STL RICHLAND

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 116 *Pages*

Report Nbr: 36235

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05182	I07-044	B1N346	J7F070107-1	J0F741AA	9J0F7410	7165518
		B1N346	J7F070107-1	J0F741AC	9J0F7410	7165500
		B1N321	J7F070107-2	J0F751AA	9J0F7510	7165518
		B1N321	J7F070107-2	J0F751AC	9J0F7510	7165521
		B1N321	J7F070107-2	J0F751AD	9J0F7510	7165500
	S07-006	B1NKN4	J7F070109-1	J0F8T1AA	9J0F8T10	7165522
		B1NKN4	J7F070109-1	J0F8T1AC	9J0F8T10	7165524
		B1NKN4	J7F070109-1	J0F8T1AD	9J0F8T10	7165519
		B1NKL8	J7F070109-2	J0F8X1AA	9J0F8X10	7165522
		B1NKL8	J7F070109-2	J0F8X1AC	9J0F8X10	7165524
		B1NKL8	J7F070109-2	J0F8X1AD	9J0F8X10	7165519
		B1NKM2	J7F070109-3	J0F811AA	9J0F8110	7165519
		B1NKL4	J7F070109-4	J0F821AA	9J0F8210	7165522
		B1NKL4	J7F070109-4	J0F821AC	9J0F8210	7165524
		B1NKL4	J7F070109-4	J0F821AD	9J0F8210	7165519

Comments:

RECEIVED
SEP 10 2012
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AUG 09 2007

1216642

Report Nbr: 36235

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05182	S07-006	B1NKP2	J7F070113-1	J0F951AA	9J0F9510	7165519
		B1NKR0	J7F070113-2	J0GAA1AA	9J0GAA10	7165522
		B1NKR0	J7F070113-2	J0GAA1AC	9J0GAA10	7165524
		B1NKR0	J7F070113-2	J0GAA1AD	9J0GAA10	7165519
		B1NKR4	J7F070113-3	J0GAG1AA	9J0GAG10	7165526
		B1NKR4	J7F070113-3	J0GAG1AC	9J0GAG10	7165519
		B1NKR8	J7F070113-4	J0GAH1AA	9J0GAH10	7165526
		B1NKR8	J7F070113-4	J0GAH1AC	9J0GAH10	7165519
		B1NKP6	J7F070113-5	J0GAN1AA	9J0GAN10	7165522
		B1NKP6	J7F070113-5	J0GAN1AC	9J0GAN10	7165524
		B1NKP6	J7F070113-5	J0GAN1AD	9J0GAN10	7165519
	S07-005	B1N3T8	J7F070117-1	J0GAW1AA	9J0GAW10	7165500
		B1N3T7	J7F070117-2	J0GA11AA	9J0GA110	7165500
		B1N3V5	J7F070117-3	J0GA21AA	9J0GA210	7165500
		B1N3M2	J7F110180-1	J0P8M1AA	9J0P8M10	7165518
		B1N3M3	J7F110180-2	J0P8T1AA	9J0P8T10	7165518
		B1N3K7	J7F110180-3	J0P801AA	9J0P8010	7165520
		B1N3K7	J7F110180-3	J0P801AC	9J0P8010	7165500
		B1N3K7	J7F110180-3	J0P801AD	9J0P8010	7165519
	I07-043	B1N2P2	J7F110184-1	J0P851AA	9J0P8510	7165518
	S07-005	B1N3P2	J7F110185-1	J0P891AA	9J0P8910	7165518
	A07-006	B1NHX0	J7F130132-1	J0V2L1AA	9J0V2L10	7165518
		B1NHX0	J7F130132-1	J0V2L1AC	9J0V2L10	7165500

Comments:

SEVERN TRENT STL

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Richland, WA 99354

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Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

August 3, 2007

Attention: Steve Trent

SAF Number	:	I07-044, S07-006, S07-005, I07-043, A07-006
Date SDG Closed	:	June 12, 2007
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05182
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between April 26, 2007 and April 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
B1N346	J0F74	6/5/07	WATER
B1N321	J0F75	6/5/07	WATER
B1NKN4	J0F8T	6/6/07	WATER
B1NKL8	J0F8X	6/6/07	WATER
B1NKM2	J0F81	6/6/07	WATER
B1NKL4	J0F82	6/6/07	WATER
B1NKP2	J0F95	6/6/07	WATER
B1NKR0	J0GAA	6/6/07	WATER
B1NKR4	J0GAG	6/6/07	WATER
B1NKR8	J0GAH	6/6/07	WATER
B1NKP6	J0GAN	6/6/07	WATER
B1N3T8	J0GAW	6/6/07	WATER
B1N3T7	J0GA1	6/6/07	WATER

B1N3V5	J0GA2	6/6/07	WATER
B1N3M2	J0P8M	6/8/07	WATER
B1N3M3	J0P8T	6/8/07	WATER
B1N3K7	J0P80	6/8/07	WATER
B1N2P2	J0P85	6/8/07	WATER
B1N3P2	J0P89	6/8/07	WATER
B1NHX0	J0V2L	6/1207	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:

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

IV. Quality Control

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

QC and sample results are reported in the same units.

