>	<u>Date</u>	<u>Corrective Action</u>
Lisa Antonson	01/24/2007	NA

Client Notification Summary

<u>Client</u>	<u>Project Manager</u>	<u>Notified</u>	<u>Response</u>	<u>How Notified</u>	<u>Note</u>
	<u>Response</u>	<u>Response Note</u>			

Quality Assurance Verification

<u>Verified By</u>	<u>Due Date</u>	<u>Status</u>	<u>Notes</u>
		This section not yet completed by QA.	

Approval History

<u>Date Approved</u>	<u>Approved By</u>	<u>Position</u>

Lot No., Due Date:	J6L180222,J6L180178,J6L180177,J6L200238,J6L200242,J6L210114; 02/02/2007		
Client, Site:	384868; PGW 615HANFORD HANFORD		
QC Batch No., Method Test:	7024475; RBETA-SR Beta by GPC-Sr/Y		
SDG, Matrix:	W05079; WATER		
8.0 Correction Calculation Protocol Used. OK		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
8.01 The Appropriate Methods Were Used To Analyze the Samples OK		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
8.02 Final Results Are in the Appropriate Activity Units OK		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
8.03 Batch Contains the Required QC Appropriate for the Method OK		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
8.06 At Least the Minimum Sample Volume Was Used Analysis Volume => JLPJR2AD 25.40<200.00 JLP4L2AE 20.20<200.00 JLV662AD 10.30<200.00 JLV7X2AD 23.10<200.00 Q:VB		Yes <input checked="" type="checkbox"/>	No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
8.07 The Correct Count Geometry was Used. OK		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
8.09 Method Blank is within Control Limits. OK		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBIks) found in Batch!		Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
8.14 LCS within Control Limits. OK		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!		Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!		Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
8.17 Tracer within Control Limits. OK		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
8.19 Sample Specific MDC <= CRDL. MDC/MDA > CRDL => JLPJR2AD BETA 1.6E+01>4.0E+00 JLPJR2AF BETA 1.6E+01>4.0E+00 JLP4L2AE BETA 1.8E+01>4.0E+00 JLV662AD BETA 3.2E+01>4.0E+00 JLV7X2AD BETA 1.4E+01>4.0E+00 Q:C1		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!		Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => JLPJR2AD BETA 3.8E+01 L:1.6E+01 JLPJ02AC BETA 1.0E+01 L:2.7E+00 JLP4L2AE BETA 2.6E+03 L:1.8E+01 JLP4T2AE BETA 2.9E+01 L:2.8E+00 JLP4V2AD BETA 1.4E+01 L:2.7E+00		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>

JLV662AD BETA 4.1E+03 L:3.2E+01
JLV7X2AD BETA 1.1E+03 L:1.4E+01
JLXKL2AA BETA 1.7E+01 L:2.6E+00

8.23	Result \leq Action Level, when Defined. OK; No Action Level Found \Rightarrow BETA OK; No Callin Level Found \Rightarrow BETA	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
8.24	Result + 3s ≥ 0 , Not Too Negative. OK	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
8.25	Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
8.26	Instruments have Current Calibrations.	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
8.27	Correct Count Library Used. No Count Library found in Batch Data!	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
8.28	Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later versions.)	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
8.29	Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later versions.)	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
8.3	Comments: <i>see NCM 10-69370</i>	
8.31	Results Blank Subtracted as Appropriate. OK	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>

First Level Review

Paul Anderson

Date

11/29/07



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7024475

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 Adams Date: 1-29-07

Clouseau Nonconformance Memo



NCM #: 10-09370	Classification: Anomaly
NCM Initiated By: Lisa Antonson	Status: GLREVIEW
Date Opened: 01/29/2007	Production Area: Environmental - Prep
Date Closed:	Tests: Beta by GPC-Sr/Y
	Lot #'s (Sample #'s): J6L180177 (1), J6L180178 (1), J6L180222 (1,2,3), J6L200238 (1), J6L200242 (1), J6L210114 (1), J7A240000 (475),
	QC Batches: 7024475
Nonconformance: Other (describe in detail)	
Subcategory: Other (explanation required)	

