Rev. 1

1216643

W05189

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Ulyes
2/26/08

Analytical Data Package Prepared For

Fluor Hanford

Radiochemical Analysis By

TAL Richland STLRL

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

Data Package Contains 153 *Pages*

Report Nbr: 36324

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05189	S07-006	B1NKY6	J7F210406-1	J1JM71AA	9J1JM710	7180596
		B1NKY6	J7F210406-1	J1JM71AC	9J1JM710	7180598
		B1NKY6	J7F210406-1	J1JM71AD	9J1JM710	7180605
		B1NL11	J7F210406-2	J1JM91AA	9J1JM910	7180605
		B1NL12	J7F210406-3	J1JNA1AA	9J1JNA10	7180605
		B1NL39	J7F250145-1	J1P5M1AA	9J1P5M10	7180605
		B1NL43	J7F250145-2	J1P5P1AA	9J1P5P10	7180596
		B1NL43	J7F250145-2	J1P5P1AC	9J1P5P10	7180598
		B1NL43	J7F250145-2	J1P5P1AD	9J1P5P10	7180605
		B1NL47	J7F250145-3	J1P5W1AA	9J1P5W10	7180596
		B1NL47	J7F250145-3	J1P5W1AC	9J1P5W10	7180598
		B1NL47	J7F250145-3	J1P5W1AD	9J1P5W10	7180605
		B1NL51	J7F250145-4	J1P501AA	9J1P5010	7180605
	W07-006	B1NT04	J7F250152-1	J1P7X1AA	9J1P7X10	7180607
		B1NT04	J7F250152-1	J1P7X1AC	9J1P7X10	7180596

Comments:

AUG 2 3 2007

Report Nbr: 36324

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05189	W07-006	B1NT04	J7F250152-1	J1P7X1AD	9J1P7X10	7180598
		B1NT04	J7F250152-1	J1P7X1AF	9J1P7X10	7180600
		B1NT04	J7F250152-1	J1P7X1AG	9J1P7X10	7180605
		B1NT04	J7F250152-1	J1P7X2AE	9J1P7X20	7211164
	S07-006	B1NL08	J7F250154-1	J1P761AA	9J1P7610	7180596
		B1NL08	J7F250154-1	J1P761AC	9J1P7610	7180598
		B1NL08	J7F250154-1	J1P761AD	9J1P7610	7180605
		B1NKN0	J7F250154-2	J1P8D1AC	9J1P8D10	7180598
		B1NKN0	J7F250154-2	J1P8D1AD	9J1P8D10	7180605
		B1NKN0	J7F250154-2	J1P8D2AA	9J1P8D20	7180596
		B1NKX8	J7F250154-3	J1P8F1AA	9J1P8F10	7180596
		B1NKX8	J7F250154-3	J1P8F1AC	9J1P8F10	7180598
		B1NKX8	J7F250154-3	J1P8F1AD	9J1P8F10	7180605
		B1NL19	J7F250154-4	J1P8L1AA	9J1P8L10	7180596
		B1NL19	J7F250154-4	J1P8L1AC	9J1P8L10	7180598
		B1NL19	J7F250154-4	J1P8L1AD	9J1P8L10	7180602
		B1NL19	J7F250154-4	J1P8L1AE	9J1P8L10	7180605
	I07-048	B1NJC6	J7F250159-1	J1P881AA	9J1P8810	7180602
	G07-006	B1NJ56	J7F250160-1	J1P9E1AA	9J1P9E10	7180607
		B1NJ56	J7F250160-1	J1P9E1AC	9J1P9E10	7180599
		B1NJ56	J7F250160-1	J1P9E1AD	9J1P9E10	7180602
		B1NJ41	J7F250160-2	J1P9J1AA	9J1P9J10	7180599
		B1NJ85	J7F250160-3	J1P9N1AA	9J1P9N10	7180607
		B1NJ85	J7F250160-3	J1P9N1AC	9J1P9N10	7180601
		B1NJ85	J7F250160-3	J1P9N1AD	9J1P9N10	7180602
		B1NJ38	J7F250160-4	J1P991AA	9J1P9910	7180607

Comments:

Report Nbr: 36324

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05189	G07-006	B1NJ38	J7F250160-4	J1P991AC	9J1P9910	7180601
		B1NJ38	J7F250160-4	J1P992AD	9J1P9920	7211164
	A07-006	B1NHX4	J7F250163-1	J1QAH1AA	9J1QAH10	7180604
		B1NHX4	J7F250163-1	J1QAH3AC	9J1QAH30	7218239
	G07-006	B1NJ80	J7F250165-1	J1QAT1AA	9J1QAT10	7180607
		B1NJ80	J7F250165-1	J1QAT1AC	9J1QAT10	7180601
		B1NJ80	J7F250165-1	J1QAT1AD	9J1QAT10	7180602
	W07-006	B1NLH0	J7F260289-1	J1T5G1AA	9J1T5G10	7180596

Comments:

SEVERN TRENT STL

STL Richland
2800 George Washington Way
Richland, WA 99354

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

Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

August 13, 2007

Attention: Steve Trent

SAF Number	:	S07-006, W07-006, I07-048, G07-006, A07-006
Date SDG Closed	:	June 26, 2007
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05189
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between June 20, 2007 and June 26, 2007 twenty water samples were received at STL Richland (STLR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Pacific Northwest National Laboratories (PGW) specific IDs:

PGW ID#	STLR ID#	DATE OF RECEIPT	MATRIX
B1NKY6	J11JM7	6/20/07	WATER
B1NL11	J1JM9	6/20/07	WATER
B1NL12	J1JNA	6/20/07	WATER
B1NL39	J1P5M	6/21/07	WATER
B1NL43	J1P5P	6/21/07	WATER
B1NL47	J1P5W	6/21/07	WATER
B1NL51	J1P50	6/21/07	WATER
B1NT04	J1P7X	6/21/07	WATER
B1NL08	J1P76	6/21/07	WATER
B1NKN0	J1P8D	6/21/07	WATER
B1NKX8	J1P8F	6/21/07	WATER
B1NL19	J1P8C	6/21/07	WATER
B1NJC6	J1P88	6/22/07	WATER

B1NJ56	J1P9E	6/22/07	WATER
B1NJ41	J1P9J	6/22/07	WATER
B1NJ85	J1P9N	6/22/07	WATER
B1NJ38	J1P99	6/22/07	WATER
B1NHX4	J1QAH	6/22/07	WATER
B1NJ80	J1QAT	6/22/07	WATER
B1NLH0	J1T5G	6/26/07	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
Uranium 234, 235 and 238 by method RICH-RC-5039
Gas Proportional Counting
Gross Alpha by method RICH-RC-5014
Gross Beta by method RICH-RC-5014
Strontium-90 by method RICH-RC-5006
Gamma Spectroscopy
Gamma Spec (LL) by method RICH-RC-5017
Gamma Spec by method RICH-RC-5017
Iodine-129 (LL) by method RICH-RC-5025
Liquid Scintillation Counting
Technetium-99 by TEVA method RICH-RC-5065
Tritium by method RICH-RC-5007
Laser Induced Phosphorimetry
Total Uranium by method RICH-RC-5058

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

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

The LCS, batch blank, sample and sample duplicate (J1NT04) results are within contractual requirements.

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:

Samples B1NKY6, B1NL08, B1NKN0, B1NL19, B1NLH0 and B1NKN0 DUP were analyzed with reduced aliquots based on high weight screen results. The activity detected in sample B1NKN0 and sample duplicate (B1NKN0 DUP) were not within acceptable limits. Both were recounted for a longer period of time to improve the counting statistics. The recounted results were within limits. Except as noted, the LCS, batch blank, samples and sample duplicate (B1NKN0) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:

Samples B1NKY6, B1NL47 and B1NKY6 DUP were analyzed with reduced aliquots based on high weight screen results. Except as noted, the LCS, batch blank, samples and sample duplicate (B1NKY6) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006- BATCH 7180602

Samples B1NT04 and B1NJ38 were lost in processing. Both samples were reanalyzed in batch 7211164. Except as noted, the LCS, batch blank, samples and sample duplicate (B1NJC6) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006- BATCH 7211164

The LCS, batch blank, samples and sample duplicate (B1NT04) results are within contractual requirements.

Gamma Spectroscopy

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

The LCS, batch blank, samples and sample duplicate (B1NJ80) results are within contractual requirements.

Gamma Spec by method RICH-RC-5017:

The LCS, batch blank, samples and sample duplicate (B1NJ56) results are within contractual requirements.

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

The LCS, batch blank, samples and sample duplicate (B1NHX4) results are within contractual requirements.

Fluor Hanford
August 13, 2007

Liquid Scintillation Counting

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

The LCS was low on the original analysis. The samples were reanalyzed; however there was inadequate sample for preparing a duplicate and a matrix spike. Also the TSIE was high on sample B1NHX4. The sample vial was wiped, mixed and recounted. The TSIE was acceptable. Except as noted, the LCS, batch blank and sample results are within contractual requirements.

Tritium by method RICH-RC-5007:

The LCS, batch blank, samples and sample duplicate (B1NJ80) results are within contractual requirements.

Total Uranium

Total Uranium by method RICH-RC-5058:

The LCS, batch blank, samples, sample duplicate (B1NL39), and sample matrix spike (B1NL43) results are within contractual requirements.

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

Reviewed and approved:

Sherryl A. Adam
Project Manager

Drinking Water Method Cross References

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

Uncertainty Estimation

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

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

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

Report Definitions

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

8/13/2007 3:47:47 PM

TAL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 36324 File Name: h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.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:
9J1JM710	B1NKY6		MW6-SBB-A1	S07-006	W05189					06/20/2007 11:53

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7180596	ALPHA	12587-46-1	3.47E+01	pCi/L	5.6E+00	9.8E+00		2.04E+00	100.0	9310_ALPHABETA	1.78E-01	L	08/01/2007 12:43	I
7180598	BETA	12587-47-2	3.31E+01	pCi/L	3.0E+00	7.6E+00		2.80E+00	100.0	9310_ALPHABETA	1.966E-01	L	08/06/2007 18:12	I
7180605	Uranium	7440-61-1	7.15E+01	ug/L	8.4E+00	8.4E+00		8.48E-02		UTOT_KPA	2.47E-02	ML	08/02/2007 14:40	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:
9J1JM910	B1NL11		MW6-SBB-A1	S07-006	W05189					06/20/2007 10:22

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7180605	Uranium	7440-61-1	9.42E+00	ug/L	1.1E+00	1.1E+00		7.91E-02		UTOT_KPA	2.65E-02	ML	08/02/2007 14:42	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:
9J1JNA10	B1NL12		MW6-SBB-A1	S07-006	W05189					06/20/2007 08:10

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7180605	Uranium	7440-61-1	-3.00E-02	ug/L	3.4E-03	3.4E-03	U	8.42E-02		UTOT_KPA	2.49E-02	ML	08/02/2007 14:44	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:
9J1P5010	B1NL51		MW6-SBB-A1	S07-006	W05189					06/21/2007 13:07

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7180605	Uranium	7440-61-1	5.79E+00	ug/L	6.8E-01	6.8E-01		8.03E-02		UTOT_KPA	2.61E-02	ML	08/02/2007 14:57	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:
9J1P5M10	B1NL39		MW6-SBB-A1	S07-006	W05189					06/21/2007 09:43

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7180605	Uranium	7440-61-1	2.98E+01	ug/L	3.5E+00	3.5E+00		8.48E-02		UTOT_KPA	2.47E-02	ML	08/02/2007 14:48	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:
9J1P5P10	B1NL43		MW6-SBB-A1	S07-006	W05189					06/21/2007 10:58

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7180596	ALPHA	12587-46-1	2.77E+01	pCi/L	4.9E+00	7.9E+00		1.64E+00	100.0	9310_ALPHABETA	1.973E-01	L	08/01/2007 12:43	I
7180598	BETA	12587-47-2	2.76E+01	pCi/L	2.9E+00	4.9E+00		3.06E+00	100.0	9310_ALPHABETA	2.032E-01	L	08/06/2007 18:12	I
7180605	Uranium	7440-61-1	6.77E+01	ug/L	8.0E+00	8.0E+00		7.88E-02		UTOT_KPA	2.66E-02	ML	08/02/2007 14:52	I

TAL 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.

TAL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 36324 File Name: h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.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:
9J1P5W10	B1NL47		MW6-SBB-A1	S07-006	W05189					06/21/2007 12:12

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7180596	ALPHA	12587-46-1	4.40E+01	pCi/L	5.7E+00	1.2E+01		1.68E+00	100.0	9310_ALPHABETA	1.998E-01	L	08/01/2007 12:43	I
7180598	BETA	12587-47-2	3.71E+01	pCi/L	3.2E+00	5.7E+00		3.21E+00	100.0	9310_ALPHABETA	1.982E-01	L	08/06/2007 18:12	I
7180605	Uranium	7440-61-1	7.97E+01	ug/L	9.4E+00	9.4E+00		8.22E-02		UTOT_KPA	2.55E-02	ML	08/02/2007 14:56	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J1P7610	B1NL08		MW6-SBB-A1	S07-006	W05189					06/21/2007 13:09

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7180596	ALPHA	12587-46-1	1.60E+01	pCi/L	2.0E+00	4.2E+00		9.42E-01	100.0	9310_ALPHABETA	1.573E-01	L	08/01/2007 15:07	I
7180598	BETA	12587-47-2	1.75E+01	pCi/L	2.4E+00	3.2E+00		2.91E+00	100.0	9310_ALPHABETA	2.006E-01	L	08/06/2007 18:12	I
7180605	Uranium	7440-61-1	3.01E+01	ug/L	3.5E+00	3.5E+00		8.22E-02		UTOT_KPA	2.55E-02	ML	08/02/2007 15:01	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J1P7X10	B1NT04		MW6-SBB-A1	W07-006	W05189					06/21/2007 12:27

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7180607	H-3	10028-17-8	7.46E+01	pCi/L	1.2E+02	1.4E+02	U	2.97E+02	100.0	906.0_H3_LSC	5.00E-03	L	07/03/2007 23:33	I
7180596	ALPHA	12587-46-1	7.65E-01	pCi/L	9.3E-01	9.5E-01	U	1.70E+00	100.0	9310_ALPHABETA	2.015E-01	L	08/01/2007 12:43	I
7180598	BETA	12587-47-2	4.30E+00	pCi/L	1.6E+00	1.7E+00		2.85E+00	100.0	9310_ALPHABETA	2.025E-01	L	08/06/2007 18:12	I
7180600	U-234	13966-29-5	1.65E-01	pCi/L	1.8E-01	1.8E-01	U	2.19E-01	101.2	UISO_PLATE_AEA	2.007E-01	L	07/31/2007 19:18	I
7180600	U-235	15117-96-1	-3.51E-03	pCi/L	8.8E-02	8.8E-02	U	1.77E-01	101.2	UISO_PLATE_AEA	2.007E-01	L	07/31/2007 19:18	I
7180600	U-238	U-238	8.43E-02	pCi/L	1.2E-01	1.3E-01	U	1.77E-01	101.2	UISO_PLATE_AEA	2.007E-01	L	07/31/2007 19:18	I
7180605	Uranium	7440-61-1	2.66E-01	ug/L	2.7E-02	2.7E-02		7.91E-02		UTOT_KPA	2.65E-02	ML	08/02/2007 14:59	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J1P7X20	B1NT04		MW6-SBB-A1	W07-006	W05189					06/21/2007 12:27

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7211164	SR-90	10098-97-2	-1.09E-01	pCi/L	2.3E-01	2.3E-01	U	5.26E-01	85.6	SRISO_SEP_PRE	9.959E-01	L	08/09/2007 06:27	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:
9J1P8810	B1NJC6		MW6-SBB-A1	I07-048	W05189					06/22/2007 13:17

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7180602	SR-90	10098-97-2	4.92E+02	pCi/L	4.2E+00	7.2E+01		5.29E-01	76.1	SRISO_SEP_PRE	1.0062E+00	L	08/09/2007 06:27	I

REVISED

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.