V. Comments

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:
Samples B1NKN4, B1NKR0, B1NKP6 and B1NJP6 DUP were analyzed with reduced volumes based on elevated screen results. Except as noted, the LCS, batch blank, samples and sample duplicate (B1NJP6) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:
The LCS, batch blank, samples and sample duplicate (B1NKL4) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006
The LCS, batch blank, samples and sample duplicate (B1N321) results are within contractual requirements.

Gamma Spectroscopy

Gamma Spec (LL) by method RICH-RC-5017:
The LCS, batch blank, samples and sample duplicate (B1N3K7) results are within contractual requirements.

Iodine-129 (LL) by method RICH-RC-5025:
The LCS, batch blank, samples and sample duplicate (B1N2P2) results are within contractual requirements.

Liquid Scintillation Counting

Technetium-99 by TEVA method RICH-RC-5065:
The LCS, batch blank, samples, sample duplicate (B1N3T8), and sample matrix spike (B1N3T7) results are within contractual requirements.

Tritium by method RICH-RC-5007:
The LCS, batch blank, samples and sample duplicate (B1NKR4) results are within contractual requirements.

Total Uranium

Total Uranium by method RICH-RC-5058:
The LCS, batch blank, samples, sample duplicate (B1NKN4), and sample matrix spike (B1NKL8) results are within contractual requirements.

Fluor Hanford
August 3, 2007

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:

Sandra Segu

Sherryl A. Adam
for 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.

8/3/2007 11:01:45 AM

TAL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 36235 File Name: h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.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:
9J0F7410	B1N346		MW6-SBB-A1	I07-044	W05182					06/05/2007 11:15

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165518	I-129L	15046-84-1	1.40E-01	pCi/L	1.5E-01	1.5E-01	U	2.99E-01	91.1	I129LL_SEP_LEPS	3.9501E+00	L	07/27/2007 10:27	I
7165500	TC-99	14133-76-7	2.16E+03	pCi/L	2.5E+01	1.3E+02		9.97E+00	100.0	TC99_ETVDSK_LS	1.252E-01	L	07/26/2007 11:52	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:
9J0F7510	B1N321		MW6-SBB-A1	I07-044	W05182					06/05/2007 09:10

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165518	I-129L	15046-84-1	-2.16E-02	pCi/L	1.4E-01	1.4E-01	U	2.50E-01	90.0	I129LL_SEP_LEPS	3.9373E+00	L	07/27/2007 10:30	I
7165521	SR-90	10098-97-2	4.05E-01	pCi/L	2.8E-01	2.8E-01	U	5.07E-01	88.0	SRISO_SEP_PRE	9.98E-01	L	07/26/2007 08:05	I
7165500	TC-99	14133-76-7	5.51E+01	pCi/L	5.7E+00	9.1E+00		1.01E+01	100.0	TC99_ETVDSK_LS	1.25E-01	L	07/26/2007 12:55	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:
9J0F8110	B1NKM2		MW6-SBB-A1	S07-006	W05182					06/06/2007 11:13

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165519	Uranium	7440-61-1	-6.74E-03	ug/L	7.9E-04	7.9E-04	U	7.94E-02		UTOT_KPA	2.64E-02	ML	07/27/2007 11:13	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J0F8210	B1NKL4		MW6-SBB-A1	S07-006	W05182					06/06/2007 12:05

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165522	ALPHA	12587-46-1	1.46E+01	pCi/L	3.0E+00	4.5E+00		1.33E+00	100.0	9310_ALPHABETA	1.997E-01	L	07/27/2007 15:12	I
7165524	BETA	12587-47-2	1.69E+01	pCi/L	2.4E+00	3.4E+00		3.07E+00	100.0	9310_ALPHABETA	2.004E-01	L	07/27/2007 14:53	I
7165519	Uranium	7440-61-1	2.99E+01	ug/L	3.5E+00	3.5E+00		8.25E-02		UTOT_KPA	2.54E-02	ML	07/27/2007 11:17	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J0F8T10	B1NKN4		MW6-SBB-A1	S07-006	W05182					06/06/2007 09:01

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165522	ALPHA	12587-46-1	5.27E+00	pCi/L	2.3E+00	2.6E+00		2.22E+00	100.0	9310_ALPHABETA	1.863E-01	L	07/27/2007 15:12	I
7165524	BETA	12587-47-2	1.57E+01	pCi/L	2.3E+00	3.2E+00		2.99E+00	100.0	9310_ALPHABETA	1.991E-01	L	07/27/2007 14:53	I
7165519	Uranium	7440-61-1	6.68E+00	ug/L	7.9E-01	7.9E-01		8.06E-02		UTOT_KPA	2.60E-02	ML	07/27/2007 10:58	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:

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.