Problem Description / Root Cause

<u>Name</u>	<u>Date</u>	<u>Description</u>
Lisa Antonson	01/29/2007	<p>This batch is a rerun of batch #6363287 due to a high blank.</p> <p>In this batch samples JLP4L, JLV7X and JLV66 were further reduced after looking at the original sample results due to high counts.</p> <p>Samples JLPJR and its dup were reduced due to high weight screens.</p> <p>These samples didn't meet the MDA, but results exceed MDA achieved.</p> <p>Tech notes that all of Alpha/Beta sample JLV66 was accidentally used for the Sr procedure, so the Sr bottle was used for the rerun aliquot.</p>

Corrective Action

<u>Name</u>	<u>Date</u>	<u>Corrective Action</u>
Lisa Antonson	01/29/2007	NA

Client Notification Summary

<u>Client</u>	<u>Project Manager</u>	<u>Notified</u>	<u>Response</u>	<u>How Notified</u>	<u>Note</u>
	<u>Response</u>	<u>Response Note</u>			

Quality Assurance Verification

<u>Verified By</u>	<u>Due Date</u>	<u>Status</u>	<u>Notes</u>
		This section not yet completed by QA.	

Approval History

<u>Date Approved</u>	<u>Approved By</u>	<u>Position</u>

Lot No., Due Date: J6L180220,J6L180222,J6L200238,J6L200242; 02/02/2007
 Client, Site: 384868; PGW 615HANFORD HANFORD
 QC Batch No., Method Test: 6363284; RSR85907 Sr-85/90 by GPC-7
 SDG, Matrix: W05079; WATER

1.0 COC

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

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

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

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

3.0 QC & Samples

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

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

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

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

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

4.0 Raw Data

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

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

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

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

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

5.0 Other

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

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

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

5.4 Was transcription checked? Yes No N/A
 Yes No N/A

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

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

6.0 Comments on any No response:

First Level Review Pam Anderson

Date 1-23-07



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6363284
W05079

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: 1-23-07

Lot No., Due Date: J6L180222,J6L200238,J6L200242,J6L210114,J6L210119; 02/02/2007
 Client, Site: 384868; PGW 615HANFORD HANFORD
 QC Batch No., Method Test: 6363281; RGAMMA Gamma by GER
 SDG, Matrix: W05079; 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 Pam Anderson

Date 1-23-07



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6.363281
WD5079

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

Comments on any "No" response: _____

Second Level Review: Sherryl A. Adams Date: 1-23-07

Lot No., Due Date: J6L180220,J6L180179,J6L210110,J6L210119; 02/02/2007
 Client, Site: 384868; PGW 615HANFORD HANFORD
 QC Batch No., Method Test: 6363282; RGAMLEPS Gamma by LEPS
 SDG, Matrix: W05079; 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 Pam Anderson

Date 1-29-07



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6363282
W05079

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: 1-29-07

Lot No., Due Date: J6L180221,J6L180222,J6L180177,J6L210110,J6L210114; 02/02/2007
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 6363285; RTC99 Tc-99 by LSC
SDG, Matrix: W05079; 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 Incorrect Tracer/Vial => JLXJ81AD TCSG<>TCSE Q:V9	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 (MBIks) 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. OK (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. OK	Yes	No	N/A
8.17 Tracer within Control Limits. No Tracers found in Batch!	Yes	No	N/A
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!	Yes	No	N/A
8.19 Sample Specific MDC <= CRDL. OK	Yes	No	N/A
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!	Yes	No	N/A
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK Calc_IDL Not Calculated	Yes	No	N/A
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => TC-99 OK; No Callin Level Found => TC-99	Yes	No	N/A
8.24 Result + 3s >=0, Not Too Negative. OK	Yes	No	N/A
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!	Yes	No	N/A

8.26 Instruments have Current Calibrations.	Yes No N/A
8.27 Correct Count Library Used. No Count Library found in Batch Data!	Yes No N/A <input checked="" type="checkbox"/>
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 <input checked="" type="checkbox"/>
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 <input checked="" type="checkbox"/>
8.3 Comments:	
8.31 Results Blank Subtracted as Appropriate. OK	Yes No N/A <input checked="" type="checkbox"/>

First Level Review

[Signature] *[Signature]*

Date 1-29-07



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6363285
605079

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: Shirley A Adams Date: 1-29-07

Lot No., Due Date: J6L180222,J6L180179,J6L180177,J6L200238,J6L200242,J6L210119; 02/02/2007
 Client, Site: 384868; PGW 615HANFORD HANFORD
 QC Batch No., Method Test: 6363280; RTRITIUM H-3 by LSC
 SDG, Matrix: W05079; WATER