8/13/2007 3:47:47 PM

TAL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 36324 File Name: h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.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:
9J1P8D10	B1NKN0		MW6-SBB-A1	S07-006	W05189					06/21/2007 09:43

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7180598	BETA	12587-47-2	1.73E+01	pCi/L	2.3E+00	3.2E+00		2.75E+00	100.0	9310_ALPHABETA	2.002E-01	L	08/06/2007 18:12	I
7180605	Uranium	7440-61-1	2.27E+01	ug/L	2.7E+00	2.7E+00		7.97E-02		UTOT_KPA	2.63E-02	ML	08/02/2007 15:03	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J1P8D20	B1NKN0		MW6-SBB-A1	S07-006	W05189					06/21/2007 09:43

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7180596	ALPHA	12587-46-1	1.06E+01	pCi/L	2.2E+00	3.3E+00		1.14E+00	100.0	9310_ALPHABETA	1.812E-01	L	08/03/2007 15:47	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J1P8F10	B1NKX8		MW6-SBB-A1	S07-006	W05189					06/21/2007 11:01

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7180596	ALPHA	12587-46-1	2.43E+01	pCi/L	4.0E+00	6.8E+00		1.21E+00	100.0	9310_ALPHABETA	1.992E-01	L	08/01/2007 17:29	I
7180598	BETA	12587-47-2	2.04E+01	pCi/L	2.4E+00	4.5E+00		2.67E+00	100.0	9310_ALPHABETA	2.05E-01	L	08/06/2007 21:13	I
7180605	Uranium	7440-61-1	6.92E+01	ug/L	8.1E+00	8.1E+00		8.06E-02		UTOT_KPA	2.60E-02	ML	08/02/2007 15:05	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J1P8L10	B1NL19		MW6-SBB-A1	S07-006	W05189					06/21/2007 11:47

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7180596	ALPHA	12587-46-1	3.52E+01	pCi/L	5.6E+00	9.8E+00		2.03E+00	100.0	9310_ALPHABETA	1.676E-01	L	08/01/2007 17:29	I
7180598	BETA	12587-47-2	2.63E+01	pCi/L	2.7E+00	5.8E+00		2.82E+00	100.0	9310_ALPHABETA	2.008E-01	L	08/06/2007 21:13	I
7180602	SR-90	10098-97-2	4.08E-01	pCi/L	2.6E-01	2.7E-01	U	5.00E-01	74.4	SRISO_SEP_PRE	1.0081E+00	L	08/09/2007 06:27	I
7180605	Uranium	7440-61-1	6.39E+01	ug/L	7.5E+00	7.5E+00		8.35E-02		UTOT_KPA	2.51E-02	ML	08/02/2007 15:07	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:
9J1P9910	B1NJ38		MW6-SBB-A1	G07-006	W05189					06/22/2007 11:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7180607	H-3	10028-17-8	7.65E+01	pCi/L	1.2E+02	1.4E+02	U	2.94E+02	100.0	906.0_H3_LSC	5.00E-03	L	07/04/2007 03:38	I
7180601	BE-7	13966-02-4	8.25E+00	pCi/L	3.4E+01	3.4E+01	U	6.19E+01		GAMMALL_GS	2.0057E+00	L	08/02/2007 19:08	I
7180601	CO-60	10198-40-0	2.26E-01	pCi/L	2.9E+00	2.9E+00	U	5.53E+00		GAMMALL_GS	2.0057E+00	L	08/02/2007 19:08	I
7180601	CS-134	13967-70-9	2.57E+00	pCi/L	2.8E+00	2.8E+00	U	5.81E+00		GAMMALL_GS	2.0057E+00	L	08/02/2007 19:08	I

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

TAL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 36324 File Name: h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

7180601	CS-137	10045-97-3	5.31E-01	pCi/L	2.6E+00	2.6E+00	U	4.83E+00	GAMMALL_GS	2.0057E+00	L	08/02/2007	19:08	I
7180601	EU-152	14683-23-9	-2.24E+00	pCi/L	6.5E+00	6.5E+00	U	1.12E+01	GAMMALL_GS	2.0057E+00	L	08/02/2007	19:08	I
7180601	EU-154	15585-10-1	-9.87E-03	pCi/L	6.9E+00	6.9E+00	U	1.33E+01	GAMMALL_GS	2.0057E+00	L	08/02/2007	19:08	I
7180601	EU-155	14391-16-3	-4.34E-01	pCi/L	5.1E+00	5.1E+00	U	8.88E+00	GAMMALL_GS	2.0057E+00	L	08/02/2007	19:08	I
7180601	K-40	13966-00-2	-5.30E+01	pCi/L	6.2E+01	6.2E+01	U	1.38E+02	GAMMALL_GS	2.0057E+00	L	08/02/2007	19:08	I
7180601	RU-106	13967-48-1	-1.85E+01	pCi/L	2.4E+01	2.4E+01	U	3.92E+01	GAMMALL_GS	2.0057E+00	L	08/02/2007	19:08	I
7180601	SB-125	14234-35-6	2.66E+00	pCi/L	6.4E+00	6.4E+00	U	1.19E+01	GAMMALL_GS	2.0057E+00	L	08/02/2007	19:08	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J1P9920	B1NJ38		MW6-SBB-A1	G07-006	W05189					06/22/2007 11:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7211164	SR-90	10098-97-2	3.23E+02	pCi/L	3.6E+00	4.7E+01		6.85E-01	76.6	SRISO_SEP_PRE	1.0047E+00	L	08/09/2007 06:27	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:
9J1P9E10	B1NJ56		MW6-SBB-A1	G07-006	W05189					06/22/2007 12:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7180607	H-3	10028-17-8	5.57E+01	pCi/L	1.3E+02	1.4E+02	U	3.08E+02	100.0	906.0_H3_LSC	5.00E-03	L	07/04/2007 00:55	I
7180599	BE-7	13966-02-4	-2.77E+00	pCi/L	2.4E+01	2.4E+01	U	4.23E+01		GAMMA_GS	2.503E+00	L	08/07/2007 12:28	I
7180599	CO-60	10198-40-0	2.23E+00	pCi/L	2.4E+00	2.4E+00	U	5.15E+00		GAMMA_GS	2.503E+00	L	08/07/2007 12:28	I
7180599	CS-134	13967-70-9	-2.68E-01	pCi/L	1.9E+00	1.9E+00	U	3.44E+00		GAMMA_GS	2.503E+00	L	08/07/2007 12:28	I
7180599	CS-137	10045-97-3	-4.25E-01	pCi/L	1.8E+00	1.8E+00	U	3.18E+00		GAMMA_GS	2.503E+00	L	08/07/2007 12:28	I
7180599	EU-152	14683-23-9	-2.43E+00	pCi/L	4.3E+00	4.3E+00	U	7.43E+00		GAMMA_GS	2.503E+00	L	08/07/2007 12:28	I
7180599	EU-154	15585-10-1	7.69E+00	pCi/L	6.1E+00	6.1E+00	U	1.37E+01		GAMMA_GS	2.503E+00	L	08/07/2007 12:28	I
7180599	EU-155	14391-16-3	-9.84E-01	pCi/L	3.4E+00	3.4E+00	U	5.86E+00		GAMMA_GS	2.503E+00	L	08/07/2007 12:28	I
7180599	K-40	13966-00-2	-6.22E+01	pCi/L	3.7E+01	3.7E+01	U	7.38E+01		GAMMA_GS	2.503E+00	L	08/07/2007 12:28	I
7180599	RU-106	13967-48-1	-1.01E+00	pCi/L	1.9E+01	1.9E+01	U	3.38E+01		GAMMA_GS	2.503E+00	L	08/07/2007 12:28	I
7180599	SB-125	14234-35-6	1.37E+00	pCi/L	4.8E+00	4.8E+00	U	9.03E+00		GAMMA_GS	2.503E+00	L	08/07/2007 12:28	I
7180602	SR-90	10098-97-2	6.25E+02	pCi/L	5.3E+00	8.9E+01		6.55E-01	64.0	SRISO_SEP_PRE	1.0009E+00	L	08/09/2007 06:27	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:
9J1P9J10	B1NJ41		MW6-SBB-A1	G07-006	W05189					06/22/2007 13:17

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7180599	BE-7	13966-02-4	9.68E-01	pCi/L	2.2E+01	2.2E+01	U	3.93E+01		GAMMA_GS	2.4993E+00	L	08/07/2007 12:28	I

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

7180599	CO-60	10198-40-0	8.69E-01	pCi/L	1.8E+00	1.8E+00	U	3.93E+00	GAMMA_GS	2.4993E+00	L	08/07/2007	12:28	I
7180599	CS-134	13967-70-9	2.20E+00	pCi/L	1.7E+00	1.7E+00	U	3.84E+00	GAMMA_GS	2.4993E+00	L	08/07/2007	12:28	I
7180599	CS-137	10045-97-3	-6.54E-01	pCi/L	1.6E+00	1.6E+00	U	2.83E+00	GAMMA_GS	2.4993E+00	L	08/07/2007	12:28	I
7180599	EU-152	14683-23-9	2.37E-01	pCi/L	4.0E+00	4.0E+00	U	7.32E+00	GAMMA_GS	2.4993E+00	L	08/07/2007	12:28	I
7180599	EU-154	15585-10-1	-3.44E+00	pCi/L	5.0E+00	5.0E+00	U	8.27E+00	GAMMA_GS	2.4993E+00	L	08/07/2007	12:28	I
7180599	EU-155	14391-16-3	6.12E-01	pCi/L	3.3E+00	3.3E+00	U	5.89E+00	GAMMA_GS	2.4993E+00	L	08/07/2007	12:28	I
7180599	K-40	13966-00-2	-7.66E+00	pCi/L	2.7E+01	2.7E+01	U	5.35E+01	GAMMA_GS	2.4993E+00	L	08/07/2007	12:28	I
7180599	RU-106	13967-48-1	1.14E+01	pCi/L	1.5E+01	1.5E+01	U	3.06E+01	GAMMA_GS	2.4993E+00	L	08/07/2007	12:28	I
7180599	SB-125	14234-35-6	-1.22E+00	pCi/L	4.2E+00	4.2E+00	U	7.31E+00	GAMMA_GS	2.4993E+00	L	08/07/2007	12:28	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J1P9N10	B1NJ85		MW6-SBB-A1	G07-006	W05189					06/22/2007 08:55

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7180607	H-3	10028-17-8	3.30E+02	pCi/L	1.3E+02	1.5E+02		2.95E+02	100.0	906.0_H3_LSC	5.00E-03	L	07/04/2007 02:16	I
7180601	BE-7	13966-02-4	3.70E+00	pCi/L	2.5E+01	2.5E+01	U	4.49E+01		GAMMALL_GS	1.9966E+00	L	08/02/2007 19:09	I
7180601	CO-60	10198-40-0	4.20E-01	pCi/L	1.9E+00	1.9E+00	U	3.74E+00		GAMMALL_GS	1.9966E+00	L	08/02/2007 19:09	I
7180601	CS-134	13967-70-9	3.01E-01	pCi/L	1.8E+00	1.8E+00	U	3.43E+00		GAMMALL_GS	1.9966E+00	L	08/02/2007 19:09	I
7180601	CS-137	10045-97-3	3.15E-02	pCi/L	1.9E+00	1.9E+00	U	3.44E+00		GAMMALL_GS	1.9966E+00	L	08/02/2007 19:09	I
7180601	EU-152	14683-23-9	3.68E+00	pCi/L	5.2E+00	5.2E+00	U	9.64E+00		GAMMALL_GS	1.9966E+00	L	08/02/2007 19:09	I
7180601	EU-154	15585-10-1	4.90E+00	pCi/L	5.6E+00	5.6E+00	U	1.20E+01		GAMMALL_GS	1.9966E+00	L	08/02/2007 19:09	I
7180601	EU-155	14391-16-3	-3.30E+00	pCi/L	5.5E+00	5.5E+00	U	9.11E+00		GAMMALL_GS	1.9966E+00	L	08/02/2007 19:09	I
7180601	K-40	13966-00-2	7.03E+00	pCi/L	2.5E+01	2.5E+01	U	5.66E+01		GAMMALL_GS	1.9966E+00	L	08/02/2007 19:09	I
7180601	RU-106	13967-48-1	-5.11E-01	pCi/L	1.6E+01	1.6E+01	U	2.94E+01		GAMMALL_GS	1.9966E+00	L	08/02/2007 19:09	I
7180601	SB-125	14234-35-6	4.73E+00	pCi/L	4.4E+00	4.4E+00	U	8.87E+00		GAMMALL_GS	1.9966E+00	L	08/02/2007 19:09	I
7180602	SR-90	10098-97-2	1.49E+03	pCi/L	9.2E+00	2.2E+02		6.97E-01	76.3	SRISO_SEP_PRE	9.95E-01	L	08/09/2007 07:58	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J1QAH10	B1NHX4		MW6-SBB-A1	A07-006	W05189					06/22/2007 12:46

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7180604	I-129L	15046-84-1	9.15E-02	pCi/L	1.4E-01	1.4E-01	U	2.74E-01	94.1	I129LL_SEP_LEPS	3.9105E+00	L	08/09/2007 14:19	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J1QAH30	B1NHX4		MW6-SBB-A1	A07-006	W05189					06/22/2007 12:46

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

8/13/2007 3:47:47 PM

TAL Richland Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 36324 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7218239	TC-99	14133-76-7	4.41E+01	pCi/L	5.5E+00	8.4E+00		1.03E+01	100.0	TC99_ETVDSK_LS	1.253E-01	L	08/08/2007 20:55	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J1QAT10	B1NJ80		MW6-SBB-A1	G07-006	W05189					06/22/2007 12:09

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7180607	H-3	10028-17-8	3.65E+01	pCi/L	1.2E+02	1.4E+02	U	2.95E+02	100.0	906.0_H3_LSC	5.00E-03	L	07/04/2007 05:00	I
7180601	BE-7	13966-02-4	-7.66E+00	pCi/L	1.8E+01	1.8E+01	U	3.11E+01		GAMMALL_GS	1.9773E+00	L	08/02/2007 22:23	I
7180601	CO-60	10198-40-0	-8.14E-01	pCi/L	1.3E+00	1.3E+00	U	2.10E+00		GAMMALL_GS	1.9773E+00	L	08/02/2007 22:23	I
7180601	CS-134	13967-70-9	-5.36E-01	pCi/L	1.8E+00	1.8E+00	U	3.28E+00		GAMMALL_GS	1.9773E+00	L	08/02/2007 22:23	I
7180601	CS-137	10045-97-3	1.01E+00	pCi/L	1.7E+00	1.7E+00	U	3.29E+00		GAMMALL_GS	1.9773E+00	L	08/02/2007 22:23	I
7180601	EU-152	14683-23-9	1.27E-01	pCi/L	3.8E+00	3.8E+00	U	6.78E+00		GAMMALL_GS	1.9773E+00	L	08/02/2007 22:23	I
7180601	EU-154	15585-10-1	-2.81E+00	pCi/L	4.6E+00	4.6E+00	U	7.73E+00		GAMMALL_GS	1.9773E+00	L	08/02/2007 22:23	I
7180601	EU-155	14391-16-3	9.23E-01	pCi/L	3.1E+00	3.1E+00	U	5.84E+00		GAMMALL_GS	1.9773E+00	L	08/02/2007 22:23	I
7180601	K-40	13966-00-2	-1.92E+01	pCi/L	3.4E+01	3.4E+01	U	7.15E+01		GAMMALL_GS	1.9773E+00	L	08/02/2007 22:23	I
7180601	RU-106	13967-48-1	-4.10E+00	pCi/L	1.5E+01	1.5E+01	U	2.59E+01		GAMMALL_GS	1.9773E+00	L	08/02/2007 22:23	I
7180601	SB-125	14234-35-6	1.12E+00	pCi/L	3.9E+00	3.9E+00	U	7.31E+00		GAMMALL_GS	1.9773E+00	L	08/02/2007 22:23	I
7180602	SR-90	10098-97-2	1.54E+00	pCi/L	3.4E-01	4.1E-01		5.47E-01	76.7	SRISO_SEP_PRE	1.0085E+00	L	08/09/2007 06:27	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:
9J1T5G10	B1NLH0		MW6-SBB-A1	W07-006	W05189					06/23/2007 10:11

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7180596	ALPHA	12587-46-1	1.85E+00	pCi/L	1.3E+00	1.3E+00		1.83E+00	100.0	9310_ALPHABETA	6.92E-02	L	08/01/2007 15:07	I

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

Monday, August 13, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id: J15C51AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05189 36324
Matrix: WATER WATER
QC Type: BLK

Collection Date: 06/21/2007 09:43
Sample On Date:
Received Date: 06/21/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7180596	ALPHA	5.00E-02	pCi/L	1.8E-01	U	3.96E-01	100.0		9310_ALPHAB	2.044E-01	08/01/2007				D
BLK	12587-46-1			1.8E-01						L	15:07				

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

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Monday, August 13, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id: J15D01AB **Sdg/Rept Nbr:** W05189 36324 **Collection Date:** 06/22/2007 12:09

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 06/22/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7180601	BE-7	-1.81E+01	pCi/L	2.6E+01	U	4.44E+01			GAMMALL_GS	1.9997E+00	08/02/2007				D
BLK	13966-02-4			2.6E+01						L	22:25				
7180601	CO-60	-1.23E+00	pCi/L	2.1E+00	U	3.57E+00			GAMMALL_GS	1.9997E+00	08/02/2007				D
BLK	10198-40-0			2.1E+00						L	22:25				
7180601	CS-134	2.06E-01	pCi/L	2.8E+00	U	5.27E+00			GAMMALL_GS	1.9997E+00	08/02/2007				D
BLK	13967-70-9			2.8E+00						L	22:25				
7180601	CS-137	-1.72E-01	pCi/L	2.0E+00	U	3.73E+00			GAMMALL_GS	1.9997E+00	08/02/2007				D
BLK	10045-97-3			2.0E+00						L	22:25				
7180601	EU-152	3.27E+00	pCi/L	5.9E+00	U	1.13E+01			GAMMALL_GS	1.9997E+00	08/02/2007				D
BLK	14683-23-9			5.9E+00						L	22:25				
7180601	EU-154	4.80E+00	pCi/L	6.0E+00	U	1.39E+01			GAMMALL_GS	1.9997E+00	08/02/2007				D
BLK	15585-10-1			6.0E+00						L	22:25				
7180601	EU-155	4.47E+00	pCi/L	4.9E+00	U	9.62E+00			GAMMALL_GS	1.9997E+00	08/02/2007				D
BLK	14391-16-3			4.9E+00						L	22:25				
7180601	K-40	-1.99E+01	pCi/L	5.6E+01	U	1.27E+02			GAMMALL_GS	1.9997E+00	08/02/2007				D
BLK	13966-00-2			5.6E+01						L	22:25				
7180601	RU-106	2.57E+00	pCi/L	2.1E+01	U	3.87E+01			GAMMALL_GS	1.9997E+00	08/02/2007				D
BLK	13967-48-1			2.1E+01						L	22:25				
7180601	SB-125	1.83E+00	pCi/L	5.1E+00	U	9.70E+00			GAMMALL_GS	1.9997E+00	08/02/2007				D
BLK	14234-35-6			5.1E+00						L	22:25				

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

Monday, August 13, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id: J15D11AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05189 36324
Matrix: WATER WATER
QC Type: BLK

Collection Date: 06/22/2007 13:17
Sample On Date:
Received Date: 06/22/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7180602	SR-90	3.60E-01	pCi/L	5.3E-01	U	1.10E+00	39.6		SRISO_SEP_P	1.0029E+00	08/09/2007				
BLK	10098-97-2			5.3E-01						L	06:27				D

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

Monday, August 13, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id: J15D91AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05189 36324
Matrix: WATER WATER
QC Type: BLK

Collection Date: 06/22/2007 12:46
Sample On Date:
Received Date: 06/22/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7180604	I-129L	5.97E-02	pCi/L	1.4E-01	U	2.76E-01	88.1		I129LL_SEP_L	3.9536E+00	08/09/2007				D
BLK	15046-84-1			1.4E-01						L	14:20				

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

Monday, August 13, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id:	J15DD1AB	**Sdg/Rept Nbr:**	W05189 36324	**Collection Date:**	06/20/2007 11:53
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	06/20/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
7180598	BETA	2.09E-01	pCi/L	1.3E+00	U	2.82E+00	100.0		9310_ALPHAB	2.044E-01	08/06/2007				D
BLK	12587-47-2			1.3E+00						L	21:13				

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

Monday, August 13, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id: J15DN1AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05189 36324
Matrix: WATER WATER
QC Type: BLK