8/3/2007 11:01:45 AM

TAL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 36235 File Name: h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.Edd

9J0F8X10 B1NKL8 MW6-SBB-A1 S07-006 W05182 06/06/2007 09:53

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165522	ALPHA	12587-46-1	1.61E+01	pCi/L	3.3E+00	4.9E+00		1.51E+00	100.0	9310_ALPHABETA	1.991E-01	L	07/27/2007 15:12	I
7165524	BETA	12587-47-2	1.50E+01	pCi/L	2.3E+00	3.3E+00		3.00E+00	100.0	9310_ALPHABETA	2.003E-01	L	07/27/2007 14:53	I
7165519	Uranium	7440-61-1	3.50E+01	ug/L	4.1E+00	4.1E+00		8.06E-02		UTOT_KPA	2.60E-02	ML	07/27/2007 11:09	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J0F9510	B1NKP2		MW6-SBB-A1	S07-006	W05182					06/06/2007 13:48

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165519	Uranium	7440-61-1	7.16E+00	ug/L	8.5E-01	8.5E-01		8.15E-02		UTOT_KPA	2.57E-02	ML	07/27/2007 11:18	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J0GA110	B1N3T7		MW6-SBB-A1	S07-005	W05182					06/06/2007 11:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165500	TC-99	14133-76-7	4.93E+00	pCi/L	4.3E+00	6.2E+00	U	1.01E+01	100.0	TC99_ETVDSK_LS	1.252E-01	L	07/26/2007 16:03	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:
9J0GA210	B1N3V5		MW6-SBB-A1	S07-005	W05182					06/06/2007 12:02

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165500	TC-99	14133-76-7	5.58E+00	pCi/L	4.4E+00	6.3E+00	U	1.01E+01	100.0	TC99_ETVDSK_LS	1.251E-01	L	07/26/2007 18:08	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:
9J0GAA10	B1NKR0		MW6-SBB-A1	S07-006	W05182					06/06/2007 12:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165522	ALPHA	12587-46-1	1.08E+00	pCi/L	1.1E+00	1.1E+00	U	1.75E+00	100.0	9310_ALPHABETA	1.845E-01	L	07/27/2007 15:12	I
7165524	BETA	12587-47-2	6.66E+00	pCi/L	1.7E+00	1.9E+00		2.85E+00	100.0	9310_ALPHABETA	1.995E-01	L	07/27/2007 15:14	I
7165519	Uranium	7440-61-1	-1.60E-02	ug/L	2.3E-03	2.3E-03	U	8.45E-02		UTOT_KPA	2.48E-02	ML	07/27/2007 11:20	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J0GAG10	B1NKR4		MW6-SBB-A1	S07-006	W05182					06/06/2007 11:09

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165526	H-3	10028-17-8	1.06E+04	pCi/L	3.6E+02	5.7E+02		3.18E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/22/2007 16:32	I
7165519	Uranium	7440-61-1	6.02E+00	ug/L	7.1E-01	7.1E-01		8.35E-02		UTOT_KPA	2.51E-02	ML	07/27/2007 11:25	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.

8/3/2007 11:01:45 AM

TAL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 36235 File Name: h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.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:
9J0GAH10	B1NKR8		MW6-SBB-A1	S07-006	W05182					06/06/2007 09:28

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165526	H-3	10028-17-8	1.44E+02	pCi/L	1.4E+02	1.5E+02	U	3.19E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/22/2007 19:17	I
7165519	Uranium	7440-61-1	-1.77E-02	ug/L	2.3E-03	2.3E-03	U	8.19E-02		UTOT_KPA	2.56E-02	ML	07/27/2007 11:26	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J0GAN10	B1NKP6		MW6-SBB-A1	S07-006	W05182					06/06/2007 13:07