8.0	Correction Calculation Protocol Used. OK	Yes	No	N/A
8.01	The Appropriate Methods Were Used To Analyze the Samples OK	Yes	No	N/A
8.02	Final Results Are in the Appropriate Activity Units OK	Yes	No	N/A
8.03	Batch Contains the Required QC Appropriate for the Method OK	Yes	No	N/A
8.04	The Correct Tracer and QC Vials Where Used in the Samples OK	Yes	No	N/A
8.05	Sample was Appropriately Traced Before or After Fractionating the Sample OK	Yes	No	N/A
8.06	At Least the Minimum Sample Volume Was Used Analysis Volume => JLPJR1AA 5.00<10.00 JLPJ51AA 5.00<10.00 OK JLP4L1AJ 5.00<10.00 JLP4T1AK 5.00<10.00 PA JLP4V1AH 5.00<10.00 1-12-07 JLV661AA 5.00<10.00 JLV7X1AA 5.00<10.00 JLXLP1AA 5.00<10.00 Q:VB	Yes	No	N/A
8.07	The Correct Count Geometry was Used. Count Geometry => JL9TL1AF SVP15/5<>SVP10/10 JL9TL1AG SVP15/5<>SVP10/10 OK JL9TL1AA SVP15/5<>SVP10/10 JL9TL1AC SVP15/5<>SVP10/10 PA JLPJR1AA SVP15/5<>SVP10/10 1-12-07 JLPJ51AA SVP15/5<>SVP10/10 JLPJ51AD SVP15/5<>SVP10/10 JLP4L1AJ SVP15/5<>SVP10/10 JLP4T1AK SVP15/5<>SVP10/10 JLP4V1AH SVP15/5<>SVP10/10 JLV661AA SVP15/5<>SVP10/10 JLV7X1AA SVP15/5<>SVP10/10 JL9TL1AH SVP15/5<>SVP10/10 JL9TL1AD SVP15/5<>SVP10/10 JL9TL1AE SVP15/5<>SVP10/10 JLXLP1AA SVP15/5<>SVP10/10 Q:VC	Yes	No	N/A
8.08	The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	Yes	No	N/A
8.09	Method Blank is within Control Limits. OK	Yes	No	N/A
8.1	Comments:			
8.11	Matrix Blank is within Control Limits. OK	Yes	No	N/A
8.12	Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	Yes	No	N/A
8.13	QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	Yes	No	N/A
8.14	LCS within Control Limits. OK	Yes	No	N/A
8.15	MLCS within Control Limits. OK	Yes	No	N/A
8.16	MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!	Yes	No	N/A
8.17	Tracer within Control Limits. No Tracers found in Batch!	Yes	No	N/A
8.18	Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!	Yes	No	N/A

8.19	Sample Specific MDC <= CRDL. OK	Yes	No	N/A
8.2	Comments:			
8.21	Result < Lc, Activity Not Detected, U Flag. No Limit Specified!	Yes	No	N/A
8.22	Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK Calc_IDL Not Calculated	Yes	No	N/A
8.23	Result <= Action Level, when Defined. OK; No Action Level Found => H-3 OK; No Callin Level Found => H-3	Yes	No	N/A
8.24	Result + 3s >=0, Not Too Negative. OK	Yes	No	N/A
8.25	Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!	Yes	No	N/A
8.26	Instruments have Current Calibrations.	Yes	No	N/A
8.27	Correct Count Library Used. No Count Library found in Batch Data!	Yes	No	N/A
8.28	Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later versions)	Yes	No	N/A
8.29	Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later versions)	Yes	No	N/A
8.3	Comments:			
8.31	Results Blank Subtracted as Appropriate. OK	Yes	No	N/A

First Level Review

Angela Long *Pam Anderson*
1/12/07

Date _____



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6368280
W05079

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: 1-15-07

Lot No., Due Date: J6L180222,J6L180171,J6L210110,J6L210114; 02/02/2007
 Client, Site: 384868; PGW 615HANFORD HANFORD
 QC Batch No., Method Test: 6363283; RUNAT UNat by KPA
 SDG, Matrix: W05079; 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] Pam Anderson

Date 1/29/07



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number:

0363283
W05079

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

Comments on any "No" response:

Second Level Review:

Sherryl A Adams

Date:

1-29-07

Clouseau Nonconformance Memo



NCM #: 10-09375	Classification: Anomaly
NCM Initiated By: Pam Anderson	Status: GLREVIEW
Date Opened: 01/29/2007	Production Area: Environmental - Sep
Date Closed:	Tests: UNat by KPA
	Lot #'s (Sample #'s): J6L290000 (283),
	QC Batches: 6363283
Nonconformance: Other (describe in detail)	
Subcategory: Other (explanation required)	

Problem Description / Root Cause

<u>Name</u>	<u>Date</u>	<u>Description</u>
Pam Anderson	01/29/2007	This Unat water sample could not be found over the database after completion of counting, even though a hard copy of the results were present in the batch report.
Pam Anderson	01/31/2007	Upon completion of Unat water sample JL9TP1AC, it was noticed that this particular sample's information did not transfer through the electronic database even though results were printed out. The error could be attributed to the tech running the instrument. The sample was re-counted to provide information to the client. The results were congruent to the previous sample's counts.

Corrective Action

<u>Name</u>	<u>Date</u>	<u>Corrective Action</u>
Pam Anderson	01/29/2007	Sample was recounted and the data was successfully recieved for review.
Pam Anderson	01/31/2007	

Client Notification Summary

<u>Client</u>	<u>Project Manager</u>	<u>Notified</u>	<u>Response</u>	<u>How Notified</u>	<u>Note</u>
			<u>Response</u>		<u>Response Note</u>

Quality Assurance Verification

<u>Verified By</u>	<u>Due Date</u>	<u>Status</u>	<u>Notes</u>
		This section not yet completed by QA.	

Approval History

<u>Date Approved</u>	<u>Approved By</u>	<u>Position</u>

Lot No., Due Date: J6L180222; 02/02/2007
 Client, Site: 384868; PGW 615HANFORD HANFORD
 QC Batch No., Method Test: 7005170;
 SDG, Matrix: W05079; 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: See NCM. 10-09383		

First Level Review *Pam Anderson*

Date 1-30-07



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7005170
W05079

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

Comments on any "No" response: See NCM

Second Level Review: Sheryl A. Adams Date: 1-31-07

Clouseau Nonconformance Memo



NCM #: 10-09383	Classification: Anomaly
NCM Initiated By: Pam Anderson	Status: GLREVIEW
Date Opened: 01/30/2007	Production Area: Environmental - Sep
Date Closed:	Tests:
Nonconformance: Other (describe in detail)	Lot #'s (Sample #'s): J6L180222 (2),
Subcategory: Other (explanation required)	QC Batches: 7005170

Problem Description / Root Cause

<u>Name</u>	<u>Date</u>	<u>Description</u>
Pam Anderson	01/30/2007	The duplicate shows a small amount of color, 2 wells, the sample does not.

Corrective Action

<u>Name</u>	<u>Date</u>	<u>Corrective Action</u>
Pam Anderson	01/30/2007	Note in case narrative.

Client Notification Summary

<u>Client</u>	<u>Project Manager</u>	<u>Notified</u>	<u>Response</u>	<u>How Notified</u>	<u>Note</u>
			<u>Response</u>		<u>Response Note</u>

Quality Assurance Verification

<u>Verified By</u>	<u>Due Date</u>	<u>Status</u>	<u>Notes</u>
			This section not yet completed by QA.

Approval History

<u>Date Approved</u>	<u>Approved By</u>	<u>Position</u>
----------------------	--------------------	-----------------



STL

Sample Check-in List

Date/Time Received: 12-14-06 1330

Client: PGW SDG #: W05079 NA SAF #: 807-012 NA

Work Order Number: U6L180171 Chain of Custody # 807-012-228,220

Shipping Container ID: SAW5115 Air Bill # N/A

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 _____ hazard labels
 _____ custody seals _____ appropriate samples labels
9. Samples are:
 _____ in good condition _____ leaking
 _____ broken _____ 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): N/A

Sample Custodian: S. Smith Date: 12-14-06 1330

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

No action necessary; process as is.