Collection Date: 06/22/2007 12:00
Sample On Date:
Received Date: 06/22/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7180599	BE-7	3.22E+00	pCi/L	2.2E+01	U	4.01E+01			GAMMA_GS	2.4994E+00	08/07/2007				D
BLK	13966-02-4			2.2E+01						L	12:28				
7180599	CO-60	-8.94E-01	pCi/L	1.9E+00	U	3.26E+00			GAMMA_GS	2.4994E+00	08/07/2007				D
BLK	10198-40-0			1.9E+00						L	12:28				
7180599	CS-134	7.06E-01	pCi/L	2.0E+00	U	3.79E+00			GAMMA_GS	2.4994E+00	08/07/2007				D
BLK	13967-70-9			2.0E+00						L	12:28				
7180599	CS-137	-9.52E-02	pCi/L	1.8E+00	U	3.26E+00			GAMMA_GS	2.4994E+00	08/07/2007				D
BLK	10045-97-3			1.8E+00						L	12:28				
7180599	EU-152	2.24E+00	pCi/L	4.5E+00	U	8.19E+00			GAMMA_GS	2.4994E+00	08/07/2007				D
BLK	14683-23-9			4.5E+00						L	12:28				
7180599	EU-154	2.31E+00	pCi/L	5.8E+00	U	1.12E+01			GAMMA_GS	2.4994E+00	08/07/2007				D
BLK	15585-10-1			5.8E+00						L	12:28				
7180599	EU-155	5.85E+00	pCi/L	4.7E+00	U	8.91E+00			GAMMA_GS	2.4994E+00	08/07/2007				D
BLK	14391-16-3			4.7E+00						L	12:28				
7180599	K-40	-2.75E+01	pCi/L	5.4E+01	U	1.16E+02			GAMMA_GS	2.4994E+00	08/07/2007				D
BLK	13966-00-2			5.4E+01						L	12:28				
7180599	RU-106	-1.67E+01	pCi/L	1.6E+01	U	2.40E+01			GAMMA_GS	2.4994E+00	08/07/2007				D
BLK	13967-48-1			1.6E+01						L	12:28				
7180599	SB-125	-2.96E+00	pCi/L	4.5E+00	U	7.67E+00			GAMMA_GS	2.4994E+00	08/07/2007				D
BLK	14234-35-6			4.5E+00						L	12:28				

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

Monday, August 13, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id:	J15DR1AB	**Sdg/Rept Nbr:**	W05189	36324	**Collection Date:** 06/21/2007 12:27
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 06/21/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7180600	U-234	2.75E-02	pCi/L	7.0E-02	U	1.64E-01	96.8		UISO_PLATE_	1.982E-01	07/31/2007				D
BLK	13966-29-5			7.0E-02						L	19:18				
7180600	U-235	0.00E+00	pCi/L	7.0E-02	U	1.64E-01	96.8		UISO_PLATE_	1.982E-01	07/31/2007				D
BLK	15117-96-1			7.0E-02						L	19:18				
7180600	U-238	0.00E+00	pCi/L	7.0E-02	U	1.64E-01	96.8		UISO_PLATE_	1.982E-01	07/31/2007				D
BLK	U-238			7.0E-02						L	19:18				

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

Monday, August 13, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id:	J15EC1AB	**Sdg/Rept Nbr:**	W05189 36324	**Collection Date:**	06/21/2007 09:43
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	06/21/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7180605	Uranium	0.00E+00	ug/L	0.0E+00	U	8.22E-02			UTOT_KPA	2.55E-02	08/02/2007				D
BLK	7440-61-1			0.0E+00						ML	14:33				

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

Monday, August 13, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id:	J15EJ1AB	**Sdg/Rept Nbr:**	W05189	36324	**Collection Date:** 06/22/2007 12:09
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 06/22/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7180607	H-3	-7.39E+01	pCi/L	1.3E+02	U	2.95E+02	100.0		906.0_H3_LSC	5.00E-03	07/03/2007				D
BLK	10028-17-8			1.2E+02						L	18:06				

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

Monday, August 13, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id: J15EJ1DX **Sdg/Rept Nbr:** W05189 36324 **Collection Date:** 06/22/2007 12:09

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 06/22/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7180607	H-3	9.32E+01	pCi/L	1.4E+02	U	3.02E+02	100.0		906.0_H3_LSC	5.00E-03	07/03/2007				D
BLK	10028-17-8			1.3E+02						L	20:49				

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

Monday, August 13, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id: J39KH1AB **Sdg/Rept Nbr:** W05189 36324 **Collection Date:** 06/22/2007 12:46

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 06/22/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7218239	TC-99	-2.35E+00	pCi/L	5.6E+00	U	1.01E+01	100.0		TC99_ETVDSK	1.257E-01	08/07/2007				D
BLK	14133-76-7			4.1E+00						L	19:26				

TAL Richland

rptFeadRadEdd v3.68

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

Monday, August 13, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id:	J3T291AB	**Sdg/Rept Nbr:**	W05189 36324	**Collection Date:**	06/21/2007 12:27
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	06/21/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7211164	SR-90	1.52E-01	pCi/L	2.4E-01	U	5.09E-01	85.7		SRISO_SEP_P	9.977E-01	08/09/2007				D
BLK	10098-97-2			1.9E-01						L	06:27				

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

Monday, August 13, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id: J15C51CS **Sdg/Rept Nbr:** W05189 36324 **Collection Date:** 06/21/2007 09:43

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 06/21/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7180596	ALPHA	2.04E+01	pCi/L	4.9E+00		4.09E-01	100.0	2.29E+01	9310_ALPHAB	1.988E-01	08/01/2007			70	D
BS	12587-46-1			1.5E+00				88.9		L	15:07			130	

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

Monday, August 13, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id: J15D01CS **Sdg/Rept Nbr:** W05189 36324 **Collection Date:** 06/22/2007 12:09

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 06/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
7180601	CO-60	3.84E+01	pCi/L	9.1E+00		5.42E+00		3.79E+01	GAMMALL_GS	2.0015E+00	08/02/2007			75	D
BS	10198-40-0			9.1E+00				101.3		L	22:26			125	
7180601	CS-137	2.87E+01	pCi/L	7.7E+00		5.57E+00		2.31E+01	GAMMALL_GS	2.0015E+00	08/02/2007			70	D
BS	10045-97-3			7.7E+00				123.9		L	22:26			130	
7180601	EU-152	6.94E+01	pCi/L	2.0E+01		1.71E+01		7.63E+01	GAMMALL_GS	2.0015E+00	08/02/2007			70	D
BS	14683-23-9			2.0E+01				90.9		L	22:26			130	

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

Monday, August 13, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id: J15D11CS **Sdg/Rept Nbr:** W05189 36324 **Collection Date:** 06/22/2007 13:17

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 06/22/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7180602	SR-90	1.34E+01	pCi/L	2.2E+00		9.05E-01	43.6	1.35E+01	SRISO_SEP_P	9.989E-01	08/09/2007			70	D
BS	10098-97-2			1.0E+00				99.4		L	06:27			130	

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

Monday, August 13, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id: J15D91CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05189 36324
Matrix: WATER WATER
QC Type: BS

Collection Date: 06/22/2007 12:46
Sample On Date:
Received Date: 06/22/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7180604	I-129L	9.91E+00	pCi/L	1.3E+00		4.25E-01	91.1	9.74E+00	I129LL_SEP_L	3.93E+00	08/09/2007			70	D
BS	15046-84-1			1.3E+00				101.8		L	16:04			130	

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

Monday, August 13, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id: J15DD1CS **Sdg/Rept Nbr:** W05189 36324 **Collection Date:** 06/20/2007 11:53

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 06/20/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7180598	BETA	2.10E+01	pCi/L	3.6E+00		2.45E+00	100.0	2.25E+01	9310_ALPHAB	2.016E-01	08/06/2007			70	D
BS	12587-47-2			2.3E+00				93.4		L	21:13			130	

TAL Richland

rptFeadRadEdd v3.68

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

Monday, August 13, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id: J15DN1CS **Sdg/Rept Nbr:** W05189 36324 **Collection Date:** 06/22/2007 12:00

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 06/22/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7180599	CO-60	3.02E+01	pCi/L	6.3E+00		2.77E+00		3.04E+01	GAMMA_GS	2.5059E+00	08/07/2007			75	D
BS	10198-40-0			6.3E+00				99.5		L	12:28			125	
7180599	CS-137	1.80E+01	pCi/L	4.5E+00		3.25E+00		1.86E+01	GAMMA_GS	2.5059E+00	08/07/2007			70	D
BS	10045-97-3			4.5E+00				96.5		L	12:28			130	
7180599	EU-152	5.90E+01	pCi/L	1.3E+01		9.21E+00		6.11E+01	GAMMA_GS	2.5059E+00	08/07/2007			70	D
BS	14683-23-9			1.3E+01				96.5		L	12:28			130	

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

Monday, August 13, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id: J15DR1CS **Sdg/Rept Nbr:** W05189 36324 **Collection Date:** 06/21/2007 12:27

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 06/21/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7180600	U-234	9.25E+00	pCi/L	2.0E+00		1.90E-01	83.6	8.78E+00	UISO_PLATE_	1.982E-01	07/31/2007			75	D
BS	13966-29-5			1.2E+00				105.4		L	22:55			125	
7180600	U-235	3.58E-01	pCi/L	2.5E-01		1.90E-01	83.6	4.00E-01	UISO_PLATE_	1.982E-01	07/31/2007			75	D
BS	15117-96-1			2.4E-01				89.3		L	22:55			125	
7180600	U-238	1.05E+01	pCi/L	2.2E+00		1.90E-01	83.6	9.19E+00	UISO_PLATE_	1.982E-01	07/31/2007			75	D
BS	U-238			1.3E+00				114.1		L	22:55			125	

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

Monday, August 13, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id: J15EC1CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05189 36324
Matrix: WATER WATER
QC Type: BS

Collection Date: 06/21/2007 09:43
Sample On Date:
Received Date: 06/21/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7180605	Uranium	3.70E+01	ug/L	4.3E+00		8.38E-02		3.61E+01	UTOT_KPA	2.50E-02	08/02/2007			75	D
BS	7440-61-1			4.3E+00				102.5		ML	14:37			125	

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

Monday, August 13, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id: J15EC1DS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05189 36324
Matrix: WATER WATER
QC Type: BS

Collection Date: 06/21/2007 09:43
Sample On Date:
Received Date: 06/21/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7180605	Uranium	3.57E+00	ug/L	3.6E-01		8.35E-02		3.55E+00	UTOT_KPA	2.51E-02	08/02/2007			75	D
BS	7440-61-1			3.6E-01				100.5		ML	14:38			125	

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

Monday, August 13, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id: J15EJ1CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05189 36324
Matrix: WATER WATER
QC Type: BS

Collection Date: 06/22/2007 12:09
Sample On Date:
Received Date: 06/22/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7180607	H-3	2.60E+03	pCi/L	2.5E+02		2.96E+02	100.0	2.71E+03	906.0_H3_LSC	5.00E-03	07/03/2007			75	D
BS	10028-17-8			2.0E+02				95.8		L	19:27			125	

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

Monday, August 13, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id: J15EJ1EM **Sdg/Rept Nbr:** W05189 36324 **Collection Date:** 06/22/2007 12:09

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 06/22/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7180607	H-3	2.56E+03	pCi/L	2.5E+02		2.96E+02	100.0	2.71E+03	906.0_H3_LSC	5.00E-03	07/03/2007			75	D
BS	10028-17-8			2.0E+02				94.2		L	22:11			125	

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

Monday, August 13, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id: J39KH1CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05189 36324
Matrix: WATER WATER
QC Type: BS

Collection Date: 06/22/2007 12:46
Sample On Date:
Received Date: 06/22/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7218239	TC-99	4.77E+02	pCi/L	3.4E+01		9.97E+00	100.0	5.24E+02	TC99_ETVDSK	1.275E-01	08/07/2007			70	D
BS	14133-76-7			1.2E+01				91.0		L	20:29			130	

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

Monday, August 13, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id: J3T291CS **Sdg/Rept Nbr:** W05189 36324 **Collection Date:** 06/21/2007 12:27

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 06/21/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7211164	SR-90	1.50E+01	pCi/L	2.3E+00		5.22E-01	78.6	1.35E+01	SRISO_SEP_P	1.0037E+00	08/09/2007			70	D
BS	10098-97-2			7.9E-01				110.6		L	08:13			130	

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

Monday, August 13, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id: J1JM71ER **Sdg/Rept Nbr:** W05189 36324 **Collection Date:** 06/20/2007 11:53

Client Id: B1NKY6 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 06/20/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-006	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
7180598	BETA	3.28E+01	pCi/L	5.5E+00		2.93E+00	100.0		9310_ALPHAB	1.963E-01	08/06/2007	.8	0.1		D
DUP	12587-47-2	3.31E+01		3.1E+00						L	18:12	20.0	3		

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

Monday, August 13, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id: J1P5M1CR
Client Id: B1NL39
Moisture/Solids%*:

Sdg/Rept Nbr: W05189 36324
Matrix: WATER WATER
QC Type: DUP

Collection Date: 06/21/2007 09:43
Sample On Date:
Received Date: 06/21/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-006	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
7180605	Uranium	3.01E+01	ug/L	3.5E+00		8.42E-02			UTOT_KPA	2.49E-02	08/02/2007	1.1	0.1		D
DUP	7440-61-1	2.98E+01		3.5E+00						ML	14:50	20.0	3		

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

Monday, August 13, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id:	J1P7X1HR	**Sdg/Rept Nbr:**	W05189 36324	**Collection Date:**	06/21/2007 12:27
Client Id:	B1NT04	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	06/21/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-006	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
7180600	U-234	7.60E-02	pCi/L	1.2E-01	U	2.02E-01	110.0		UISO_PLATE_	1.992E-01	07/31/2007	73.9	1.		D
DUP	13966-29-5	1.65E-01		1.2E-01						L	19:18	20.0	3		
7180600	U-238	-8.45E-03	pCi/L	8.6E-02	U	2.02E-01	110.0		UISO_PLATE_	1.992E-01	07/31/2007	244.6	1.5		D
DUP	U-238	8.43E-02		8.6E-02						L	19:18	20.0	3		

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

Monday, August 13, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id: J1P7X1JR
Client Id: B1NT04
Moisture/Solids%*:

Sdg/Rept Nbr: W05189 36324
Matrix: WATER WATER
QC Type: DUP

Collection Date: 06/21/2007 12:27
Sample On Date:
Received Date: 06/21/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-006	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
7211164	SR-90	2.86E-01	pCi/L	2.9E-01	U	5.81E-01	79.7		SRISO_SEP_P	1.0052E+00	08/09/2007	446.4	1.9		D
DUP	10098-97-2	-1.09E-01		2.9E-01						L	06:27	20.0	3		

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

Monday, August 13, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id:	J1P881CR	**Sdg/Rept Nbr:**	W05189 36324	**Collection Date:**	06/22/2007 13:17
Client Id:	B1NJC6	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	06/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I07-048	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
7180602	SR-90	5.43E+02	pCi/L	8.0E+01		5.74E-01	70.8		SRISO_SEP_P	1.0029E+00	08/09/2007	9.9	0.9		D
DUP	10098-97-2	4.92E+02		4.6E+00						L	06:27	20.0	3		

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

Monday, August 13, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id:	J1P8D2ER	**Sdg/Rept Nbr:**	W05189	36324	**Collection Date:**	06/21/2007 09:43
Client Id:	B1NKN0	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:**	06/21/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-006	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
7180596	ALPHA	1.14E+01	pCi/L	3.5E+00		1.18E+00	100.0		9310_ALPHAB	1.777E-01	08/03/2007	6.6	0.3		D
DUP	12587-46-1	1.06E+01		2.3E+00						L	15:47	20.0	3		

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

Monday, August 13, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id: J1P9E1ER **Sdg/Rept Nbr:** W05189 36324 **Collection Date:** 06/22/2007 12:00

Client Id: B1NJ56 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 06/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
G07-006	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
7180599	BE-7	-6.65E+00	pCi/L	2.0E+01	U	3.46E+01			GAMMA_GS	2.503E+00	08/07/2007	0.0	0.3		D
DUP	13966-02-4	-2.77E+00		2.0E+01						L	14:23	20.0	3		
7180599	CO-60	1.30E+00	pCi/L	2.2E+00	U	4.67E+00			GAMMA_GS	2.503E+00	08/07/2007	52.7	0.6		D
DUP	10198-40-0	2.23E+00		2.2E+00						L	14:23	20.0	3		
7180599	CS-134	-8.41E-02	pCi/L	1.5E+00	U	2.95E+00			GAMMA_GS	2.503E+00	08/07/2007	0.0	0.2		D
DUP	13967-70-9	-2.68E-01		1.5E+00						L	14:23	20.0	3		
7180599	CS-137	-9.74E-01	pCi/L	1.7E+00	U	2.97E+00			GAMMA_GS	2.503E+00	08/07/2007	0.0	0.4		D
DUP	10045-97-3	-4.25E-01		1.7E+00						L	14:23	20.0	3		
7180599	EU-152	-5.22E-01	pCi/L	4.1E+00	U	7.21E+00			GAMMA_GS	2.503E+00	08/07/2007	0.0	0.7		D
DUP	14683-23-9	-2.43E+00		4.1E+00						L	14:23	20.0	3		
7180599	EU-154	3.02E+00	pCi/L	3.2E+00	U	8.54E+00			GAMMA_GS	2.503E+00	08/07/2007	87.2	2.		D
DUP	15585-10-1	7.69E+00		3.2E+00						L	14:23	20.0	3		
7180599	EU-155	-7.62E-01	pCi/L	3.6E+00	U	6.21E+00			GAMMA_GS	2.503E+00	08/07/2007	0.0	0.1		D
DUP	14391-16-3	-9.84E-01		3.6E+00						L	14:23	20.0	3		
7180599	K-40	-1.17E+01	pCi/L	2.2E+01	U	4.58E+01			GAMMA_GS	2.503E+00	08/07/2007	0.0	3.2		D
DUP	13966-00-2	-6.22E+01		2.2E+01						L	14:23	20.0	3		
7180599	RU-106	2.77E+00	pCi/L	1.4E+01	U	2.79E+01			GAMMA_GS	2.503E+00	08/07/2007	430.4	0.4		D
DUP	13967-48-1	-1.01E+00		1.4E+01						L	14:23	20.0	3		
7180599	SB-125	-3.20E+00	pCi/L	4.0E+00	U	6.46E+00			GAMMA_GS	2.503E+00	08/07/2007	0.0	1.6		D
DUP	14234-35-6	1.37E+00		4.0E+00						L	14:23	20.0	3		

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

Monday, August 13, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id: J1QAH1FR
Client Id: B1NHX4
Moisture/Solids%*:

Sdg/Rept Nbr: W05189 36324
Matrix: WATER WATER
QC Type: DUP

Collection Date: 06/22/2007 12:46
Sample On Date:
Received Date: 06/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A07-006	MW6-SBB-A19981								CB	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7180604	I-129L	6.93E-02	pCi/L	1.5E-01	U	2.93E-01	94.6		I129LL_SEP_L	3.9041E+00	08/09/2007	27.7	0.2		D
DUP	15046-84-1	9.15E-02		1.5E-01						L	14:19	20.0	3		

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

Monday, August 13, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id: J1QAT1ER **Sdg/Rept Nbr:** W05189 36324 **Collection Date:** 06/22/2007 12:09

Client Id: B1NJ80 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 06/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
G07-006	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
7180601	BE-7	1.53E+00	pCi/L	1.9E+01	U	3.47E+01			GAMMALL_GS	1.9121E+00	08/02/2007	0.0	0.7		D
DUP	13966-02-4	-7.66E+00		1.9E+01						L	22:24	20.0	3		
7180601	CO-60	-2.16E+00	pCi/L	2.0E+00	U	3.08E+00			GAMMALL_GS	1.9121E+00	08/02/2007	0.0	0.9		D
DUP	10198-40-0	-8.14E-01		2.0E+00						L	22:24	20.0	3		
7180601	CS-134	1.14E+00	pCi/L	1.8E+00	U	3.72E+00			GAMMALL_GS	1.9121E+00	08/02/2007	556.1	1.3		D
DUP	13967-70-9	-5.36E-01		1.8E+00						L	22:24	20.0	3		
7180601	CS-137	1.86E+00	pCi/L	1.5E+00	U	3.25E+00			GAMMALL_GS	1.9121E+00	08/02/2007	59.5	0.8		D
DUP	10045-97-3	1.01E+00		1.5E+00						L	22:24	20.0	3		
7180601	EU-152	-2.87E-01	pCi/L	3.9E+00	U	6.96E+00			GAMMALL_GS	1.9121E+00	08/02/2007	0.0	0.1		D
DUP	14683-23-9	1.27E-01		3.9E+00						L	22:24	20.0	3		
7180601	EU-154	-3.12E-01	pCi/L	4.7E+00	U	9.18E+00			GAMMALL_GS	1.9121E+00	08/02/2007	0.0	0.8		D
DUP	15585-10-1	-2.81E+00		4.7E+00						L	22:24	20.0	3		
7180601	EU-155	1.24E+00	pCi/L	2.9E+00	U	5.50E+00			GAMMALL_GS	1.9121E+00	08/02/2007	29.5	0.2		D
DUP	14391-16-3	9.23E-01		2.9E+00						L	22:24	20.0	3		
7180601	K-40	-3.97E+00	pCi/L	3.3E+01	U	7.33E+01			GAMMALL_GS	1.9121E+00	08/02/2007	0.0	0.7		D
DUP	13966-00-2	-1.92E+01		3.3E+01						L	22:24	20.0	3		
7180601	RU-106	-6.41E+00	pCi/L	1.6E+01	U	2.78E+01			GAMMALL_GS	1.9121E+00	08/02/2007	0.0	0.2		D
DUP	13967-48-1	-4.10E+00		1.6E+01						L	22:24	20.0	3		
7180601	SB-125	2.04E+00	pCi/L	3.8E+00	U	7.37E+00			GAMMALL_GS	1.9121E+00	08/02/2007	57.8	0.3		D
DUP	14234-35-6	1.12E+00		3.8E+00						L	22:24	20.0	3		

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

Monday, August 13, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id: J1QAT1FR
Client Id: B1NJ80
Moisture/Solids%*:

Sdg/Rept Nbr: W05189 36324
Matrix: WATER WATER
QC Type: DUP

Collection Date: 06/22/2007 12:09
Sample On Date:
Received Date: 06/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
G07-006	MW6-SBB-A19981								CD	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7180607	H-3	1.31E+02	pCi/L	1.4E+02	U	2.95E+02	100.0		906.0_H3_LSC	5.00E-03	07/04/2007	112.9	0.9		D
DUP	10028-17-8	3.65E+01		1.3E+02						L	06:21	20.0	3		

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

Monday, August 13, 2007

TAL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05189.Edd, h:\Reportdb\edd\FeadIV\Rad\36324.Edd

Lab Sample Id: J1P5P1EW **Sdg/Rept Nbr:** W05189 36324 **Collection Date:** 06/21/2007 10:58
Client Id: B1NL43 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** MS **Received Date:** 06/21/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-006	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
7180605	Uranium	3.89E+01	ug/L	1.5E+01		8.42E-02		3.62E+01	UTOT_KPA	2.49E-02	08/02/2007			60	D
MS	7440-61-1			1.5E+01				107.3		ML	14:54			140	

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

SEVERN TRENT **STL**

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

8/3/2007 3:31:14 PM

Lot No., Due Date: J7F250152; 08/10/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7180600; RUISO Uiso by ALP

SDG, Matrix: W05189; WATER

1.0 COC

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

2.0 QC Batch

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

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

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

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

3.0 QC & Samples

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

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

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

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

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

4.0 Raw Data

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

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

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

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

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

5.0 Other

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

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

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

5.4 Was transcription checked? Yes ✓ No N/A

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

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 8-3-7

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7180600
W05189

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

Comments on any "No" response:

Second Level Review: Sheryl A Adam Date: 8-6-07

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

8/6/2007 2:39:29 PM

Lot No., Due Date: J7F210406,J7F250145,J7F250154,J7F250152,J7F260289; 08/10/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7180596; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05189; 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:
Please see NCM#10-10549

First Level Review Jeb Norte **Date** 8-7-7

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7180594
W05189

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

Comments on any "No" response: See NCM

Second Level Review: Sheryl R Adkins Date: ~~8-9~~ 8-6-07

Clouseau
Nonconformance Memo

STL

NCM #: 10-10549
NCM Initiated By: John Norton
Date Opened: 08/06/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: None
Lot #'s (Sample #'s): J7F250154 (2),
QC Batches: None.,

Nonconformance: Dups not within acceptance limits
Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
John Norton	08/06/2007	The activity detected in the sample and the duplicate were not within acceptable agreement.

Corrective Action

Name	Date	Corrective Action
John Norton	08/06/2007	The sample and the duplicate were re-counted for a somewhat longer period of time to improve the counting statistics, the results agree to a relative percent difference of 7.3%.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 8/6/2007

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

8/7/2007 4:29:27 PM

Lot No., Due Date: J7F210406,J7F250145,J7F250154,J7F250152; 08/10/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7180598; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05189; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	✓		
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used OK	✓		
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK	✓		
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	✓		
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => J1JM71AC BETA 3.3E+01 L:2.8E+00 J1P5P1AC BETA 2.8E+01 L:3.1E+00 J1P5W1AC BETA 3.7E+01 L:3.2E+00 J1P7X1AD BETA 4.3E+00 L:2.9E+00 J1P761AC BETA 1.8E+01 L:2.9E+00 J1P8D1AC BETA 1.7E+01 L:2.8E+00 J1P8F1AC BETA 2.0E+01 L:2.7E+00 J1P8L1AC BETA 2.6E+01 L:2.8E+00		✓	
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => BETA	✓		

OK; No Callin Level Found => BETA

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

OK

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

No FWHM found in Batch Data!

8.26 Instruments have Current Calibrations. Yes No N/A

8.27 Correct Count Library Used. Yes No N/A

No Count Library found in Batch Data!

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

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

8.3 Comments:

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

OK

First Level Review Lisa Anderson Date 8/7/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7180598
W05189

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

Comments on any "No" response:

Second Level Review: Cheryl A. Adam Date: 8-8-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

8/10/2007 2:40:37 PM

Lot No., Due Date: J7F250152,J7F250159,J7F250154,J7F250160,J7F250165; 08/10/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7180602; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05189; 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:

Samples J1P7XAE and J1P991AD were lost in process and are reanalyzed in batch 7211164. See NCM # 10-10582.

First Level Review John Morton **Date** 8-10-7

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 718002
W05189

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

Comments on any "No" response: See NCM

Second Level Review: Sheryl R. Adam Date: 8-13-07

Clouseau
Nonconformance Memo

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

NCM #: 10-10582
NCM Initiated By: Matt Lardy
Date Opened: 08/10/2007
Date Closed:

Classification: **Deficiency**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Sr-85/90 by GPC-7
Lot #'s (Sample #'s): J7F250152 (1), J7F250160 (4),
QC Batches: 7180602,

Nonconformance: Analysis Not Performed
Subcategory: Result cannot be reported

Problem Description / Root Cause

Name	Date	Description
Matt Lardy	08/10/2007	Client: Hanford, PGW Samples J1P7X1AE and J1P991AD were lost in process they are reanalyzed in batch 7211164.

Corrective Action

Name	Date	Corrective Action
Matt Lardy	08/10/2007	The remaining sample results in the batch will be reported.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 8/10/2007

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

8/10/2007 2:45:14 PM

Lot No., Due Date: J7F250152,J7F250160; 08/10/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7211164; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05189; 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:

In this batch are the samples from batch 7180602 that were lost in process and reanalyzed in this batch.

First Level Review John Norris Date 8-10-7

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 721164
W05189

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: Cheryl A Adam Date: 8-13-07

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

8/6/2007 8:33:22 AM

Lot No., Due Date: J7F250160,J7F250165; 08/10/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7180601; RGAMMA Gamma by GER

SDG, Matrix: W05189; WATER

1.0 COC

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

2.0 QC Batch

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

3.0 QC & Samples

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

4.0 Raw Data

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

5.0 Other

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

6.0 Comments on any No response:

First Level Review Lisa Antonson Date 8/6/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7180601
W05189

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

Comments on any "No" response: _____

Second Level Review: Sheryl A. Adam Date: 8-6-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

8/8/2007 1:49:37 PM

Lot No., Due Date: J7F250160; 08/10/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7180599; RGAMMA Gamma by GER

SDG, Matrix: W05189; WATER

1.0 COC

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

2.0 QC Batch

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

3.0 QC & Samples

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

4.0 Raw Data

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

5.0 Other

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

6.0 Comments on any No response:

First Level Review Lisa Antonson **Date** 8/8/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7180599
W05189

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

Comments on any "No" response:

Second Level Review: Cheryl A. Wilson Date: 8-8-07

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

8/10/2007 10:55:57 AM

Lot No., Due Date: J7F250163; 08/10/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7180604; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05189; WATER

1.0 COC

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

2.0 QC Batch

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

3.0 QC & Samples

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

4.0 Raw Data

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

5.0 Other

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

6.0 Comments on any No response:

First Level Review Marie Lardy Date 8-10-07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7180604
W05189

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

Comments on any "No" response:

Second Level Review: Sheryl A. Adam Date: 5-15-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

8/10/2007 2:16:36 PM

Lot No., Due Date: J7F250163; 08/10/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7218239; RTC99 Tc-99 by LSC

SDG, Matrix: W05189; 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 # 10-10581 for information on the reason for batch reanalysis and recounting sample J1QAH2AC.

First Level Review Matt Hardy Date 8-10-07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7L18239
W05189

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: Cheryl R Adam Date: 8-13-07

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

Clouseau
Nonconformance Memo

TestAmerica

NCM #:	10-10581		
NCM Initiated By:	Matt Lardy	Classification:	**Deficiency**
Date Opened:	08/10/2007	Status:	**GLREVIEW**
Date Closed:		Production Area:	Environmental - Prep
		Tests:	Tc-99 by LSC
		Lot #'s (Sample #'s):	J7F250163 (1), J7H060000 (239),
		QC Batches:	7218239,
Nonconformance:	QC Result Out of Limits		
Subcategory:	Analyte was recovered low in the LCS		

Problem Description / Root Cause

Name	Date	Description
Matt Lardy	08/10/2007	Client: Hanford, PGW

The LCS was recovered low and outside of criteria. The batch started as 7180603. The batch was reanalyzed as batch 7218239. However there was inadequate sample for preparing a duplicate and matrix spike. The LCS was acceptable on batch 7218239.

The TSIE was high, out of calibration range, on sample J1QAH2AC. The sample vial was wiped and mixed and recounted. The TSIE was acceptable on the recount.

Corrective Action

Name	Date	Corrective Action
Matt Lardy	08/10/2007	The results will be reported.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/6/2007 5:56:20 PM

Lot No., Due Date: J7F250152,J7F250160,J7F250165; 08/10/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7180607; RTRITIUM H-3 by LSC

SDG, Matrix: W05189; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	✓		
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used Analysis Volume => J1P7X1AA 5.00<10.00 J1P9E1AA 5.00<10.00 J1P9N1AA 5.00<10.00 J1P991AA 5.00<10.00 J1QAT1AA 5.00<10.00 Q:VB OK AL 7/6/07		✓	
8.07 The Correct Count Geometry was Used. Count Geometry => J15EJ1AF SVP15/5<>SVP10/10 J15EJ1AG SVP15/5<>SVP10/10 J15EJ1AA SVP15/5<>SVP10/10 J15EJ1AC SVP15/5<>SVP10/10 J15EJ1AD SVP15/5<>SVP10/10 J15EJ1AE SVP15/5<>SVP10/10 J1P7X1AA SVP15/5<>SVP10/10 J1P9E1AA SVP15/5<>SVP10/10 J1P9N1AA SVP15/5<>SVP10/10 J1P991AA SVP15/5<>SVP10/10 J1QAT1AA SVP15/5<>SVP10/10 J1QAT1AF SVP15/5<>SVP10/10 Q:VC OK AL 7/6/07		✓	
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. OK	✓		
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. RPD > UCL : 20.0=> J1QAT1AF H-3 110.0 (RPD) OK AL 7/6/07		✓	
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. OK	✓		
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. No Tracers found in Batch!			✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!			✓
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			

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

8.22 Result < Mdc, Activity Not Detected, U Flag. Yes ✓ No N/A
No Positive Results
OK Calc_IDL Not Calculated

8.23 Result <= Action Level, when Defined. Yes ✓ No N/A
OK; No Action Level Found => H-3

OK; No Callin Level Found => H-3

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

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

8.26 Instruments have Current Calibrations. Yes No N/A

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

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

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

8.3 Comments:

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

First Level Review Angela Long Date 7/6/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7180607
W05189

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

Comments on any "No" response:

Second Level Review: Sheryl A. Adam Date: 7-9-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

8/7/2007 7:27:02 AM

Lot No., Due Date: J7F210406,J7F250145,J7F250154,J7F250152; 08/10/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7180605; RUNAT UNat by KPA

SDG, Matrix: W05189; 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 John Martin **Date** 8-7-7

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7180605
W05189

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

Comments on any "No" response:

Second Level Review: Sheryl A. Adam Date: 8-7-07

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7F210406 W05189 Due 08·03·07

C.O.C. # S07-006-216

Page 1 of 1

Collector: Fluor Hanford K. B. HULSE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JUNE 2007	HNF-N-506 & pg 57	Ice Chest No.: GW0-0612 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: SURV	Priority: 45 Days	Offsite Property No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** 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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NKY6		W	6/20/07	1153	1x20-mL P	Activity Scan	None
B1NKY6		W	6/20/07	1153	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1NKY6		W	6/20/07	1153	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JJM7	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford K. B. HULSE			JUN 20 2007 1300		S. Smith	S. Smith	06/20/07 1300
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

SFL RICHLAND

79

STL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

JTF 210406 W05189 Due 08.03.07

C.O.C. # S07-006-240

Page 1 of 1

Collector: Fluor Hanford K. B. HULSE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JUNE 2007	HNF-N-506 & Pg 57	Ice Chest No.: GW0-J6-72 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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NL11		W	6/20/07	1022	1x20-mL P	Activity Scan	None
B1NL11		W	6/20/07	1022	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JTJM9	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford K. B. HULSE		JUN 20 2007	1300		S. Smith	S. Smith	06/20/07 1300
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

FLUOR HANFORD

Fluor Hanford
K. B. HULSE

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7F210406 W05789 Due 08-03-07

C.O.C. # S07-006-241

Page 1 of 1

Collector	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JUNE 2007	HNF-N-506-8 Pg 57	Ice Chest No. AW0-06 Temp. 2
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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NL12		W	6/20/07	08:10	1x20-mL P	Activity Scan	None
B1NL12		W	6/20/07	08:10	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JIJNA	

Relinquished By	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford K. B. HULSE	K B Hulse	JUN 20 2007 1300	S Smith	S Smith	S Smith	06/20/07 1300
Relinquished By		Date/Time	Received By			Date/Time
Relinquished By		Date/Time	Received By			Date/Time
Relinquished By		Date/Time	Received By			Date/Time

Matrix *

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

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 06/20/07 1300

Client: PGW SDG #: W05189 NA [ ] SAF #: 807-006 NA [ ]

Work Order Number: J7F210406 Chain of Custody # 807-006-216, 240, 241

Shipping Container ID: _____ Air Bill # _____

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

Sample Custodian: [signature] Date: 06/20/07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

SIT RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7F250145 W05189 Due 08.06.07

C.O.C. # S07-006-276

Page 1 of 1

Collector: Fluor Hanford F. M. HALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JUNE 2007	HNF-N-5067	Ice Chest No.: 5KINS 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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NL39		W	6-21-07	0943	1x20-mL P	Activity Scan	None
B1NL39		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JIP5M	

Relinquished By	Date/Time	Received By	Date/Time
Fluor Hanford F. M. HALL (Print / Sign)	JUN 21 2007 1345	LINDSEY ANDERSON (Print / Sign)	JUN 21 2007 1345

Matrix *

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

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

STL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

JTF250145 W05189 Due 08-06-07

C.O.C. # S07-006-282

Page 1 of 1

Collector: Fluor Hanford F. M. HALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JUNE 2007	HNF-N-506 7	Ice Chest No.: S+INS 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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NL43		W	6-21-07	1058	1x20-mL P	Activity Scan	None
B1NL43		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1NL43		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JIP5P	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F. M. HALL			1345 JUN 21 2007	LINDSEY ANDERSON			1345 JUN 21 2007
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

JTF250145 W05189 Due 08.06.07

C.O.C. # S07-006-288

Page 1 of 1

Collector: Fluor Hanford F.M. HALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV. JUNE 2007	HNF-N-506 7	Ice Chest No. 5+INP 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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NL47		W	6-21-07	1212	1x20-mL P	Activity Scan	None
B1NL47		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1NL47		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JIP5W	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F.M. HALL			1345 JUN 21 2007	LINDSEY ANDERSON			1345 JUN 21 2007
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