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165522	ALPHA	12587-46-1	3.92E+01	pCi/L	5.8E+00	1.1E+01		1.81E+00	100.0	9310_ALPHABETA	1.809E-01	L	07/27/2007 15:12	I
7165524	BETA	12587-47-2	3.25E+01	pCi/L	3.0E+00	5.1E+00		2.99E+00	100.0	9310_ALPHABETA	1.986E-01	L	07/27/2007 15:14	I
7165519	Uranium	7440-61-1	8.33E+01	ug/L	9.8E+00	9.8E+00		7.79E-02		UTOT_KPA	2.69E-02	ML	07/27/2007 11:34	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J0GAW10	B1N3T8		MW6-SBB-A1	S07-005	W05182					06/06/2007 08:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165500	TC-99	14133-76-7	1.01E+00	pCi/L	4.2E+00	6.0E+00	U	1.01E+01	100.0	TC99_ETVDSK_LS	1.256E-01	L	07/26/2007 13:58	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:
9J0P8010	B1N3K7		MW6-SBB-A1	S07-005	W05182					06/08/2007 13:21

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165520	BE-7	13966-02-4	-1.41E+01	pCi/L	2.8E+01	2.8E+01	U	4.84E+01		GAMMALL_GS	1.971E+00	L	07/20/2007 06:10	I
7165520	CO-60	10198-40-0	6.72E+00	pCi/L	3.8E+00	3.8E+00	U	8.51E+00		GAMMALL_GS	1.971E+00	L	07/20/2007 06:10	I
7165520	CS-134	13967-70-9	-8.58E-01	pCi/L	3.1E+00	3.1E+00	U	5.47E+00		GAMMALL_GS	1.971E+00	L	07/20/2007 06:10	I
7165520	CS-137	10045-97-3	-3.23E-01	pCi/L	2.3E+00	2.3E+00	U	4.25E+00		GAMMALL_GS	1.971E+00	L	07/20/2007 06:10	I
7165520	EU-152	14683-23-9	3.95E+00	pCi/L	5.9E+00	5.9E+00	U	1.14E+01		GAMMALL_GS	1.971E+00	L	07/20/2007 06:10	I
7165520	EU-154	15585-10-1	-2.96E+00	pCi/L	6.7E+00	6.7E+00	U	1.21E+01		GAMMALL_GS	1.971E+00	L	07/20/2007 06:10	I
7165520	EU-155	14391-16-3	-1.89E+00	pCi/L	5.4E+00	5.4E+00	U	9.13E+00		GAMMALL_GS	1.971E+00	L	07/20/2007 06:10	I
7165520	K-40	13966-00-2	-4.73E+01	pCi/L	6.0E+01	6.0E+01	U	1.29E+02		GAMMALL_GS	1.971E+00	L	07/20/2007 06:10	I
7165520	RU-106	13967-48-1	1.62E+01	pCi/L	2.2E+01	2.2E+01	U	4.44E+01		GAMMALL_GS	1.971E+00	L	07/20/2007 06:10	I
7165520	SB-125	14234-35-6	-1.65E-01	pCi/L	6.3E+00	6.3E+00	U	1.13E+01		GAMMALL_GS	1.971E+00	L	07/20/2007 06:10	I
7165500	TC-99	14133-76-7	2.37E+03	pCi/L	2.7E+01	1.5E+02		1.02E+01	100.0	TC99_ETVDSK_LS	1.258E-01	L	07/26/2007 19:11	I
7165519	Uranium	7440-61-1	4.97E+00	ug/L	5.1E-01	5.1E-01		7.94E-02		UTOT_KPA	2.64E-02	ML	07/27/2007 11:35	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.

8/3/2007 11:01:45 AM

TAL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 36235 File Name: h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.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:
9J0P8510	B1N2P2		MW6-SBB-A1	I07-043	W05182					06/08/2007 13:44

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165518	I-129L	15046-84-1	-1.39E-01	pCi/L	1.6E-01	1.6E-01	U	2.64E-01	94.6	I129LL_SEP_LEPS	3.9659E+00	L	07/27/2007 12:17	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J0P8910	B1N3P2		MW6-SBB-A1	S07-005	W05182					06/08/2007 12:31

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165518	I-129L	15046-84-1	-1.79E-01	pCi/L	1.4E-01	1.4E-01	U	2.15E-01	89.5	I129LL_SEP_LEPS	3.9614E+00	L	07/27/2007 14:01	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:
9J0P8M10	B1N3M2		MW6-SBB-A1	S07-005	W05182					06/08/2007 09:56

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165518	I-129L	15046-84-1	9.00E-01	pCi/L	4.4E-01	4.4E-01	U	5.61E-01	90.3	I129LL_SEP_LEPS	3.9041E+00	L	07/27/2007 10:31	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J0P8T10	B1N3M3		MW6-SBB-A1	S07-005	W05182					06/08/2007 09:56

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165518	I-129L	15046-84-1	1.07E+00	pCi/L	3.0E-01	3.0E-01	U	5.38E-01	91.1	I129LL_SEP_LEPS	3.8997E+00	L	07/27/2007 12:14	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:
9J0V2L10	B1NHX0		MW6-SBB-A1	A07-006	W05182					06/12/2007 12:26