Project Manager _____ Date _____

PNNL J6L180177
W05079
Dec 07-29-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
W07-011-312
Page 1 of 1

Collector Fluor Hanford BREWINGTON	Contact/Requester Dot Stewart	Telephone No. 509-376-5056
SAF No. W07-011	Sampling Origin Hanford Site	MSIN FAX
Project Title RCRA, NOVEMBER 2006	HNF-N-506 1	Purchase Order/Charge Code
Shipped To (Lab) Severn Trent Incorporated, Richland		Ice Chest No. Temp.
Protocol RCRA	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
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
B1L5T9		W	12.14.06	12:51	1x20-mL P	Activity Scan	None
B1L5T9		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1L5T9		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1L5T9		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
JLPJR							

Relinquished By Fluor Hanford D.R. BREWINGTON	Print DR Brewington	Sign <i>[Signature]</i>	Date/Time DEC 14 2006	Received By DAVID HARBISON	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time 12/14/06	
Relinquished By	Date/Time	Received By	Date/Time	Matrix * S = Soil DS = Drum Solid SE = Sediment DI = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other				
Relinquished By	Date/Time	Received By	Date/Time					
Relinquished By	Date/Time	Received By	Date/Time					
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)						Disposed By	Date/Time



STL

Sample Check-in List

Date/Time Received: 12.14.06 1429

Client: PGW SDG #: W05079 NA [] SAF #: W07-011 NA []

Work Order Number: J62180177 Chain of Custody # W07-011-312

Shipping Container ID: N/A Air Bill # N/A

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 _____ hazard labels
_____ custody seals _____ appropriate samples labels
9. Samples are: _____ in good condition _____ leaking
_____ broken _____ 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): N/A

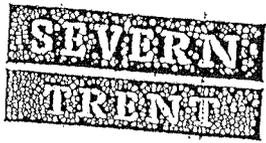
Sample Custodian: DH Date: 12.14.06 1429

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____



STL

Sample Check-in List

Date/Time Received: 12/14/06 14:09

Client: PNNL

SDG #: W05079 NA SAF #: W07-010 NA

Work/Order Number: U62180178

Chain of Custody # W07-010-88

Shipping Container ID: N/A

Air Bill # N/A 507-010-163
W07-011-312

1. Custody Seals on shipping container intact? NA Yes No
2. Custody Seals dated and signed? NA Yes No
3. Chain of Custody record present? NA Yes No
4. Cooler temperature: _____ NA S: Vermiculite/packing materials is NA Wet Dry
6. Number of samples in shipping container: 10
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) adjusted pH
10. Sample pH taken? yes NA pH < 2 pH > 2
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): N/A Yes No

Sample Custodian: [Signature] Date: 12/14/06 14:29

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____
() No action necessary; process as is.

Project Manager _____ Date _____



STL

Sample Check-in List

Date/Time Received: 12-14-06 1429

Client: POW SDG #: W05079 NA SAF #: 807-010 NA

Work Order Number: U6L180179 Chain of Custody # 807-010-163

Shipping Container ID: N/A Air Bill # N/A

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 _____ hazard labels
_____ custody seals _____ appropriate samples labels
9. Samples are: _____ in good condition _____ leaking
_____ broken _____ 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): N/A

Sample Custodian: S.S. Date: 12-14-06

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

No action necessary; process as is.

Project Manager _____ Date _____

PNNL 16L180220
W05079
date 01-29-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

107-015-5

Page 1 of 1

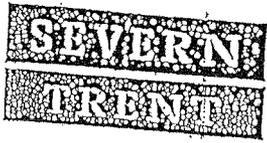
Collector Fluor Hanford F.M. HALL	Contact/Requester Dot Stewart	Telephone No. 509-376-5056	MSIN	FAX
SAF No. 107-015	Sampling Origin Hanford Site	Purchase Order/Charge Code		
Project Title 2UPI-LOI DECEMBER 2006	HNF-N-506 1	Ice Chest No. 12055	Temp.	
Shipped To (Lab) Severn Trent Incorporated, Richland	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
B1LK72		W	12-15-06	1028	1x20-mL P	Activity Scan	None
B1LK72		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LK72		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
JLP3X							

Relinquished By Fluor Hanford F.M. HALL	Print	Sign	Date/Time DEC 15 2006	3:50	Received By DAVID HARBINS	Print	Sign	Date/Time DEC 15 2006	1:50	Matrix *
Relinquished By	Date/Time	Received By	Date/Time		Received By	Date/Time				S = Soil
Relinquished By	Date/Time	Received By	Date/Time		Received By	Date/Time				DS = Drum Solid
Relinquished By	Date/Time	Received By	Date/Time		Received By	Date/Time				DI = Drum Liquid
										T = Tissue
										WI = Wine
										L = Liquid
										O = Oil
										V = Vegetation
										X = Other
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)				Disposed By				Date/Time	