JTF250145 W05189 due 08 06 07

C.O.C. # S07-006-300

Page 1 of 1

Collector: Fluor Hanford F.M. HALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869	MSIN:	FAX:
SAF No.: S07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code:		
Project Title: SURV. JUNE 2007	HNF-N-5067	Ice Chest No.: SKINS	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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NL51		W	6-21-07	1307	1x20-mL P	Activity Scan	None
B1NL51		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JIP50	

1345 345

Relinquished By	Date/Time	Received By	Date/Time
Fluor Hanford F.M. HALL (Print / Sign)	JUN 21 2007	VINDSOY/AVDOSON	JUN 21 2007

Matrix *

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

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 6/21/07 13:45 P

Client: Fluor Hanf SDG #: W05189 NA [ ] SAF #: 807-006 NA [ ]

Work Order Number: J7F250145 Chain of Custody # 807-006-276, 282, 288, 300

Shipping Container ID: _____ Air Bill # _____

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

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

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

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

6. Number of samples in shipping container: 4

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

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

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

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

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

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

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

Sample Custodian: [signature] Date: 6/21/07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date 6/21/07

LS-023, 9/03, Rev. 5

STL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

JTF250152 W05189 Due 08-06-07

C.O.C. # **W07-006-481**

Page 1 of 1

Collector: Fluor Hanford D. R. BREWINGTON	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, JUNE 2007	Logbook: HNF-N-506-6	Ice Chest No.: SML-125 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
** **

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NT04		W	6/21/07	1227	1x20-mL P	Activity Scan	None
B1NT04		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1NT04		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1NT04		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1NT04		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1NT04		W			1x1000-mL G/P	UISO_PLATE_AEA: List-1 (3)	HNO3 to pH <2
						JIP7X	
			L. Wall		6/21/07		

1400 1400

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON	D.R. Brewington		JUN 21 2007	LINDSEY ANDERSON			JUN 21 2007
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 6/21/07 2:00 pm

Client: HNUS HAN SDG #: W05189 NA [ ] SAF #: W07-006 NA [ ]

Work Order Number: J7F250152 Chain of Custody # W07-006-481

Shipping Container ID: _____ Air Bill # _____

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

Sample Custodian: [signature] Date: 6/21/07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date 6/21/07

LS-023, 9/03, Rev. 5

STL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7F250154 W05789 Due 08 06 07

C.O.C. # S07-006-234

Page 1 of 1

Collector: Fluor Hanford D. R. BREWINGTON	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JUNE 2007	logbook: HNF-N-506	Ice Chest No.: SMC-125 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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NL08		W	6/21/07	1309	1x20-mL P	Activity Scan	None
B1NL08		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1NL08		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

J1P76
SKS 8/3/07

L. Wall 6/21/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON	D.R. Brewington		JUN 21 2007 1400	LINDSEY ANDERSON			JUN 21 2007 1400
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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STL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7F250154 W05189 Due 08-06-07

C.O.C. # S07-006-102

Page 1 of 1

Collector: Fluor Hanford D. R. BREWINGTON	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JUNE 2007	Logbook: HNF-N-506-6	Ice Chest No.: SMC-125 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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NKN0		W	6/21/07	0943	1x20-mL P	Activity Scan	None
B1NKN0		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1NKN0		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JIP8D	

K. Wall 6/21/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON	D. R. Brewington		JUN 21 2007 1400	LINDSEY ANDERSON			JUN 21 2007 1400
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

JTF250154 WC5159 Due 08-06-07

C.O.C. # S07-006-204

Page 1 of 1

Collector: Fluor Hanford D. R. BREWINGTON	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JUNE 2007	Logbook: HNF-N-506-6	Ice Chest No.: SML-125 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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NKX8		W	6/21/07	1101	1x20-mL P	Activity Scan	None
B1NKX8		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1NKX8		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JTP8F	

L. Wood 6/21/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON			JUN 2 1 2007 1400	LINDSEY ANDERSON			JUN 2 1 2007 1400
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

JTF250154 W05189 Due 08 06 07

C.O.C. # S07-006-246

Page 1 of 1

Collector: Fluor Hanford D. R. BREWINGTON	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JUNE 2007	Logbook: HNF-N-506-6	Ice Chest No.: SML-125 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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NL19		W	6/21/07	1147	1x20-mL P	Activity Scan	None
B1NL19		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1NL19		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1NL19		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						GIPSC	

K. Wall 6/21/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON	D. R. BREWINGTON		JUN 21 2007 1400	LINDSEY ANDERSON	LINDSEY ANDERSON		JUN 21 2007 1400
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

93

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 6/21/07 2:00 pm

Client: Flint Man SDG #: W05189 NA [ ] SAF #: 507-006 NA [ ]

Work Order Number: J7F250154 Chain of Custody # 507-006-234, 102, 204, 246

Shipping Container ID: _____ Air Bill # _____

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

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

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

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

6. Number of samples in shipping container: 4

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

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

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

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

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

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

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

Sample Custodian: [signature] Date: 6/21/07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date 6/21/07

LS-023, 9/03, Rev. 5

STL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

JTF250159 W05189 Due 08-06-07

C.O.C. # I07-048-2

Page 1 of 1

Collector: Fluor Hanford ~~D. R. BREWINGTON~~	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I07-048	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100NR2IAM-LOI, JUNE 2007	ANF-N-506-6 pg 60	Ice Chest No.: SMI-125 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS

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

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

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

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

All SDG?s are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NJC6		W	6-22-07	1317	1x20-mL P	Activity Scan	None
B1NJC6		W	6-22-07	1317	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						JIP88	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
~~Fluor Hanford~~ D. R. BREWINGTON	D.R. Brewington		JUN 22 2007 1510	LINDSEY ANDERSON			JUN 22 2007 1510
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

95

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 6/22/07 3:10P

Client: Fluor Hanf. SDG #: 005189 NA [ ] SAF #: J07-048 NA [ ]

Work Order Number: J7F250154 Chain of Custody # J07-048-2

Shipping Container ID: _____ Air Bill # _____

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

Sample Custodian: [signature] Date: 6/22/07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date 6/22/07

LS-023, 9/03, Rev. 5

STL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

JTF250160 W05189 Due 08-06-07

C.O.C. # **G07-006-58**

Page 1 of 1

Collector: Fluor Hanford D. R. BREWINGTON	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: G07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 1NR2-RB, JUNE 2007	HWF-N-506-6	Ice Chest No.: SMC-125 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS

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

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

All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
All SDG?s are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NJ56		W	6-22-07	1200	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1NJ56		W			1x20-mL P	Activity Scan	None
B1NJ56		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1NJ56		W			3x1000-mL G/P	GAMMA_GS: List-1 (10)	HNO3 to pH <2

JIP9E

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford	D. R. BREWINGTON	D.R. Brewington	JUN 2 2 2007 1510	LINDSEY ANDERSON			JUN 2 2 2007 1510
Fluor Hanford	D. R. BREWINGTON						

Matrix *

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

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

97

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7F250160 W05189 Due 08-06-07

C.O.C. # G07-006-34

Page 1 of 1

Collector: Fluor Hanford D. R. BREWINGTON	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: G07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 1NR2-RB, JUNE 2007	HNF-N-506-6 pg 60	Ice Chest No.: 3ML-125 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS

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

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

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

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

All SDG?s are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NJ41		W	6-22-07	1317	1x20-mL P	Activity Scan	None
B1NJ41		W	6-22-07	1317	3x1000-mL G/P	GAMMA_GS: List-1 (10)	HNO3 to pH <2

JIPGJ

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON	D.R. Brewington		JUN 22 2007 1510	LINDSEY ANDERSON			JUN 22 2007 1510
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

98

STL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7F250160 W05789 Due 08-06-07

C.O.C. # G07-006-98

Page 1 of 1

Collector: Fluor Hanford D. R. BREWINGTON	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: G07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: INR2-RB, JUNE 2007	HNF-N-506 6	Ice Chest No.: SMC-125 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS

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

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

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

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

All SDG?s are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NJ85		W	6-22-07	0855	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1NJ85		W			1x20-mL P	Activity Scan	None
B1NJ85		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1NJ85		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

JIP9N

Relinquished By: Fluor Hanford D. R. BREWINGTON (Print) (Sign)	Date/Time: JUN 22 2007 1510	Received By: LINDSEY ANDERSON (Print) (Sign)	Date/Time: JUN 22 2007 1510
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

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

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

STL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7F250160 W05789 Due 08-06-07

C.O.C. # G07-006-26

Page 1 of 1

Collector: ~~Fluor Hanford~~ D. R. BREWINGTON	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: G07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 1NR2-RB, JUNE 2007	HWFN-506-6	Ice Chest No.: SMC-125 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS

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

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

All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
All SDG?s are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NJ38		W	6-22-07	1130	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1NJ38		W			1x20-mL P	Activity Scan	None
B1NJ38		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1NJ38		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

J1P99

~~Fluor Hanford~~ D. R. BREWINGTON (Print) D. R. Brewington (Sign)	Date/Time JUN 22 2007 1510	Received By: LINDSEY ANDERSON (Print) (Sign)	Date/Time JUN 22 2007 1510
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

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

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

100

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 6/22/07 3:10 p

Client: Fluor Han. SDG #: W05789 NA [ ] SAF #: G07-006 NA [ ]

Work Order Number: JJF250160 Chain of Custody # G07-006-58,34,98,26

Shipping Container ID: _____ Air Bill # _____

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

Sample Custodian: [signature] Date: 6/22/07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on: _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date 6/22/07

LS-023, 9/03, Rev. 5

STL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7F250163 WC5189 Due 05-06-07

C.O.C. # A07-006-5

Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: A07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: LLWMA(1)-PA, JUNE 2007	HNF-N-506 9	Ice Chest No.: 7J2 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: Other	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS

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

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

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

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

All SDG?s are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NHX4		W	6-22-07	1246	1x20-mL P	Activity Scan	None
B1NHX4		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1NHX4		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

JIRAH

Relinquished By	Date/Time	Received By	Date/Time
Print: Fluor Hanford R. T. SICKLE Sign:	1510 JUN 22 2007	Print: LINDSAY ANDERSON Sign:	1510 JUN 22 2007
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

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

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

102

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 6/22/07 3:10P

Client: FLUOR HAN . SDG #: W05189 NA [ ] SAF #: A07-006 NA [ ]

Work Order Number: J7F250163 Chain of Custody # A07-006-5

Shipping Container ID: _____ Air Bill # _____

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

Sample Custodian: [signature] Date: 6/22/07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date 6/22/07

LS-023, 9/03, Rev. 5

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7F250165 W05789 Due 08-06-07

C.O.C. # G07-006-90

Page 1 of 1

Collector: J.G. Hogan ~~Fluor Hanford~~	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: G07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 1NR2-RB, JUNE 2007	HNF-IV-506 8 Pg 58	Ice Chest No.: 562 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NJ80		W	6/22/07	1209	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1NJ80		W	↓	↓	1x20-mL P	Activity Scan	None
B1NJ80		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1NJ80		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

JTQAT

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
J.G. Hogan ~~Fluor Hanford~~			JUN 22 2007 1510	LINDSEY ANDERSON			6-22-07 1510

Matrix *

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

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

STL RICHLAND

104

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 6/22/07 3:10 P

Client: Flnor Plan. SDG #: W05789 NA [ ] SAF #: G07-006 NA [ ]

Work Order Number: J7F250165 Chain of Custody # G07-006-70

Shipping Container ID: _____ Air Bill # _____

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

Sample Custodian: [signature] Date: 6/22/07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date 6/22/07

LS-023, 9/03, Rev 5

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

JTF260289 W05189 Due 08-09-07

C.O.C. # **W07-006-2**

Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W07-006	Sampling Origin: Hanford Site ~~HNF-N~~ HNF-N-5069 pg 29	Purchase Order/Charge Code
Project Title: RCRA, JUNE 2007		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 samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.

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

All SDG?s are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NLH0		W	6/23/07	10:11	1x1000-mL P	9310_ALPHABETA_GPC: Gross Alpha (1)	HNO3 to pH <2
B1NLH0		W	6/23/07	10 11	1x20-mL P	Activity Scan	None
						JIT5G	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			JUN 23 2007 1115	Kevin Patterson		K Patterson	6/23/07 1115
R. Patterson			062507 1200	F.M. Hall		FM Hall	6-25-07 1200
FM Hall			6-25-07 1610	S. Smith		S. Smith	6-25-07 1610

Matrix *

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

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

STL RICHLAND

106

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 06/25/07 16:10

Client: PGW SDG #: W05789 NA [ ] SAF #: W07.006 NA [ ]

Work Order Number: J7F260289 Chain of Custody # W07 006-2

Shipping Container ID: _____ Air Bill # _____

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

Sample Custodian: S. Smith Date: 06.25.07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

STL RICHLAND

7/20/2007 10:19:55 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 08/06/2007 W005189

5I CLIENT: HANFORD

Sep1 DT/Tm Tech:

Batch: 7180600 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 J1P7X-1-AF J7F250152-1-SAMP 06/21/2007 12:27			200.70g,in	200.70g	UITC17757 07/17/07,pd 01/20/04,r	200				
		AmtRec: 20ML,500MLP,6XLP		#Containers: 8				Scr:	Alpha: 1.09E-04 uCi/Sa	Beta: 2.24E-03 uCi/Sa
2 J1P7X-1-AH-X J7F250152-1-DUP 06/21/2007 12:27			199.20g,in	199.20g	UITC17758 07/17/07,pd 01/20/04,r					
		AmtRec: 20ML,500MLP,6XLP		#Containers: 8				Scr:	Alpha: 1.09E-04 uCi/Sa	Beta: 2.24E-03 uCi/Sa
3 J15DR-1-AA-B J7F290000-600-BLK 06/21/2007 12:27			198.20g,in	198.20g	UITC17759 07/17/07,pd 01/20/04,r					
		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:
4 J15DR-1-AC-C J7F290000-600-LCS 06/21/2007 12:27			198.20g,in	198.20g	UISG1456 06/19/07,pd 01/20/04,r					
		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:

Comments: PH<2.0 7-20-07

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

J1P7X1AF-SAMP Constituent List:

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

J15DR1AA-BLK:

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

7/20/2007 10:19:57 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 08/06/2007

Sep1 DT/Tm Tech:

Batch: 7180600 pCi/L

SEQ Batch, Test: None

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:

J15DR1AC-LCS:
U-232 RDL: pCi/L LCL:20 UCL:105 RPD:20 Uranium RDL: pCi/L LCL:70 UCL:130 RPD:20

J1P7X1AF-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J15DR1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J15DR1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

10/8/2007 1:41:43 PM

ICOC Fraction Transfer/Status Report

ByDate: 10/8/2006, 10/13/2007, Batch: '7180600', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7180600						
AC		IsRpt	BockJ	7/20/2007 10:16:08		
SC			wagarr	IsBatched	6/29/2007 3:45:29 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	7/20/2007 10:16:08 AM	RICH-RC-5016 Revision 7
SC			BockJ	Prep1C	7/20/2007 10:20:05 AM	RICH-RC-5016 REVISION 7
SC			HarveyK	Prep2C	7/26/2007 4:55:48 PM	RICH-RC-5086 REV3
SC			HarveyK	Sep1C	7/31/2007 9:18:36 AM	RICH-RC-5067 REV8
SC			HarveyK	Sep2C	7/31/2007 5:13:58 PM	RICH-RC-5067 REV8
SC			DAWKINSO	InCnt1	7/31/2007 5:46:41 PM	RICH-RD-0008 REVISION 4
SC			BlackCL	CalcC	8/1/2007 8:02:13 AM	RICH-RD-0008 REVISION 4
SC			NortonJ	Rev1C	8/3/2007 3:21:37 PM	RICHRC0002 REV7
SC			ICOC	IsRpt	8/15/2007 4:31:05 AM	ICOC_RADCALC v4.8.17
AC			BockJ	7/20/2007 10:20:05		
AC			HarveyK	7/26/2007 4:55:48 PM		
AC			HarveyK	7/31/2007 9:18:36		
AC			HarveyK	7/31/2007 5:13:58 PM		
AC			DAWKINSO	7/31/2007 5:46:41 PM		
AC			BlackCL	8/1/2007 8:02:13 AM		
AC			NortonJ	8/3/2007 3:21:37 PM		

REVISED
RC Dayes
2/26/08

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 8

ICOCFractions v4.8.27

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STL RICHLAND

7/31/2007 7:03:32 AM

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 08/03/2007 005189

Sample Preparation/Analysis

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

Balance Id:1120482733
Pipet #: 246
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,BockJ/APA

Batch: 7180596 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None All Tests: 7180596 AZS7, 7180598 BCS8, 7180605 DHSS,

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J1JM7-1-AA J7F210406-1-SAMP 06/20/2007 11:53		178.00g,in AmtRec: 20ML,500ML,LP #Containers: 3		1.5	42.9	.50	10A	1309	8/1/07 3 Scr: Alpha: 1.26E-04 uCi/Sa Beta: 1.11E-04 uCi/Sa	
2 J1P5P-1-AA J7F250145-2-SAMP 06/21/2007 10:58		197.30g,in AmtRec: 20ML,500ML,LP #Containers: 3			47.6		10B		Scr: Alpha: -2.06E-04 uCi/Sa Beta: 2.89E-04 uCi/Sa	
3 J1P5W-1-AA J7F250145-3-SAMP 06/21/2007 12:12		199.80g,in AmtRec: 20ML,500ML,LP #Containers: 3			38.1		10C		Scr: Alpha: -2.25E-04 uCi/Sa Beta: 4.19E-04 uCi/Sa	
4 J1P7X-1-AC J7F250152-1-SAMP 06/21/2007 12:27		201.50g,in AmtRec: 20ML,500MLP,6XLP #Containers: 8			39.5		10D		Scr: Alpha: 1.09E-04 uCi/Sa Beta: 2.24E-03 uCi/Sa	
5 J1P76-1-AA J7F250154-1-SAMP 06/21/2007 13:09		157.30g,in AmtRec: 20ML,500ML,LP #Containers: 3			39.5 ~~100~~ 200 8/1/07 125		10A	1648	8/1/07 r Scr: Alpha: 1.16E-04 uCi/Sa Beta: 7.80E-05 uCi/Sa	
6 J1P8D-1-AA J7F250154-2-SAMP 06/21/2007 09:43		181.20g,in AmtRec: 20ML,500ML,LP #Containers: 3			43.6	.50	10F	1309	8/1/07 3 Scr: Alpha: 1.14E-04 uCi/Sa Beta: 1.11E-04 uCi/Sa	
7 J1P8D-1-AE-X J7F250154-2-DUP 06/21/2007 09:43		177.70g,in AmtRec: 20ML,500ML,LP #Containers: 3			43.5		10A	1755	8/1/07 100 Scr: Alpha: 1.14E-04 uCi/Sa Beta: 1.11E-04 uCi/Sa	