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7165518	I-129L	15046-84-1	3.21E-02	pCi/L	1.5E-01	1.5E-01	U	2.88E-01	92.7	I129LL_SEP_LEPS	3.8535E+00	L	07/27/2007 14:04	I
7165500	TC-99	14133-76-7	5.11E+01	pCi/L	5.6E+00	8.8E+00		1.00E+01	100.0	TC99_ETVDSK_LS	1.259E-01	L	07/26/2007 20:14	I

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

Friday, August 03, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.Edd

Lab Sample Id: J027Q1AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05182 36235
Matrix: WATER WATER
QC Type: BLK

Collection Date: 06/06/2007 08:00
Sample On Date:
Received Date: 06/06/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7165500	TC-99	-3.57E+00	pCi/L	5.8E+00	U	1.00E+01	100.0		TC99_ETVDSK	1.252E-01	07/26/2007				
BLK	14133-76-7			4.0E+00						L	21:16				D

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.

1

Friday, August 03, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.Edd

Lab Sample Id: J02911AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05182 36235
Matrix: WATER WATER
QC Type: BLK

Collection Date: 06/06/2007 11:09
Sample On Date:
Received Date: 06/06/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7165526	H-3	2.52E+00	pCi/L	1.5E+02	U	3.18E+02	100.0		906.0_H3_LSC	5.00E-03	06/22/2007				D
BLK	10028-17-8			1.3E+02						L	11:03				

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

Friday, August 03, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.Edd

Lab Sample Id: J02911DX
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05182 36235
Matrix: WATER WATER
QC Type: BLK

Collection Date: 06/06/2007 11:09
Sample On Date:
Received Date: 06/06/2007

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
7165526 BLK	H-3 10028-17-8	2.56E+02	pCi/L	1.6E+02 1.4E+02	U	3.26E+02	100.0		906.0_H3_LSC	5.00E-03 L	06/22/2007 13:47				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.

Friday, August 03, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.Edd

Lab Sample Id:	J029F1AB	**Sdg/Rept Nbr:**	W05182	36235	**Collection Date:** 06/08/2007 13:44
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 06/08/2007

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
7165518	I-129L	-4.85E-03	pCi/L	1.4E-01	U	2.58E-01	87.0		I129LL_SEP_L	3.9505E+00	07/27/2007				D
BLK	15046-84-1			1.4E-01						L	14:04				

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

Friday, August 03, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.Edd

Lab Sample Id:	J029L1AB	**Sdg/Rept Nbr:**	W05182	36235	**Collection Date:** 06/06/2007 09:01
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 06/06/2007

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
7165519	Uranium	0.00E+00	ug/L	0.0E+00	U	8.22E-02			UTOT_KPA	2.55E-02	07/27/2007				D
BLK	7440-61-1			0.0E+00						ML	10:48				

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.

Friday, August 03, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.Edd

Lab Sample Id: J029M1AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05182 36235
Matrix: WATER WATER
QC Type: BLK

Collection Date: 06/08/2007 13:21
Sample On Date:
Received Date: 06/08/2007

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
7165520	BE-7	3.18E+00	pCi/L	2.2E+01	U	4.11E+01			GAMMALL_GS	1.9977E+00	07/20/2007				D
BLK	13966-02-4			2.2E+01						L	06:11				
7165520	CO-60	-4.50E-02	pCi/L	1.8E+00	U	3.40E+00			GAMMALL_GS	1.9977E+00	07/20/2007				D
BLK	10198-40-0			1.8E+00						L	06:11				
7165520	CS-134	4.44E-01	pCi/L	1.8E+00	U	3.58E+00			GAMMALL_GS	1.9977E+00	07/20/2007				D
BLK	13967-70-9			1.8E+00						L	06:11				
7165520	CS-137	1.76E+00	pCi/L	1.9E+00	U	3.85E+00			GAMMALL_GS	1.9977E+00	07/20/2007				D
BLK	10045-97-3			1.9E+00						L	06:11				
7165520	EU-152	7.29E-01	pCi/L	5.3E+00	U	9.41E+00			GAMMALL_GS	1.9977E+00	07/20/2007				D
BLK	14683-23-9			5.3E+00						L	06:11				
7165520	EU-154	7.56E-03	pCi/L	4.7E+00	U	9.24E+00			GAMMALL_GS	1.9977E+00	07/20/2007				D
BLK	15585-10-1			4.7E+00						L	06:11				
7165520	EU-155	-5.51E-01	pCi/L	4.2E+00	U	7.23E+00			GAMMALL_GS	1.9977E+00	07/20/2007				D
BLK	14391-16-3			4.2E+00						L	06:11				
7165520	K-40	3.38E+01	pCi/L	2.9E+01	U	6.59E+01			GAMMALL_GS	1.9977E+00	07/20/2007				D
BLK	13966-00-2			2.9E+01						L	06:11				
7165520	RU-106	-1.96E+01	pCi/L	1.8E+01	U	2.76E+01			GAMMALL_GS	1.9977E+00	07/20/2007				D
BLK	13967-48-1			1.8E+01						L	06:11				
7165520	SB-125	1.84E+00	pCi/L	4.7E+00	U	8.80E+00			GAMMALL_GS	1.9977E+00	07/20/2007				D
BLK	14234-35-6			4.7E+00						L	06:11				

