

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: 34470

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05086	S07-012	B1LCB9	J6L280215-1	JL73T2AA	9JL73T20	7037238
		B1LD25	J6L280215-2	JL74P2AA	9JL74P20	7037238
		B1LCC3	J6L280215-3	JL74Q1AA	9JL74Q10	7002207
		B1LCC3	J6L280215-3	JL74Q2AA	9JL74Q20	7002207
		B1LCC3	J6L280215-3	JL74Q2AC	9JL74Q20	7037238
		B1LCR6	J6L280215-4	JL75F1AA	9JL75F10	7002207
		B1LCC4	J6L280215-5	JL75J1AA	9JL75J10	7002207
	W07-012	B1LCC4	J6L280215-5	JL75J2AC	9JL75J20	7037238
		B1LJ33	J6L280248-1	JL8AR1AA	9JL8AR10	7002216
		B1LJ33	J6L280248-1	JL8AR1AC	9JL8AR10	7002211
		B1LJ33	J6L280248-1	JL8AR1AD	9JL8AR10	7002195
		B1LJ33	J6L280248-1	JL8AR2AE	9JL8AR20	7037238
		B1LJ21	J6L280248-2	JL8C81AA	9JL8C810	7002216
		B1LJ21	J6L280248-2	JL8C81AC	9JL8C810	7002211
B1LJ21	J6L280248-2	JL8C81AD	9JL8C810	7002195		

Comments:

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SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05086	W07-012	B1LJ21	J6L280248-2	JL8C82AE	9JL8C820	7037238
		B1LHT1	J6L280248-3	JL8DA1AA	9JL8DA10	7002216
		B1LHT1	J6L280248-3	JL8DA1AC	9JL8DA10	7002211
		B1LHT1	J6L280248-3	JL8DA1AD	9JL8DA10	7002195
		B1LHT1	J6L280248-3	JL8DA2AE	9JL8DA20	7037238
		B1LHW5	J6L280254-1	JL8DG1AA	9JL8DG10	7002216
		B1LHW5	J6L280254-1	JL8DG1AC	9JL8DG10	7002211
		B1LHW5	J6L280254-1	JL8DG1AD	9JL8DG10	7002195
		B1LHW5	J6L280254-1	JL8DG2AE	9JL8DG20	7037238
		B1LJ11	J6L280254-2	JL8DQ1AA	9JL8DQ10	7002216
	B1LJ11	J6L280254-2	JL8DQ1AC	9JL8DQ10	7002211	
	B1LJ11	J6L280254-2	JL8DQ1AD	9JL8DQ10	7002195	
	B1LJ11	J6L280254-2	JL8DQ2AE	9JL8DQ20	7037238	
	A07-012	B1LJR3	J6L280259-1	JL8EA1AA	9JL8EA10	7002199
	S07-012	B1LC22	J6L280266-1	JL8E91AA	9JL8E910	7002211
		B1LC22	J6L280266-1	JL8E91AC	9JL8E910	7002208
		B1LC22	J6L280266-1	JL8E91AD	9JL8E910	7002206
		B1LC22	J6L280266-1	JL8E91AE	9JL8E910	7002197
		B1LC22	J6L280266-1	JL8E91AF	9JL8E910	7002195
	S07-010	B1KPX9	J6L280271-1	JL8F91AA	9JL8F910	7002201
I07-002	B1KM51	J6L280272-1	JL8GA1AA	9JL8GA10	7002210	
G07-012	B1LJV5	J6L290139-1	JL8TD1AA	9JL8TD10	7002199	
	B1LJV5	J6L290139-1	JL8TD1AC	9JL8TD10	7002215	
	B1LJV5	J6L290139-1	JL8TD1AD	9JL8TD10	7002216	
	B1LJV5	J6L290139-1	JL8TD1AE	9JL8TD10	7002211	
	B1LJV5	J6L290139-1	JL8TD1AF	9JL8TD10	7002197	

Comments:

Report Nbr: 34470

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05086	G07-012	B1LJV0	J6L290139-2	JL8TQ1AA	9JL8TQ10	7002199
		B1LJV0	J6L290139-2	JL8TQ1AC	9JL8TQ10	7002215
		B1LJV0	J6L290139-2	JL8TQ1AE	9JL8TQ10	7002211
		B1LJV0	J6L290139-2	JL8TQ1AF	9JL8TQ10	7002197
		B1LJV0	J6L290139-2	JL8TQ2AD	9JL8TQ20	7002216
	I07-009	B1L212	J6L290145-1	JL8V71AA	9JL8V710	7002208
		B1L212	J6L290145-1	JL8V71AC	9JL8V710	7002195
	W07-012	B1LJF1	J6L290147-1	JL8W31AA	9JL8W310	7002195
		B1LJB3	J6L290147-2	JL8W41AA	9JL8W410	7002195

Comments:

STL Richland
2800 George Washington Way
Richland, WA 99354

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Certificate of Analysis

Pacific Northwest National Laboratories
Sigma V Building
Richland, WA 99352

February 12, 2007

Attention: Dot Stewart

SAF Number : S07-012, W07-012, A07-012, S07-010, I07-002,
G07-012, I07-009,
Date SDG Closed : December 28, 2006
Number of Samples : Nineteen (19)
Sample Type : Water
SDG Number : W05086
Data Deliverable : 45-Day / Summary

CASE NARRATIVE

I. Introduction

Between December 22, 2006 and December 28, 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>
B1LCB9	JL73T	12/22/06	WATER
B1LD25	JL74P	12/22/06	WATER
B1LCC3	JL74Q	12/22/06	WATER
B1LCR9	JL75F	12/22/06	WATER
B1LCC4	JL75J	12/22/06	WATER
B1LHT1	JL8DA	12/22/06	WATER
B1LJ21	JL8C8	12/22/06	WATER
B1LJ33	JL8AR	12/22/06	WATER
B1LJ11	JL8DQ	12/22/06	WATER
B1LHW5	JL8DG	12/22/06	WATER
B1LJR3	JL8EA	12/22/06	WATER
B1LC22	JL8E9	12/22/06	WATER
B1KPX9	JL8F9	12/22/06	WATER
B1KM51	JL8GA	12/22/06	WATER

B1LJV0	JL8TQ	12/27/06	WATER
B1LJV5	JL8TD	12/27/06	WATER
B1L212	JL8V7	12/27/06	WATER
B1LJB3	JL8W4	12/28/06	WATER
B1LJF1	JL8W3	12/28/06	WATER

II. Sample Receipt

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

III. Analytical Results/Methodology

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

The requested analyses were:

Alpha Spectroscopy

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

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

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014

Gross Beta by method RICH-RC-5014

Strontium-90 by method RICH-RC-5006

Gamma Spectroscopy

Gamma Spec by method RICH-RC-5017

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

Carbon-14 by method RICH-RC-5022

Laser Induced Phosphorimetry

Total Uranium by method RICH-RC-5058

IV. Quality Control

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

QC and sample results are reported in the same units.

V. Comments

Alpha Spectroscopy

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

The LCS, batch blank, samples and sample duplicate (B1LC22) results are within contractual requirements.

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

The duplicate was not within acceptable limits. Other than as noted, the LCS, batch blank, samples and sample duplicate (B1H1X9) results are within contractual requirements.

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:

The LCS, batch blank, samples and sample duplicate (B1LJV0) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:

On the first count the duplicates were out. They were recounted with good results. Sample B1LJV0 has a slightly elevated result due to reduced aliquot size based on weight screens. The detected activities exceed the achieved MDAs. The LCS, batch blank, samples and sample duplicate (B1LJV0) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006

The LCS, batch blank, samples and sample duplicate (B1LC22) results are within contractual requirements.

Gamma Spectroscopy

Gamma Spec by method RICH-RC-5017:

The LCS, batch blank, samples and sample duplicate (B1LJV5) results are within contractual requirements.

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

There was insufficient sample for duplicate analysis. The sample was counted on a different detector for a replicate. Except as noted, the LCS, batch blank, samples and sample duplicate (B1KM51) results are within contractual requirements.

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

The LCS, batch blank, samples and sample duplicate (B1L212) results are within contractual requirements.

Liquid Scintillation Counting

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

The LCS, batch blank, samples, sample duplicate (B1LJF1), and sample matrix spike (B1LJB3) results are within contractual requirements.

Tritium by method RICH-RC-5007:

The LCS, batch blank, samples and sample duplicate (B1LJR3) results are within contractual requirements.

Pacific Northwest National Laboratories
February 12, 2007

Carbon-14 by method RICH-RC-5022:

The LCS, batch blank, samples and sample duplicate (B1KPX9) results are within contractual requirements.

Total Uranium

Total Uranium by method RICH-RC-5058:

The LCS, batch blank, samples, sample duplicate (B1LJ33), and sample matrix spike (B1LJ21) 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%. $Lc = (1.645 * \text{Sqrt}(2 * (\text{BkgrndCnt} / \text{BkgrndCntMin}) / \text{SCntMin})) * (\text{ConvFct} / (\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol}) * \text{IngrFct})$. 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%. $MDC = (4.65 * \text{Sqrt}((\text{BkgrndCnt} / \text{BkgrndCntMin}) / \text{SCntMin}) + 2.71 / \text{SCntMin}) * (\text{ConvFct} / (\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol}) * \text{IngrFct})$. 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.

STL Richland Report

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34470 File Name: h:\Reportdb\edd\FeadIV\Rad\W05086.Edd, h:\Reportdb\edd\FeadIV\Rad\34470.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:				
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Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7037238	Uranium	7440-61-1	7.54E+00	ug/L	8.9E-01	8.9E-01		8.32E-02		UTOT_KPA	2.52E-02	ML	02/06/2007 12:21	I
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JL74P20	B1LD25		MW6-SBB-A1	S07-012	W05086					12/22/2006 12:51				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7037238	Uranium	7440-61-1	9.46E+01	ug/L	1.1E+01	1.1E+01		8.15E-02		UTOT_KPA	2.57E-02	ML	02/06/2007 12:22	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:				
9JL74Q10	B1LCC3		MW6-SBB-A1	S07-012	W05086					12/22/2006 09:02				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7002207	U-235	15117-96-1	2.72E-01	pCi/L	1.8E-01	1.9E-01		1.45E-01	103.0	UIISO_PLATE_AEA	1.997E-01	L	01/23/2007 16:00	I
7002207	U-238	U-238	8.72E+00	pCi/L	1.0E+00	1.8E+00		1.91E-01	103.0	UIISO_PLATE_AEA	1.997E-01	L	01/23/2007 16:00	I
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JL74Q20	B1LCC3		MW6-SBB-A1	S07-012	W05086					12/22/2006 09:02				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7002207	U-234	13966-29-5	9.96E+00	pCi/L	1.1E+00	2.0E+00		1.78E-01	97.3	UIISO_PLATE_AEA	1.997E-01	L	01/24/2007 19:17	I
7002207	U-235	15117-96-1	3.15E-01	pCi/L	2.0E-01	2.1E-01		1.51E-01	97.3	UIISO_PLATE_AEA	1.997E-01	L	01/24/2007 19:17	I
7002207	U-238	U-238	9.59E+00	pCi/L	1.1E+00	1.9E+00		1.51E-01	97.3	UIISO_PLATE_AEA	1.997E-01	L	01/24/2007 19:17	I
7037238	Uranium	7440-61-1	2.96E+01	ug/L	3.5E+00	3.5E+00		7.79E-02		UTOT_KPA	2.69E-02	ML	02/06/2007 12:24	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:				
9JL75F10	B1LCR6		MW6-SBB-A1	S07-012	W05086					12/22/2006 09:42				
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7002207	U-234	13966-29-5	2.95E+01	pCi/L	1.9E+00	5.2E+00		1.73E-01	101.0	UIISO_PLATE_AEA	2.008E-01	L	01/23/2007 16:00	I
7002207	U-235	15117-96-1	1.04E+00	pCi/L	3.6E-01	4.0E-01		1.46E-01	101.0	UIISO_PLATE_AEA	2.008E-01	L	01/23/2007 16:00	I
7002207	U-238	U-238	2.61E+01	pCi/L	1.8E+00	4.6E+00		1.46E-01	101.0	UIISO_PLATE_AEA	2.008E-01	L	01/23/2007 16:00	I
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JL75J10	B1LCC4		MW6-SBB-A1	S07-012	W05086					12/22/2006 07:00				

2/12/2007 2:32:35 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34470 File Name: h:\Reportdb\edd\Fead\Rad\W05086.Edd, h:\Reportdb\edd\Fead\Rad\34470.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7002207	U-234	13966-29-5	-1.31E-02	pCi/L	6.8E-02	6.8E-02	U	1.85E-01	93.2	UIISO_PLATE_AEA	1.999E-01	L	01/23/2007 16:00	I
7002207	U-235	15117-96-1	0.00E+00	pCi/L	6.7E-02	6.7E-02	U	1.57E-01	93.2	UIISO_PLATE_AEA	1.999E-01	L	01/23/2007 16:00	I
7002207	U-238	U-238	-1.31E-02	pCi/L	6.8E-02	6.8E-02	U	1.85E-01	93.2	UIISO_PLATE_AEA	1.999E-01	L	01/23/2007 16:00	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JL75J20	B1LCC4		MW6-SBB-A1	S07-012	W05086					12/22/2006 07:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7037238	Uranium	7440-61-1	-3.79E-03	ug/L	4.3E-04	4.3E-04	U	8.28E-02		UTOT_KPA	2.53E-02	ML	02/06/2007 12:26	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JL8AR10	B1LJ33		MW6-SBB-A1	W07-012	W05086					12/22/2006 10:29

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7002216	BETA	12587-47-2	4.36E+01	pCi/L	3.3E+00	6.5E+00		3.05E+00	100.0	9310_ALPHABETA	2.002E-01	L	01/26/2007 17:26	I
7002211	BE-7	13966-02-4	-1.21E+01	pCi/L	2.6E+01	2.6E+01	U	4.39E+01		GAMMALL_GS	2.0018E+00	L	01/24/2007 16:51	I
7002211	CO-60	10198-40-0	1.59E+00	pCi/L	2.4E+00	2.4E+00	U	5.37E+00		GAMMALL_GS	2.0018E+00	L	01/24/2007 16:51	I
7002211	CS-134	13967-70-9	6.67E-01	pCi/L	2.3E+00	2.3E+00	U	4.50E+00		GAMMALL_GS	2.0018E+00	L	01/24/2007 16:51	I
7002211	CS-137	10045-97-3	-1.96E-01	pCi/L	2.3E+00	2.3E+00	U	4.12E+00		GAMMALL_GS	2.0018E+00	L	01/24/2007 16:51	I
7002211	EU-152	14683-23-9	2.09E+00	pCi/L	5.5E+00	5.5E+00	U	1.04E+01		GAMMALL_GS	2.0018E+00	L	01/24/2007 16:51	I
7002211	EU-154	15585-10-1	4.21E+00	pCi/L	6.5E+00	6.5E+00	U	1.43E+01		GAMMALL_GS	2.0018E+00	L	01/24/2007 16:51	I
7002211	EU-155	14391-16-3	1.62E+00	pCi/L	5.2E+00	5.2E+00	U	9.64E+00		GAMMALL_GS	2.0018E+00	L	01/24/2007 16:51	I
7002211	K-40	13966-00-2	-7.99E+01	pCi/L	5.3E+01	5.3E+01	U	1.10E+02		GAMMALL_GS	2.0018E+00	L	01/24/2007 16:51	I
7002211	RU-106	13967-48-1	-7.67E+00	pCi/L	1.8E+01	1.8E+01	U	3.13E+01		GAMMALL_GS	2.0018E+00	L	01/24/2007 16:51	I
7002211	SB-125	14234-35-6	-1.83E+00	pCi/L	5.9E+00	5.9E+00	U	1.02E+01		GAMMALL_GS	2.0018E+00	L	01/24/2007 16:51	I
7002195	TC-99	14133-76-7	2.14E+03	pCi/L	2.5E+01	1.3E+02		1.00E+01	100.0	TC99_ETVDSK_LS	1.252E-01	L	01/19/2007 01:02	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:
9JL8AR20	B1LJ33		MW6-SBB-A1	W07-012	W05086					12/22/2006 10:29

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7037238	Uranium	7440-61-1	2.44E+00	ug/L	2.5E-01	2.5E-01		8.12E-02		UTOT_KPA	2.58E-02	ML	02/06/2007 12:30	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JL8C810	B1LJ21		MW6-SBB-A1	W07-012	W05086					12/22/2006 12:49

STL Richland

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.

2

rptFeadRadSummaryEdd v3.48

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: 34470 File Name: h:\Reportdb\edd\FeadIV\Rad\W05086.Edd, h:\Reportdb\edd\FeadIV\Rad\34470.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7002216	BETA	12587-47-2	5.03E+02	pCi/L	1.0E+01	6.5E+01		2.81E+00	100.0	9310_ALPHABETA	2.00E-01	L	01/26/2007 17:26	I
7002211	BE-7	13966-02-4	1.06E+01	pCi/L	2.4E+01	2.4E+01	U	4.58E+01		GAMMALL_GS	2.0007E+00	L	01/24/2007 16:52	I
7002211	CO-60	10198-40-0	-4.43E-01	pCi/L	2.4E+00	2.4E+00	U	4.57E+00		GAMMALL_GS	2.0007E+00	L	01/24/2007 16:52	I
7002211	CS-134	13967-70-9	8.50E-01	pCi/L	2.3E+00	2.3E+00	U	4.75E+00		GAMMALL_GS	2.0007E+00	L	01/24/2007 16:52	I
7002211	CS-137	10045-97-3	5.41E-01	pCi/L	2.2E+00	2.2E+00	U	4.33E+00		GAMMALL_GS	2.0007E+00	L	01/24/2007 16:52	I
7002211	EU-152	14683-23-9	-1.51E+00	pCi/L	5.4E+00	5.4E+00	U	9.70E+00		GAMMALL_GS	2.0007E+00	L	01/24/2007 16:52	I
7002211	EU-154	15585-10-1	1.38E+00	pCi/L	6.6E+00	6.6E+00	U	1.35E+01		GAMMALL_GS	2.0007E+00	L	01/24/2007 16:52	I
7002211	EU-155	14391-16-3	-2.64E+00	pCi/L	4.2E+00	4.2E+00	U	7.20E+00		GAMMALL_GS	2.0007E+00	L	01/24/2007 16:52	I
7002211	K-40	13966-00-2	-6.18E+01	pCi/L	4.1E+01	4.1E+01	U	8.73E+01		GAMMALL_GS	2.0007E+00	L	01/24/2007 16:52	I
7002211	RU-106	13967-48-1	7.11E+00	pCi/L	2.1E+01	2.1E+01	U	4.05E+01		GAMMALL_GS	2.0007E+00	L	01/24/2007 16:52	I
7002211	SB-125	14234-35-6	4.13E+00	pCi/L	4.9E+00	4.9E+00	U	1.01E+01		GAMMALL_GS	2.0007E+00	L	01/24/2007 16:52	I
7002195	TC-99	14133-76-7	1.45E+02	pCi/L	7.7E+00	1.4E+01		1.00E+01	100.0	TC99_ETVDSK_LS	1.262E-01	L	01/19/2007 02:04	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JL8C820	B1LJ21		MW6-SBB-A1	W07-012	W05086					12/22/2006 12:49

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7037238	Uranium	7440-61-1	3.13E+00	ug/L	3.2E-01	3.2E-01		8.32E-02		UTOT_KPA	2.52E-02	ML	02/06/2007 12:34	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:
9JL8DA10	B1LHT1		MW6-SBB-A1	W07-012	W05086					12/22/2006 11:44