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

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STL RICHLAND

7/31/2007 7:03:40 AM

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 08/03/2007

Batch: 7180596 WATER pCi/L
SEQ Batch, Test: None

Sample Preparation/Analysis

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

PM, Quote: SA , 57671

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

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 J1P8F-1-AA J7F250154-3-SAMP 06/21/2007 11:01		199.20g,in AmtRec: 20ML,500ML,LP	#Containers: 3	1.5	27.4	50	10B	1755 Scr: Alpha: 1.26E-04 uCi/Sa	8/1/07 KD Beta: -1.95E-05 uCi/Sa	
9 J1P8L-1-AA J7F250154-4-SAMP 06/21/2007 11:47		167.60g,in AmtRec: 20ML,500ML,4XLP	#Containers: 6		39.0		10C	Scr: Alpha: -2.89E-04 uCi/Sa	Beta: 8.20E-04 uCi/Sa	
10 J1T5G-1-AA J7F260289-1-SAMP 06/23/2007 10:11		69.20g,in AmtRec: 20ML,LP	#Containers: 2		43.8	200	10B	1648 Scr: Alpha: -4.31E-05 uCi/Sa	8/1/07 R Beta: 1.39E-04 uCi/Sa	
11 J15C5-1-AA-B J7F290000-596-BLK 06/21/2007 09:43		204.40g,in AmtRec:	#Containers: 1		1.0		10C	Scr: Alpha:	Beta:	
12 J15C5-1-AC-C J7F290000-596-LCS 06/21/2007 09:43		198.80g,in AmtRec:	ASD4248 07/10/07,pd 06/01/01,r #Containers: 1		1.7		10d	Scr: Alpha:	Beta:	

Comments: Reduced aliquots are due to weight screens PH < 2.0 JB 7-31-07

Sample: J1P76AA count time changed from 100 min to 200 min in order to fill detector - RS 8/1/07

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

J1JM71AA-SAMP Constituent List:
ALPHA RDL:3 pCi/L LCL: UCL: RPD:

112

7/31/2007 7:03:42 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 08/03/2007

Sep1 DT/Tm Tech:

Batch: 7180596 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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

```
J15C51AA-BLK:
  ALPHA        RDL:3          pCi/L    LCL:       UCL:       RPD:
J15C51AC-LCS:
  Am-241       RDL:           pCi/L    LCL:70     UCL:130    RPD:20
J1JM71AA-SAMP Calc Info:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
J15C51AA-BLK:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
J15C51AC-LCS:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

Approved By _____ Date: _____

SEVERN TRENT STL

*** RE-COUNT REQUEST ***

DUE DATE 8-3

CUSTOMER PGW

ANALYSIS α

MATRIX H_2O

LOT NUMBER J7F210406, 250145, 250152, 250154

SAMPLE DELIVERY GROUP J7F260289

OLD BATCH NUMBER 7180596

LAB SAMPLE ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1) J1P8D 1AA	DUPS OUT OF LIMITS
2) J1P8D 1AE X	
3)	
4)	
5)	
6)	
7)	
8)	
9)	
10)	
11)	
12)	
13)	
14)	
15)	
16)	
17)	
18)	
19)	
20)	

RC-126 10/03 REV 4

STL RICHLAND

8/3/2007 1:55:18 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 08/03/2007

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Batch: 7180596 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None All Tests: 7180596 AZS7, 7180598 BCS8, 7180605 DHSS,

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J1JM7-1-AA J7F210406-1-SAMP 06/20/2007 11:53		178.00g,in								
		AmtRec: 20ML,500ML,LP	#Containers: 3					Scr:	Alpha: 1.26E-04 uCi/Sa	Beta: 1.11E-04 uCi/Sa
2 J1P5P-1-AA J7F250145-2-SAMP 06/21/2007 10:58		197.30g,in								
		AmtRec: 20ML,500ML,LP	#Containers: 3					Scr:	Alpha: -2.06E-04 uCi/Sa	Beta: 2.89E-04 uCi/Sa
3 J1P5W-1-AA J7F250145-3-SAMP 06/21/2007 12:12		199.80g,in								
		AmtRec: 20ML,500ML,LP	#Containers: 3					Scr:	Alpha: -2.25E-04 uCi/Sa	Beta: 4.19E-04 uCi/Sa
4 J1P7X-1-AC J7F250152-1-SAMP 06/21/2007 12:27		201.50g,in								
		AmtRec: 20ML,500MLP,6XLP	#Containers: 8					Scr:	Alpha: 1.09E-04 uCi/Sa	Beta: 2.24E-03 uCi/Sa
5 J1P76-1-AA J7F250154-1-SAMP 06/21/2007 13:09		157.30g,in								
		AmtRec: 20ML,500ML,LP	#Containers: 3					Scr:	Alpha: 1.16E-04 uCi/Sa	Beta: 7.80E-05 uCi/Sa
6 J1P8D-1-AA J7F250154-2-SAMP 06/21/2007 09:43		181.20g,in								
		AmtRec: 20ML,500ML,LP	#Containers: 3					Scr:	Alpha: 1.14E-04 uCi/Sa	Beta: 1.11E-04 uCi/Sa
7 J1P8D-1-AE-X J7F250154-2-DUP 06/21/2007 09:43		177.70g,in								
		AmtRec: 20ML,500ML,LP	#Containers: 3					Scr:	Alpha: 1.14E-04 uCi/Sa	Beta: 1.11E-04 uCi/Sa

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STL RICHLAND

8/3/2007 1:55:19 PM

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 08/03/2007

Sample Preparation/Analysis

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

Batch: 7180596 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

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

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
[redacted] J7F250154-2-SAMP 06/21/2007 09:43		181.2		1.5	43.6	100	10B	1637	8/3/07	
AmtRec: 20ML,500ML,LP	#Containers: 3					Scr:	Alpha: 1.14E-04 uCi/Sa		Beta: 1.11E-04 uCi/Sa	
[redacted] J7F250154-2-DUP 06/21/2007 09:43		177.7		1.5	43.5	100	10C	1637		
AmtRec: 20ML,500ML,LP	#Containers: 3					Scr:	Alpha: 1.14E-04 uCi/Sa		Beta: 1.11E-04 uCi/Sa	
10 J1P8F-1-AA J7F250154-3-SAMP 06/21/2007 11:01		199.20g,in								
AmtRec: 20ML,500ML,LP	#Containers: 3					Scr:	Alpha: 1.25E-04 uCi/Sa		Beta: -1.95E-05 uCi/Sa	
11 J1P8L-1-AA J7F250154-4-SAMP 06/21/2007 11:47		167.60g,in								
AmtRec: 20ML,500ML,4XLP	#Containers: 6					Scr:	Alpha: -2.89E-04 uCi/Sa		Beta: 8.20E-04 uCi/Sa	
12 J1T5G-1-AA J7F260289-1-SAMP 06/23/2007 10:11		69.20g,in								
AmtRec: 20ML,LP	#Containers: 2					Scr:	Alpha: -4.31E-05 uCi/Sa		Beta: 1.39E-04 uCi/Sa	
13 J15C5-1-AA-B J7F290000-596-BLK 06/21/2007 09:43		204.40g,in								
AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:	
14 J15C5-1-AC-C J7F290000-596-LCS 06/21/2007 09:43		198.80g,in	ASD4248 07/10/07,pd 06/01/01,r							
AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:	

STL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 2 ISV - Insufficient Volume for Analysis WO Cnt: 14
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added !COC v4.8.26

Sample Preparation/Analysis

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

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

AnalyDueDate: 08/03/2007

Batch: 7180596 pCi/L
SEQ Batch, Test: None

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

Comments:

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

J1JM71AA-SAMP Constituent List:

ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
J15C51AA-BLK:					
ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
J15C51AC-LCS:					
Am-241	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

J1JM71AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J15C51AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J15C51AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

STL RICHLAND

8/6/2007 2:38:15 PM

ICOC Fraction Transfer/Status Report

ByDate: 8/6/2006, 8/11/2007, Batch: '7180596', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7180596						
AC		CalcC	BockJ	7/31/2007 7:03:34		
SC			wagarr	IsBatched	6/29/2007 3:45:29 PM	ICOC_RADCALC v4.8.26
SC			BockJ	Prep1C	7/31/2007 7:03:34 AM	RICH-RC-5014 REVISION 7
SC			AshworthA	InPrep2	7/31/2007 11:10:24 AM	RICH-RC-5014 REVISION 7
SC			AshworthA	Prep2C	8/1/2007 12:03:19 PM	RICH-RC-5014 REVISION 7
SC			BlackCL	InCnt1	8/1/2007 12:07:42 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	8/1/2007 8:34:33 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	InCnt1	8/3/2007 2:51:24 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	8/3/2007 5:41:17 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	8/3/2007 6:06:57 PM	RICH-RD-0003 REVISION 5
AC			AshworthA	7/31/2007 11:10:24		
AC			AshworthA	8/1/2007 12:03:19 PM		
AC			BlackCL	8/1/2007 12:07:42 PM		
AC			DAWKINSO	8/1/2007 8:34:33 PM		
AC			DAWKINSO	8/3/2007 2:51:24 PM		
AC			DAWKINSO	8/3/2007 5:41:17 PM		
AC			DAWKINSO	8/3/2007 6:06:57 PM		

AC: Accepting Entry; SC: Status Change

STL RICHLAND

7/31/2007 12:08:52 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: 246

AnalyDueDate: 08/03/2007 205189

Sep1 DT/Tm Tech:

Batch: 7180598 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ/APA

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J1JM7-1-AC J7F210406-1-SAMP 06/20/2007 11:53	196.60g,in	AmtRec: 20ML,500ML,LP	#Containers: 3	1.5	103.4	100	28A	1902	8/6/07 DD	Scr: Alpha: 1.26E-04 uCi/Sa Beta: 1.11E-04 uCi/Sa
2 J1JM7-1-AE-X J7F210406-1-DUP 06/20/2007 11:53	196.30g,in	AmtRec: 20ML,500ML,LP	#Containers: 3		91.3		28B			Scr: Alpha: 1.26E-04 uCi/Sa Beta: 1.11E-04 uCi/Sa
3 J1P5P-1-AC J7F250145-2-SAMP 06/21/2007 10:58	203.20g,in	AmtRec: 20ML,500ML,LP	#Containers: 3		89.7		28D			Scr: Alpha: -2.06E-04 uCi/Sa Beta: 2.89E-04 uCi/Sa
4 J1P5W-1-AC J7F250145-3-SAMP 06/21/2007 12:12	198.20g,in	AmtRec: 20ML,500ML,LP	#Containers: 3		79.5		26A			Scr: Alpha: -2.25E-04 uCi/Sa Beta: 4.19E-04 uCi/Sa
5 J1P7X-1-AD J7F250152-1-SAMP 06/21/2007 12:27	202.50g,in	AmtRec: 20ML,500MLP,6XLP	#Containers: 8		~~76.7~~ 8/6/07 APA 76.7		26B			Scr: Alpha: 1.09E-04 uCi/Sa Beta: 2.24E-03 uCi/Sa
6 J1P76-1-AC J7F250154-1-SAMP 06/21/2007 13:09	200.60g,in	AmtRec: 20ML,500ML,LP	#Containers: 3		99.4		26C			Scr: Alpha: 1.16E-04 uCi/Sa Beta: 7.80E-05 uCi/Sa
7 J1P8D-1-AC J7F250154-2-SAMP 06/21/2007 09:43	200.20g,in	AmtRec: 20ML,500ML,LP	#Containers: 3		100.2		26D			Scr: Alpha: 1.14E-04 uCi/Sa Beta: 1.11E-04 uCi/Sa

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

STL RICHLAND

7/31/2007 12:08:54 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: _____

AnalyDueDate: 08/03/2007

Sep1 DT/Tm Tech:

Batch: 7180598 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 J1P8F-1-AC J7F250154-3-SAMP 06/21/2007 11:01		205.00g,in AmtRec: 20ML,500ML,LP	#Containers: 3	1.5	55.1	100	31D	2203 Scr:	8/6/07 KO Alpha: 1.25E-04 uCi/Sa	Beta: -1.95E-05 uCi/Sa
9 J1P8L-1-AC J7F250154-4-SAMP 06/21/2007 11:47		200.80g,in AmtRec: 20ML,500ML,4XLP	#Containers: 6		106.8		32A	Scr:	Alpha: 2.89E-04 uCi/Sa	Beta: 8.20E-04 uCi/Sa
10 J15DD-1-AA-B J7F290000-598-BLK 06/20/2007 11:53		204.40g,in AmtRec:	#Containers: 1		0.6		32B	Scr:	Alpha:	Beta:
11 J15DD-1-AC-C J7F290000-598-LCS 06/20/2007 11:53		201.60g,in AmtRec:	BESB3092 06/13/07,pd 08/08/06,r #Containers: 1		1.2		32C	Scr:	Alpha:	Beta:

Comments: Aliquots that are reduced are due to weight screens. PH < 2.0 JS 7-31-07

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

J1JM71AC-SAMP Constituent List:

BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
J15DD1AA-BLK:					
BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
J15DD1AC-LCS:					
Sr-90	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

J1JM71AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

120

7/31/2007 12:08:56 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 08/03/2007

Sep1 DT/Tm Tech:

Batch: 7180598 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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

```
J15DD1AA-BLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J15DD1AC-LCS:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

8/7/2007 4:28:59 PM

ICOC Fraction Transfer/Status Report

ByDate: 8/7/2006, 8/12/2007, Batch: '7180598', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7180598						
AC		CalcC	BockJ	7/31/2007 11:29:31		
SC			wagarr	IsBatched	6/29/2007 3:45:29 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	7/31/2007 11:29:31 AM	RICH-RC-5016 Revision 7
SC			AshworthA	InPrep2	8/2/2007 1:23:55 PM	RICH-RC-5014 REVISION 7
SC			AshworthA	Prep2C	8/6/2007 3:56:38 PM	RICH-RC-5014 REVISION 7
SC			DAWKINSO	InCnt1	8/6/2007 5:03:22 PM	RICH-RD-0003 REVISION 5
SC			BlackCL	CalcC	8/7/2007 7:01:00 AM	RICH-RD-0003 REVISION 5
AC			AshworthA	8/2/2007 1:23:55 PM		
AC			AshworthA	8/6/2007 3:56:38 PM		
AC			DAWKINSO	8/6/2007 5:03:22 PM		
AC			BlackCL	8/7/2007 7:01:00 AM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.27

STL RICHLAND

8/7/2007 5:54:30 PM

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 08/06/2007

Sample Preparation/Analysis

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

Batch: 7180602 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Balance Id:1120482733
Pipet #: _____
Sep1 DT/Tm Tech: 07/31/2007 15:35,ManisD
Sep2 DT/Tm Tech: 08/07/2007 09:30,ManisD
Prep Tech: ManisD,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J1P7X-1-AE J7F250152-1-SAMP		1007.30g,in	SRTB15026 07/17/07,pd 05/22/07,r								
						~~07/31/2007 15:35,s1; 08/07/2007~~					
06/21/2007 12:27		AmtRec: 20ML,500MLP,6XLP		#Containers: 8				Scr:	Alpha: 1.09E-04 uCi/Sa		Beta: 2.24E-03 uCi/Sa
2 J1P8L-1-AD J7F250154-4-SAMP		1008.10g,in	SRTB15027 07/17/07,pd 05/22/07,r		1.5	27.3	100				
						~~07/31/2007 15:35,s1; 08/07/2007~~					
06/21/2007 11:47		AmtRec: 20ML,500ML,4XLP		#Containers: 6				Scr:	Alpha: -2.89E-04 uCi/Sa		Beta: 8.20E-04 uCi/Sa
3 J1P88-1-AA J7F250159-1-SAMP		1006.20g,in	SRTB15028 07/17/07,pd 05/22/07,r		1.5	26.3	100				
						~~07/31/2007 15:35,s1; 08/07/2007~~					
06/22/2007 13:17		AmtRec: 20ML,3XLP		#Containers: 4				Scr:	Alpha: 2.33E-04 uCi/Sa		Beta: 8.73E-04 uCi/Sa
4 J1P88-1-AC-X J7F250159-1-DUP		1002.90g,in	SRTB15029 07/17/07,pd 05/22/07,r		1.5	26.5	100				
						~~07/31/2007 15:35,s1; 08/07/2007~~					
06/22/2007 13:17		AmtRec: 20ML,3XLP		#Containers: 4				Scr:	Alpha: 2.33E-04 uCi/Sa		Beta: 8.73E-04 uCi/Sa

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STL RICHLAND

8/7/2007 5:54:31 PM

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 08/06/2007

Batch: 7180602 WATER pCi/L
SEQ Batch, Test: None

Sample Preparation/Analysis

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

PM, Quote: SA , 57671

Balance Id:1120482733,1120482733,1120

Pipet #: _____

Sep1 DT/Tm Tech: 07/31/2007 15:35,ManisD

Sep2 DT/Tm Tech: 08/07/2007 09:30,ManisD

Prep Tech: BockJ,ManisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
5 J1P9E-1-AD J7F250160-1-SAMP		1000.90g,in	SRTB15030 07/17/07,pd 05/22/07,r		1.5	24.9	100				
								GA	0640	8/8/07	
								5D	~~0622~~ 0612	8/9/07	
						~~07/31/2007 15:35,s1; 08/07/2007~~					
06/22/2007 12:00		AmtRec: 20ML,7XLP	#Containers: 8					Scr:	Alpha: 5.40E-04 uCi/Sa		Beta: 1.66E-03 uCi/Sa
6 J1P9N-1-AD J7F250160-3-SAMP		995.00g,in	SRTB15031 07/17/07,pd 05/22/07,r		1.5	27.2	100	65			
								GB	0640	8/8/07	
								5A	0835	8/9/07	
						~~07/31/2007 15:35,s1; 08/07/2007~~					
06/22/2007 08:55		AmtRec: 20ML,4XLP,4LP	#Containers: 6					Scr:	Alpha: 6.96E-04 uCi/Sa		Beta: 6.74E-03 uCi/Sa 1.1E-01L
7 J1P99-1-AD J7F250160-4-SAMP		1003.10g,in	SRTB15032 07/17/07,pd 05/22/07,r								
						~~07/31/2007 15:35,s1; 08/07/2007~~					
06/22/2007 11:30		AmtRec: 20ML,4XLP,4LP	#Containers: 6					Scr:	Alpha: 8.96E-04 uCi/Sa		Beta: 2.15E-03 uCi/Sa
8 J1QAT-1-AD J7F250165-1-SAMP		1008.50g,in	SRTB15033 07/17/07,pd 05/22/07,r		1.5	25.8	100				
								GL	0640	8/8/07	
								GP	~~0622~~ 0612	8/9/07	
						~~07/31/2007 15:35,s1; 08/07/2007~~					
06/22/2007 12:09		AmtRec: 20ML,4XLP,4LP	#Containers: 6					Scr:	Alpha: 4.25E-04 uCi/Sa		Beta: 9.94E-04 uCi/Sa