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

Friday, August 03, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.Edd

Lab Sample Id: J029N1AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05182 36235
Matrix: WATER WATER
QC Type: BLK

Collection Date: 06/05/2007 09:10
Sample On Date:
Received Date: 06/05/2007

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
7165521	SR-90	4.34E-01	pCi/L	2.6E-01	U	4.90E-01	79.4		SRISO_SEP_P	1.0018E+00	07/26/2007				D
BLK	10098-97-2			2.5E-01						L	08:05				

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

Friday, August 03, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.Edd

Lab Sample Id:	J029R1AB	**Sdg/Rept Nbr:**	W05182	36235	**Collection Date:** 06/06/2007 13:07
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 06/06/2007

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
7165522	ALPHA	3.03E-02	pCi/L	3.0E-01	U	8.86E-01	100.0		9310_ALPHAB	2.018E-01	07/27/2007				D
BLK	12587-46-1			3.0E-01						L	16:25				

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.

Friday, August 03, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.Edd

Lab Sample Id: J029V1AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05182 36235
Matrix: WATER WATER
QC Type: BLK

Collection Date: 06/06/2007 12:05
Sample On Date:
Received Date: 06/06/2007

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
7165524	BETA	1.15E+00	pCi/L	1.2E+00	U	2.36E+00	100.0		9310_ALPHAB	2.02E-01	07/27/2007				D
BLK	12587-47-2			1.2E+00						L	15:14				

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

Friday, August 03, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.Edd

Lab Sample Id: J027Q1CS **Sdg/Rept Nbr:** W05182 36235 **Collection Date:** 06/06/2007 08:00

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

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

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7165500	TC-99	5.05E+02	pCi/L	3.6E+01		1.00E+01	100.0	5.38E+02	TC99_ETVDSK	1.271E-01	07/26/2007			75	D
BS	14133-76-7			1.3E+01				93.9		L	22:19			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.

Friday, August 03, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.Edd

Lab Sample Id: J02911CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05182 36235
Matrix: WATER WATER
QC Type: BS

Collection Date: 06/06/2007 11:09
Sample On Date:
Received Date: 06/06/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7165526	H-3	2.57E+03	pCi/L	2.6E+02		3.19E+02	100.0	2.71E+03	906.0_H3_LSC	5.00E-03	06/22/2007			75	D
BS	10028-17-8			2.1E+02				94.7		L	12:25			125	

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.

Friday, August 03, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.Edd

Lab Sample Id:	J02911EM	**Sdg/Rept Nbr:**	W05182	36235	**Collection Date:** 06/06/2007 11:09
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 06/06/2007

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
7165526	H-3	2.44E+03	pCi/L	2.5E+02		3.18E+02	100.0	2.71E+03	906.0_H3_LSC	5.00E-03	06/22/2007			75	D
BS	10028-17-8			2.1E+02				89.8		L	15:10			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.

Friday, August 03, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.Edd

Lab Sample Id: J029F1CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05182 36235
Matrix: WATER WATER
QC Type: BS

Collection Date: 06/08/2007 13:44
Sample On Date:
Received Date: 06/08/2007

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
7165518	I-129L	8.81E+00	pCi/L	1.1E+00		4.24E-01	92.4	9.78E+00	I129LL_SEP_L	3.9505E+00	07/27/2007			70	D
BS	15046-84-1			1.1E+00				90.0		L	15:50			130	

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

Friday, August 03, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.Edd

Lab Sample Id: J029L1CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05182 36235
Matrix: WATER WATER
QC Type: BS

Collection Date: 06/06/2007 09:01
Sample On Date:
Received Date: 06/06/2007

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
7165519	Uranium	3.60E+01	ug/L	4.2E+00		8.28E-02		3.57E+01	UTOT_KPA	2.53E-02	07/27/2007			75	D
BS	7440-61-1			4.2E+00				100.8		ML	10:52			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.