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7002216	BETA	12587-47-2	6.32E+01	pCi/L	3.9E+00	8.9E+00		2.80E+00	100.0	9310_ALPHABETA	2.017E-01	L	01/26/2007 17:26	I
7002211	BE-7	13966-02-4	2.83E+01	pCi/L	2.5E+01	2.5E+01	U	5.20E+01		GAMMALL_GS	2.0036E+00	L	01/24/2007 18:36	I
7002211	CO-60	10198-40-0	-3.40E-01	pCi/L	2.8E+00	2.8E+00	U	5.21E+00		GAMMALL_GS	2.0036E+00	L	01/24/2007 18:36	I
7002211	CS-134	13967-70-9	1.84E+00	pCi/L	2.4E+00	2.4E+00	U	4.92E+00		GAMMALL_GS	2.0036E+00	L	01/24/2007 18:36	I
7002211	CS-137	10045-97-3	-3.06E-01	pCi/L	2.5E+00	2.5E+00	U	4.50E+00		GAMMALL_GS	2.0036E+00	L	01/24/2007 18:36	I
7002211	EU-152	14683-23-9	-1.89E+00	pCi/L	5.7E+00	5.7E+00	U	9.81E+00		GAMMALL_GS	2.0036E+00	L	01/24/2007 18:36	I
7002211	EU-154	15585-10-1	2.27E+00	pCi/L	8.3E+00	8.3E+00	U	1.63E+01		GAMMALL_GS	2.0036E+00	L	01/24/2007 18:36	I
7002211	EU-155	14391-16-3	-1.74E+00	pCi/L	3.5E+00	3.5E+00	U	6.00E+00		GAMMALL_GS	2.0036E+00	L	01/24/2007 18:36	I
7002211	K-40	13966-00-2	-3.36E+01	pCi/L	4.6E+01	4.6E+01	U	1.01E+02		GAMMALL_GS	2.0036E+00	L	01/24/2007 18:36	I
7002211	RU-106	13967-48-1	-8.33E+00	pCi/L	2.1E+01	2.1E+01	U	3.60E+01		GAMMALL_GS	2.0036E+00	L	01/24/2007 18:36	I
7002211	SB-125	14234-35-6	5.41E-01	pCi/L	4.4E+00	4.4E+00	U	8.29E+00		GAMMALL_GS	2.0036E+00	L	01/24/2007 18:36	I

2/12/2007 2:32:35 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34470 File Name: h:\Reportdb\edd\FeadIV\Rad\W05086.Edd, h:\Reportdb\edd\FeadIV\Rad\34470.Edd

7002195 TC-99 14133-76-7 2.13E+02 pCi/L 8.9E+00 1.8E+01 1.00E+01 100.0 TC99_ETVDSK_LS 1.256E-01 L 01/19/2007 03:07 I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JL8DA20	B1LHT1		MW6-SBB-A1	W07-012	W05086					12/22/2006 11:44				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7037238	Uranium	7440-61-1	3.18E+00	ug/L	3.3E-01	3.3E-01		8.38E-02		UTOT_KPA	2.50E-02	ML	02/06/2007 12:38	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:				
9JL8DG10	B1LHW5		MW6-SBB-A1	W07-012	W05086					12/22/2006 11:08				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7002216	BETA	12587-47-2	1.18E+03	pCi/L	1.6E+01	1.5E+02		2.72E+00	100.0	9310_ALPHABETA	1.99E-01	L	01/26/2007 17:26	I
7002211	BE-7	13966-02-4	1.08E+01	pCi/L	2.0E+01	2.0E+01	U	4.02E+01		GAMMALL_GS	2.0046E+00	L	01/24/2007 18:36	I
7002211	CO-60	10198-40-0	1.63E+00	pCi/L	2.1E+00	2.1E+00	U	4.76E+00		GAMMALL_GS	2.0046E+00	L	01/24/2007 18:36	I
7002211	CS-134	13967-70-9	-6.67E-01	pCi/L	1.8E+00	1.8E+00	U	3.26E+00		GAMMALL_GS	2.0046E+00	L	01/24/2007 18:36	I
7002211	CS-137	10045-97-3	0.00E+00	pCi/L	0.0E+00	0.0E+00	U	3.79E+00		GAMMALL_GS	2.0046E+00	L	01/24/2007 18:36	I
7002211	EU-152	14683-23-9	7.34E-01	pCi/L	4.5E+00	4.5E+00	U	8.36E+00		GAMMALL_GS	2.0046E+00	L	01/24/2007 18:36	I
7002211	EU-154	15585-10-1	2.10E+00	pCi/L	5.3E+00	5.3E+00	U	1.16E+01		GAMMALL_GS	2.0046E+00	L	01/24/2007 18:36	I
7002211	EU-155	14391-16-3	-1.79E-01	pCi/L	3.8E+00	3.8E+00	U	6.74E+00		GAMMALL_GS	2.0046E+00	L	01/24/2007 18:36	I
7002211	K-40	13966-00-2	-4.42E+00	pCi/L	2.4E+01	2.4E+01	U	5.35E+01		GAMMALL_GS	2.0046E+00	L	01/24/2007 18:36	I
7002211	RU-106	13967-48-1	-9.88E+00	pCi/L	2.0E+01	2.0E+01	U	3.46E+01		GAMMALL_GS	2.0046E+00	L	01/24/2007 18:36	I
7002211	SB-125	14234-35-6	-7.90E-01	pCi/L	4.7E+00	4.7E+00	U	8.39E+00		GAMMALL_GS	2.0046E+00	L	01/24/2007 18:36	I
7002195	TC-99	14133-76-7	4.84E+03	pCi/L	3.8E+01	3.0E+02		9.99E+00	100.0	TC99_ETVDSK_LS	1.257E-01	L	01/19/2007 04:09	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:				
9JL8DG20	B1LHW5		MW6-SBB-A1	W07-012	W05086					12/22/2006 11:08				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7037238	Uranium	7440-61-1	2.21E+00	ug/L	2.3E-01	2.3E-01		8.22E-02		UTOT_KPA	2.55E-02	ML	02/06/2007 12:39	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JL8DQ10	B1LJ11		MW6-SBB-A1	W07-012	W05086					12/22/2006 12:06				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7002216	BETA	12587-47-2	2.08E+01	pCi/L	2.5E+00	3.6E+00		2.75E+00	100.0	9310_ALPHABETA	1.998E-01	L	01/26/2007 17:26	I
7002211	BE-7	13966-02-4	1.69E+01	pCi/L	2.5E+01	2.5E+01	U	4.95E+01		GAMMALL_GS	2.0009E+00	L	01/24/2007 18:37	I
7002211	CO-60	10198-40-0	1.77E+00	pCi/L	2.2E+00	2.2E+00	U	5.08E+00		GAMMALL_GS	2.0009E+00	L	01/24/2007 18:37	I

STL Richland

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.

rptFeadRadSummaryEdd v3.48

2/12/2007 2:32:35 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34470 File Name: h:\Reportdb\edd\Fead\IVRad\W05086.Edd, h:\Reportdb\edd\Fead\IVRad\34470.Edd

7002211	CS-134	13967-70-9	-1.22E+00	pCi/L	2.6E+00	2.6E+00	U	4.53E+00	GAMMALL_GS	2.0009E+00	L	01/24/2007	18:37	I	
7002211	CS-137	10045-97-3	1.46E+00	pCi/L	2.1E+00	2.1E+00	U	4.29E+00	GAMMALL_GS	2.0009E+00	L	01/24/2007	18:37	I	
7002211	EU-152	14683-23-9	2.82E+00	pCi/L	5.5E+00	5.5E+00	U	1.06E+01	GAMMALL_GS	2.0009E+00	L	01/24/2007	18:37	I	
7002211	EU-154	15585-10-1	-2.57E+00	pCi/L	7.3E+00	7.3E+00	U	1.33E+01	GAMMALL_GS	2.0009E+00	L	01/24/2007	18:37	I	
7002211	EU-155	14391-16-3	5.97E-02	pCi/L	5.0E+00	5.0E+00	U	9.02E+00	GAMMALL_GS	2.0009E+00	L	01/24/2007	18:37	I	
7002211	K-40	13966-00-2	-5.24E+01	pCi/L	5.5E+01	5.5E+01	U	1.18E+02	GAMMALL_GS	2.0009E+00	L	01/24/2007	18:37	I	
7002211	RU-106	13967-48-1	-1.13E+01	pCi/L	2.1E+01	2.1E+01	U	3.48E+01	GAMMALL_GS	2.0009E+00	L	01/24/2007	18:37	I	
7002211	SB-125	14234-35-6	3.53E+00	pCi/L	5.4E+00	5.4E+00	U	1.05E+01	GAMMALL_GS	2.0009E+00	L	01/24/2007	18:37	I	
7002195	TC-99	14133-76-7	3.87E+01	pCi/L	5.3E+00	7.9E+00		9.99E+00	100.0	TC99_ETVDSK_LS	1.262E-01	L	01/19/2007	05:12	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:				
9JL8DQ20	B1LJ11		MW6-SBB-A1	W07-012	W05086					12/22/2006 12:06				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7037238	Uranium	7440-61-1	3.03E+00	ug/L	3.1E-01	3.1E-01		7.82E-02		UTOT_KPA	2.68E-02	ML	02/06/2007 12:41	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:				
9JL8E910	B1LC22		MW6-SBB-A1	S07-012	W05086					12/22/2006 10:45				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7002211	BE-7	13966-02-4	-3.08E+00	pCi/L	2.3E+01	2.3E+01	U	4.08E+01		GAMMALL_GS	2.0043E+00	L	01/24/2007 18:37	I
7002211	CO-60	10198-40-0	-1.11E+00	pCi/L	2.4E+00	2.4E+00	U	4.22E+00		GAMMALL_GS	2.0043E+00	L	01/24/2007 18:37	I
7002211	CS-134	13967-70-9	-1.58E-01	pCi/L	2.1E+00	2.1E+00	U	4.09E+00		GAMMALL_GS	2.0043E+00	L	01/24/2007 18:37	I
7002211	CS-137	10045-97-3	-1.77E+00	pCi/L	2.2E+00	2.2E+00	U	3.52E+00		GAMMALL_GS	2.0043E+00	L	01/24/2007 18:37	I
7002211	EU-152	14683-23-9	3.62E+00	pCi/L	5.9E+00	5.9E+00	U	1.14E+01		GAMMALL_GS	2.0043E+00	L	01/24/2007 18:37	I
7002211	EU-154	15585-10-1	-6.41E+00	pCi/L	5.5E+00	5.5E+00	U	6.69E+00		GAMMALL_GS	2.0043E+00	L	01/24/2007 18:37	I
7002211	EU-155	14391-16-3	4.66E+00	pCi/L	4.3E+00	4.3E+00	U	8.52E+00		GAMMALL_GS	2.0043E+00	L	01/24/2007 18:37	I
7002211	K-40	13966-00-2	-6.17E+01	pCi/L	4.3E+01	4.3E+01	U	8.96E+01		GAMMALL_GS	2.0043E+00	L	01/24/2007 18:37	I
7002211	RU-106	13967-48-1	-5.48E-01	pCi/L	1.7E+01	1.7E+01	U	3.26E+01		GAMMALL_GS	2.0043E+00	L	01/24/2007 18:37	I
7002211	SB-125	14234-35-6	4.02E-01	pCi/L	4.7E+00	4.7E+00	U	8.79E+00		GAMMALL_GS	2.0043E+00	L	01/24/2007 18:37	I
7002208	I-129L	15046-84-1	1.04E+00	pCi/L	3.0E-01	3.0E-01	U	5.18E-01	98.9	I129LL_SEP_LEPS	3.8942E+00	L	02/01/2007 13:31	I
7002206	PU-238	13981-16-3	-9.32E-03	pCi/L	9.5E-02	9.5E-02	U	2.23E-01	71.6	PUISO_PLATE_AE	2.006E-01	L	01/23/2007 17:57	I
7002206	PU-239	PU-239/240	-1.86E-02	pCi/L	9.7E-02	9.7E-02	U	2.63E-01	71.6	PUISO_PLATE_AE	2.006E-01	L	01/23/2007 17:57	I
7002197	SR-90	10098-97-2	5.31E-01	pCi/L	2.4E-01	2.5E-01		4.30E-01	81.2	SRISO_SEP_PRE	1.0066E+00	L	01/31/2007 06:11	I
7002195	TC-99	14133-76-7	5.01E+01	pCi/L	5.6E+00	8.7E+00		1.00E+01	100.0	TC99_ETVDSK_LS	1.252E-01	L	01/19/2007 06:14	I

STL Richland

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.

rptFeadRadSummaryEdd v3.48

2/12/2007 2:32:35 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34470 File Name: h:\Reportdb\edd\FeadIV\Rad\W05086.Edd, h:\Reportdb\edd\FeadIV\Rad\34470.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:				
9JL8EA10	B1LJR3		MW6-SBB-A1	A07-012	W05086					12/22/2006 10:45				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7002199	H-3	10028-17-8	7.97E+03	pCi/L	3.1E+02	4.5E+02		2.92E+02	100.0	906.0_H3_LSC	5.00E-03	L	01/23/2007 20:25	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JL8F910	B1KPX9		MW6-SBB-A1	S07-010	W05086					12/22/2006 09:38				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7002201	C-14	14762-75-5	1.28E+02	pCi/L	6.6E+00	2.1E+01		8.23E+00	100.0	C14_LSC	2.00E-01	L	01/26/2007 21:01	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:				
9JL8GA10	B1KM51		MW6-SBB-A1	I07-002	W05086					12/22/2006 09:38				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7002210	BE-7	13966-02-4	-1.54E+00	pCi/L	1.8E+01	1.8E+01	U	3.24E+01		GAMMA_GS	2.5013E+00	L	01/24/2007 16:49	I
7002210	CO-60	10198-40-0	-1.95E-02	pCi/L	1.4E+00	1.4E+00	U	2.91E+00		GAMMA_GS	2.5013E+00	L	01/24/2007 16:49	I
7002210	CS-134	13967-70-9	-5.50E-01	pCi/L	2.2E+00	2.2E+00	U	3.94E+00		GAMMA_GS	2.5013E+00	L	01/24/2007 16:49	I
7002210	CS-137	10045-97-3	-2.47E-01	pCi/L	1.7E+00	1.7E+00	U	3.10E+00		GAMMA_GS	2.5013E+00	L	01/24/2007 16:49	I
7002210	EU-152	14683-23-9	1.53E+00	pCi/L	4.2E+00	4.2E+00	U	7.91E+00		GAMMA_GS	2.5013E+00	L	01/24/2007 16:49	I
7002210	EU-154	15585-10-1	4.20E+00	pCi/L	6.5E+00	6.5E+00	U	1.34E+01		GAMMA_GS	2.5013E+00	L	01/24/2007 16:49	I
7002210	EU-155	14391-16-3	-8.42E-01	pCi/L	3.0E+00	3.0E+00	U	5.23E+00		GAMMA_GS	2.5013E+00	L	01/24/2007 16:49	I
7002210	K-40	13966-00-2	-1.80E+01	pCi/L	3.7E+01	3.7E+01	U	8.24E+01		GAMMA_GS	2.5013E+00	L	01/24/2007 16:49	I
7002210	RU-106	13967-48-1	-8.35E+00	pCi/L	1.8E+01	1.8E+01	U	3.10E+01		GAMMA_GS	2.5013E+00	L	01/24/2007 16:49	I
7002210	SB-125	14234-35-6	-2.79E-01	pCi/L	3.8E+00	3.8E+00	U	6.86E+00		GAMMA_GS	2.5013E+00	L	01/24/2007 16:49	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:				
9JL8TD10	B1LJV5		MW6-SBB-A1	G07-012	W05086					12/27/2006 11:43				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7002199	H-3	10028-17-8	1.96E+03	pCi/L	1.9E+02	2.2E+02		2.93E+02	100.0	906.0_H3_LSC	5.00E-03	L	01/23/2007 23:09	I
7002215	ALPHA	12587-46-1	3.81E-01	pCi/L	6.2E-01	6.3E-01	U	1.31E+00	100.0	9310_ALPHABETA	1.997E-01	L	01/26/2007 17:52	I
7002216	BETA	12587-47-2	2.27E+03	pCi/L	2.5E+01	2.9E+02		3.59E+00	100.0	9310_ALPHABETA	1.507E-01	L	01/26/2007 17:26	I
7002211	BE-7	13966-02-4	-2.27E+00	pCi/L	2.5E+01	2.5E+01	U	4.55E+01		GAMMALL_GS	1.9518E+00	L	01/24/2007 18:38	I
7002211	CO-60	10198-40-0	-7.78E-03	pCi/L	2.1E+00	2.1E+00	U	4.28E+00		GAMMALL_GS	1.9518E+00	L	01/24/2007 18:38	I
7002211	CS-134	13967-70-9	1.88E+00	pCi/L	2.5E+00	2.5E+00	U	5.20E+00		GAMMALL_GS	1.9518E+00	L	01/24/2007 18:38	I

2/12/2007 2:32:35 PM

STL Richland Report

Lab Code: STLR

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34470 File Name: h:\Reportdb\edd\FeadIV\Rad\W05086.Edd, h:\Reportdb\edd\FeadIV\Rad\34470.Edd

7002211	CS-137	10045-97-3	2.74E-01	pCi/L	2.6E+00	2.6E+00	U	4.85E+00	GAMMALL_GS	1.9518E+00	L	01/24/2007 18:38	I
7002211	EU-152	14683-23-9	7.46E-01	pCi/L	5.7E+00	5.7E+00	U	1.05E+01	GAMMALL_GS	1.9518E+00	L	01/24/2007 18:38	I
7002211	EU-154	15585-10-1	3.33E+00	pCi/L	7.3E+00	7.3E+00	U	1.54E+01	GAMMALL_GS	1.9518E+00	L	01/24/2007 18:38	I
7002211	EU-155	14391-16-3	-1.19E+00	pCi/L	4.7E+00	4.7E+00	U	8.16E+00	GAMMALL_GS	1.9518E+00	L	01/24/2007 18:38	I
7002211	K-40	13966-00-2	1.34E+01	pCi/L	5.2E+01	5.2E+01	U	4.65E+01	GAMMALL_GS	1.9518E+00	L	01/24/2007 18:38	I
7002211	RU-106	13967-48-1	-7.94E+00	pCi/L	2.2E+01	2.2E+01	U	3.81E+01	GAMMALL_GS	1.9518E+00	L	01/24/2007 18:38	I
7002211	SB-125	14234-35-6	-2.82E-01	pCi/L	5.6E+00	5.6E+00	U	1.01E+01	GAMMALL_GS	1.9518E+00	L	01/24/2007 18:38	I
7002197	SR-90	10098-97-2	1.26E+03	pCi/L	7.6E+00	1.9E+02		5.42E-01 80.8	SRISO_SEP_PRE	9.969E-01	L	01/31/2007 07:43	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:				
9JL8TQ10	B1LJV0		MW6-SBB-A1	G07-012	W05086					12/27/2006 12:41				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7002199	H-3	10028-17-8	2.70E+03	pCi/L	2.1E+02	2.5E+02		2.94E+02	100.0	906.0_H3_LSC	5.00E-03	L	01/24/2007 00:30	I
7002215	ALPHA	12587-46-1	2.10E+00	pCi/L	1.4E+00	1.5E+00		2.08E+00	100.0	9310_ALPHABETA	1.214E-01	L	01/26/2007 19:23	I
7002211	BE-7	13966-02-4	3.44E+00	pCi/L	2.2E+01	2.2E+01	U	4.11E+01		GAMMALL_GS	2.0028E+00	L	01/24/2007 20:23	I
7002211	CO-60	10198-40-0	2.27E-01	pCi/L	2.9E+00	2.9E+00	U	5.57E+00		GAMMALL_GS	2.0028E+00	L	01/24/2007 20:23	I
7002211	CS-134	13967-70-9	7.65E-01	pCi/L	2.6E+00	2.6E+00	U	5.11E+00		GAMMALL_GS	2.0028E+00	L	01/24/2007 20:23	I
7002211	CS-137	10045-97-3	-1.04E+00	pCi/L	2.2E+00	2.2E+00	U	3.75E+00		GAMMALL_GS	2.0028E+00	L	01/24/2007 20:23	I
7002211	EU-152	14683-23-9	2.23E+00	pCi/L	5.1E+00	5.1E+00	U	9.61E+00		GAMMALL_GS	2.0028E+00	L	01/24/2007 20:23	I
7002211	EU-154	15585-10-1	1.23E+00	pCi/L	5.5E+00	5.5E+00	U	1.16E+01		GAMMALL_GS	2.0028E+00	L	01/24/2007 20:23	I
7002211	EU-155	14391-16-3	8.41E-02	pCi/L	3.5E+00	3.5E+00	U	6.30E+00		GAMMALL_GS	2.0028E+00	L	01/24/2007 20:23	I
7002211	K-40	13966-00-2	-2.24E+01	pCi/L	5.1E+01	5.1E+01	U	1.09E+02		GAMMALL_GS	2.0028E+00	L	01/24/2007 20:23	I
7002211	RU-106	13967-48-1	-1.04E+01	pCi/L	2.1E+01	2.1E+01	U	3.68E+01		GAMMALL_GS	2.0028E+00	L	01/24/2007 20:23	I
7002211	SB-125	14234-35-6	-3.87E+00	pCi/L	5.9E+00	5.9E+00	U	9.74E+00		GAMMALL_GS	2.0028E+00	L	01/24/2007 20:23	I
7002197	SR-90	10098-97-2	4.58E+00	pCi/L	4.5E-01	8.2E-01		4.95E-01	77.1	SRISO_SEP_PRE	1.0041E+00	L	01/31/2007 06:11	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JL8TQ20	B1LJV0		MW6-SBB-A1	G07-012	W05086					12/27/2006 12:41				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7002216	BETA	12587-47-2	1.42E+01	pCi/L	2.9E+00	3.4E+00		4.37E+00	100.0	9310_ALPHABETA	1.401E-01	L	01/29/2007 11:29	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:
9JL8V710	B1L212		MW6-SBB-A1	I07-009	W05086					12/27/2006 12:51

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.