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STL RICHLAND

8/7/2007 5:54:31 PM

Sample Preparation/Analysis

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

Balance Id:1120482733,1120482733,1120

Pipet #: _____

AnalyDueDate: 08/06/2007

Sep1 DT/Tm Tech: 07/31/2007 15:35,ManisD

Batch: 7180602 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech: 08/07/2007 09:30,ManisD

Prep Tech: ManisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
9 J15D1-1-AA-B J7F290000-602-BLK		1002.90g,in	SRTB15034 07/17/07,pd 05/22/07,r		1.5	27.6	100	LD LB	Uo40 ~~Uo40~~	8/8/07 8/9/07	
						~~07/31/2007 15:35,s1, 08/07/2007~~					
06/22/2007 13:17		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:
10 J15D1-1-AC-C J7F290000-602-LCS		998.90g,in	SRSG1360 07/17/07,pd 05/22/07,r		1.5	23.9	100	SA LC	U02A ~~U02A~~	8/8/07 8/9/07	
						~~07/31/2007 15:35,s1, 08/07/2007~~					
06/22/2007 13:17		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:

Comments: J1P7X-SAMP "Comments Sr samples JIP7X & J1P99 poured together, lost in lab drm 8-7-07."
J1P9E-SAMP "Comments. No DUP. poured due to insufficient sample amount. Please recount on diff. detector. JB 8/3/07"
J1QAT-SAMP "Comments. (3&4) not full 2000 ml aliquot due to insufficient sample amount. JB 7/31/07"

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

J1P7X1AE-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
J15D11AA-BLK:											
Sr-85	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:	UCL:	RPD:
J15D11AC-LCS:											
Sr-85	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:70	UCL:130	RPD:20

8/7/2007 5:54:32 PM

Sample Preparation/Analysis

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

Balance Id:1120482733,1120482733,1120

Pipet #: _____

AnalyDueDate: 08/06/2007

Sep1 DT/Tm Tech: 07/31/2007 15:35,ManisD

Batch: 7180602 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech: 08/07/2007 09:30,ManisD

Prep Tech: ManisD

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

```
J1P7X1AE-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J15D11AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J15D11AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

8/10/2007 2:32:58 PM

ICOC Fraction Transfer/Status Report

ByDate: 8/10/2006, 8/15/2007, Batch: '7180602', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7180602						
AC		CalcC	BockJ	7/24/2007 12:37:30		
SC			wagarr	IsBatched	6/29/2007 3:45:29 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	7/24/2007 12:37:30 PM	RICH-RC-5016 Revision 7
SC			BockJ	Prep1C	7/24/2007 12:51:46 PM	RICH-RC-5016 REVISION 7
SC			ManisD	InSep1	7/24/2007 3:27:54 PM	RICH-RC-5006 REVISION 7
SC			ManisD	Sep1C	8/1/2007 8:04:08 AM	RICH-RC-5006 REVISION 7
SC			BlackCL	InCnt1	8/1/2007 8:08:02 AM	RICH-RD-0007 REVISION 6
SC			StringerR	Cnt1C	8/1/2007 10:35:21 AM	RICH-RD-0007 REVISION 6
SC			ManisD	InSep2	8/7/2007 6:51:24 AM	RICH-RC-5071 REVISION 5
SC			DAWKINSO	InCnt2	8/7/2007 7:58:55 PM	RICH-RD-0003 REVISION 5
SC			BlackCL	CalcC	8/9/2007 8:44:00 AM	RICH-RD-0003 REVISION 5
AC			BockJ	7/24/2007 12:51:46		
AC			ManisD	7/24/2007 3:27:54 PM		
AC			ManisD	8/1/2007 8:04:08 AM		
AC			BlackCL	8/1/2007 8:08:02 AM		
AC			StringerR	8/1/2007 10:35:21		
AC			ManisD	8/7/2007 6:51:24 AM		
AC			DAWKINSO	8/7/2007 7:58:55 PM		
AC			BlackCL	8/9/2007 8:44:00 AM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 9

ICOCFractions v4.8.27

SEVERN TRENT STL

*** RE-ANALYSIS REQUEST ***

DUE DATE 8/6/07

CUSTOMER PGW

ANALYSIS 8R

MATRIX water

LOT NUMBER J7F250152

SAMPLE DELIVERY GROUP 5184

OLD BATCH NUMBER 7211164 7/30/07 7180602

NEW BATCH NUMBER 7211164

LAB SAMPLE ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1) J1P7X1AF	Lost in lab
2) J1P991AD	
3)	
4)	
5)	
6)	
7)	
8)	
9)	
10)	
11)	
12)	
13)	
14)	
15)	
16)	
17)	
18)	
19)	
20)	
LAB QC ID	Assigned with new batch.

RC-048, 10/03, Rev 7

STL RICHLAND

8/7/2007 5:51:35 PM

Sample Preparation/Analysis

Balance Id:1120482733,1120482733,1120

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 08/06/2007

Sep1 DT/Tm Tech: 07/31/2007 18:15,ManisD

Batch: 7211164 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech: 08/07/2007 09:30,ManisD

SEQ Batch, Test: None All Tests: 7180596 AZS7, 7180598 BCS8, 7180600 7YSR, 7180602 CLTL, 7180605 DHSS, 7180607 ARS6, 7211164
CLTL,

Prep Tech: ManisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J1P7X-1-AJ-X J7F250152-1-DUP		1005.20g,in	SRTB15046 07/17/07,pd 05/22/07,r		1.0	25.9	100	7A	0737	8/8/07	
						~~07/31/2007 18:15,s1; 08/07/2007~~		7A	~~0712~~ 0712	8/9/07	
06/21/2007 12:27		AmtRec: 20ML,500MLP,6XLP	#Containers: 8					Scr:	Alpha: 1.09E-04 uCi/Sa		Beta: 2.24E-03 uCi/Sa
2 J1P7X-2-AE J7F250152-1-SAMP		995.90g,in	SRTB15047 07/17/07,pd 05/22/07,r		1.0	26	100	7B	0737	8/8/07	
						~~07/31/2007 18:15,s1; 08/07/2007~~		7B	~~0712~~ 0712	8/9/07	
06/21/2007 12:27		AmtRec: 20ML,500MLP,6XLP	#Containers: 8					Scr:	Alpha: 1.09E-04 uCi/Sa		Beta: 2.24E-03 uCi/Sa
3 J1P99-2-AD J7F250160-4-SAMP		1004.70g,in	SRTB15048 07/17/07,pd 05/22/07,r		1.0	25.8	100	7C	0737	8/8/07	
						~~07/31/2007 18:15,s1; 08/07/2007~~		7C	~~0712~~ 0712	8/9/07	
06/22/2007 11:30		AmtRec: 20ML,4XLP,4LP	#Containers: 6					Scr:	Alpha: 8.96E-04 uCi/Sa		Beta: 2.15E-03 uCi/Sa
4 J3T29-1-AA-B J7G300000-164-BLK		997.70g,in	SRTB15049 07/17/07,pd 05/22/07,r		1.0	25.9	100	1B	0737	8/8/07	
						~~07/31/2007 18:15,s1; 08/07/2007~~		1B	~~0712~~ 0712	8/9/07	
06/21/2007 12:27		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:

STL RICHLAND

8/7/2007 5:51:36 PM

Sample Preparation/Analysis

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

Balance Id:1120482733,1120482733,1120

Pipet #: _____

AnalyDueDate: 08/06/2007

Sep1 DT/Tm Tech: 07/31/2007 18:15,ManisD

Batch: 7211164 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech: 08/07/2007 09:30,ManisD

Prep Tech: ManisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
5 J3T29-1-AC-C J7G300000-164-LCS		1003.70g,in	SRSG1362 07/17/07,pd 05/22/07,r		1.0	25.1	100	1C	0937	8/8/07	
						~~07/31/2007 18:15,s1; 08/07/2007~~		1C	~~0900~~ 0903 0910 8/9/07	8/9/07	

06/21/2007 12:27 AmtRec: #Containers: 1 Scr: Alpha: Beta:

Comments: J1P7X-DUP "Comments Sr samples JIP7X & J1P99 poured together, lost in lab drm 8-7-07."

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

J1P7X1AJ-DUP 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

J3T291AA-BLK:

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

J3T291AC-LCS:

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

J1P7X1AJ-DUP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

J3T291AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

J3T291AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

130

8/10/2007 2:42:59 PM

ICOC Fraction Transfer/Status Report

ByDate: 8/10/2006, 8/15/2007, Batch: '7211164', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7211164						
AC		CalcC	BockJ	7/30/2007 9:23:51		
SC			antonsonl	IsBatched	7/30/2007 7:52:25 AM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	7/30/2007 9:23:51 AM	RICH-RC-5015 Revision 6
SC			BockJ	Prep1C	7/30/2007 9:49:54 AM	RICH-RC-5016 REVISION 7
SC			ManisD	Sep1C	8/1/2007 8:04:18 AM	RICH-RC-5006 REVISION 7
SC			BlackCL	InCnt1	8/1/2007 8:07:57 AM	RICH-RD-0007 REVISION 6
SC			StringerR	Cnt1C	8/1/2007 12:23:40 PM	RICH-RD-0007 REVISION 6
SC			ManisD	InSep2	8/7/2007 6:51:15 AM	RICH-RC-5071 REVISION 5
SC			DAWKINSO	InCnt2	8/7/2007 7:58:49 PM	RICH-RD-0003 REVISION 5
SC			BlackCL	CalcC	8/9/2007 11:27:49 AM	RICH-RD-0003 REVISION 5
AC			BockJ	7/30/2007 9:49:54		
AC			ManisD	8/1/2007 8:04:18 AM		
AC			BlackCL	8/1/2007 8:07:57 AM		
AC			StringerR	8/1/2007 12:23:40 PM		
AC			ManisD	8/7/2007 6:51:15 AM		
AC			DAWKINSO	8/7/2007 7:58:49 PM		
AC			BlackCL	8/9/2007 11:27:49		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 8

ICOCFractions v4.8.27

STL RICHLAND

7/31/2007 1:52:43 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: 08/06/2007 WO 05189

Sep1 DT/Tm Tech:

Batch: 7180601 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ /APA

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J1P9N-1-AC J7F250160-3-SAMP		1996.60g,in			100 mL	100	G10	2049	8/2/07 AP	
06/22/2007 08:55		AmtRec: 20ML,4XLP,4LP		#Containers: 6			Scr:	Alpha: 6.96E-04 uCi/Sa	Beta: 6.74E-03 uCi/Sa	1.1E-01L
2 J1P99-1-AC J7F250160-4-SAMP		2005.70g,in					G15	2048	8/2/07 AP	
06/22/2007 11:30		AmtRec: 20ML,4XLP,4LP		#Containers: 6			Scr:	Alpha: 8.96E-04 uCi/Sa	Beta: 2.15E-03 uCi/Sa	
3 J1QAT-1-AC J7F250165-1-SAMP		1977.30g,in					G11	0003	8/2/07 AP	
06/22/2007 12:09		AmtRec: 20ML,4XLP,4LP		#Containers: 6			Scr:	Alpha: 4.25E-04 uCi/Sa	Beta: 9.94E-04 uCi/Sa	
4 J1QAT-1-AE-X J7F250165-1-DUP		1912.10g,in					G12	0004	8/2/07 AP	
06/22/2007 12:09		AmtRec: 20ML,4XLP,4LP		#Containers: 6			Scr:	Alpha: 4.25E-04 uCi/Sa	Beta: 9.94E-04 uCi/Sa	
5 J15D0-1-AA-B J7F290000-601-BLK		1999.70g,in					G4	0005	8/2/07 AP	
06/22/2007 12:09		AmtRec:		#Containers: 1			Scr:	Alpha:	Beta:	
6 J15D0-1-AC-C J7F290000-601-LCS		2001.50g,in	QCAG1383 06/25/07,pd 07/15/00,r				G14	0006		
06/22/2007 12:09		AmtRec:		#Containers: 1			Scr:	Alpha:	Beta:	

STL RICHLAND

7/31/2007 1:52:47 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 08/06/2007

Sep1 DT/Tm Tech:

Batch: 7180601 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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

Comments: J1QAT-SAMP "Comments. (3&4) not full 2000 ml aliquot due to insufficient sample amount. JB 7/31/07" pH<2.0 JB 7-31-07

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

J1P9N1AC-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:

J15D01AA-BLK:

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

J15D01AC-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						

J1P9N1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

J15D01AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

J15D01AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

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8/6/2007 8:32:50 AM

ICOC Fraction Transfer/Status Report

ByDate: 8/6/2006, 8/11/2007, Batch: '7180601', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7180601						
AC		CalcC	BockJ	7/31/2007 1:43:28 PM		
SC			wagarr	IsBatched	6/29/2007 3:45:29 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	7/31/2007 1:43:28 PM	RICH-RC-5016 Revision 7
SC			BockJ	Prep1C	7/31/2007 1:52:46 PM	RICH-RC-5017 REVISION 6
SC			AshworthA	InPrep2	8/1/2007 12:13:43 PM	RICH-RC-5017 REVISION 6
SC			AshworthA	Prep2C	8/2/2007 5:35:16 PM	RICH-RC-5017 REVISION 6
SC			DAWKINSO	InCnt1	8/2/2007 7:12:18 PM	RICH-RD-0007 REVISION 6
SC			BlackCL	CalcC	8/3/2007 7:37:10 AM	RICH-RD-0007 REVISION 6
AC			BockJ	7/31/2007 1:52:46 PM		
AC			AshworthA	8/1/2007 12:13:43 PM		
AC			AshworthA	8/2/2007 5:35:16 PM		
AC			DAWKINSO	8/2/2007 7:12:18 PM		
AC			BlackCL	8/3/2007 7:37:10 AM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.27

STL RICHLAND

8/3/2007 9:19:34 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: _____

AnalyDueDate: 08/06/2007

Batch: 7180599 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

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

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J1P9E-1-AC J7F250160-1-SAMP 06/22/2007 12:00		2503.00g,in AmtRec: 20ML,7XLP	#Containers: 8		100mL	100	66	140V Scr: Alpha: 5.40E-04 uCi/Sa	8/7/07 JB Beta: 1.66E-03 uCi/Sa	
2 J1P9E-1-AE-X J7F250160-1-DUP 06/22/2007 12:00		AmtRec: 20ML,7XLP	#Containers: 8				G8	1603 Scr: Alpha: 5.40E-04 uCi/Sa	8/7/07 JB Beta: 1.66E-03 uCi/Sa	
3 J1P9J-1-AA J7F250160-2-SAMP 06/22/2007 13:17		2499.30g,in AmtRec: 20ML,3XLP	#Containers: 4		100mL		68	140V Scr: Alpha: 7.34E-04 uCi/Sa	8/7/07 JB Beta: 2.60E-05 uCi/Sa	
4 J15DN-1-AA-B J7F290000-599-BLK 06/22/2007 12:00		2499.40g,in AmtRec:	#Containers: 1				613	140V Scr: Alpha:	Beta:	
5 J15DN-1-AC-C J7F290000-599-LCS 06/22/2007 12:00		2505.90g,in AmtRec:	QCAG1386 06/25/07,pd 07/15/00,r #Containers: 1				610	140V Scr: Alpha:	Beta:	

Comments: J1P9E-SAMP "Comments. No DUP. poured due to insufficient sample amount. Please recount on diff. detector. JB 8/3/07"
PH<2.0 JB 8.3.07

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

J1P9E1AC-SAMP Constituent List:

STL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1 ISV - Insufficient Volume for Analysis WO Cnt: 5
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4.8.26

135

8/3/2007 9:19:37 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 08/06/2007

Sep1 DT/Tm Tech:

Batch: 7180599 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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:	UCL:	RPD:						
J15DN1AA-BLK:										
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:						
J15DN1AC-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						

J1P9E1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

J15DN1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

J15DN1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

8/8/2007 1:48:00 PM

ICOC Fraction Transfer/Status Report

ByDate: 8/8/2006, 8/13/2007, Batch: '7180599', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7180599						
AC		CalcC	BockJ	8/3/2007 9:08:55 AM		
SC			wagarr	IsBatched	6/29/2007 3:45:29 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	8/3/2007 9:08:55 AM	RICH-RC-5016 Revision 7
SC			BockJ	Prep1C	8/3/2007 9:19:39 AM	RICH-RC-5017 REVISION 6
SC			AshworthA	InPrep2	8/6/2007 9:25:24 AM	RICH-RC-5017 REVISION 6
SC			AshworthA	Prep2C	8/7/2007 11:44:37 AM	RICH-RC-5017 REVISION 6
SC			BlackCL	InCnt1	8/7/2007 11:50:34 AM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	CalcC	8/7/2007 8:23:40 PM	RICH-RD-0007 REVISION 6
AC			BockJ	8/3/2007 9:19:39 AM		
AC			AshworthA	8/6/2007 9:25:24 AM		
AC			AshworthA	8/6/2007 9:27:00 AM		
AC			AshworthA	8/7/2007 11:44:37		
AC			BlackCL	8/7/2007 11:50:34		
AC			DAWKINSO	8/7/2007 8:23:40 PM		

AC: Accepting Entry, SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.27

STL RICHLAND

8/1/2007 10:40:41 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: 08/06/2007 N05189

Sep1 DT/Tm Tech:

Batch: 7180604 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J1QAH-1-AA J7F250163-1-SAMP		3910.50g,in	ITA6500 07/25/07		34.8	100	L2	1559	8/9/07 R	
06/22/2007 12:46		AmtRec: 20ML,500ML,2X4LP	#Containers: 4				Scr:	Alpha: 4.67E-04 uCi/Sa	Beta: -4.79E-04 uCi/Sa	
2 J1QAH-1-AF-X J7F250163-1-DUP		3904.10g,in	ITA6501 07/25/07		35.0		L4	1559		
06/22/2007 12:46		AmtRec: 20ML,500ML,2X4LP	#Containers: 4				Scr:	Alpha: 4.67E-04 uCi/Sa	Beta: -4.79E-04 uCi/Sa	
3 J15D9-1-AA-B J7F290000-604-BLK		3953.60g,in	ITA6502 07/25/07		32.6		L5	1600		
06/22/2007 12:46		AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:	
4 J15D9-1-AC-C J7F290000-604-LCS		3930.00g,in	ISD0764 07/25/07		34.5		L4	1744	8/9/07 R	
06/22/2007 12:46		AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:	

Comments: pH<2.0 JS 8-1-07

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

J1QAH1AA-SAMP Constituent List:

I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:
J15D91AA-BLK:					
I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:
J15D91AC-LCS:					
I-129	RDL:5	pCi/L	LCL:70	UCL:130	RPD:20

J1QAH1AA-SAMP Calc Info:

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8/1/2007 10:40:46 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 08/06/2007

Sep1 DT/Tm Tech:

Batch: 7180604 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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

Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J15D91AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J15D91AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

8/10/2007 10:54:52 AM

ICOC Fraction Transfer/Status Report

ByDate: 8/10/2006, 8/15/2007, Batch: '7180604', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7180604						
AC		CalcC	BockJ	8/1/2007 10:40:45		
SC			wagarr	IsBatched	6/29/2007 3:45:29 PM	ICOC_RADCALC v4.8.26
SC			BockJ	Prep1C	8/1/2007 10:40:45 AM	RICH-RC-5017 REVISION 6
SC			NortonJ	InSep1	8/2/2007 7:14:53 AM	RICHRC5025 REVISION 4
SC			BostedD	InPrep2	8/3/2007 12:11:25 PM	RICHRC5025 REVISION 4
SC			BostedD	Prep2C	8/9/2007 2:13:09 PM	RICHRC5025 REVISION 4
SC			StringerR	InCnt1	8/9/2007 2:16:30 PM	RICH-RD-0007 REVISION 6
SC			StringerR	CalcC	8/9/2007 6:22:32 PM	RICH-RD-0007 REVISION 6
AC			NortonJ	8/2/2007 7:14:53 AM		
AC			BostedD	8/3/2007 12:11:25 PM		
AC			BostedD	8/9/2007 2:13:09 PM		
AC			StringerR	8/9/2007 2:16:30 PM		
AC			StringerR	8/9/2007 6:22:32 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.27

SEVERN TRENT STL

*** RE-ANALYSIS REQUEST ***

DUE DATE 8-6-7

CUSTOMER PGW

ANALYSIS Tc 99

MATRIX WATER

LOT NUMBER J7F250163

SAMPLE DELIVERY GROUP W05189

OLD BATCH NUMBER 7180603

NEW BATCH NUMBER 7218239

LAB SAMPLE ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1) J1QAH 1AC	LOW SPIKE YIELD 18
2) 1AD 5	
3) 1AEX	
4) B	
5) C	
6) BN	
7)	
8)	
9)	
10)	
11)	
12)	
13)	
14)	
15)	
16)	
17)	
18)	
19)	
20)	
LAB QC ID	Assigned with new batch.

RC-048, 10/03, Rev 7

STL RICHLAND

8/6/2007 12:18:47 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 08/06/2007 WO5189

Batch: 7218239 **WATER** **pCi/L**
SEQ Batch, Test: None

PM, Quote: SA , 57671

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

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J1QAH-1-AG-S J7F250163-1-MS 06/22/2007 12:46	AmtRec: 20ML,500ML,2X4LP	#Containers: 4				60			Scr: Alpha: 4.67E-04 uCi/Sa	Beta: -4.79E-04 uCi/Sa
2 J1QAH-1-AH-X J7F250163-1-DUP 06/22/2007 12:46	AmtRec: 20ML,500ML,2X4LP	#Containers: 4							Scr: Alpha: 4.67E-04 uCi/Sa	Beta: -4.79E-04 uCi/Sa
3 J1QAH-2-AC J7F250163-1-SAMP 06/22/2007 12:46	AmtRec: 20ML,500ML,2X4LP	#Containers: 4	125.30g,in	125.30g					Scr: Alpha: 4.67E-04 uCi/Sa	Beta: -4.79E-04 uCi/Sa
4 J39KH-1-AA-B J7H060000-239-BLK 06/22/2007 12:46	AmtRec:	#Containers: 1	125.70g,in	125.70g					Scr: Alpha:	Beta:
5 J39KH-1-AC-C J7H060000-239-LCS 06/22/2007 12:46	AmtRec:	#Containers: 1	127.50g,in	127.50g	TCSE2142 07/17/07,pd 01/10/06,r				Scr: Alpha:	Beta:
6 J39KH-1-AD-BN J7H060000-239-IBLK 06/22/2007 12:46	AmtRec:	#Containers: 1							Scr: Alpha:	Beta:

STL Richland
Richland Wa.

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

ISV - Insufficient Volume for Analysis

WO Cnt: **6**
Prep_SamplePrep v4.8.26

STL RICHLAND

8/6/2007 12:18:49 PM

Sample Preparation/Analysis

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

AnalyDueDate: 08/06/2007

Batch: 7218239 pCi/L
SEQ Batch, Test: None

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

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

Comments: J1QAH-MS "Comments. Due to insufficient sample amount, no DUP or MS poured. JB 8/6/07"
pH<2.0 JB 8-6-07

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

J1QAH1AG-MS Constituent List:

J39KH1AA-BLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
J39KH1AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
J39KH1AD-IBLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:

J1QAH1AG-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J39KH1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J39KH1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J39KH1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

8/10/2007 1:53:03 PM

ICOC Fraction Transfer/Status Report

ByDate: 8/10/2006, 8/15/2007, Batch: '7218239', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7218239						
AC		CalcC	BockJ	8/6/2007 12:14:34 PM		
SC			nortonj	IsBatched	8/6/2007 10:32:19 AM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	8/6/2007 12:14:34 PM	RICH-RC-5014 Revision 7
SC			BockJ	Prep1C	8/6/2007 12:18:51 PM	RICH-RC-5016 REVISION 7
SC			FABREM	Sep1C	8/7/2007 11:35:48 AM	RICH-RC-5065 REVISION 6
SC			BlackCL	InCnt1	8/7/2007 11:36:56 AM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	8/8/2007 6:47:09 AM	RICH-RD-0001 REVISION 4
AC			BockJ	8/6/2007 12:18:51 PM		
AC			FABREM	8/7/2007 11:35:48		
AC			BlackCL	8/7/2007 11:36:56		
AC			BlackCL	8/8/2007 6:47:09 AM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 5

ICOCFractions v4.8.27

6/29/2007 3:37:02 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 08/06/2007 WO5189

Batch: 7180607 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 7-2-07 am
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J1P7X-1-AA J7F250152-1-SAMP 06/21/2007 12:27	AmtRec: 20ML,500MLP,6XLP	#Containers: 8				Scr:	Alpha: 1.09E-04 uCi/Sa	Beta: 2.24E-03 uCi/Sa
2 J1P9E-1-AA J7F250160-1-SAMP 06/22/2007 12:00	AmtRec: 20ML,7XLP	#Containers: 8				Scr:	Alpha:	Beta:
3 J1P9N-1-AA J7F250160-3-SAMP 06/22/2007 08:55	AmtRec: 20ML,4XLP,4LP	#Containers: 6				Scr:	Alpha:	Beta:
4 J1P99-1-AA J7F250160-4-SAMP 06/22/2007 11:30	AmtRec: 20ML,4XLP,4LP	#Containers: 6				Scr:	Alpha:	Beta:
5 J1QAT-1-AA J7F250165-1-SAMP 06/22/2007 12:09	AmtRec: 20ML,4XLP,4LP	#Containers: 6				Scr:	Alpha:	Beta:
6 J1QAT-1-AF-X J7F250165-1-DUP 06/22/2007 12:09	AmtRec: 20ML,4XLP,4LP	#Containers: 6				Scr:	Alpha:	Beta:
7 J15EJ-1-AA-B J7F290000-607-BLK 06/22/2007 12:09	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

STL RICHLAND

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STL RICHLAND

6/29/2007 3:37:02 PM

Sample Preparation/Analysis

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

AnalyDueDate: 08/06/2007

Batch: 7180607 pCi/L
SEQ Batch, Test: None

Balance Id: 17445
Pipet #:
Sep1 DT/Tm Tech: 7-2-07 Dm
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 J15EJ-1-AC-C J7F290000-607-LCS 06/22/2007 12:09		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
9 J15EJ-1-AD-BX J7F290000-607-MBLK 06/22/2007 12:09		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
10 J15EJ-1-AE-CM J7F290000-607-MLCS 06/22/2007 12:09		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
11 J15EJ-1-AF-BN J7F290000-607-IBLK 06/22/2007 12:09		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
12 J15EJ-1-AG-BN J7F290000-607-IBLK 06/22/2007 12:09		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments: J006W-SAMP "Comments SAMPLE J006W-1AA WAS RESUBMITTES FOR GAMMA ANALYSIS."

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

J1P7X1AA-SAMP Constituent List:

146

STL RICHLAND

6/29/2007 3:37:04 PM

Sample Preparation/Analysis

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

AnalyDueDate: 08/06/2007

Batch: 7180607 pCi/L
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 7-30 Tam
Sep2 DT/Tm Tech:
Prep Tech:

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