STL

Sample Check-in List

Date/Time Received: 12/15/2006 13:10

Client: PNNL

SDG #: W05079 NA SAF #: I07-015 NA

Work/Order Number: U6L180220

Chain of Custody # W07-012-380

Shipping Container ID: ROSS

Air Bill # N/A I07-015-85
12/15/06

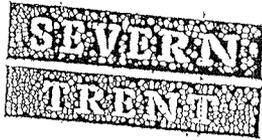
1. Custody Seals on shipping container intact? NA Yes No
2. Custody Seals dated and signed? NA Yes No
3. Chain of Custody record present? NA Yes No
4. Cooler temperature: _____ NA S: Vermiculite/packing materials is NA Wet Dry
6. Number of samples in shipping container: 8
7. Sample holding times exceeded?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

Sample Custodian: [Signature] Date: 12/15/06 13:10

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____
[] No action necessary; process as is.

Project Manager _____ Date _____



STL

Sample Check-in List

Date/Time Received: 12/15/2006 13:10

Client: PNAL

SDG #: W05079 NA SAB #: I07-015 NA

Work/Order Number: V66180220

Chain of Custody # W07-012-380

Shipping Container ID: ROSS 221

Air Bill # N/A I07-015-5

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

Sample Custodian: [Signature] Date: 12/15/06 13:10

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

No action necessary; process as is.

Project Manager _____ Date _____

PNNL J6L180222
W05079

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
W07-012-56

Page 1 of 1

Collector D.P. CONNOLLY	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	<i>HNF-N-506-3</i>	Ice Chest No. <i>SAW15-115</i>	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
B1LHC3		W	<i>12-18-06</i>	<i>1144</i>	1x20-mL P	Activity Scan	None
B1LHC3		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1LHC3		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1LHC3		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1LHC3		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LHC3		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						<i>JLP4V</i>	

Relinquished By D.P. CONNOLLY <i>[Signature]</i>	Print DEC 18 2006	Sign <i>[Signature]</i>	Date/Time <i>1500</i>	Received By S. Smith <i>[Signature]</i>	Print DEC 18 2006	Sign <i>[Signature]</i>	Date/Time <i>1500</i>	Matrix *
Relinquished By	Date/Time	Received By	Date/Time	S = Soil DS = Drum Solid SF = Sediment DI = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air 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		

PNNL 16L180222
W05079
Due 02/01/07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
W07-012-80
Page 1 of 1

Collector D.P. CONNOLLY	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	<i>HNF-N-506-3</i>	Ice Chest No. <i>5AUS-115</i>	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
B1LHJ7		W	<i>12-18-06</i>	<i>1225</i>	1x20-mL P	Activity Scan	None
B1LHJ7		W	↓	↓	1x500-mL P	9223_COLIFORM: Coliform (1)	Na2S2O3 Cool 4C
B1LHJ7		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1LHJ7		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1LHJ7		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1LHJ7		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LHJ7		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
<i>JLPHL</i>							

Relinquished By D.P. CONNOLLY <i>[Signature]</i>	Print	Sign	Date/Time DEC 18 2006	1500	Received By <i>[Signature]</i> S. Smith	Print	Sign	Date/Time DEC 18 2006	1500	Matrix *
Relinquished By	Date/Time	Received By	Date/Time		Relinquished By	Date/Time	Received By	Date/Time		S = Soil DS = Drum Solid SF = Sediment DI = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By	Date/Time	Received By	Date/Time		Relinquished By	Date/Time	Received By	Date/Time		
Relinquished By	Date/Time	Received By	Date/Time		Relinquished By	Date/Time	Received By	Date/Time		
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)						Disposed By		Date/Time	



STL

Sample Check-in List

Date/Time Received: 12-18-06 1500

Client: PGW SDG #: W05079 NA SAF #: W07-012 NA

Work Order Number: 16L180222 Chain of Custody # W07-012-80,40,56

Shipping Container ID: SAWS 115 Air Bill # N/A

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? * 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): N/A

Sample Custodian: A. Smith Date: 12-18-06 1500

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

No action necessary; process as is.