2/12/2007 2:32:35 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34470 File Name: h:\Reportdb\edd\FeadIV\Rad\W05086.Edd, h:\Reportdb\edd\FeadIV\Rad\34470.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7002208	I-129L	15046-84-1	-1.06E-01	pCi/L	1.3E-01	1.3E-01	U	1.97E-01	93.2	I129LL_SEP_LEPS	3.9269E+00	L	02/01/2007 13:33	I
7002195	TC-99	14133-76-7	-1.88E+00	pCi/L	4.1E+00	5.5E+00	U	1.00E+01	100.0	TC99_ETVDSK_LS	1.252E-01	L	01/19/2007 07:17	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JL8W310	B1LJF1		MW6-SBB-A1	W07-012	W05086					12/28/2006 10:07

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7002195	TC-99	14133-76-7	1.19E+01	pCi/L	4.5E+00	6.4E+00		1.00E+01	100.0	TC99_ETVDSK_LS	1.255E-01	L	01/19/2007 08:20	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JL8W410	B1LJB3		MW6-SBB-A1	W07-012	W05086					12/28/2006 11:40

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7002195	TC-99	14133-76-7	2.37E+02	pCi/L	9.3E+00	2.0E+01		9.96E+00	100.0	TC99_ETVDSK_LS	1.27E-01	L	01/19/2007 10:25	I

Monday, February 12, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05086.Edd, h:\Reportdb\edd\FeadIV\Rad\34470.Edd

Lab Sample Id: JMAL51AB

Sdg/Rept Nbr: W05086

34470

Collection Date: 12/22/2006 10:45

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 12/22/2006

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
7002206 BLK	PU-238 13981-16-3	0.00E+00	pCi/L	7.1E-02 7.1E-02	U	1.68E-01	95.1		PUISO_PLATE	2.006E-01 L	01/23/2007 17:57				D
7002206 BLK	PU-239 PU-239/240	3.50E-02	pCi/L	7.2E-02 7.1E-02	U	1.67E-01	95.1		PUISO_PLATE	2.006E-01 L	01/23/2007 17:57				D

Monday, February 12, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05086.Edd, h:\Reportdb\edd\FeadIV\Rad\34470.Edd

Lab Sample Id: JMAL61AB

Sdg/Rept Nbr: W05086

34470

Collection Date: 12/22/2006 09:02

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 12/22/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BR	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7002207 BLK	U-234 13966-29-5	2.25E-02	pCi/L	5.7E-02 5.7E-02	U	1.35E-01	97.8		UIISO_PLATE_	2.002E-01 L	01/23/2007 16:00				D
7002207 BLK	U-235 15117-96-1	2.81E-02	pCi/L	5.7E-02 5.7E-02	U	1.35E-01	97.8		UIISO_PLATE_	2.002E-01 L	01/23/2007 16:00				D
7002207 BLK	U-238 U-238	-5.62E-03	pCi/L	5.7E-02 5.7E-02	U	1.35E-01	97.8		UIISO_PLATE_	2.002E-01 L	01/23/2007 16:00				D

Monday, February 12, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05086.Edd, h:\Reportdb\edd\Fead\I\Rad\34470.Edd

Lab Sample Id: JMAL71AB

Sdg/Rept Nbr: W05086

34470

Collection Date: 12/27/2006 12:51

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 12/27/2006

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
7002208 BLK	I-129L 15046-84-1	-5.01E-02	pCi/L	1.2E-01 1.2E-01	U	2.08E-01	99.5		I129LL_SEP_L	4.0074E+00 L	02/01/2007 16:47				D

Monday, February 12, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05086.Edd, h:\Reportdb\edd\Fead\I\Rad\34470.Edd

Lab Sample Id: JMAL91AB

Sdg/Rept Nbr: W05086

34470

Collection Date: 12/22/2006 09:38

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 12/22/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BV	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7002210 BLK	BE-7 13966-02-4	1.86E+00	pCi/L	1.9E+01 1.9E+01	U	3.51E+01			GAMMA_GS	2.5003E+00 L	01/24/2007 16:50				D
7002210 BLK	CO-60 10198-40-0	-2.46E-01	pCi/L	1.7E+00 1.7E+00	U	3.35E+00			GAMMA_GS	2.5003E+00 L	01/24/2007 16:50				D
7002210 BLK	CS-134 13967-70-9	2.75E-01	pCi/L	1.7E+00 1.7E+00	U	3.37E+00			GAMMA_GS	2.5003E+00 L	01/24/2007 16:50				D
7002210 BLK	CS-137 10045-97-3	-2.20E+00	pCi/L	1.9E+00 1.9E+00	U	2.87E+00			GAMMA_GS	2.5003E+00 L	01/24/2007 16:50				D
7002210 BLK	EU-152 14683-23-9	1.15E+00	pCi/L	4.6E+00 4.6E+00	U	8.61E+00			GAMMA_GS	2.5003E+00 L	01/24/2007 16:50				D
7002210 BLK	EU-154 15585-10-1	-1.36E+00	pCi/L	4.4E+00 4.4E+00	U	8.26E+00			GAMMA_GS	2.5003E+00 L	01/24/2007 16:50				D
7002210 BLK	EU-155 14391-16-3	-1.19E-03	pCi/L	3.4E+00 3.4E+00	U	6.07E+00			GAMMA_GS	2.5003E+00 L	01/24/2007 16:50				D
7002210 BLK	K-40 13966-00-2	-2.43E+01	pCi/L	3.5E+01 3.5E+01	U	7.75E+01			GAMMA_GS	2.5003E+00 L	01/24/2007 16:50				D
7002210 BLK	RU-106 13967-48-1	-2.29E+01	pCi/L	1.6E+01 1.6E+01	U	2.21E+01			GAMMA_GS	2.5003E+00 L	01/24/2007 16:50				D
7002210 BLK	SB-125 14234-35-6	3.08E+00	pCi/L	4.8E+00 4.8E+00	U	9.29E+00			GAMMA_GS	2.5003E+00 L	01/24/2007 16:50				D

Monday, February 12, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\Rad\W05086.Edd, h:\Reportdb\edd\Fead\Rad\34470.Edd

Lab Sample Id: JMALJ1AB

Sdg/Rept Nbr: W05086

34470

Collection Date: 12/28/2006 10:07

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 12/28/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BX	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7002195 BLK	TC-99 14133-76-7	1.24E+00	pCi/L	5.7E+00 4.2E+00	U	1.01E+01	100.0		TC99_ETVDSK	1.251E-01 L	01/19/2007 13:32				D

Monday, February 12, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05086.Edd, h:\Reportdb\edd\Fead\I\Rad\34470.Edd

Lab Sample Id: JMALM1AB

Sdg/Rept Nbr: W05086

34470

Collection Date: 12/22/2006 10:45

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 12/22/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BZ	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7002197 BLK	SR-90 10098-97-2	1.20E-01	pCi/L	2.7E-01 2.7E-01	U	5.65E-01	70.7		SRISO_SEP_P	1.0005E+00 L	01/31/2007 06:11				D

Monday, February 12, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05086.Edd, h:\Reportdb\edd\FeadIV\Rad\34470.Edd

Lab Sample Id: JMALP1AB

Sdg/Rept Nbr: W05086 34470

Collection Date: 12/22/2006 10:45

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 12/22/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								CB	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/ L	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7002199 BLK	H-3 10028-17-8	9.16E+01	pCi/L	1.4E+02 1.2E+02	U	2.93E+02	100.0		906.0_H3_LSC	5.00E-03	01/23/2007 14:58				D

Monday, February 12, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05086.Edd, h:\Reportdb\edd\FeadIV\Rad\34470.Edd

Lab Sample Id: JMALP1DX

Sdg/Rept Nbr: W05086 34470

Collection Date: 12/22/2006 10:45

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 12/22/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								CD	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/ L	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7002199 BLK	H-3 10028-17-8	-6.74E+00	pCi/L	1.4E+02 1.2E+02	U	3.00E+02	100.0		906.0_H3_LSC	5.00E-03	01/23/2007 17:42				D

Monday, February 12, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05086.Edd, h:\Reportdb\edd\Fead\I\Rad\34470.Edd

Lab Sample Id: JMALR1AB

Sdg/Rept Nbr: W05086

34470

Collection Date: 12/22/2006 09:38

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 12/22/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType					
	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/ L	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7002201 BLK	C-14 14762-75-5	-1.11E+00	pCi/L	6.7E+00 3.3E+00	U	8.23E+00	100.0		C14_LSC	2.00E-01 L	01/26/2007 19:36				D

Monday, February 12, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\Rad\W05086.Edd, h:\Reportdb\edd\Fead\Rad\34470.Edd

Lab Sample Id: JMAMA1AB

Sdg/Rept Nbr: W05086

34470

Collection Date: 12/27/2006 11:43

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 12/27/2006

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
7002211 BLK	BE-7 13966-02-4	-7.47E+00	pCi/L	2.1E+01 2.1E+01	U	3.61E+01			GAMMALL_GS	2.0022E+00 L	01/24/2007 20:23				D
7002211 BLK	CO-60 10198-40-0	-6.42E-01	pCi/L	2.4E+00 2.4E+00	U	4.54E+00			GAMMALL_GS	2.0022E+00 L	01/24/2007 20:23				D
7002211 BLK	CS-134 13967-70-9	-3.88E-01	pCi/L	2.2E+00 2.2E+00	U	4.08E+00			GAMMALL_GS	2.0022E+00 L	01/24/2007 20:23				D
7002211 BLK	CS-137 10045-97-3	6.74E-01	pCi/L	2.2E+00 2.2E+00	U	4.18E+00			GAMMALL_GS	2.0022E+00 L	01/24/2007 20:23				D
7002211 BLK	EU-152 14683-23-9	-3.39E+00	pCi/L	5.4E+00 5.4E+00	U	9.23E+00			GAMMALL_GS	2.0022E+00 L	01/24/2007 20:23				D
7002211 BLK	EU-154 15585-10-1	-4.30E+00	pCi/L	6.6E+00 6.6E+00	U	1.12E+01			GAMMALL_GS	2.0022E+00 L	01/24/2007 20:23				D
7002211 BLK	EU-155 14391-16-3	-1.81E+00	pCi/L	4.8E+00 4.8E+00	U	8.30E+00			GAMMALL_GS	2.0022E+00 L	01/24/2007 20:23				D
7002211 BLK	K-40 13966-00-2	-6.36E+01	pCi/L	5.5E+01 5.5E+01	U	1.16E+02			GAMMALL_GS	2.0022E+00 L	01/24/2007 20:23				D
7002211 BLK	RU-106 13967-48-1	-1.82E+01	pCi/L	2.1E+01 2.1E+01	U	3.32E+01			GAMMALL_GS	2.0022E+00 L	01/24/2007 20:23				D
7002211 BLK	SB-125 14234-35-6	5.31E+00	pCi/L	5.4E+00 5.4E+00	U	1.09E+01			GAMMALL_GS	2.0022E+00 L	01/24/2007 20:23				D

Monday, February 12, 2007

STL Richland QC Blank Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05086.Edd, h:\Reportdb\edd\FeadIV\Rad\34470.Edd

Lab Sample Id: JMAMH1AB

Sdg/Rept Nbr: W05086

34470

Collection Date: 12/27/2006 12:41

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 12/27/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								CJ	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7002215 BLK	ALPHA 12587-46-1	1.04E-01	pCi/L	1.9E-01 1.9E-01	U	3.84E-01	100.0		9310_ALPHAB	2.025E-01 L	01/26/2007 19:23				D

Monday, February 12, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05086.Edd, h:\Reportdb\edd\Fead\I\Rad\34470.Edd

Lab Sample Id: JMAMJ1AB

Sdg/Rept Nbr: W05086

34470

Collection Date: 12/27/2006 12:41

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 12/27/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								CL	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7002216 BLK	BETA 12587-47-2	2.77E-01	pCi/L	1.1E+00 1.1E+00	U	2.42E+00	100.0		9310_ALPHAB	2.014E-01 L	01/26/2007 17:26				D

Monday, February 12, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\Rad\W05086.Edd, h:\Reportdb\edd\Fead\Rad\34470.Edd

Lab Sample Id: JMAMM2AB

Sdg/Rept Nbr: W05086 34470

Collection Date: 12/22/2006 10:29

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 12/22/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								CN	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/ ML	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7037238 BLK	Uranium 7440-61-1	-1.78E-02	ug/L	3.1E-03 3.1E-03	U	8.03E-02			UTOT_KPA	2.61E-02	02/06/2007 12:11				D

Monday, February 12, 2007

STL Richland QC Control Sample Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05086.Edd, h:\Reportdb\edd\FeadIV\Rad\34470.Edd

Lab Sample Id: JMAL51CS

Sdg/Rept Nbr: W05086

34470

Collection Date: 12/22/2006 10:45

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 12/22/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BQ	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7002206 BS	PU-239 PU-239/240	4.71E+00	pCi/L	1.1E+00 8.0E-01		1.61E-01	98.9	4.54E+00 103.7	PUISO_PLATE	2.013E-01 L	01/23/2007 17:58			70 130	D

Monday, February 12, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\Rad\W05086.Edd, h:\Reportdb\edd\Fead\Rad\34470.Edd

Lab Sample Id: JMAL61CS

Sdg/Rept Nbr: W05086

34470

Collection Date: 12/22/2006 09:02

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 12/22/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BS	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7002207 BS	U-234 13966-29-5	8.62E+00	pCi/L	1.8E+00 1.0E+00		1.51E-01	97.2	8.68E+00 99.4	UIISO_PLATE_	1.996E-01 L	01/23/2007 16:00			70 130	D
7002207 BS	U-238 U-238	9.25E+00	pCi/L	1.9E+00 1.1E+00		1.51E-01	97.2	9.09E+00 101.8	UIISO_PLATE_	1.996E-01 L	01/23/2007 16:00			70 130	D

Monday, February 12, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\IVRad\W05086.Edd, h:\Reportdb\edd\Fead\IVRad\34470.Edd

Lab Sample Id: JMAL71CS

Sdg/Rept Nbr: W05086

34470

Collection Date: 12/27/2006 12:51

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 12/27/2006

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
7002208 BS	I-129L 15046-84-1	7.98E+00	pCi/L	1.1E+00 1.1E+00		4.14E-01	99.6	9.57E+00 83.4	I129LL_SEP_L	3.9958E+00 L	02/01/2007 16:48			70 130	D

Monday, February 12, 2007

STL Richland QC Control Sample Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05086.Edd, h:\Reportdb\edd\FeadIV\Rad\34470.Edd

Lab Sample Id: JMAL91CS

Sdg/Rept Nbr: W05086

34470

Collection Date: 12/22/2006 09:38

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 12/22/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BW	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7002210 BS	CO-60 10198-40-0	2.84E+01	pCi/L	6.0E+00 6.0E+00		3.07E+00		3.09E+01 92.0	GAMMA_GS	2.5003E+00 L	01/24/2007 16:50			70 130	D
7002210 BS	CS-137 10045-97-3	1.66E+01	pCi/L	5.4E+00 5.4E+00		3.51E+00		1.99E+01 83.6	GAMMA_GS	2.5003E+00 L	01/24/2007 16:50			70 130	D
7002210 BS	EU-152 14683-23-9	5.51E+01	pCi/L	1.4E+01 1.4E+01		9.25E+00		6.19E+01 89.0	GAMMA_GS	2.5003E+00 L	01/24/2007 16:50			70 130	D

Monday, February 12, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\Rad\W05086.Edd, h:\Reportdb\edd\Fead\Rad\34470.Edd

Lab Sample Id: JMALJ1CS

Sdg/Rept Nbr: W05086

34470

Collection Date: 12/28/2006 10:07

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 12/28/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BY	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7002195 BS	TC-99 14133-76-7	5.28E+02	pCi/L	3.7E+01 1.3E+01		9.97E+00	100.0	5.29E+02 99.8	TC99_ETVDSK	1.261E-01 L	01/19/2007 14:34			70 130	D

Monday, February 12, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\IVRad\W05086.Edd, h:\Reportdb\edd\Fead\IVRad\34470.Edd

Lab Sample Id: JMALM1CS

Sdg/Rept Nbr: W05086

34470

Collection Date: 12/22/2006 10:45

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 12/22/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								CA	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7002197 BS	SR-90 10098-97-2	1.26E+01	pCi/L	2.0E+00 6.8E-01		4.99E-01	82.7	1.36E+01 92.9	SRISO_SEP_P	9.998E-01 L	01/31/2007 06:11			70 130	D

Monday, February 12, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05086.Edd, h:\Reportdb\edd\FeadIV\Rad\34470.Edd

Lab Sample Id: JMALP1CS

Sdg/Rept Nbr: W05086

34470

Collection Date: 12/22/2006 10:45

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 12/22/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								CC	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7002199 BS	H-3 10028-17-8	2.59E+03	pCi/L	2.4E+02 2.0E+02		2.93E+02	100.0	2.72E+03 95.0	906.0_H3_LSC	5.00E-03 L	01/23/2007 16:20			70 130	D

Monday, February 12, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\Rad\W05086.Edd, h:\Reportdb\edd\Fead\Rad\34470.Edd

Lab Sample Id: JMALP1EM

Sdg/Rept Nbr: W05086

34470

Collection Date: 12/22/2006 10:45

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 12/22/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								CE	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7002199 BS	H-3 10028-17-8	2.60E+03	pCi/L	2.5E+02 2.0E+02		2.99E+02	100.0	2.72E+03 95.5	906.0_H3_LSC	5.00E-03 L	01/23/2007 19:03			70 130	D

Monday, February 12, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05086.Edd, h:\Reportdb\edd\Fead\I\Rad\34470.Edd

Lab Sample Id: JMALR1CS

Sdg/Rept Nbr: W05086

34470

Collection Date: 12/22/2006 09:38

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 12/22/2006

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/ L	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7002201 BS	C-14 14762-75-5	4.20E+01	pCi/L	1.1E+01 4.7E+00		8.23E+00	100.0	4.61E+01 91.0	C14_LSC	2.00E-01 L	01/26/2007 20:19			70 130	D

Monday, February 12, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05086.Edd, h:\Reportdb\edd\FeadIV\Rad\34470.Edd

Lab Sample Id: JMAMA1CS

Sdg/Rept Nbr: W05086

34470

Collection Date: 12/27/2006 11:43

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 12/27/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								CI	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7002211 BS	CO-60 10198-40-0	3.63E+01	pCi/L	9.0E+00 9.0E+00		4.00E+00		3.85E+01 94.3	GAMMALL_GS	2.00E+00 L	01/24/2007 20:24			70 130	D
7002211 BS	CS-137 10045-97-3	2.42E+01	pCi/L	6.4E+00 6.4E+00		4.42E+00		2.49E+01 97.4	GAMMALL_GS	2.00E+00 L	01/24/2007 20:24			70 130	D
7002211 BS	EU-152 14683-23-9	6.88E+01	pCi/L	2.0E+01 2.0E+01	U	2.63E+01		7.70E+01 89.3	GAMMALL_GS	2.00E+00 L	01/24/2007 20:24			70 130	D