Friday, August 03, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.Edd

Lab Sample Id: J029L1DS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05182 36235
Matrix: WATER WATER
QC Type: BS

Collection Date: 06/06/2007 09:01
Sample On Date:
Received Date: 06/06/2007

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
7165519	Uranium	3.50E+00	ug/L	3.6E-01		8.22E-02		3.54E+00	UTOT_KPA	2.55E-02	07/27/2007			75	D
BS	7440-61-1			3.6E-01				98.9		ML	10:54			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.

Friday, August 03, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.Edd

Lab Sample Id: J029M1CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05182 36235
Matrix: WATER WATER
QC Type: BS

Collection Date: 06/08/2007 13:21
Sample On Date:
Received Date: 06/08/2007

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
7165520	CS-137	2.43E+01	pCi/L	7.4E+00		5.17E+00		2.31E+01	GAMMALL_GS	1.9968E+00	07/20/2007			70	D
BS	10045-97-3			7.4E+00				104.9		L	06:11			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.

Friday, August 03, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.Edd

Lab Sample Id: J029N1CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05182 36235
Matrix: WATER WATER
QC Type: BS

Collection Date: 06/05/2007 09:10
Sample On Date:
Received Date: 06/05/2007

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
7165521	SR-90	1.38E+01	pCi/L	2.1E+00		5.48E-01	79.8	1.38E+01	SRISO_SEP_P	9.995E-01	07/26/2007			70	D
BS	10098-97-2			7.4E-01				100.1		L	08:05			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.

Friday, August 03, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.Edd

Lab Sample Id: J029R1CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05182 36235
Matrix: WATER WATER
QC Type: BS

Collection Date: 06/06/2007 13:07
Sample On Date:
Received Date: 06/06/2007

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
7165522	ALPHA	2.20E+01	pCi/L	6.0E+00		1.02E+00	100.0	2.25E+01	9310_ALPHAB	2.006E-01	07/27/2007			70	D
BS	12587-46-1			3.1E+00				97.6		L	16:25			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.

Friday, August 03, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.Edd

Lab Sample Id: J029V1CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05182 36235
Matrix: WATER WATER
QC Type: BS

Collection Date: 06/06/2007 12:05
Sample On Date:
Received Date: 06/06/2007

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
7165524	BETA	2.07E+01	pCi/L	3.5E+00		2.49E+00	100.0	2.27E+01	9310_ALPHAB	1.993E-01	07/27/2007			70	D
BS	12587-47-2			2.3E+00				91.2		L	15:14			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.

Friday, August 03, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.Edd

Lab Sample Id:	J0F751ER	**Sdg/Rept Nbr:**	W05182	36235	**Collection Date:** 06/05/2007 09:10
Client Id:	B1N321	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 06/05/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I07-044	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
7165521	SR-90	4.03E-01	pCi/L	2.7E-01	U	5.03E-01	87.8		SRISO_SEP_P	1.0018E+00	07/26/2007	.4	0.		D
DUP	10098-97-2	4.05E-01		2.7E-01						L	08:05	20.0	3		

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

Friday, August 03, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.Edd

Lab Sample Id: J0F821ER
Client Id: B1NKL4
Moisture/Solids%*:

Sdg/Rept Nbr: W05182 36235
Matrix: WATER WATER
QC Type: DUP

Collection Date: 06/06/2007 12:05
Sample On Date:
Received Date: 06/06/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-006	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
7165524	BETA	1.54E+01	pCi/L	3.0E+00		3.07E+00	100.0		9310_ALPHAB	2.00E-01	07/27/2007	8.7	0.7		D
DUP	12587-47-2	1.69E+01		2.3E+00						L	15:14	20.0	3		

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

Friday, August 03, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.Edd

Lab Sample Id: J0F8T1ER **Sdg/Rept Nbr:** W05182 36235 **Collection Date:** 06/06/2007 09:01

Client Id: B1NKN4 **Matrix:** WATER WATER **Sample On Date:**

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

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-006	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
7165519	Uranium	7.14E+00	ug/L	8.4E-01		8.09E-02			UTOT_KPA	2.59E-02	07/27/2007	6.6	0.8		D
DUP	7440-61-1	6.68E+00		8.4E-01						ML	11:04	20.0	3		

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

Friday, August 03, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.Edd

Lab Sample Id: J0GAG1DR
Client Id: B1NKR4
Moisture/Solids%*:

Sdg/Rept Nbr: W05182 36235
Matrix: WATER WATER
QC Type: DUP

Collection Date: 06/06/2007 11:09
Sample On Date:
Received Date: 06/06/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-006	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
7165526	H-3	1.03E+04	pCi/L	5.5E+02		3.19E+02	100.0		906.0_H3_LSC	5.00E-03	06/22/2007	3.6	1.		D
DUP	10028-17-8	1.06E+04		3.6E+02						L	17:54	20.0	3		