Project Manager _____ Date _____



STL

Sample Check-in List

Date/Time Received: 12-18-06 1230

Client: PBW SDG #: W05079 NA SAF #: G07-012 NA

Work Order Number: UGL200238 Chain of Custody # G07-012-10

Shipping Container ID: ROSS Air Bill # N/A

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 _____ hazard labels
_____ custody seals _____ appropriate samples labels
9. Samples are: _____ in good condition _____ leaking
_____ broken _____ 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): N/A

Sample Custodian: S. Smith Date: 12-18-06 1230

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

No action necessary; process as is.

Project Manager _____ Date _____

PNNL 06 L2 00242
W05079
Date 02.01.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
G07-012-2
Page 1 of 1

Collector FLUOR HANFORD M.R. WEIL	Contact/Requester Dot Stewart	Telephone No. 509-376-5056	MSIN	FAX
SAF No. G07-012	Sampling Origin Hanford Site	Purchase Order/Charge Code		
Project Title 1NR2-RB, DECEMBER 2006	HNF-N-506 4	Ice Chest No. GRP-03-011	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
B1LJW5		W	12-18-06	1117	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1LJW5		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1LJW5		W			1x20-mL P	Activity Scan	None
B1LJW5		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LJW5		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
<i>JLV7X</i>							
<i>[Signature]</i>							
12-18-06							

Relinquished By FLUOR HANFORD M.R. WEIL	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time DEC 18 2006	Received By <i>[Signature]</i>	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time DEC 18 2006	Matrix * S = Soil DS = Drum Solid SF = Sediment DI = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By	Date/Time	Received By	Date/Time	Received By	Date/Time	Date/Time		
Relinquished By	Date/Time	Received By	Date/Time	Received By	Date/Time	Date/Time		
Relinquished By	Date/Time	Received By	Date/Time	Received By	Date/Time	Date/Time		
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)					Disposed By		Date/Time



STL

Sample Check-in List

Date/Time Received: 12.18.06 1410

Client: POW SDG #: W05079 NA [] SAF #: G07-012 NA []

Work Order Number: J6L200242 Chain of Custody # G07-012.2

Shipping Container ID: GRP-03-011 Air Bill # N/A

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 _____ hazard labels
 _____ custody seals _____ appropriate samples labels
9. Samples are:
 in good condition _____ leaking
 _____ broken _____ 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): N/A

Sample Custodian: S. Smith Date: 12.18.06 14:10

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____

Seger, Sandra

From: Felmy, Diana [diana.felmy@pnl.gov]
Sent: Wednesday, December 27, 2006 8:55 AM
To: Seger, Sandra; Stewart, Dorothy L
Cc: Hampt, Heidi
Subject: RE: B1LJR6 Sample Date

It should be 12/19/06.

From: Seger, Sandra [mailto:SSeger@stl-inc.com]
Sent: Wednesday, December 27, 2006 6:56 AM
To: Stewart, Dorothy L
Cc: Felmy, Diana; Hampt, Heidi
Subject: B1LJR6 Sample Date

Sample B1LJR6 has a sample date of 12/9/06 on the COC. Please let us know if 12/9/06 is correct or should it be 12/19/06? The COC is attached.

Thanks,
Sandra

<<W05079.PDF>>

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Collector <i>D.P. CONNOLLY</i>	Contact/Requester Dot Stewart	Telephone No. MSIN FAX 509-376-5056
SAF No. A07-012	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title LLWMA(1)-PA, DECEMBER 2006	<i>HNF-N-506-3</i>	Ice Chest No. <i>SAW 115</i> Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol Other	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LJR6		W	<i>12-9-06</i>	<i>1224</i>	1x20-mL P	Activity Scan	None
B1LJR6		W	<i>1</i>	<i>1</i>	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LJR6		W	<i>1</i>	<i>1</i>	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1LJR6		W			1x500-mL G/P	UTOT_KPA: Uranium (1) <i>12-11-06 DT</i>	HNO3 to pH <2
						<i>JLXKC</i>	

Relinquished By <i>D.P. CONNOLLY</i>	Received By <i>S. Smith</i>	Matrix *
Print Sign <i>DEC 19 2006</i>	Print Sign <i>DEC 19 2006</i>	S = Soil DS = Drum Solid SE = Sediment DI = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By	Received By	
FINAL SAMPLE DISPOSITION	Disposed Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By Date/Time

PNNL 06LJ10110
W05079
Dec 02.02.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
A07-012-4

Page 1 of 1

Collector E.P. CONNOLLY	Contact/Requester Dot Stewart	Telephone No. 509-376-5056	MSIN	FAX
SAF No. A07-012	Sampling Origin Hanford Site	Purchase Order/Charge Code		
Project Title LLWMA(1)-PA, DECEMBER 2006	HWF-N-506-3	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 Other	Priority: 45 Days	Offsite Property No.		