Monday, February 12, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05086.Edd, h:\Reportdb\edd\Fead\I\Rad\34470.Edd

Lab Sample Id: JMAMH1CS

Sdg/Rept Nbr: W05086

34470

Collection Date: 12/27/2006 12:41

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 12/27/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								CK	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7002215 BS	ALPHA 12587-46-1	1.97E+01	pCi/L	5.0E+00 2.0E+00		6.52E-01	100.0	2.27E+01 86.8	9310_ALPHAB	2.018E-01 L	01/26/2007 19:23			70 130	D

Monday, February 12, 2007

STL Richland QC Control Sample Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05086.Edd, h:\Reportdb\edd\FeadIV\Rad\34470.Edd

Lab Sample Id: JMAMJ1CS

Sdg/Rept Nbr: W05086

34470

Collection Date: 12/27/2006 12:41

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 12/27/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								CM	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7002216 BS	BETA 12587-47-2	2.18E+01	pCi/L	3.9E+00 2.4E+00		2.53E+00	100.0	2.23E+01 98.0	9310_ALPHAB	2.02E-01 L	01/26/2007 17:26			70 130	D

Monday, February 12, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\eddd\FeadIV\Rad\W05086.Edd, h:\Reportdb\eddd\FeadIV\Rad\34470.Edd

Lab Sample Id: JMAMM2CS

Sdg/Rept Nbr: W05086

34470

Collection Date: 12/22/2006 10:29

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 12/22/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								CO	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/ ML	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7037238 BS	Uranium 7440-61-1	3.40E+01	ug/L	4.0E+00 4.0E+00		8.28E-02		3.57E+01 95.1	UTOT_KPA	2.53E-02	02/06/2007 12:15			70 130	D

Monday, February 12, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05086.Edd, h:\Reportdb\edd\Fead\I\Rad\34470.Edd

Lab Sample Id: JMAMM2DS

Sdg/Rept Nbr: W05086

34470

Collection Date: 12/22/2006 10:29

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 12/22/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								CP	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7037238 BS	Uranium 7440-61-1	3.58E+00	ug/L	3.7E-01 3.7E-01		8.35E-02		3.60E+00 99.3	UTOT_KPA	2.51E-02 ML	02/06/2007 12:17			70 130	D

Monday, February 12, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\Rad\W05086.Edd, h:\Reportdb\edd\Fead\Rad\34470.Edd

Lab Sample Id: JL74Q2DR

Sdg/Rept Nbr: W05086 34470

Collection Date: 12/22/2006 09:02

Client Id: B1LCC3

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 12/22/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
S07-012	MW6-SBB-A19981								BB	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7002207 DUP	U-234 13966-29-5	1.01E+01 9.96E+00	pCi/L	2.0E+00 1.1E+00		1.82E-01	95.0		UIISO_PLATE_	1.999E-01 L	01/24/2007 19:17	1.8 20.0	0.1 3		D
7002207 DUP	U-235 15117-96-1	4.17E-01 3.15E-01	pCi/L	2.4E-01 2.3E-01		1.54E-01	95.0		UIISO_PLATE_	1.999E-01 L	01/24/2007 19:17	27.8 20.0	0.6 3		D
7002207 DUP	U-238 U-238	1.05E+01 9.59E+00	pCi/L	2.1E+00 1.2E+00		1.82E-01	95.0		UIISO_PLATE_	1.999E-01 L	01/24/2007 19:17	9.2 20.0	0.6 3		D

Monday, February 12, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\eddd\Fead\I\Rad\W05086.Edd, h:\Reportdb\eddd\Fead\I\Rad\34470.Edd

Lab Sample Id: JL8AR2FR

Sdg/Rept Nbr: W05086 34470

Collection Date: 12/22/2006 10:29

Client Id: B1LJ33

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 12/22/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
W07-012	MW6-SBB-A19981								BC	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7037238 DUP	Uranium 7440-61-1	2.45E+00 2.44E+00	ug/L	2.5E-01 2.5E-01		8.12E-02			UTOT_KPA	2.58E-02 ML	02/06/2007 12:32	.8 20.0	0.1 3		D

Monday, February 12, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05086.Edd, h:\Reportdb\edd\FeadIV\Rad\34470.Edd

Lab Sample Id: JL8E91GR

Sdg/Rept Nbr: W05086 34470

Collection Date: 12/22/2006 10:45

Client Id: B1LC22

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 12/22/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
S07-012	MW6-SBB-A19981								BE	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7002197	SR-90	5.75E-01	pCi/L	2.6E-01		4.44E-01	86.6		SRISO_SEP_P	1.0052E+00	01/31/2007	7.9	0.2		D
DUP	10098-97-2	5.31E-01		2.5E-01						L	06:11	20.0	3		

Monday, February 12, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\eddd\Fead\I\Rad\W05086.Edd, h:\Reportdb\eddd\Fead\I\Rad\34470.Edd

Lab Sample Id: JL8E91HR

Sdg/Rept Nbr: W05086 34470

Collection Date: 12/22/2006 10:45

Client Id: B1LC22

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 12/22/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
S07-012	MW6-SBB-A19981								BF	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7002206 DUP	PU-238 13981-16-3	-1.22E-02 -9.32E-03	pCi/L	1.2E-01 1.2E-01	U	2.91E-01	57.7		PUISO_PLATE	2.009E-01 L	01/23/2007 17:57	0.0 20.0	0. 3		D
7002206 DUP	PU-239 PU-239/240	-1.22E-02 -1.86E-02	pCi/L	1.2E-01 1.2E-01	U	2.91E-01	57.7		PUISO_PLATE	2.009E-01 L	01/23/2007 17:57	0.0 20.0	0.1 3		D

Monday, February 12, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadI\Rad\W05086.Edd, h:\Reportdb\edd\FeadI\Rad\34470.Edd

Lab Sample Id: JL8EA1CR	Sdg/Rept Nbr: W05086 34470	Collection Date: 12/22/2006 10:45
Client Id: B1LJR3	Matrix: WATER WATER	Sample On Date:
Moisture/Solids%*:	QC Type: DUP	Received Date: 12/22/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
A07-012	MW6-SBB-A19981								BG	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7002199 DUP	H-3 10028-17-8	7.89E+03 7.97E+03	pCi/L	4.5E+02 3.1E+02		2.92E+02	100.0		906.0_H3_LSC	5.00E-03 L	01/23/2007 21:47	1.1 20.0	0.3 3		D

Monday, February 12, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05086.Edd, h:\Reportdb\edd\FeadIV\Rad\34470.Edd

Lab Sample Id: JL8F91CR

Sdg/Rept Nbr: W05086 34470

Collection Date: 12/22/2006 09:38

Client Id: B1KPX9

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 12/22/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
S07-010	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
7002201 DUP	C-14 14762-75-5	1.19E+02 1.28E+02	pCi/L	2.0E+01 6.4E+00		8.23E+00	100.0		C14_LSC	2.00E-01 L	01/26/2007 21:44	7.7 20.0	0.7 3		D

Monday, February 12, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05086.Edd, h:\Reportdb\edd\FeadIV\Rad\34470.Edd

Lab Sample Id: JL8GA1CR

Sdg/Rept Nbr: W05086 34470

Collection Date: 12/22/2006 09:38

Client Id: B1KM51

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 12/22/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
107-002	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
7002210 DUP	BE-7 13966-02-4	-8.72E+00 -1.54E+00	pCi/L	1.8E+01 1.8E+01	U	3.03E+01			GAMMA_GS	2.5013E+00 L	01/24/2007 22:15	0.0 20.0	0.6 3		D
7002210 DUP	CO-60 10198-40-0	-2.02E+00 -1.95E-02	pCi/L	1.9E+00 1.9E+00	U	2.87E+00			GAMMA_GS	2.5013E+00 L	01/24/2007 22:15	0.0 20.0	1.5 3		D
7002210 DUP	CS-134 13967-70-9	-7.21E-02 -5.50E-01	pCi/L	1.4E+00 1.4E+00	U	2.72E+00			GAMMA_GS	2.5013E+00 L	01/24/2007 22:15	0.0 20.0	0.5 3		D
7002210 DUP	CS-137 10045-97-3	1.21E+00 -2.47E-01	pCi/L	1.4E+00 1.4E+00	U	3.04E+00			GAMMA_GS	2.5013E+00 L	01/24/2007 22:15	302.4 20.0	1.5 3		D
7002210 DUP	EU-152 14683-23-9	-2.59E+00 1.53E+00	pCi/L	3.7E+00 3.7E+00	U	6.14E+00			GAMMA_GS	2.5013E+00 L	01/24/2007 22:15	0.0 20.0	1.6 3		D
7002210 DUP	EU-154 15585-10-1	5.82E-01 4.20E+00	pCi/L	3.1E+00 3.1E+00	U	7.09E+00			GAMMA_GS	2.5013E+00 L	01/24/2007 22:15	151.4 20.0	1.6 3		D
7002210 DUP	EU-155 14391-16-3	1.17E+00 -8.42E-01	pCi/L	3.0E+00 3.0E+00	U	5.49E+00			GAMMA_GS	2.5013E+00 L	01/24/2007 22:15	1234.0 20.0	0.9 3		D
7002210 DUP	K-40 13966-00-2	2.06E+01 -1.80E+01	pCi/L	2.5E+01 2.5E+01	U	5.71E+01			GAMMA_GS	2.5013E+00 L	01/24/2007 22:15	2938.8 20.0	2.2 3		D
7002210 DUP	RU-106 13967-48-1	-9.69E+00 -8.35E+00	pCi/L	1.6E+01 1.6E+01	U	2.80E+01			GAMMA_GS	2.5013E+00 L	01/24/2007 22:15	0.0 20.0	0.1 3		D
7002210 DUP	SB-125 14234-35-6	-1.63E+00 -2.79E-01	pCi/L	3.6E+00 3.6E+00	U	6.22E+00			GAMMA_GS	2.5013E+00 L	01/24/2007 22:15	0.0 20.0	0.5 3		D

STL Richland QC Duplicate Report

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadI\Rad\W05086.Edd, h:\Reportdb\edd\FeadI\Rad\34470.Edd

Lab Sample Id: JL8TD1GR **Sdg/Rept Nbr:** W05086 34470 **Collection Date:** 12/27/2006 11:43
Client Id: B1LJV5 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **Received Date:** 12/27/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
G07-012	MW6-SBB-A19981								BJ	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7002211	BE-7	5.98E+00	pCi/L	2.0E+01	U	3.84E+01			GAMMALL_GS	1.9792E+00	01/24/2007	443.7	0.6		D
DUP	13966-02-4	-2.27E+00		2.0E+01						L	20:22	20.0	3		
7002211	CO-60	-3.13E-02	pCi/L	2.2E+00	U	4.39E+00			GAMMALL_GS	1.9792E+00	01/24/2007	0.0	0.		D
DUP	10198-40-0	-7.78E-03		2.2E+00						L	20:22	20.0	3		
7002211	CS-134	2.19E+00	pCi/L	2.3E+00	U	4.96E+00			GAMMALL_GS	1.9792E+00	01/24/2007	15.6	0.2		D
DUP	13967-70-9	1.88E+00		2.3E+00						L	20:22	20.0	3		
7002211	CS-137	5.49E-01	pCi/L	2.0E+00	U	3.86E+00			GAMMALL_GS	1.9792E+00	01/24/2007	66.7	0.2		D
DUP	10045-97-3	2.74E-01		2.0E+00						L	20:22	20.0	3		
7002211	EU-152	4.15E+00	pCi/L	4.9E+00	U	9.58E+00			GAMMALL_GS	1.9792E+00	01/24/2007	139.0	1.		D
DUP	14683-23-9	7.46E-01		4.9E+00						L	20:22	20.0	3		
7002211	EU-154	-3.34E-02	pCi/L	6.3E+00	U	1.24E+01			GAMMALL_GS	1.9792E+00	01/24/2007	204.1	0.8		D
DUP	15585-10-1	3.33E+00		6.3E+00						L	20:22	20.0	3		
7002211	EU-155	3.54E+00	pCi/L	4.5E+00	U	8.31E+00			GAMMALL_GS	1.9792E+00	01/24/2007	401.7	1.5		D
DUP	14391-16-3	-1.19E+00		4.5E+00						L	20:22	20.0	3		
7002211	K-40	3.59E+00	pCi/L	2.9E+01	U	6.39E+01			GAMMALL_GS	1.9792E+00	01/24/2007	115.7	0.5		D
DUP	13966-00-2	1.34E+01		2.9E+01						L	20:22	20.0	3		
7002211	RU-106	-2.45E+01	pCi/L	1.7E+01	U	2.35E+01			GAMMALL_GS	1.9792E+00	01/24/2007	0.0	1.4		D
DUP	13967-48-1	-7.94E+00		1.7E+01						L	20:22	20.0	3		
7002211	SB-125	-2.18E+00	pCi/L	5.1E+00	U	8.66E+00			GAMMALL_GS	1.9792E+00	01/24/2007	0.0	0.5		D
DUP	14234-35-6	-2.82E-01		5.1E+00						L	20:22	20.0	3		

Monday, February 12, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\W05086.Edd, h:\Reportdb\edd\Fead\W05086.Edd, h:\Reportdb\edd\Fead\W05086.Edd, h:\Reportdb\edd\Fead\W05086.Edd

Lab Sample Id: JL8TQ1GR

Sdg/Rept Nbr: W05086

34470

Collection Date: 12/27/2006 12:41

Client Id: B1LJV0

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 12/27/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
G07-012	MW6-SBB-A19981								BK	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7002215 DUP	ALPHA 12587-46-1	1.93E+00 2.10E+00	pCi/L	1.5E+00 1.4E+00	U	2.18E+00	100.0		9310_ALPHAB	1.212E-01 L	01/26/2007 19:23	8.4 20.0	0.2 3		D

Monday, February 12, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\ledd\Fead\W05086.Edd, h:\Reportdb\ledd\Fead\W05086.Edd

Lab Sample Id: JL8TQ2HR

Sdg/Rept Nbr: W05086 34470

Collection Date: 12/27/2006 12:41

Client Id: B1LJV0

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 12/27/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
G07-012	MW6-SBB-A19981								BL	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Toi/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
7002216 DUP	BETA 12587-47-2	1.60E+01 1.42E+01	pCi/L	3.5E+00 2.8E+00		3.96E+00	100.0		9310_ALPHAB	1.416E-01 L	01/29/2007 11:29	12.2 20.0	0.7 3		D

Monday, February 12, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05086.Edd, h:\Reportdb\edd\FeadIV\Rad\34470.Edd

Lab Sample Id: JL8V71DR

Sdg/Rept Nbr: W05086

34470

Collection Date: 12/27/2006 12:51

Client Id: B1L212

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 12/27/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
I07-009	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
7002208 DUP	I-129L 15046-84-1	-3.14E-03 -1.06E-01	pCi/L	1.1E-01 1.1E-01	U	2.10E-01	101.6		I129LL_SEP_L	3.9386E+00 L	02/01/2007 13:33	0.0 20.0	1.3 3		D

Monday, February 12, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\eddd\FeadI\Rad\W05086.Edd, h:\Reportdb\eddd\FeadI\Rad\34470.Edd

Lab Sample Id: JL8W31CR

Sdg/Rept Nbr: W05086 34470

Collection Date: 12/28/2006 10:07

Client Id: B1LJF1

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 12/28/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
W07-012	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
7002195 DUP	TC-99 14133-76-7	1.07E+01 1.19E+01	pCi/L	6.3E+00 4.5E+00		1.01E+01	100.0		TC99_ETVDSK	1.26E-01 L	01/19/2007 09:22	10.3 20.0	0.3 3		D

Monday, February 12, 2007

STL Richland Qc Matrix Spike Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05086.Edd, h:\Reportdb\edd\FeadIV\Rad\34470.Edd

Lab Sample Id: JL8C82FW

Sdg/Rept Nbr: W05086 34470

Collection Date: 12/22/2006 12:49

Client Id: B1LJ21

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: MS

Received Date: 12/22/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
W07-012	MW6-SBB-A19981								BD	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7037238 MS	Uranium 7440-61-1	3.32E+01	ug/L	4.3E+00 4.3E+00		8.09E-02		3.49E+01 95.1	UTOT_KPA	2.59E-02 ML	02/06/2007 12:36			60 140	D

Monday, February 12, 2007

STL Richland Qc Matrix Spike Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05086.Edd, h:\Reportdb\edd\FeadIV\Rad\34470.Edd

Lab Sample Id: JL8W41CW

Sdg/Rept Nbr: W05086

34470

Collection Date: 12/28/2006 11:40

Client Id: B1LJB3

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: MS

Received Date: 12/28/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp				
W07-012	MW6-SBB-A19981								BO	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
7002195 MS	TC-99 14133-76-7	3.46E+03	pCi/L	2.3E+02 3.3E+01	1.01E+01	100.0	3.60E+03 96.0	TC99_ETVDSK	1.25E-01 L	01/19/2007 11:27			60 140	D

Lot No., Due Date: J6L280266; 02/12/2007
 Client, Site: 384868; PGW 615HANFORD HANFORD
 QC Batch No., Method Test: 7002206; RPUISO Pulso by ALP
 SDG, Matrix: W05086; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.02 Final Results Are in the Appropriate Activity Units OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.03 Batch Contains the Required QC Appropriate for the Method OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.06 At Least the Minimum Sample Volume Was Used OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.07 The Correct Count Geometry was Used. OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.09 Method Blank is within Control Limits. OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBIks) found in Batch!	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.14 LCS within Control Limits. OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8.17 Tracer within Control Limits. OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.19 Sample Specific MDC <= CRDL. OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => PU-238 PU-239 OK; No Callin Level Found => PU-238 PU-239	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.24 Result + 3s >=0, Not Too Negative. OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- 8.25 Counting Spectrum are within FWHM Limits. Yes No N/A
FWHM > maxFWHM => JMAL51AC PU-239 55.1>0 Q:V1
- 8.26 Instruments have Current Calibrations. Yes No N/A
- 8.27 Correct Count Library Used. Yes No N/A
Library Not Specified => JL8E91AD I:[NUC_LIBR]AR_PU Q:
JL8E91AH I:[NUC_LIBR]AR_PU Q:
JMAL51AA I:[NUC_LIBR]AR_PU Q:
JMAL51AC I:[NUC_LIBR]AR_PU Q:
- 8.28 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later versions) Yes No N/A
- 8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later versions) Yes No N/A
- 8.3 Comments:
- 8.31 Results Blank Subtracted as Appropriate. Yes No N/A
OK

First Level Review Pam Anderson

Date 1-25-07



STL

Data Review Checklist RADIOCHEMISTRY Second Level Review

QC Batch Number: 7002204
W05086

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

Lot No., Due Date: J6L280215; 02/12/2007
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 7002207; RUIISO Uiso by ALP
SDG, Matrix: W05086; 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:
N/C M # 10-09373

First Level Review *[Signature]* Pam Anderson
STL Richland
QAS_RADCALv4.8.26

Date 1/29/07



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7002207
W05086

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 NCR

Second Level Review: Sheryl A. Adams Date: 2-12-07

Clouseau Nonconformance Memo



NCM #: 10-09373	Classification: Anomaly
NCM Initiated By: Pam Anderson	Status: GLREVIEW
Date Opened: 01/29/2007	Production Area: Environmental - Sep
Date Closed:	Tests: Uiso by ALP
	Lot #'s (Sample #'s): J6L280215 (3),
	QC Batches: 7002207
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	The Uiso Water samples' RDP was not within acceptable limits.

Corrective Action

<u>Name</u>	<u>Date</u>	<u>Corrective Action</u>
Pam Anderson	01/29/2007	Samples were recounted and fell within the acceptable limits of the RDP. Recounts were ok.

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>
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Lot No., Due Date: J6L290139; 02/12/2007
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 7002215; RALPHA-A Alpha by GPC-Am
SDG, Matrix: W05086; 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 => JL8TQ1AC 121.40<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. 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. No Matrix Spike Samples (MS) found in Batch!	Yes	No	N/A
8.17 Tracer within Control Limits. OK	Yes	No	N/A
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	Yes	No	N/A
8.19 Sample Specific MDC <= CRDL. OK	Yes	No	N/A
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!	Yes	No	N/A
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK	Yes	No	N/A
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => 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. Yes No N/A
No Count Library found in Batch Data!