```
  H-3          RDL:400          pCi/L      LCL:70      UCL:130      RPD:20
J15EJ1AA-BLK:
  H-3          RDL:400          pCi/L      LCL:        UCL:         RPD:
J15EJ1AC-LCS:
  H-3          RDL:400          pCi/L      LCL:70      UCL:130      RPD:20
J15EJ1AD-MBLK:
  H-3          RDL:400          pCi/L      LCL:        UCL:         RPD:
J15EJ1AE-MLCS:
  H-3          RDL:400          pCi/L      LCL:70      UCL:130      RPD:20
J15EJ1AF-IBLK:
  H-3          RDL:400          pCi/L      LCL:        UCL:         RPD:
J15EJ1AG-IBLK:
  H-3          RDL:400          pCi/L      LCL:        UCL:         RPD:
J1P7X1AA-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J15EJ1AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J15EJ1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J15EJ1AD-MBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J15EJ1AE-MLCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J15EJ1AF-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J15EJ1AG-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

7/6/2007 5:55:57 PM

ICOC Fraction Transfer/Status Report

ByDate: 7/6/2006, 7/11/2007, Batch: '7180607', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7180607						
AC		**CalcC**	**McDowellD**	7/2/2007 9:16:50 AM		
SC			wagarr	IsBatched	6/29/2007 3:45:29 PM	ICOC_RADCALC v4.8.26
SC			McDowellD	InSep1	7/2/2007 9:16:50 AM	RICH-RC-5007 REVISION 6
SC			McDowellD	Sep1C	7/2/2007 3:08:37 PM	RICH-RC-5007 REVISION 6
SC			DAWKINSO	InCnt1	7/2/2007 3:36:03 PM	RICH-RD-0001 REVISION 4
SC			DAWKINSO	CalcC	7/4/2007 10:21:42 AM	RICH-RD-0001 REVISION 4
AC			**McDowellD**	7/2/2007 3:08:37 PM		
AC			**DAWKINSO**	7/2/2007 3:36:03 PM		
AC			**DAWKINSO**	7/4/2007 10:21:42		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

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Grp Rec Cnt: 4

ICOCFractions v4.8.27

STL RICHLAND

8/2/2007 1:15:03 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 08/03/2007 W05189

Sep1 DT/Tm Tech:

Batch: 7180605 WATER ug/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J1JM7-1-AD J7F210406-1-SAMP 06/20/2007 11:53		24.70g,in AmtRec: 20ML,500ML,LP	#Containers: 3			Scr:	Alpha: 1.26E-04 uCi/Sa	Beta: 1.11E-04 uCi/Sa
2 J1JM9-1-AA J7F210406-2-SAMP 06/20/2007 10:22		26.50g,in AmtRec: 20ML,500ML	#Containers: 2			Scr:	Alpha: 1.71E-05 uCi/Sa	Beta: -1.08E-06 uCi/Sa
3 J1JNA-1-AA J7F210406-3-SAMP 06/20/2007 08:10		24.90g,in AmtRec: 20ML,500ML	#Containers: 2			Scr:	Alpha: -1.04E-05 uCi/Sa	Beta: 2.06E-05 uCi/Sa
4 J1P5M-1-AA J7F250145-1-SAMP 06/21/2007 09:43		24.70g,in AmtRec: 20ML,500ML	#Containers: 2			Scr:	Alpha: 3.70E-05 uCi/Sa	Beta: 1.52E-05 uCi/Sa
5 J1P5M-1-AC-X J7F250145-1-DUP 06/21/2007 09:43		24.90g,in AmtRec: 20ML,500ML	#Containers: 2			Scr:	Alpha: 3.70E-05 uCi/Sa	Beta: 1.52E-05 uCi/Sa
6 J1P5P-1-AD J7F250145-2-SAMP 06/21/2007 10:58		26.60g,in AmtRec: 20ML,500ML,LP	#Containers: 3			Scr:	Alpha: -2.06E-04 uCi/Sa	Beta: 2.89E-04 uCi/Sa
7 J1P5P-1-AE-S J7F250145-2-MS 06/21/2007 10:58		24.90g,in AmtRec: 20ML,500ML,LP	unsf3835 06/27/07,pd 01/23/07,r #Containers: 3			Scr:	Alpha: -2.06E-04 uCi/Sa	Beta: 2.89E-04 uCi/Sa

STL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1 ISV - Insufficient Volume for Analysis WO Cnt: 7

Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4.8.26

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STL RICHLAND

8/2/2007 1:15:04 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 08/03/2007

Batch: 7180605 WATER ug/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 J1P5W-1-AD J7F250145-3-SAMP 06/21/2007 12:12		25.50g,in AmtRec: 20ML,500ML,LP	#Containers: 3			Scr:	Alpha: -2.25E-04 uCi/Sa	Beta: 4.19E-04 uCi/Sa
9 J1P50-1-AA J7F250145-4-SAMP 06/21/2007 13:07		26.10g,in AmtRec: 20ML,500ML	#Containers: 2			Scr:	Alpha: -7.90E-06 uCi/Sa	Beta: 3.14E-05 uCi/Sa
10 J1P7X-1-AG J7F250152-1-SAMP 06/21/2007 12:27		26.50g,in AmtRec: 20ML,500MLP,6XLP	#Containers: 8			Scr:	Alpha: 1.09E-04 uCi/Sa	Beta: 2.24E-03 uCi/Sa
11 J1P76-1-AD J7F250154-1-SAMP 06/21/2007 13:09		25.50g,in AmtRec: 20ML,500ML,LP	#Containers: 3			Scr:	Alpha: 1.16E-04 uCi/Sa	Beta: 7.80E-05 uCi/Sa
12 J1P8D-1-AD J7F250154-2-SAMP 06/21/2007 09:43		26.30g,in AmtRec: 20ML,500ML,LP	#Containers: 3			Scr:	Alpha: 1.14E-04 uCi/Sa	Beta: 1.11E-04 uCi/Sa
13 J1P8F-1-AD J7F250154-3-SAMP 06/21/2007 11:01		26.00g,in AmtRec: 20ML,500ML,LP	#Containers: 3			Scr:	Alpha: 1.25E-04 uCi/Sa	Beta: -1.95E-05 uCi/Sa
14 J1P8L-1-AE J7F250154-4-SAMP 06/21/2007 11:47		25.10g,in AmtRec: 20ML,500ML,4XLP	#Containers: 6			Scr:	Alpha: -2.89E-04 uCi/Sa	Beta: 8.20E-04 uCi/Sa

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STL RICHLAND

8/2/2007 1:15:05 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 08/03/2007

Sep1 DT/Tm Tech:

Batch: 7180605 ug/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 J15EC-1-AA-B J7F290000-605-BLK 06/21/2007 09:43		25.50g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
16 J15EC-1-AC-C J7F290000-605-LCS 06/21/2007 09:43		25.00g,in AmtRec:	unsl3836 06/27/07,pd 01/23/07,r #Containers: 1			Scr:	Alpha:	Beta:
17 J15EC-1-AD-C J7F290000-605-LCS 06/21/2007 09:43		25.10g,in AmtRec:	unsc1777 07/17/07,pd 04/28/06,r #Containers: 1			Scr:	Alpha:	Beta:

Comments: pH < 2.0 JB 8-2-07

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

J1JM71AD-SAMP Constituent List:

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

J1P5P1AE-MS:

J15EC1AA-BLK:

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

J15EC1AC-LCS:

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

J15EC1AD-LCS:

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

J1JM71AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

J1P5P1AE-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

8/2/2007 1:15:06 PM

Sample Preparation/Analysis

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

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

AnalyDueDate: 08/03/2007

Batch: 7180605 ug/L
SEQ Batch, Test: None

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

J15EC1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J15EC1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J15EC1AD-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

8/7/2007 7:22:27 AM

ICOC Fraction Transfer/Status Report

ByDate: 8/7/2006, 8/12/2007, Batch: '7180605', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7180605						
AC		Cnt1C	BockJ	7/26/2007 1:30:32 PM		
SC			wagarr	IsBatched	6/29/2007 3:45:29 PM	ICOC_RADCALC v4.8.26
SC			BockJ	Prep1C	7/26/2007 1:30:32 PM	RICH-RC-5016 REVISION 7
SC			BockJ	InPrep	7/26/2007 1:30:50 PM	RICH-RC-5016 Revision 7
SC			AshworthA	InPrep2	7/31/2007 2:15:05 PM	RICH-RC-5015 REVISION 6
SC			AshworthA	Prep2C	8/2/2007 8:39:11 AM	RICH-RC-5015 REVISION 6
SC			NelsonT	Cnt1C	8/2/2007 3:13:33 PM	RICH-RC-5058 REV 7
AC			BockJ	7/26/2007 1:30:50 PM		
AC			BockJ	7/26/2007 1:50:34 PM		rEVISION 6
AC			AshworthA	7/31/2007 2:15:05 PM		
AC			AshworthA	8/2/2007 8:39:11 AM		
AC			BockJ	8/2/2007 1:15:10 PM		
AC			NelsonT	8/2/2007 3:13:33 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 7

ICOCFractions v4.8.27