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LJR5		W	12-17-06	1224	1x20-mL P	Activity Scan	None
B1LJR5		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LJR5		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1LJR5		W			1x500-mL G/P	UTOT_KPA: Uranium (1) 12-11-06 DF	HNO3 to pH <2
						JLXJ8	

Relinquished By E.P. CONNOLLY	Print OS	Sign <i>[Signature]</i>	Date/Time DEC 19 2006	Received By J. Smith	Print J. Smith	Sign <i>[Signature]</i>	Date/Time DEC 19 2006	Matrix *
Relinquished By	Date/Time	Received By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time	<ul style="list-style-type: none"> S = Soil SE = Sediment SO = Solid SI = Sludge W = Water O = Oil A = Air DS = Drum Solid DI = Drum Liquid 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	
Relinquished By	Date/Time	Received By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time	
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)			Disposed By			Date/Time	



STL

Sample Check-in List

Date/Time Received: 12.19.06 1455

Client: POW SDG #: W05079 NA SAF #: A07-012 NA

Work Order Number: JGL 210.110 Chain of Custody # A07-012-6, 5, 4

Shipping Container ID: SAWS 115 ^{Sics 12/26/06} ~~NA 115~~ Air Bill # W10

- 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 _____ hazard labels
_____ custody seals _____ appropriate samples labels
- 9. Samples are: _____ in good condition _____ leaking
_____ broken _____ 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 note
- 13. Description of anomalies (include sample numbers): dates on COC A07-012-5
Sics 12/26/06 A07-012-4

Sample Custodian: S. Smith Date: 12.19.06 1455

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on 12/27/06 by EMAIL Person contacted DOT STEWART

No action necessary; process as is.

Project Manager: Suzanna Segur Date: 12/27/06

PNNL *J6L210114*
W05079
due 02-02-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
W07-012-158
 Page 1 of 1

Collector D. P. CONNOLLY	Contact/Requester Dot Stewart	Telephone No. 509-376-5056
SAF No. W07-012	Sampling Origin Hanford Site	MSIN FAX
Project Title RCRA, DECEMBER 2006	Ice Chest No. <i>SAWS-115</i>	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
B1LHX7		W	<i>12-19-06</i>	<i>0958</i>	1x20-mL P	Activity Scan	None
B1LHX7		W	<i>↓</i>	<i>↓</i>	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LHX7		W	<i>↓</i>	<i>↓</i>	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1LHX7		W	<i>↓</i>	<i>↓</i>	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1LHX7		W	<i>↓</i>	<i>↓</i>	1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
<i>JLXKL</i>							

Relinquished By D. P. CONNOLLY <i>09</i>	Print	Sign	Date/Time DEC 19 2006	1455	Received By <i>S. Smith</i>	Print	Sign	Date/Time DEC 19 2006	1455	Matrix *
Relinquished By	Date/Time	Received By	Date/Time		Received By	Date/Time				S = Soil DS = Drum Solid SE = Sediment DI = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By	Date/Time	Received By	Date/Time		Received By	Date/Time				
Relinquished By	Date/Time	Received By	Date/Time		Received By	Date/Time				
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)						Disposed By		Date/Time	



STL

Sample Check-in List

Date/Time Received: 12.19.06 1455

Client: P6W SDG #: W05079 NA [] SAF #: W07-012 NA []

Work Order Number: VL210114 Chain of Custody # W07-012-158

Shipping Container ID: SAWS-115 Air Bill # N/A

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): N/A

Sample Custodian: S. Smith Date: 12.19.06 1455

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____



STL

Sample Check-in List

Date/Time Received: 12-19-06 1455

Client: PGW SDG #: W05079 NA [] SAF #: 807-012 NA []

Work Order Number: UGL210119 Chain of Custody # 807-012-78,79,54,86

Shipping Container ID: SAWS-115 Air Bill # N/A

- 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 T 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): N/A

Sample Custodian: S. Smith Date: 12-19-06 1455

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____