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

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

8.3 Comments:

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



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7002215
W05086

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

Comments on any "No" response: _____

Second Level Review: Sherryl A Adam Date: 1-29-07

Lot No., Due Date: J6L280248,J6L280254,J6L290139; 02/12/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7002216; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05086; 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 => JL8TD1AD 150.70<200.00 JL8TQ1AD 140.10<200.00 JL8TQ2AD 140.10<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 (MBLks) found in Batch!	Yes	No	N/A
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	Yes	No	N/A
8.13 QAS Specified Duplicate Equation Value within Control Limits. RPD > UCL : 20.0=> JL8TQ1AH BETA 34.0 (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 => JL8TQ2AD BETA 4.4E+00>4.0E+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 => JL8AR1AA BETA 4.4E+01 L:3.0E+00 JL8C81AA BETA 5.0E+02 L:2.8E+00 JL8DA1AA BETA 6.3E+01 L:2.8E+00 JL8DG1AA BETA 1.2E+03 L:2.7E+00 JL8DQ1AA BETA 2.1E+01 L:2.7E+00 JL8TD1AD BETA 2.3E+03 L:3.6E+00 JL8TQ1AD BETA 1.7E+01 L:4.0E+00 JL8TQ2AD BETA 1.4E+01 L:4.4E+00	Yes	No	N/A

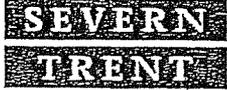
8.23 Result \leq Action Level, when Defined. OK; No Action Level Found \Rightarrow BETA OK; No Callin Level Found \Rightarrow BETA	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
8.24 Result + 3s \geq 0, Not Too Negative. OK	Yes <input checked="" type="checkbox"/> 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>NCM 10-00377</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

Lisa Anderson Pawandusew

Date

1/30/07



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7002216
W05086

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: Sherry A. Adams Date: 1-30-07

Clouseau Nonconformance Memo



NCM #: 10-09377	Classification: Anomaly
NCM Initiated By: Lisa Antonson	Status: GLREVIEW
Date Opened: 01/30/2007	Production Area: Environmental - Prep
Date Closed:	Tests: Beta by GPC-Sr/Y
	Lot #'s (Sample #'s): J6L280248 (1,2,3), J6L280254 (1,2), J6L290139 (1,2), J7A020000 (216),
	QC Batches: 7002216
Nonconformance: Other (describe in detail)	
Subcategory: Other (explanation required)	

Problem Description / Root Cause

<u>Name</u>	<u>Date</u>	<u>Description</u>
Lisa Antonson	01/30/2007	On first count the dups were out for this batch. When recounted, the dups agree, however for JL8TQ2AD, the MDA is slightly elevated (4.37) due to reduced aliquot based on weight screens. The result exceeds the MDA achieved, data accepted.

Corrective Action

<u>Name</u>	<u>Date</u>	<u>Corrective Action</u>
Lisa Antonson	01/30/2007	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>
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Lot No., Due Date: J6L280266,J6L290139; 02/12/2007
 Client, Site: 384868; PGW 615HANFORD HANFORD
 QC Batch No., Method Test: 7002197; RSR85907 Sr-85/90 by GPC-7
 SDG, Matrix: W05086; 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 1-31-07



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7002197
W05086

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: Sherry A Adam Date: 2-1-07

Lot No., Due Date: J6L280248,J6L280254,J6L280266,J6L290139; 02/12/2007
 Client, Site: 384868; PGW 615HANFORD HANFORD
 QC Batch No., Method Test: 7002211; RGAMMA Gamma by GER
 SDG, Matrix: W05086; 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:

7002211
W05084

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

Lot No., Due Date: J6L280272; 02/12/2007
 Client, Site: 384868; PGW 615HANFORD HANFORD
 QC Batch No., Method Test: 7002210; RGAMMA Gamma by GER
 SDG, Matrix: W05086; 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. 10.09347

First Level Review *Rose Anderson*

Date 2-9-07



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7002210
W05084

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 NCR

Second Level Review: Therese A Adams

Date: 2-12-07

Clouseau Nonconformance Memo



NCM #: 10-09362	Classification: Anomaly
NCM Initiated By: Pam Anderson	Status: GLREVIEW
Date Opened: 01/29/2007	Production Area: Environmental - Prep
Date Closed:	Tests: Gamma by GER
	Lot #'s (Sample #'s): J6L280272 (1),
	QC Batches: 7002210
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 one sample for gamma in water did not have sufficient sample sent for a duplicate. The sample was recounted on a different detector to make a replicate.

Corrective Action

<u>Name</u>	<u>Date</u>	<u>Corrective Action</u>
Pam Anderson	01/29/2007	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>
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Lot No., Due Date: J6L280266,J6L290145; 02/12/2007
 Client, Site: 384868; PGW 615HANFORD HANFORD
 QC Batch No., Method Test: 7002208; RGAMLEPS Gamma by LEPS
 SDG, Matrix: W05086; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.01 The Appropriate Methods Were Used To Analyze the Samples Method Differs => JL8E91AC LEP<>TB JL8V71AA LEP<>TB JL8V71AD LEP<>TB JMAL71AA LEP<>TB JMAL71AC LEP<>TB Q:V6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.02 Final Results Are in the Appropriate Activity Units OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.03 Batch Contains the Required QC Appropriate for the Method OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.06 At Least the Minimum Sample Volume Was Used Analysis Volume => JL8E91AC 3.894<4000.00 JL8V71AA 3.927<4000.00 Q:VB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.07 The Correct Count Geometry was Used. Count Geometry => JL8E91AC I_FA<>IFA JL8V71AA I_FA<>IFA JL8V71AD I_FA<>IFA JMAL71AA I_FA<>IFA JMAL71AC I_FA<>IFA Q:VC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.09 Method Blank is within Control Limits. OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBIks) found in Batch!	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.14 LCS within Control Limits. OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.17 Tracer within Control Limits. OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.19 Sample Specific MDC <= CRDL. OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => JL8E91AC I-129L 1.0E+00 L:5.2E-01	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

8.23	Result <= Action Level, when Defined. OK; No Action Level Found => I-129L OK; No Callin Level Found => I-129L	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. FWHM > maxFWHM => JMAL71AC I-129L 19>0 Q:V1	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input 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. Library Not Specified => JL8E91AC I:[NUC_LIBR]LEPS.NLB Q: JL8V71AA I:[NUC_LIBR]LEPS.NLB Q: JL8V71AD I:[NUC_LIBR]LEPS.NLB Q: JMAL71AA I:[NUC_LIBR]LEPS.NLB Q: JMAL71AC I:[NUC_LIBR]LEPS.NLB Q:	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input 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:			
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 Pam Anderson

Date 2-2-07



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7002208
W05068

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. Allen Date: 2-3-07

Lot No., Due Date: J6L280248,J6L280254,J6L280266,J6L290145,J6L290147; 02/12/2007
 Client, Site: 384868; PGW 615HANFORD HANFORD
 QC Batch No., Method Test: 7002195; RTC99 Tc-99 by LSC
 SDG, Matrix: W05086; 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 => JL8W41AC 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 (MBIs) 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=> JL8W31AC TC-99 52.0 (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. 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. Yes No N/A
No Count Library found in Batch Data!
- 8.28 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later versions) Yes No N/A
- 8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later versions) Yes No N/A
- 8.3 Comments:
- 8.31 Results Blank Subtracted as Appropriate. Yes No N/A
OK

First Level Review Pam Anderson

Date 1-30-07



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7 002195
W05086

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: 1-30-07

Lot No., Due Date: J6L280259,J6L290139; 02/12/2007
 Client, Site: 384868; PGW 615HANFORD HANFORD
 QC Batch No., Method Test: 7002199; RTRITIUM H-3 by LSC
 SDG, Matrix: W05086; 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 => JL8EA1AA 5.00<10.00 JL8TD1AA 5.00<10.00 JL8TQ1AA 5.00<10.00 Q:VB	Yes	No	N/A
8.07 The Correct Count Geometry was Used. Count Geometry => JMALP1AF SVP15/5<>SVP10/10 JMALP1AG SVP15/5<>SVP10/10 JMALP1AA SVP15/5<>SVP10/10 JMALP1AC SVP15/5<>SVP10/10 JMALP1AD SVP15/5<>SVP10/10 JMALP1AE SVP15/5<>SVP10/10 JL8EA1AA SVP15/5<>SVP10/10 JL8EA1AC SVP15/5<>SVP10/10 JL8TD1AA SVP15/5<>SVP10/10 JL8TQ1AA 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 \leq Action Level, when Defined. OK; No Action Level Found \Rightarrow H-3 OK; No Callin Level Found \Rightarrow H-3	Yes <input checked="" type="checkbox"/>	No	N/A
8.24	Result + 3s \geq 0, Not Too Negative. OK	Yes <input checked="" type="checkbox"/>	No	N/A
8.25	Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!	Yes	No	N/A <input checked="" type="checkbox"/>
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
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 <input checked="" type="checkbox"/>	No	N/A

First Level Review Pam Anderson

Date 1-27-07



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7002199
W05086

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

Lot No., Due Date: J6L280271; 02/12/2007
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 7002201; RC14 C-14 by LSC
SDG, Matrix: W05086; WATER

8.0 Correction Calculation Protocol Used. OK	Yes	No	N/A
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	Yes	No	N/A
8.02 Final Results Are in the Appropriate Activity Units OK	Yes	No	N/A
8.03 Batch Contains the Required QC Appropriate for the Method OK	Yes	No	N/A
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	Yes	No	N/A
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	Yes	No	N/A
8.06 At Least the Minimum Sample Volume Was Used OK	Yes	No	N/A
8.07 The Correct Count Geometry was Used. OK	Yes	No	N/A
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	Yes	No	N/A
8.09 Method Blank is within Control Limits. OK	Yes	No	N/A
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (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. 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 => C-14 OK; No Callin Level Found => C-14	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
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 <input checked="" type="checkbox"/>	No	N/A

First Level Review

Angela Long Pam Anderson
1/29/07

Date 1-29-07



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7002201
W05086

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

Lot No., Due Date: J6L280215,J6L280248,J6L280254; 02/12/2007
 Client, Site: 384868; PGW 615HANFORD HANFORD
 QC Batch No., Method Test: 7037238; RUNAT UNat by KPA
 SDG, Matrix: W05086; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.02 Final Results Are in the Appropriate Activity Units OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.03 Batch Contains the Required QC Appropriate for the Method OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.04 The Correct Tracer and QC Vials Where Used in the Samples Incorrect Tracer/Vial => JMAMM2AD UNSC<->UNSF Q:V9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.06 At Least the Minimum Sample Volume Was Used No Count Analysis Size found in Batch Data!	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8.07 The Correct Count Geometry was Used. No Count Geometry found in Batch Data!	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. No Count Duration Field Found in Batch Data!	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8.09 Method Blank is within Control Limits. OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBIKs) found in Batch!	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.14 LCS within Control Limits. OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8.16 MS within Control Limits. OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.17 Tracer within Control Limits. No Tracers found in Batch!	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8.19 Sample Specific MDC <= CRDL. OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => JL73T2AA Uranium 7.5E+00 L:8.3E-02 JL74P2AA Uranium 9.5E+01 L:8.2E-02 JL74Q2AC Uranium 3.0E+01 L:7.8E-02 JL8AR2AE Uranium 2.4E+00 L:8.1E-02 JL8C82AE Uranium 3.1E+00 L:8.3E-02 JL8DA2AE Uranium 3.2E+00 L:8.4E-02 JL8DG2AE Uranium 2.2E+00 L:8.2E-02 JL8DQ2AE Uranium 3.0E+00 L:7.8E-02	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => Uranium	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

OK; No Callin Level Found => Uranium			
8.24 Result + 3s >=0, Not Too Negative. Result + 3s < 0 JL75J2AC Uranium -3.1E-03 JMAMM2AA Uranium -1.3E-02	Yes	No <input checked="" type="checkbox"/>	N/A
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!	Yes	No <input checked="" type="checkbox"/>	N/A
8.26 Instruments have Current Calibrations.	Yes	No <input checked="" type="checkbox"/>	N/A
8.27 Correct Count Library Used. No Count Library found in Batch Data!	Yes	No <input checked="" type="checkbox"/>	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 <input checked="" type="checkbox"/>	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 <input checked="" type="checkbox"/>	N/A
8.3 Comments:			
8.31 Results Blank Subtracted as Appropriate. OK	Yes <input checked="" type="checkbox"/>	No	N/A

First Level Review Pam Anderson

Date 2-7-07



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 70 37238
W05086

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: Sherryl A Adams Date: 2-7-07

Clouseau Nonconformance Memo



NCM #: 10-09407	Classification: Anomaly
NCM Initiated By: Pam Anderson	Status: GLREVIEW
Date Opened: 02/06/2007	Production Area: Environmental - Sep
Date Closed:	Tests: UNat by KPA
	Lot #'s (Sample #'s): J6L280215 (1,2,3,5), J6L280248 (1,2,3), J6L280254 (1,2), J7A020000 (218),
	QC Batches: 7037238
Nonconformance: Other (describe in detail)	
Subcategory: Other (explanation required)	

Problem Description / Root Cause

<u>Name</u>	<u>Date</u>	<u>Description</u>
Pam Anderson	02/06/2007	During the counting on the KPA all the samples in this total uranium in water batch had the final dilution size entered incorrectly into the KPA. By the time the error had been noticed the data had been removed from the KPA. The samples were recounted with the right dilution-size with good results.

Corrective Action

<u>Name</u>	<u>Date</u>	<u>Corrective Action</u>
Pam Anderson	02/06/2007	The samples were recounted.

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>

PNNL J6L280215
W05086
Date 02-05-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-012-252**
Page 1 of 1

Collector PNNL Hanford R. T. SICKLE	Contact/Requester Dot Stewart	Telephone No. MSIN FAX 509-376-5056
SAF No. S07-012	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURV. DECEMBER 2006	HNF-N-506-3	Ice Chest No. MS04022 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
B1LCC3		W	122206	0402	1x20-mL P	Activity Scan	None
B1LCC3		W	↓	↓	1x1000-mL G/P	UIISO_PLATE_AEA: List-1 (3)	HNO3 to pH <2
B1LCC3		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
JL 740							

Relinquished By PNNL Hanford R. T. SICKLE	Print 	Sign 	Date/Time DEC 22 2006	Received By A. Smith	Print 	Sign 	Date/Time DEC 22 2006	Matrix *
Relinquished By	Date/Time	Received By	Date/Time	<ul style="list-style-type: none"> S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solid DL = 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					
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: 12.22.06 1303

Client: PBW SDG #: W05086 NA SAF #: S07-012 NA

Work Order Number: U6L280215 Chain of Custody # S07-012-253, 176, 244, 436, 252
Shipping Container ID: AFS-04-022 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: 5
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: 12.22.06 1303

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

No action necessary; process as is.

Project Manager _____ Date _____

PNNL 6 L280248
W05086
Dec 02 05 07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
W07-012-96
Page 1 of 1

Collector Fluor Hanford F. M. HALL	Contact/Requester Dot Stewart	Telephone No. 509-376-5056	MSIN FAX
SAF No. W07-012	Sampling Origin Hanford Site	Purchase Order/Charge Code	
Project Title RCRA, DECEMBER 2006	HNF-N-506 1	Ice Chest No.	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
B1LHT1		W	12-22-06	1144	1x20-mL P	Activity Scan	None
B1LHT1		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LHT1		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1LHT1		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1LHT1		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
JL 8 DA							

Relinquished By Fluor Hanford F. M. HALL	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time DEC 22 2006	Received By <i>[Signature]</i>	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time 12/22/06	Matrix *
Relinquished By	Date/Time	Received By	Date/Time					S = Soil DS = Drum Solid
Relinquished By	Date/Time	Received By	Date/Time					SE = Sediment DI = Drum Liquid
Relinquished By	Date/Time	Received By	Date/Time					SO = Solid T = Tissue
Relinquished By	Date/Time	Received By	Date/Time					SL = Sludge WI = Wine
Relinquished By	Date/Time	Received By	Date/Time					W = Water L = Liquid
Relinquished By	Date/Time	Received By	Date/Time					O = Oil V = Vegetation
Relinquished By	Date/Time	Received By	Date/Time					A = Air X = Other
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)			Disposed By			Date/Time	

Collector Fluor Hanford E.M. HALL	Contact/Requester Dot Stewart	Telephone No. 509-376-5056	MSIN FAX
SAF No. W07-012	Sampling Origin Hanford Site	Purchase Order/Charge Code	
Project Title RCRA, DECEMBER 2006	HNF-N-506 1	Ice Chest No.	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
B1LJ33		W	12-22-06	1029	1x20-mL P	Activity Scan	None
B1LJ33		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LJ33		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1LJ33		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1LJ33		W			1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
<i>JL BAR</i>							

Relinquished By Fluor Hanford E.M. HALL	Print	Sign	Date/Time 12/22/06	Received By <i>J. Smith</i>	Print	Sign	Date/Time 12/22/06	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					
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



Sample Check-in List

Date/Time Received: 12-22-06 1500

Client: P6W SDG #: W05086 NA () SAF #: W07-012 NA ()

Work Order Number: U6L280248 Chain of Custody # W07-012-104 120, 96

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: 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 ()
13. Description of anomalies (include sample numbers): N/A

Sample Custodian: S. Smith Date: _____

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

() No action necessary; process as is.

Project Manager _____ Date _____

PNNL *U6 L280254*
W05086
Due 02-05-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
W07-012-142
 Page 1 of 1

Collector K. J. YOUNG	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 2</i>	Ice Chest No. <i>SHWS 209</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
B1LHW5		W	<i>12-22-06</i>	<i>1108</i>	1x20-mL P	Activity Scan	None
B1LHW5		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LHW5		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1LHW5		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1LHW5		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
<i>JL 8 DG</i>							

Relinquished By K. J. YOUNG	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time <i>1405</i> DEC 22 2006	Received By S. Smith	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time <i>1408</i> DEC 22 2006	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				



STL

Sample Check-in List

Date/Time Received: 12.22.06 1405

Client: P6W SDG #: W05086 NA SAF #: W07-012 NA

Work Order Number: 062280254 Chain of Custody # W07-012-142,134

Shipping Container ID: SAWS 209 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
 - _____ 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: 12.22.06 1405

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: 12-22-06 1405

Client: PGW SDG #: W05086 NA SAF #: A07-012 NA

Work Order Number: U62280259 Chain of Custody # A07-012-2

Shipping Container ID: GWO-06-3 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: D. Smith Date: 12-22-06 1405

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____

PNNL 06L280266
W05086
due 02.05.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S07-012-68

Page 1 of 1

Collector Fluor Hanford K. B. HULSE	Contact/Requester Dot Stewart	Telephone No. 509-376-5056	MSIN	FAX
SAF No. S07-012	Sampling Origin Hanford Site	Purchase Order/Charge Code		
Project Title SURV. DECEMBER 2006	Method of Shipment Govt. Vehicle	Ice Chest No. GW0-06-3	Temp.	
Shipped To (Lab) Severn Trent Incorporated, Richland	Priority: 45 Days	Bill of Lading/Air Bill No.		
Protocol SURV	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
B1LC22		W	12-22-06	1045	1x20-mL P	Activity Scan	None
B1LC22		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LC22		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LC22		W			1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	HNO3 to pH <2
B1LC22		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1LC22		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
JL8E9							

Relinquished By Fluor Hanford K. B. HULSE <i>K. B. Hulse</i>	Print Sign	Date/Time 1405 DEC 22 2006	Received By <i>S. Smith</i>	Print Sign	Date/Time 1405 DEC 22 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			
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: 12-22-06 1405
Client: J6L280266 SDG #: W05086 NA () SAF #: 507-012 NA ()

Work Order Number: J6L280266 Chain of Custody # 507-012-68

Shipping Container ID: GWO-06-3 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: _____ /
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: 12-22-06 1405

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____

PNNL *U6L280271*
W05086
Dec 02-05-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-010-75**
 Page 1 of 1

Collector Hanford K. J. YOUNG	Contact/Requester Dot Stewart	Telephone No. MSIN FAX 509-376-5056
SAF No. S07-010	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURV. OCTOBER 2006	HNF-N-506 2	Ice Chest No. SAWS 209 Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland		Bill of Lading/Air Bill No.
Protocol SURV	Method of Shipment Govt. Vehicle	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1KPX9		W	<i>12-22-06</i>	<i>0758</i>	1x20-mL P	Activity Scan	None
B1KPX9		W	<i>↓</i>	<i>↑</i>	2x1000-mL G/P	C14_LSC: C-14 (1)	None
<i>JL8F9</i>							

Relinquished By Hanford K. J. YOUNG	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time DEC 22 2006	Date/Time <i>1405</i>	Received By <i>S. Smith</i>	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time DEC 22 2006	Date/Time <i>1405</i>	Matrix *
Relinquished By	Date/Time	Received By	Date/Time	Date/Time	Date/Time	S = Soil DS = Drum Solid SF = Sediment DL = 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	Date/Time	Date/Time					
Relinquished By	Date/Time	Received By	Date/Time	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: 12-22-06 1405

Client: P6W SDG #: W05086 NA SAF #: 507-010 NA

Work Order Number: UGL280271 Chain of Custody # 507-010-75

Shipping Container ID: SAWS209 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: A. Smith Date: 12-22-06 1405

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____



Sample Check-in List

Date/Time Received: 12-22-06 1405

Client: PGW SDG #: W05086 NA SAF #: I07-002 NA

Work Order Number: UGL280272 Chain of Custody # I07-002-30

Shipping Container ID: SAWS 209 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: 1 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: J. Smith Date: 12-22-06 1405

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

No action necessary; process as is.

Project Manager _____ Date _____

PNNL 06L290139
 W05086
 Dec 02-09-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **G07-012-78**
 Page 1 of 1

Collector Fluor Hanford	Contact/Requester Dot Stewart	Telephone No. 509-376-5056	MSIN	FAX
SAF No. R. BREWINGTON G07-012	Sampling Origin Hanford Site	Purchase Order/Charge Code		
Project Title 1NR2-RB, DECEMBER 2006	HNF-N-506-3	Ice Chest No. 022	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
B1LJV0		W	12-27-06	1241	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1LJV0		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1LJV0		W			1x20-mL P	Activity Scan	None
B1LJV0		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LJV0		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
JL8TQ							

Relinquished By Fluor Hanford R. BREWINGTON	Print	Sign <i>OR Brewington</i>	Date/Time DEC 27 2006	1506	Received By DAVID HARBINSKI	Print	Sign <i>[Signature]</i>	Date/Time DEC 27 2006	1506
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	
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

Matrix *

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

PNNL 06L290139
W0508L
Fluor Hanford Dec 02-09 07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
G07-012-86
Page 1 of 1

Collector D.R. BREWINGTON	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	Method of Shipment Govt. Vehicle	Ice Chest No. 022	Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland	Priority: 45 Days	Bill of Lading/Air Bill No.	
Protocol SURV	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
B1LJV5		W	12-27-06	1143	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1LJV5		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1LJV5		W	↓	↓	1x20-mL P	Activity Scan	None
B1LJV5		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LJV5		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
JL 8TD							

Relinquished By D.R. BREWINGTON	Print D.R. Brewington	Sign <i>[Signature]</i>	Date/Time DEC 27 2006 1506	Received By DAVID HARBINSON	Print DAVID HARBINSON	Sign <i>[Signature]</i>	Date/Time DEC 27 2006 1506	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	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	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: 12-27-06 1506

Client: P6W SDG #: W05080 NA SAF #: 607-013 NA

Work Order Number: U6L290139 Chain of Custody # 607-012-86, 78

Shipping Container ID: 022 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
 - _____ 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 (DH) Date: 12-27-06 1506

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: 12-27-06 1500

Client: POW SDG #: W05086 NA [] SAF #: 107-009 NA []

Work Order Number: 06L290145 Chain of Custody # 107-009-77

Shipping Container ID: HA ROSS Air Bill # NA

- SICS 12/31/06
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? Yes No []
 4. Cooler temperature: _____ NA [] 5. Vermiculite/packing materials is NA [] Wet [] Dry []
 6. Number of samples in shipping container: _____
 7. Sample holding times exceeded? NA [] Yes [] No
 8. Samples have:
 - _____ tape
 - _____ custody seals
 - _____ hazard labels
 - _____ appropriate samples labels
 9. Samples are:
 - _____ in good condition
 - _____ broken
 - _____ leaking
 - _____ have air bubbles
 - (Only for samples requiring head space)
 10. Sample pH taken? NA pH<2 [] pH>2 [] pH>9 []
 11. Sample Location, Sample Collector Listed? * Yes [] No
*For documentation only. No corrective action needed.
 12. Were any anomalies identified in sample receipt? Yes [] No
 13. Description of anomalies (include sample numbers): _____

Sample Custodian: Pam Anderson Date: 12-27-06

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: 12.28.06 1300

Client: PBW SDG #: W05086 NA SAF #: W07-012 NA

Work Order Number: 06L290147 Chain of Custody # W07-012-412,358

Shipping Container ID: SAWS 209 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
 - _____ 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: 12-28-06 1300

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

No action necessary; process as is.

Project Manager _____ Date _____

1/19/2007 6:38:41 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

6D Pu PrpRC5016, SepRC5010(5039)
SO Plutonium-238,239/40 by Alpha Spec

Pipet #: _____

AnalyDueDate: 02/05/2007 *W05086*

5I CLIENT: HANFORD

Sep1 DT/Tm Tech:

Batch: 7002206 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7002195 FPS5, 7002197 CLTL, 7002206 6DSO, 7002208 BNTB, 7002211 AWTA,

Prep Tech: ,BockJ



Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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1 JL8E9-1-AD J6L280266-1-SAMP 12/22/2006 10:45	200.60g,in		putc10479 01/18/07,pd 08/04/06.r	200				
AmtRec: 20ML,500ML,4XLP,3X4LP #Containers: 9			Scr:		Alpha: 6.52E-05 uCi/Sa		Beta: 1.39E-04 uCi/Sa	

2 JL8E9-1-AH-X J6L280266-1-DUP 12/22/2006 10:45	200.90g,in		putc10480 01/18/07,pd 08/04/06.r					
AmtRec: 20ML,500ML,4XLP,3X4LP #Containers: 9			Scr:		Alpha: 6.52E-05 uCi/Sa		Beta: 1.39E-04 uCi/Sa	

3 JMAL5-1-AA-B J7A020000-206-BLK 12/22/2006 10:45	200.60g,in		putc10481 01/18/07,pd 08/04/06.r					
AmtRec: #Containers: 1			Scr:		Alpha:		Beta:	

4 JMAL5-1-AC-C J7A020000-206-LCS 12/22/2006 10:45	201.30g,in		pusg0898 01/18/07,pd 08/04/06.r					
AmtRec: #Containers: 1			Scr:		Alpha:		Beta:	

Comments: *PH C2-0 B1-19-01*

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

JL8E91AD-SAMP Constituent List:

PU-238	RDL:1	pCi/L	LCL:	UCL:	RPD:	PU-239	RDL:1	pCi/L	LCL:70	UCL:130	RPD:20
Pu-242	RDL:	pCi/L	LCL:20	UCL:105	RPD:20						

JMAL51AA-BLK:

PU-238	RDL:1	pCi/L	LCL:	UCL:	RPD:	PU-239	RDL:1	pCi/L	LCL:	UCL:	RPD:
Pu-242	RDL:	pCi/L	LCL:20	UCL:105	RPD:20						

JMAL51AC-LCS:

PU-239	RDL:1	pCi/L	LCL:70	UCL:130	RPD:20	Pu-242	RDL:	pCi/L	LCL:20	UCL:105	RPD:20
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1/24/2007 4:45:07 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 02/05/2007

5I CLIENT: HANFORD

Sep1 DT/Tm Tech:

Batch: 7002207 WATER

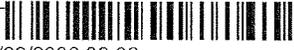
pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JL74Q-1-AA J6L280215-3-SAMP  12/22/2006 09:02			199.70g,in	199.70g	UITC16936 01/10/07,pd 01/20/04,r					

			AmtRec: 20ML,500MLP,LP	#Containers: 3			Scr:	Alpha: -8.35E-06 uCi/Sa	Beta: 1.54E-04 uCi/Sa	
2 JL74Q-1-AD-X J6L280215-3-DUP  12/22/2006 09:02			199.90g,in	199.90g	UITC16937 01/10/07,pd 01/20/04,r					

			AmtRec: 20ML,500MLP,LP	#Containers: 3			Scr:	Alpha: -8.35E-06 uCi/Sa	Beta: 1.54E-04 uCi/Sa	
3 JL74Q-2-AA J6L280215-3-SAMP  12/22/2006 09:02			199.7		UITC 16936					200min

			AmtRec: 20ML,500MLP,LP	#Containers: 3			Scr:	Alpha: -8.35E-06 uCi/Sa	Beta: 1.54E-04 uCi/Sa	
4 JL74Q-2-AD-X J6L280215-3-DUP  12/22/2006 09:02			199.9		UITC 16937					

			AmtRec: 20ML,500MLP,LP	#Containers: 3			Scr:	Alpha: -8.35E-06 uCi/Sa	Beta: 1.54E-04 uCi/Sa	
5 JL75F-1-AA J6L280215-4-SAMP  12/22/2006 09:42			200.80g,in	200.80g	UITC16938 01/10/07,pd 01/20/04,r					

			AmtRec: 20ML,LP	#Containers: 2			Scr:	Alpha: -6.05E-05 uCi/Sa	Beta: 3.21E-05 uCi/Sa	
6 JL75J-1-AA J6L280215-5-SAMP  12/22/2006 07:00			199.90g,in	199.90g	UITC16939 01/10/07,pd 01/20/04,r					

			AmtRec: 20ML,500MLP,LP	#Containers: 3			Scr:	Alpha: -2.22E-04 uCi/Sa	Beta: 3.51E-04 uCi/Sa	
7 JMAL6-1-AA-B J7A020000-207-BLK  12/22/2006 09:02			200.20g,in	200.20g	UITC16940 01/10/07,pd 01/20/04,r					

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

1/22/2007 12:29:45 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: 235

AnalyDueDate: 02/09/2007 W05086

Sep1 DT/Tm Tech:

Batch: 7002215 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: BockJ / APA



Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JL8TD-1-AC J6L290139-1-SAMP 12/27/2006 11:43	199.70g,in									
<p>AmtRec: 20ML,5XLP,4LP #Containers: 7 Scr: Alpha: 2.47E-03 uCi/Sa Beta: 5.48E-03 uCi/Sa 1.5E-01L</p> <p><i>Handwritten: 1.5 18.9 .50 10C 1818 1/26/07 APA</i></p>										
2 JL8TQ-1-AC J6L290139-2-SAMP 12/27/2006 12:41	121.40g,in									
<p>AmtRec: 20ML,5XLP,4LP #Containers: 7 Scr: Alpha: -5.69E-04 uCi/Sa Beta: 1.35E-03 uCi/Sa</p> <p><i>Handwritten: 46.8 100 10C 2013</i></p>										
3 JL8TQ-1-AG-X J6L290139-2-DUP 12/27/2006 12:41	121.20g,in									
<p>AmtRec: 20ML,5XLP,4LP #Containers: 7 Scr: Alpha: -5.69E-04 uCi/Sa Beta: 1.35E-03 uCi/Sa</p> <p><i>Handwritten: 43.3 100 10D</i></p>										
4 JMAMH-1-AA-B J7A020000-215-BLK 12/27/2006 12:41	202.50g,in									
<p>AmtRec: #Containers: 1 Scr: Alpha: Beta:</p> <p><i>Handwritten: 0.3 100 10B</i></p>										
5 JMAMH-1-AC-C J7A020000-215-LCS 12/27/2006 12:41	201.80g,in		ASD4108 01/18/07,pd 02/09/06,r							
<p>AmtRec: #Containers: 1 Scr: Alpha: Beta:</p> <p><i>Handwritten: 0.5 100 10A</i></p>										

Comments: ~~JL8TD-SAMP~~ Comments Aliquots reduced due to weight screen activity. 1-22-07
JL8TD-Dup. → PH 2.0 1-22-07

1% collodion added to ea. samp. 1/26/07 APA

All Clients for Batch:

384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JL8TD1AC-SAMP Constituent List:

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 02/09/2007

Sep1 DT/Tm Tech:

Batch: 7002215
 SEQ Batch, Test: None

pCi/L

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ



Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
ALPHA RDL:3	pCi/L	LCL:	UCL:	RPD:						
JMAMH1AA-BLK:										
ALPHA RDL:3	pCi/L	LCL:	UCL:	RPD:						
JMAMH1AC-LCS:										
Am-241 RDL:	pCi/L	LCL:70	UCL:130	RPD:20						
JL8TD1AC-SAMP Calc Info:										
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B						
JMAMH1AA-BLK:										
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B						
JMAMH1AC-LCS:										
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B						

Approved By _____ Date: _____

1/29/2007 10:29:34 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

BC Gross Beta PrpRC5014
S8 Gross Beta by GPC using Sr/Y-90 curve

Pipet #: _____

AnalyDueDate: 02/05/2007

5I CLIENT: HANFORD

Sep1 DT/Tm Tech:

Batch: 7002216 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7002195 FPS5, 7002211 AWTa, 7002216 BCS8, 7002218 DHSS,

Prep Tech: ,BockJ



Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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1 JL8AR-1-AA	200.20g,in									
J6L280248-1-SAMP										
12/22/2006 10:29		AmtRec: 20ML,2X500ML,LP,4LP	#Containers: 5					Scr: Alpha: -1.16E-03 uCi/Sa	Beta: 1.68E-03 uCi/Sa	

2 JL8C8-1-AA	200.00g,in									
J6L280248-2-SAMP										
12/22/2006 12:49		AmtRec: 20ML,2X500ML,LP,4LP	#Containers: 5					Scr: Alpha: -6.61E-05 uCi/Sa	Beta: -2.02E-05 uCi/Sa	

3 JL8DA-1-AA	201.70g,in									
J6L280248-3-SAMP										
12/22/2006 11:44		AmtRec: 20ML,2X500ML,LP,4LP	#Containers: 5					Scr: Alpha: -7.23E-05 uCi/Sa	Beta: -3.05E-04 uCi/Sa	

4 JL8DG-1-AA	199.00g,in									
J6L280254-1-SAMP										
12/22/2006 11:08		AmtRec: 20ML,2X500ML,LP,4LP	#Containers: 5					Scr: Alpha: -7.85E-04 uCi/Sa	Beta: 7.69E-04 uCi/Sa	

5 JL8DQ-1-AA	199.80g,in									
J6L280254-2-SAMP										
12/22/2006 12:06		AmtRec: 20ML,2X500ML,LP,4LP	#Containers: 5					Scr: Alpha: -1.06E-03 uCi/Sa	Beta: 4.74E-04 uCi/Sa	

6 JL8TD-1-AD	150.70g,in									
J6L290139-1-SAMP										
12/27/2006 11:43		AmtRec: 20ML,5XLP,4LP	#Containers: 7					Scr: Alpha: 2.47E-03 uCi/Sa	Beta: 5.48E-03 uCi/Sa	1.5E-01L

7 JL8TQ-1-AD	140.10g,in									
J6L290139-2-SAMP										
12/27/2006 12:41		AmtRec: 20ML,5XLP,4LP	#Containers: 7					Scr: Alpha: -5.69E-04 uCi/Sa	Beta: 1.35E-03 uCi/Sa	

1/29/2007 10:29:35 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 02/05/2007 *WO 5086*

Sep1 DT/Tm Tech: _____

Batch: 7002216 WATER pCi/L
SEQ Batch, Test: None

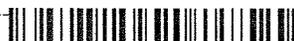
PM, Quote: SA , 57671

Sep2 DT/Tm Tech: _____

Prep Tech: BockJ

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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8 JL8TQ-1-AH-X J6L290139-2-DUP		141.60g,in								
										
12/27/2006 12:41		AmtRec: 20ML,5XLP,4LP	#Containers: 7					Scr: Alpha: -5.69E-04 uCi/Sa		Beta: 1.35E-03 uCi/Sa

9 JL8TQ-2-AD J6L290139-2-SAMP		<i>140.1 g</i>			<i>1.5</i>	<i>93.0 mg</i>	<i>100 mic</i>	<i>2st</i>	<i>12/17</i>	<i>1/29/07</i>
										
12/27/2006 12:41		AmtRec: 20ML,5XLP,4LP	#Containers: 7					Scr: Alpha: -5.69E-04 uCi/Sa		Beta: 1.35E-03 uCi/Sa

10 JL8TQ-2-AH-X J6L290139-2-DUP		<i>141.6</i>			<i>1.5</i>	<i>96.3</i>	<i>100 mic</i>	<i>2st</i>		
										
12/27/2006 12:41		AmtRec: 20ML,5XLP,4LP	#Containers: 7					Scr: Alpha: -5.69E-04 uCi/Sa		Beta: 1.35E-03 uCi/Sa

11 JMAMJ-1-AA-B J7A020000-216-BLK		201.40g,in								
										
12/27/2006 12:41		AmtRec:	#Containers: 1					Scr: Alpha:		Beta:

12 JMAMJ-1-AC-C J7A020000-216-LCS		202.00g,in	BESB2992							
										
12/27/2006 12:41		AmtRec:	#Containers: 1					Scr: Alpha:		Beta:

Comments: JL8TD-SAMP "Comments. Aliquot reduced due to screening results. JB 01/22/07"
JL8TQ-SAMP "Comments. Aliquots reduced due to weight screen activity. JB 01/22/07"

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

1/29/2007 10:29:36 AM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 02/05/2007

Sep1 DT/Tm Tech: _____

Batch: 7002216

pCi/L

Sep2 DT/Tm Tech: _____

SEQ Batch, Test: None

Prep Tech: ,BockJ



Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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JL8AR1AA-SAMP Constituent List:

BETA	RDL:4.00E+00	pCi/L	LCL:	UCL:	RPD:					
JMAMJ1AA-BLK:										
BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:					
JMAMJ1AC-LCS:										
Sr-90	RDL:	pCi/L	LCL:70	UCL:130	RPD:20					

JL8AR1AA-SAMP Calc Info:

Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
JMAMJ1AA-BLK:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
JMAMJ1AC-LCS:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B

Approved By _____ Date: _____

1/19/2007 7:39:01 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____
Sep1 DT/Tm Tech: 1-22-07 2:43 PM
Sep2 DT/Tm Tech: 1-29-07 9:00 AM
DRM
Prep Tech: BockJ

AnalyDueDate: 02/05/2007 W05086

Batch: 7002197 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None



Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JL8E9-1-AE J6L280266-1-SAMP 12/22/2006 10:45	1006.60g,in	1006.60g,in	SRTB14424 01/18/07,pd 09/11/06.r	1.918 1.9845 0.8627	1.5"	28.9	100	94 5A 5A	0523 0749 0655	1/24/07 1/30/07 1/31/07	
AmtRec: 20ML,500ML,4XLP,3X4LP #Containers: 9 Scr: Alpha: 6.52E-05 uCi/Sa Beta: 1.39E-04 uCi/Sa											
2 JL8E9-1-AG-X J6L280266-1-DUP 12/22/2006 10:45	1005.20g,in	1005.20g,in	SRTB14425 01/18/07,pd 09/11/06.r	1.819 2.0083 0.9057		24.3		3" 5B 0B	0523 0749 0655	1/24/07 1/30/07 1/31/07	
AmtRec: 20ML,500ML,4XLP,3X4LP #Containers: 9 Scr: Alpha: 6.52E-05 uCi/Sa Beta: 1.39E-04 uCi/Sa											
3 JL8TD-1-AF J6L290139-1-SAMP 12/27/2006 11:43	996.90g,in	996.90g,in	SRTB14426 01/18/07,pd 09/11/06.r	1.703 1.9845 0.8582		23.9		9" 70 5C 5A	0559 0749 0813	1/24/07 1/30/07 1/31/07	
AmtRec: 20ML,5XLP,4LP #Containers: 7 Scr: Alpha: 2.47E-03 uCi/Sa Beta: 5.48E-03 uCi/Sa 1.5E-01L											
4 JL8TQ-1-AF J6L290139-2-SAMP 12/27/2006 12:41	1004.10g,in	1004.10g,in	SRTB14427 01/18/07,pd 09/11/06.r	1.692 2.0130 0.8405		23.3		3" 5D 5C	0559 0749 0655	1/24/07 1/30/07 1/31/07	
AmtRec: 20ML,5XLP,4LP #Containers: 7 Scr: Alpha: -5.69E-04 uCi/Sa Beta: 1.35E-03 uCi/Sa											

1/19/2007 7:39:02 AM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 02/05/2007

Sep1 DT/Tm Tech:

Batch: 7002197

pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: BockJ

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
5 JMALM-1-AA-B J7A020000-197-BLK 		1000.50g,in	SRTB14428 01/18/07,pd 09/11/06,r	1.457 2.0035 0.7272	1.5"	24.Y	100	9" 6A 5D	0633 0749 0655	1/21/05 1/30/05 1/31/05	
		YTA16910 Ex:1/3/2008									
12/22/2006 10:45		AmtRec:		#Containers: 1				Scr:		Alpha: Beta:	
6 JMALM-1-AC-C J7A020000-197-LCS 		999.80g,in	SRSR1304 12/20/06,pd 09/11/06,r	1.755 2.0388 0.8608		24.4		3" 6B 6A	0633 0749 0655	1/21/05 1/30/05 1/31/05	
		YTA16911 Ex:1/3/2008									
12/22/2006 10:45		AmtRec:		#Containers: 1				Scr:		Alpha: Beta:	

Comments: JL8TD-SAMP Comments

PA<2.0 951-19-07

All Clients for Batch:

384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JL8E91AE-SAMP Constituent List:

Sr-85	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:70	UCL:130	RPD:20
JMALM1AA-BLK:											
Sr-85	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:	UCL:	RPD:
JMALM1AC-LCS:											
Sr-85	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:70	UCL:130	RPD:20

JL8E91AE-SAMP Calc Info:

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

1/18/2007 1:33:21 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 02/05/2007 *W05080*

Sep1 DT/Tm Tech: _____

Batch: 7002211 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep2 DT/Tm Tech: _____

Prep Tech: *BockJ/APA*



Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JL8AR-1-AC J6L280248-1-SAMP 12/22/2006 10:29	2001.80g,in									
<p>AmtRec: 20ML,2X500ML,LP,4LP #Containers: 5 Scr: Alpha: -1.16E-03 uCi/Sa Beta: 1.68E-03 uCi/Sa</p> <p><i>100ml 100 G4 1831 1/24/07 CA</i></p>										
2 JL8C8-1-AC J6L280248-2-SAMP 12/22/2006 12:49	2000.70g,in									
<p>AmtRec: 20ML,2X500ML,LP,4LP #Containers: 5 Scr: Alpha: -6.61E-05 uCi/Sa Beta: -2.02E-05 uCi/Sa</p> <p><i>G7 1832</i></p>										
3 JL8DA-1-AC J6L280248-3-SAMP 12/22/2006 11:44	2003.60g,in									
<p>AmtRec: 20ML,2X500ML,LP,4LP #Containers: 5 Scr: Alpha: -7.23E-05 uCi/Sa Beta: -3.05E-04 uCi/Sa</p> <p><i>G6 2016</i></p>										
4 JL8DG-1-AC J6L280254-1-SAMP 12/22/2006 11:08	2004.60g,in									
<p>AmtRec: 20ML,2X500ML,LP,4LP #Containers: 5 Scr: Alpha: -7.85E-04 uCi/Sa Beta: 7.69E-04 uCi/Sa</p> <p><i>G8 2016</i></p>										
5 JL8DQ-1-AC J6L280254-2-SAMP 12/22/2006 12:06	2000.90g,in									
<p>AmtRec: 20ML,2X500ML,LP,4LP #Containers: 5 Scr: Alpha: -1.06E-03 uCi/Sa Beta: 4.74E-04 uCi/Sa</p> <p><i>G4 2017</i></p>										
6 JL8E9-1-AA J6L280266-1-SAMP 12/22/2006 10:45	2004.30g,in									
<p>AmtRec: 20ML,500ML,4XLP,3X4LP #Containers: 9 Scr: Alpha: 6.52E-05 uCi/Sa Beta: 1.39E-04 uCi/Sa</p> <p><i>G7 2017</i></p>										
7 JL8TD-1-AE J6L290139-1-SAMP 12/27/2006 11:43	1951.80g,in									
<p>AmtRec: 20ML,5XLP,4LP #Containers: 7 Scr: Alpha: 2.47E-03 uCi/Sa Beta: 5.48E-03 uCi/Sa 1.5E-01L</p> <p><i>✓ ↓ G5 2018 0</i></p>										

1/18/2007 1:33:24 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 02/05/2007

Sep1 DT/Tm Tech:

Batch: 7002211 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: BockJ

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JL8TD-1-AG-X J6L290139-1-DUP 12/27/2006 11:43	1979.20g,in									
 <p>AmtRec: 20ML,5XLP,4LP #Containers: 7 Scr: Alpha: 2.47E-03 uCi/Sa Beta: 5.48E-03 uCi/Sa 1.5E-01L</p>										
9 JL8TQ-1-AE J6L290139-2-SAMP 12/27/2006 12:41	2002.80g,in									
 <p>AmtRec: 20ML,5XLP,4LP #Containers: 7 Scr: Alpha: -5.69E-04 uCi/Sa Beta: 1.35E-03 uCi/Sa</p>										
10 JMAMA-1-AA-B J7A020000-211-BLK 12/27/2006 11:43	2002.20g,in									
 <p>AmtRec: #Containers: 1 Scr: Alpha: Beta:</p>										
11 JMAMA-1-AC-C J7A020000-211-LCS 12/27/2006 11:43	2000.00g,in		QCAG1325 01/09/07,pd 03/07/05,r							
 <p>AmtRec: #Containers: 1 Scr: Alpha: Beta:</p>										

Comments: JL8TD-SAMP "Comments. Reduced aliquots due to insufficient sample amount. JB 01/18/07"

PH C20 JB 1-18-07

All Clients for Batch:

384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JL8ARIAC-SAMP Constituent List:

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

JMAMA1AA-BLK:

2/9/2007 11:33:25 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 02/05/2007

Sep1 DT/Tm Tech:

Batch: 7002210 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: BockJ

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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1 JL8GA-1-AA J6L280272-1-SAMP 	2501.30g,in									
12/22/2006 09:38	AmtRec: 20ML,3XLP	#Containers: 4						Scr: Alpha: 3.25E-04 uCi/Sa	Beta: -9.59E-04 uCi/Sa	

2 JL8GA-1-AC-X J6L280272-1-DUP 										
12/22/2006 09:38	AmtRec: 20ML,3XLP	#Containers: 4						Scr: Alpha: 3.25E-04 uCi/Sa	Beta: -9.59E-04 uCi/Sa	

3 JMAL9-1-AA-B J7A020000-210-BLK 	2500.30g,in									
12/22/2006 09:38	AmtRec:	#Containers: 1						Scr: Alpha:	Beta:	

4 JMAL9-1-AC-C J7A020000-210-LCS 	2500.30g,in	QCAG1324 01/09/07,pd 03/07/05,r								
12/22/2006 09:38	AmtRec:	#Containers: 1						Scr: Alpha:	Beta:	

Comments: JL8GA-SAMP "Comments. No DUP. poured up due to insufficient sample amount. JB 01/18/07"

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

JL8GA1AA-SAMP Constituent List:

Co-60	RDL:2.50E+01	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:
Cs-137	RDL:1.50E+01	pCi/L	LCL:70	UCL:130	RPD:20	Cs-137DA	RDL:1.50E+01	pCi/L	LCL:70	UCL:130	RPD:20
Eu-152	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	Eu-154	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:
Eu-155	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
Sb-125	RDL:5.00E+01	pCi/L	LCL:125	UCL:	RPD:						

JMAL91AA-BLK:

STL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

ISV - Insufficient Volume for Analysis

WO Cnt: 4

ICOC v4.8.26

2/9/2007 11:33:30 AM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 02/05/2007

Sep1 DT/Tm Tech:

Batch: 7002210
SEQ Batch, Test: None

pCi/L

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ



Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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Co-60	RDL:2.50E+01	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:
Cs-137	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:	Cs-137DA	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:
Eu-152	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	Eu-154	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:
Eu-155	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
Sb-125	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:						

JMAL91AC-LCS:											
Cs-137	RDL:15	pCi/L	LCL:70	UCL:130	RPD:20	Cs-137DA	RDL:15	pCi/L	LCL:70	UCL:130	RPD:20
K-40	RDL:6	pCi/L	LCL:70	UCL:130	RPD:20	Ra-226	RDL:--	pCi/L	LCL:70	UCL:130	RPD:20
RA-228	RDL:--	pCi/L	LCL:70	UCL:130	RPD:20	RA-228DA	RDL:--	pCi/L	LCL:70	UCL:130	RPD:20
U-238	RDL:--	pCi/L	LCL:70	UCL:130	RPD:20						

JL8GA1AA-SAMP Calc Info:									
Uncert Level (#s):	2	Decay to SaDt:	Y	Blk Subt.:	N	Sci.Not.:	Y	ODRs:	B
JMAL91AA-BLK:									
Uncert Level (#s):	2	Decay to SaDt:	Y	Blk Subt.:	N	Sci.Not.:	Y	ODRs:	B
JMAL91AC-LCS:									
Uncert Level (#s):	2	Decay to SaDt:	Y	Blk Subt.:	N	Sci.Not.:	Y	ODRs:	B

Approved By _____ Date: _____

1/26/2007 8:42:12 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 02/05/2007 *W05084*

Sep1 DT/Tm Tech:

Batch: 7002208 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

Prep Tech: *Bock, Bosted*



Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JL8E9-1-AC J6L280266-1-SAMP 12/22/2006 10:45	3894.20g,in	3894.20g,in	ITA5978 01/17/07							
<p>AmtRec: 20ML,500ML,4XLP,3X4LP #Containers: 9 Scr: Alpha: 6.52E-05 uCi/Sa Beta: 1.39E-04 uCi/Sa</p>										
2 JL8V7-1-AA J6L290145-1-SAMP 12/27/2006 12:51	3926.90g,in	3926.90g,in	ITA5979 01/17/07							
<p>AmtRec: 20ML,500ML,2X4LP #Containers: 4 Scr: Alpha: -1.13E-03 uCi/Sa Beta: 1.67E-03 uCi/Sa</p>										
3 JL8V7-1-AD-X J6L290145-1-DUP 12/27/2006 12:51	3938.60g,in	3938.60g,in	ITA5980 01/17/07							
<p>AmtRec: 20ML,500ML,2X4LP #Containers: 4 Scr: Alpha: -1.13E-03 uCi/Sa Beta: 1.67E-03 uCi/Sa</p>										
4 JMAL7-1-AA-B J7A020000-208-BLK 12/27/2006 12:51	4007.40g,in	4007.40g,in	ITA5981 01/17/07							
<p>AmtRec: #Containers: 1 Scr: Alpha: Beta:</p>										
5 JMAL7-1-AC-C J7A020000-208-LCS 12/27/2006 12:51	3995.80g,in	3995.80g,in	ISD0712 12/14/06,pd 11/17/04,r							
<p>AmtRec: #Containers: 1 Scr: Alpha: Beta:</p>										

Comments: *JH ← 2.0 gB 1-26-07 rechecked gB 1-26-07*

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

JL8E91AC-SAMP Constituent List:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:

1/18/2007 6:27:59 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 02/05/2007

W05086

Sep1 DT/Tm Tech:

Batch: 7002195 WATER

pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ



Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JL8AR-1-AD J6L280248-1-SAMP 12/22/2006 10:29			125.20g,in	125.20g						
2 JL8C8-1-AD J6L280248-2-SAMP 12/22/2006 12:49			126.20g,in	126.20g						
3 JL8DA-1-AD J6L280248-3-SAMP 12/22/2006 11:44			125.60g,in	125.60g						
4 JL8DG-1-AD J6L280254-1-SAMP 12/22/2006 11:08			125.70g,in	125.70g						
5 JL8DQ-1-AD J6L280254-2-SAMP 12/22/2006 12:06			126.20g,in	126.20g						
6 JL8E9-1-AF J6L280266-1-SAMP 12/22/2006 10:45			125.20g,in	125.20g						
7 JL8V7-1-AC J6L290145-1-SAMP 12/27/2006 12:51			125.20g,in	125.20g						

.60



1/18/2007 6:28:02 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 02/05/2007

Sep1 DT/Tm Tech:

Batch: 7002195 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JL8W3-1-AA J6L290147-1-SAMP  12/28/2006 10:07			125.50g,in	125.50g		60				
			AmtRec: 20ML,500ML	#Containers: 2				Scr: Alpha: 1.33E-05 uCi/Sa	Beta: 4.55E-05 uCi/Sa	
9 JL8W3-1-AC-X J6L290147-1-DUP  12/28/2006 10:07			126.00g,in	126.00g						
			AmtRec: 20ML,500ML	#Containers: 2				Scr: Alpha: 1.33E-05 uCi/Sa	Beta: 4.55E-05 uCi/Sa	
10 JL8W4-1-AA J6L290147-2-SAMP  12/28/2006 11:40			127.00g,in	127.00g						
			AmtRec: 20ML,500ML	#Containers: 2				Scr: Alpha: -1.89E-05 uCi/Sa	Beta: -7.52E-06 uCi/Sa	
11 JL8W4-1-AC-S J6L290147-2-MS  12/28/2006 11:40			125.00g,in	125.00g	TCSG1755 01/03/07,pd 01/10/06,r					
			AmtRec: 20ML,500ML	#Containers: 2				Scr: Alpha: -1.89E-05 uCi/Sa	Beta: -7.52E-06 uCi/Sa	
12 JMALJ-1-AA-B J7A020000-195-BLK  12/28/2006 10:07			125.10g,in	125.10g						
			AmtRec:	#Containers: 1				Scr: Alpha:	Beta:	
13 JMALJ-1-AC-C J7A020000-195-LCS  12/28/2006 10:07			126.10g,in	126.10g	TCSE2055 12/20/06,pd 01/10/06,r					
			AmtRec:	#Containers: 1				Scr: Alpha:	Beta:	
14 JMALJ-1-AD-BN J7A020000-195-IBLK  12/28/2006 10:07										
			AmtRec:	#Containers: 1				Scr: Alpha:	Beta:	

1/18/2007 6:28:08 AM

Sample Preparation/Analysis

Balance Id:

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

Pipet #: _____

AnalyDueDate: 02/05/2007

Sep1 DT/Tm Tech:

Batch: 7002195
SEQ Batch, Test: None

pCi/L

Sep2 DT/Tm Tech:

Prep Tech:



Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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15 JMALJ-1-AE-BN

J7A020000-195-IBLK



12/28/2006 10:07

AmtRec:

#Containers: 1

Scr:

Alpha:

Beta:

Comments:

PH < 2.0 QS 1-18-07

Equipment on sample #5 JLSDR was slightly loose, and a small amount of sample was lost. Estimated sample loss is 5-10 ml.

All Clients for Batch:

384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JL8AR1AD-SAMP Constituent List:

Tc-99	RDL:15	pCi/L	LCL:70	UCL:130	RPD:20				
JL8W41AC-MS:									
JMALJ1AA-BLK:									
Tc-99	RDL:15	pCi/L	LCL:	UCL:	RPD:				
JMALJ1AC-LCS:									
Tc-99	RDL:15	pCi/L	LCL:70	UCL:130	RPD:20				
JMALJ1AD-IBLK:									
Tc-99	RDL:15	pCi/L	LCL:	UCL:	RPD:				
JMALJ1AE-IBLK:									
Tc-99	RDL:15	pCi/L	LCL:	UCL:	RPD:				
JL8AR1AD-SAMP Calc Info:									
Uncert Level (#s):	2	Decay to SaDt:	Y	Blk Subt.:	N	Sci.Not.:	Y	ODRs:	B
JL8W41AC-MS:									
Uncert Level (#s):	2	Decay to SaDt:	Y	Blk Subt.:	N	Sci.Not.:	Y	ODRs:	B
JMALJ1AA-BLK:									
Uncert Level (#s):	2	Decay to SaDt:	Y	Blk Subt.:	N	Sci.Not.:	Y	ODRs:	B
JMALJ1AC-LCS:									
Uncert Level (#s):	2	Decay to SaDt:	Y	Blk Subt.:	N	Sci.Not.:	Y	ODRs:	B
JMALJ1AD-IBLK:									
Uncert Level (#s):	2	Decay to SaDt:	Y	Blk Subt.:	N	Sci.Not.:	Y	ODRs:	B
JMALJ1AE-IBLK:									
Uncert Level (#s):	2	Decay to SaDt:	Y	Blk Subt.:	N	Sci.Not.:	Y	ODRs:	B

1/2/2007 10:23:01 AM

Sample Preparation/Analysis

Balance Id: 12445

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 02/05/2007 *W05986*

Sep1 DT/Tm Tech: *1-27-07 Tom*

Batch: 7002199 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep2 DT/Tm Tech: _____

Prep Tech: _____



Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JL8EA-1-AA								
J6L280259-1-SAMP								
12/22/2006 10:45		AmtRec: 20ML,LP	#Containers: 2			Scr:	Alpha:	Beta:
2 JL8EA-1-AC-X								
J6L280259-1-DUP								
12/22/2006 10:45		AmtRec: 20ML,LP	#Containers: 2			Scr:	Alpha:	Beta:
3 JL8TD-1-AA								
J6L290139-1-SAMP								
12/27/2006 11:43		AmtRec: 20ML,5XLP,4LP	#Containers: 7			Scr:	Alpha:	Beta:
4 JL8TQ-1-AA								
J6L290139-2-SAMP								
12/27/2006 12:41		AmtRec: 20ML,5XLP,4LP	#Containers: 7			Scr:	Alpha:	Beta:
5 JMALP-1-AA-B								
J7A020000-199-BLK								
12/22/2006 10:45		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 JMALP-1-AC-C								
J7A020000-199-LCS								
12/22/2006 10:45		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
7 JMALP-1-AD-BX								
J7A020000-199-MBLK								
12/22/2006 10:45		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

1/2/2007 10:23:02 AM

Sample Preparation/Analysis

Balance Id: 12445

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

Pipet #: _____

AnalyDueDate: 02/05/2007

Sep1 DT/Tm Tech: 1/22/07

Batch: 7002199 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech: _____

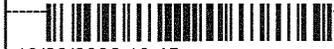
Prep Tech: _____



Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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8 JMALP-1-AE-CM

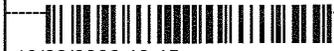
J7A020000-199-MLCS



12/22/2006 10:45		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
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9 JMALP-1-AF-BN

J7A020000-199-IBLK



12/22/2006 10:45		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
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10 JMALP-1-AG-BN

J7A020000-199-IBLK



12/22/2006 10:45		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
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Comments:

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

JL8EA1AA-SAMP Constituent List:

H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20
JMALP1AA-BLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:
JMALP1AC-LCS:					
H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20
JMALP1AD-MBLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:
JMALP1AE-MLCS:					
H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20
JMALP1AF-IBLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:
JMALP1AG-IBLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:

1/2/2007 10:23:03 AM

Sample Preparation/Analysis

Balance Id: *N/A*

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 02/05/2007 *W05086*

Sep1 DT/Tm Tech: *1-26-07 pm*

Batch: 7002201 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

Prep Tech:



Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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1 JL8F9-1-AA								
J6L280271-1-SAMP								
12/22/2006 09:38		AmtRec: 20ML,2XLP	#Containers: 3			Scr:	Alpha:	Beta:

2 JL8F9-1-AC-X								
J6L280271-1-DUP								
12/22/2006 09:38		AmtRec: 20ML,2XLP	#Containers: 3			Scr:	Alpha:	Beta:

3 JMALR-1-AA-B								
J7A020000-201-BLK								
12/22/2006 09:38		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

4 JMALR-1-AC-C								
J7A020000-201-LCS								
12/22/2006 09:38		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

5 JMALR-1-AD-BN								
J7A020000-201-IBLK								
12/22/2006 09:38		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

JL8F91AA-SAMP Constituent List:
C-14 RDL:2.00E+02 pCi/L LCL:70 UCL:130 RPD:20

1/2/2007 10:23:04 AM

Sample Preparation/Analysis

Balance Id: *N/A*

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

Pipet #: _____

AnalyDueDate: 02/05/2007

Sep1 DT/Tm Tech: *1-26-07 Tom*

Batch: 7002201
SEQ Batch, Test: None

pCi/L

Sep2 DT/Tm Tech: _____

Prep Tech: _____



Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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JMALR1AA-BLK:
C-14 RDL:2.00E+02 pCi/L LCL: UCL: RPD:

JMALR1AC-LCS:
C-14 RDL:200 pCi/L LCL:70 UCL:130 RPD:20

JMALR1AD-IBLK:
C-14 RDL:2.00E+02 pCi/L LCL: UCL: RPD:

JL8F91AA-SAMP Calc Info:
Uncert Level (#s): 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JMALR1AA-BLK:
Uncert Level (#s): 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JMALR1AC-LCS:
Uncert Level (#s): 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JMALR1AD-IBLK:
Uncert Level (#s): 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

2/6/2007 11:40:21 AM

Sample Preparation/Analysis

Balance Id:

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 02/05/2007

Sep1 DT/Tm Tech:

Batch: 7037238 WATER ug/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

Prep Tech:



Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JL73T-2-AA J6L280215-1-SAMP 12/22/2006 12:12		25.2 g						
								10 ml dilution
		AmtRec: 20ML,500MLP						#Containers: 2 Scr: Alpha: -1.41E-04 uCi/Sa Beta: 1.04E-04 uCi/Sa
2 JL74P-2-AA J6L280215-2-SAMP 12/22/2006 12:51		25.7						
		AmtRec: 20ML,500MLP						#Containers: 2 Scr: Alpha: 3.04E-05 uCi/Sa Beta: -4.29E-05 uCi/Sa
3 JL74Q-2-AC J6L280215-3-SAMP 12/22/2006 09:02		26.9						
		AmtRec: 20ML,500MLP,LP						#Containers: 3 Scr: Alpha: -8.35E-06 uCi/Sa Beta: 1.54E-04 uCi/Sa
4 JL75J-2-AC J6L280215-5-SAMP 12/22/2006 07:00		25.3						
		AmtRec: 20ML,500MLP,LP						#Containers: 3 Scr: Alpha: -2.22E-04 uCi/Sa Beta: 3.51E-04 uCi/Sa
5 JL8AR-2-AE J6L280248-1-SAMP 12/22/2006 10:29		25.8						
		AmtRec: 20ML,2X500ML,LP,4LP						#Containers: 5 Scr: Alpha: -1.16E-03 uCi/Sa Beta: 1.68E-03 uCi/Sa
6 JL8AR-2-AF-X J6L280248-1-DUP 12/22/2006 10:29		25.8						
		AmtRec: 20ML,2X500ML,LP,4LP						#Containers: 5 Scr: Alpha: -1.16E-03 uCi/Sa Beta: 1.68E-03 uCi/Sa
7 JL8C8-2-AE J6L280248-2-SAMP 12/22/2006 12:49		25.2g						
		AmtRec: 20ML,2X500ML,LP,4LP						#Containers: 5 Scr: Alpha: -6.61E-05 uCi/Sa Beta: -2.02E-05 uCi/Sa

2/6/2007 11:40:22 AM

Sample Preparation/Analysis

Balance Id: _____

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

DH UNat_Laser PrpRC5015
SS Total Uranium by KPA
SI CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 02/05/2007

Sep1 DT/Tm Tech: _____

Batch: 7037238 WATER ug/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech: _____

SEQ Batch, Test: None

Prep Tech: _____



Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JL8C8-2-AF-S J6L280248-2-MS 12/22/2006 12:49		25.9	nil					
AmtRec: 20ML,2X500ML,LP,4LP #Containers: 5 Scr: Alpha: -6.61E-05 uCi/Sa Beta: -2.02E-05 uCi/Sa								
9 JL8DA-2-AE J6L280248-3-SAMP 12/22/2006 11:44		25.0						
AmtRec: 20ML,2X500ML,LP,4LP #Containers: 5 Scr: Alpha: -7.23E-05 uCi/Sa Beta: -3.05E-04 uCi/Sa								
10 JL8DG-2-AE J6L280254-1-SAMP 12/22/2006 11:08		25.5						
AmtRec: 20ML,2X500ML,LP,4LP #Containers: 5 Scr: Alpha: -7.85E-04 uCi/Sa Beta: 7.69E-04 uCi/Sa								
11 JL8DQ-2-AE J6L280254-2-SAMP 12/22/2006 12:06		26.8						
AmtRec: 20ML,2X500ML,LP,4LP #Containers: 5 Scr: Alpha: -1.06E-03 uCi/Sa Beta: 4.74E-04 uCi/Sa								
12 JMAMM-2-AA-B J7A020000-218-BLK 12/22/2006 10:29		26.1						
AmtRec: #Containers: 1 Scr: Alpha: Beta:								
13 JMAMM-2-AC-C J7A020000-218-LCS 12/22/2006 10:29		25.3						
AmtRec: #Containers: 1 Scr: Alpha: Beta:								
14 JMAMM-2-AD-C J7A020000-218-LCS 12/22/2006 10:29		25.1						
AmtRec: #Containers: 1 Scr: Alpha: Beta:								

2/6/2007 11:40:29 AM

Sample Preparation/Analysis

Balance Id: _____

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

Pipet #: _____

AnalyDueDate: 02/05/2007

Sep1 DT/Tm Tech: _____

Batch: 7037238

ug/L

Sep2 DT/Tm Tech: _____

SEQ Batch, Test: None

Prep Tech: _____



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

All Clients for Batch:

384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JL73T2AA-SAMP Constituent List:

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

JL8C82AF-MS:

JMAMM2AA-BLK:

Uranium RDL:0.144343 ug/L LCL: UCL: RPD:

JMAMM2AC-LCS:

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

JMAMM2AD-LCS:

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

JL73T2AA-SAMP Calc Info:

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

JL8C82AF-MS:

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

JMAMM2AA-BLK:

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

JMAMM2AC-LCS:

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

JMAMM2AD-LCS:

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

Approved By _____ Date: _____

ICOC Fraction Transfer/Status Report

ByDate: 1/24/2006, 1/29/2007, Batch: '7002206', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
7002206				
AC	CalcC	BockJ	1/19/2007 6:31:43	
SC		wagarr	IsBatched	1/2/2007 10:25:47 AM
SC		BockJ	InPrep	1/19/2007 6:31:43 AM
SC		BockJ	Prep1C	1/19/2007 6:38:40 AM
SC		HarveyK	InSep1	1/19/2007 8:31:55 AM
SC		HarveyK	Sep1C	1/23/2007 11:34:54 AM
SC		FABREM	Sep2C	1/23/2007 3:49:40 PM
SC		DAWKINSO	InCnt1	1/23/2007 4:30:49 PM
SC		DAWKINSO	InCnt1	1/23/2007 4:31:03 PM
SC		DAWKINSO	CalcC	1/23/2007 8:26:25 PM
AC		BockJ	1/19/2007 6:38:40	
AC		HarveyK	1/19/2007 8:31:55	
AC		HarveyK	1/23/2007 11:34:54	
AC		FABREM	1/23/2007 3:49:40 PM	
AC		DAWKINSO	1/23/2007 4:30:49 PM	
AC		DAWKINSO	1/23/2007 4:31:03 PM	
AC		DAWKINSO	1/23/2007 8:26:25 PM	

AC: Accepting Entry; SC: Status Change

ICOC Fraction Transfer/Status Report

ByDate: 1/29/2006, 2/3/2007, Batch: '7002207', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments	
7002207					
AC		CalcC	BockJ	1/18/2007 7:11:57	
SC		wagarr	IsBatched	1/2/2007 10:25:47 AM	ICOC_RADCALC v4.8.26
SC		BockJ	InPrep	1/18/2007 7:11:57 AM	RICH-RC-5016 Revision 6
SC		BockJ	Prep1C	1/18/2007 7:22:26 AM	RICH-RC-5016 REVISION 6
SC		HarveyK	InPrep2	1/18/2007 9:41:31 AM	RICH-RC-5086 REV2
SC		HarveyK	Prep2C	1/19/2007 3:06:04 PM	RICH-RC-5086 REV2
SC		HarveyK	Sep1C	1/23/2007 8:48:38 AM	RICH-RC-5067 REV6
SC		FABREM	Sep2C	1/23/2007 1:54:08 PM	RICH-RC-5039 REVISION 5
SC		BlackCL	InCnt1	1/23/2007 2:06:16 PM	RICH-RD-0008 REVISION 4
SC		DAWKINSO	CalcC	1/23/2007 8:26:20 PM	RICH-RD-0008 REVISION 4
SC		DAWKINSO	InCnt1	1/24/2007 5:23:42 PM	RICH-RD-0003 REVISION 4
SC		DAWKINSO	CalcC	1/24/2007 9:39:37 PM	RICH-RD-0008 REVISION 4
AC		BockJ		1/18/2007 7:22:26	
AC		HarveyK		1/18/2007 9:41:31	
AC					

ICOC Fraction Transfer/Status Report

ByDate: 1/29/2006, 2/3/2007, Batch: '7002215', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
7002215				
AC		CalcC	BockJ 1/22/2007 12:24:42	
SC		wagarr	IsBatched 1/2/2007 10:25:47 AM	ICOC_RADCALC v4.8.26
SC		BockJ	InPrep 1/22/2007 12:24:42 PM	RICH-RC-5016 Revision 6
SC		BockJ	Prep1C 1/22/2007 12:29:49 PM	RICH-RC-5014 REVISION 6
SC		AshworthA	InPrep2 1/26/2007 8:38:13 AM	RICH-RC-5014 REVISION 6
SC		AshworthA	Prep2C 1/26/2007 3:45:16 PM	RICH-RC-5014 REVISION 6
SC		DAWKINSO	InCnt1 1/26/2007 3:51:13 PM	RICH-RD-0003 REVISION 4
SC		DAWKINSO	CalcC 1/26/2007 8:38:07 PM	RICH-RD-0003 REVISION 4
AC		BockJ	1/22/2007 12:29:49	
AC		AshworthA	1/26/2007 8:38:13	
AC		AshworthA	1/26/2007 3:45:16 PM	
AC		DAWKINSO	1/26/2007 3:51:13 PM	
AC		DAWKINSO	1/26/2007 8:38:07 PM	

AC: Accepting Entry; SC: Status Change

ICOC Fraction Transfer/Status Report

ByDate: 1/30/2006, 2/4/2007, Batch: '7002216', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
7002216				
AC	CalcC	BockJ	1/22/2007 12:30:07	
SC		wagarr	IsBatched	1/2/2007 10:25:47 AM
SC		BockJ	InPrep	1/22/2007 12:30:07 PM
SC		BockJ	Prep1C	1/22/2007 12:36:51 PM
SC		BockJ	Prep1C	1/22/2007 12:42:36 PM
SC		AshworthA	InPrep2	1/26/2007 8:38:21 AM
SC		AshworthA	Prep2C	1/26/2007 3:45:39 PM
SC		DAWKINSO	InCnt1	1/26/2007 3:50:58 PM
SC		DAWKINSO	CalcC	1/26/2007 7:20:57 PM
SC		BlackCL	InCnt1	1/29/2007 10:37:20 AM
SC		BlackCL	CalcC	1/29/2007 12:41:20 PM
AC		BockJ	1/22/2007 12:36:51	
AC		BockJ	1/22/2007 12:42:36	
AC		AshworthA	1/26/2007 8:38:21	
AC		AshworthA	1/26/2007 3:45:39 PM	
AC		DAWKINSO	1/26/2007 3:50:58 PM	
AC		DAWKINSO	1/26/2007 7:20:57 PM	
AC		BlackCL	1/29/2007 10:37:20	
AC		BlackCL	1/29/2007 12:41:20	

AC: Accepting Entry; SC: Status Change

ICOC Fraction Transfer/Status Report

ByDate: 1/31/2006, 2/5/2007, Batch: '7002197', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
7002197				
AC	CalcC	BockJ	1/19/2007 7:20:51	
SC		wagarr	IsBatched	1/2/2007 10:25:47 AM
SC		BockJ	InPrep	1/19/2007 7:20:51 AM
SC		BockJ	Prep1C	1/19/2007 7:39:12 AM
SC		FABREM	Sep1C	1/23/2007 9:31:59 PM
SC		DAWKINSO	InCnt1	1/23/2007 9:45:32 PM
SC		StringerR	Cnt1C	1/24/2007 9:28:29 AM
SC		ManisD	InSep2	1/29/2007 7:56:18 AM
SC		DAWKINSO	InCnt2	1/29/2007 5:52:54 PM
SC		BlackCL	CalcC	1/31/2007 8:52:33 AM
AC		BockJ	1/19/2007 7:39:12	
AC		FABREM	1/23/2007 9:31:59 PM	
AC		DAWKINSO	1/23/2007 9:45:32 PM	
AC		StringerR	1/24/2007 9:28:29	
AC		ManisD	1/29/2007 7:56:18	
AC		DAWKINSO	1/29/2007 5:52:54 PM	
AC		BlackCL	1/31/2007 8:52:33	

AC: Accepting Entry; SC: Status Change

ICOC Fraction Transfer/Status Report

ByDate: 1/29/2006, 2/3/2007, Batch: '7002211', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
7002211				
AC	CalcC	BockJ	1/18/2007 1:12:23 PM	
SC		wagarr	IsBatched	1/2/2007 10:25:47 AM
SC		BockJ	InPrep	1/18/2007 1:12:23 PM
SC		BockJ	Prep1C	1/18/2007 1:33:27 PM
SC		AshworthA	InPrep2	1/23/2007 8:56:54 AM
SC		AshworthA	Prep2C	1/24/2007 3:12:29 PM
SC		DAWKINSO	InCnt1	1/24/2007 3:21:33 PM
SC		DAWKINSO	CalcC	1/24/2007 10:23:48 PM
AC		BockJ	1/18/2007 1:33:27 PM	ICOC_RADCALC v4.8.26
AC		AshworthA	1/23/2007 8:56:54	rich-rc-5015 rEVISION 4
AC		AshworthA	1/24/2007 3:12:29 PM	RICH-RC-5017 REVISION 5
AC		DAWKINSO	1/24/2007 3:21:33 PM	RICH-RC-5017 REVISION 4
AC		DAWKINSO	1/24/2007 10:23:48	RICH-RC-5017 REVISION 4
				RICH-RD-0007 REVISION 5
				RICH-RD-0007 REVISION 5

AC: Accepting Entry; SC: Status Change

ICOC Fraction Transfer/Status Report

ByDate: 2/9/2006, 2/14/2007, Batch: '7002210', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
7002210				
AC	Rev1C	BockJ	1/18/2007 11:42:40	
SC		wagarr	IsBatched	1/2/2007 10:25:47 AM
SC		BockJ	InPrep	1/18/2007 11:42:40 AM
SC		BockJ	Prep1C	1/18/2007 11:50:27 AM
SC		AshworthA	InPrep2	1/23/2007 8:57:04 AM
SC		AshworthA	Prep2C	1/24/2007 3:12:21 PM
SC		DAWKINSO	InCnt1	1/24/2007 3:21:27 PM
SC		StringerR	CalcC	1/25/2007 7:07:08 AM
SC		AndersonP	Rev1C	1/29/2007 9:05:35 AM
AC		BockJ	1/18/2007 11:50:27	
AC		AshworthA	1/23/2007 8:57:04	
AC		AshworthA	1/24/2007 3:12:21 PM	
AC		DAWKINSO	1/24/2007 3:21:27 PM	
AC		StringerR	1/25/2007 7:07:08	
AC		AndersonP	1/29/2007 9:05:35	

AC: Accepting Entry; SC: Status Change

ICOC Fraction Transfer/Status Report

ByDate: 2/2/2006, 2/7/2007, Batch: '7002208', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
7002208				
AC	CalcC	BockJ	1/26/2007 7:54:46	
SC		wagarr	IsBatched	1/2/2007 10:25:47 AM
SC		BockJ	InPrep	1/26/2007 7:54:46 AM
SC		BockJ	Prep1C	1/26/2007 8:42:16 AM
SC		BostedD	Prep2C	2/1/2007 12:56:47 PM
SC		DAWKINSO	InCnt1	2/1/2007 1:35:30 PM
SC		DAWKINSO	CalcC	2/1/2007 7:26:25 PM
AC		BockJ	1/26/2007 8:42:16	
AC		BostedD	2/1/2007 12:56:47 PM	
AC		DAWKINSO	2/1/2007 1:35:30 PM	
AC		DAWKINSO	2/1/2007 7:26:25 PM	

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

ICOC Fraction Transfer/Status Report

ByDate: 1/30/2006, 2/4/2007, Batch: '7002195', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments	
7002195					
AC	CalcC	BockJ	1/18/2007 6:18:56		
SC		wagarr	IsBatched	1/2/2007 10:25:47 AM	ICOC_RADCALC v4.8.26
SC		BockJ	InPrep	1/18/2007 6:18:56 AM	RICH-RC-5016 Revision 6
SC		BockJ	Prep1C	1/18/2007 6:28:03 AM	RICH-RC-5016 REVISION 6
SC		HarveyK	InSep1	1/18/2007 9:42:29 AM	RICH-RC-5065 REV5
SC		DAWKINSO	InCnt1	1/18/2007 6:12:53 PM	RICH-RD-0001 REVISION 3
SC		StringerR	CalcC	1/20/2007 11:46:27 AM	RICH-RD-0001 REVISION 3
AC		BockJ	1/18/2007 6:28:03		
AC		BockJ	1/18/2007 6:31:34		
AC		HarveyK	1/18/2007 9:42:29		
AC		DAWKINSO	1/18/2007 6:12:53 PM		
AC		StringerR	1/20/2007 11:46:27		

AC: Accepting Entry; SC: Status Change

ICOC Fraction Transfer/Status Report

ByDate: 1/24/2006, 1/29/2007, Batch: '7002199', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
7002199				
AC	CalcC	McDowellID	1/22/2007 9:13:01	
SC		wagarr	IsBatched	1/2/2007 10:25:47 AM
SC		McDowellID	InSep1	1/22/2007 9:13:01 AM
SC		McDowellID	Sep1C	1/22/2007 1:26:47 PM
SC		DAWKINSO	InCnt1	1/22/2007 1:45:55 PM
SC		BlackCL	CalcC	1/24/2007 7:08:13 AM
AC		McDowellID	1/22/2007 1:26:47 PM	
AC		DAWKINSO	1/22/2007 1:45:55 PM	
AC		BlackCL	1/24/2007 7:08:13	

AC: Accepting Entry; SC: Status Change

1/29/2007 10:45:15 AM

ICOC Fraction Transfer/Status Report

ByDate: 1/29/2006, 2/3/2007, Batch: '7002201', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
7002201				
AC		CalcC	McDowellD 1/26/2007 1:15:15 PM	
SC		wagarr	IsBatched 1/2/2007 10:25:47 AM	ICOC_RADCALC v4.8.26
SC		McDowellD	Sep1C 1/26/2007 1:15:15 PM	RICH-RC-5022 REVISION 3
SC		StringerR	InCnt1 1/26/2007 1:21:52 PM	RICH-RD-0001 REVISION 3
SC		StringerR	CalcC 1/27/2007 12:09:01 PM	RICH-RD-0001 REVISION 3
AC		StringerR	1/26/2007 1:21:52 PM	
AC		StringerR	1/27/2007 12:09:01	

AC: Accepting Entry; SC: Status Change

STL Richland
Richland Wa.

2/7/2007 8:49:15 AM

ICOC Fraction Transfer/Status Report

ByDate: 2/7/2006, 2/12/2007, Batch: '7037238', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
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7037238

AC	Cnt1C	NelsonT	2/6/2007 2:54:08 PM	
SC		andersonp	IsBatched 2/6/2007 11:40:19 AM	ICOC_RADCALC v4.8.26
SC		NelsonT	Cnt1C 2/6/2007 2:54:08 PM	RICH-RC-5058 REV 7

AC: Accepting Entry; SC: Status Change