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

Friday, August 03, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.Edd

Lab Sample Id: J0GAN1ER
Client Id: B1NKP6
Moisture/Solids%*:

Sdg/Rept Nbr: W05182 36235
Matrix: WATER WATER
QC Type: DUP

Collection Date: 06/06/2007 13:07
Sample On Date:
Received Date: 06/06/2007

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
7165522	ALPHA	3.20E+01	pCi/L	9.1E+00		2.10E+00	100.0		9310_ALPHAB	1.774E-01	07/27/2007	20.2	1.1		D
DUP	12587-46-1	3.92E+01		5.5E+00						L	16:25	20.0	3		

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

Friday, August 03, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.Edd

Lab Sample Id:	J0GAW1CR	**Sdg/Rept Nbr:**	W05182	36235	**Collection Date:** 06/06/2007 08:00
Client Id:	B1N3T8	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 06/06/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-005	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
7165500	TC-99	2.17E+00	pCi/L	6.0E+00	U	9.97E+00	100.0		TC99_ETVDSK	1.267E-01	07/26/2007	73.1	0.3		D
DUP	14133-76-7	1.01E+00		4.2E+00						L	15:00	20.0	3		

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

Friday, August 03, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.Edd

Lab Sample Id:	J0P801ER	**Sdg/Rept Nbr:**	W05182	36235	**Collection Date:** 06/08/2007 13:21
Client Id:	B1N3K7	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 06/08/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-005	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
7165520	BE-7	-2.14E+01	pCi/L	3.0E+01	U	4.92E+01			GAMMALL_GS	1.9806E+00	07/20/2007	0.0	0.3		D
DUP	13966-02-4	-1.41E+01		3.0E+01						L	06:09	20.0	3		
7165520	CO-60	1.05E+01	pCi/L	4.3E+00	U	9.57E+00			GAMMALL_GS	1.9806E+00	07/20/2007	43.9	1.2		D
DUP	10198-40-0	6.72E+00		4.3E+00						L	06:09	20.0	3		
7165520	CS-134	-2.30E-01	pCi/L	2.6E+00	U	4.87E+00			GAMMALL_GS	1.9806E+00	07/20/2007	0.0	0.3		D
DUP	13967-70-9	-8.58E-01		2.6E+00						L	06:09	20.0	3		
7165520	CS-137	-7.25E-02	pCi/L	2.5E+00	U	4.64E+00			GAMMALL_GS	1.9806E+00	07/20/2007	0.0	0.1		D
DUP	10045-97-3	-3.23E-01		2.5E+00						L	06:09	20.0	3		
7165520	EU-152	-4.22E+00	pCi/L	6.0E+00	U	9.72E+00			GAMMALL_GS	1.9806E+00	07/20/2007	0.0	1.9		D
DUP	14683-23-9	3.95E+00		6.0E+00						L	06:09	20.0	3		
7165520	EU-154	-4.33E-01	pCi/L	7.3E+00	U	1.41E+01			GAMMALL_GS	1.9806E+00	07/20/2007	0.0	0.5		D
DUP	15585-10-1	-2.96E+00		7.3E+00						L	06:09	20.0	3		
7165520	EU-155	-2.70E+00	pCi/L	4.6E+00	U	7.57E+00			GAMMALL_GS	1.9806E+00	07/20/2007	0.0	0.3		D
DUP	14391-16-3	-1.89E+00		4.6E+00						L	06:09	20.0	3		
7165520	K-40	7.54E+00	pCi/L	4.8E+01	U	4.76E+01			GAMMALL_GS	1.9806E+00	07/20/2007	0.0	1.6		D
DUP	13966-00-2	-4.73E+01		4.8E+01						L	06:09	20.0	3		
7165520	RU-106	-4.72E+00	pCi/L	2.3E+01	U	4.12E+01			GAMMALL_GS	1.9806E+00	07/20/2007	364.3	1.3		D
DUP	13967-48-1	1.62E+01		2.3E+01						L	06:09	20.0	3		
7165520	SB-125	1.17E-01	pCi/L	5.9E+00	U	1.08E+01			GAMMALL_GS	1.9806E+00	07/20/2007	0.0	0.1		D
DUP	14234-35-6	-1.65E-01		5.9E+00						L	06:09	20.0	3		

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

Friday, August 03, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.Edd

Lab Sample Id:	J0P851CR	**Sdg/Rept Nbr:**	W05182	36235	**Collection Date:** 06/08/2007 13:44
Client Id:	B1N2P2	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 06/08/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I07-043	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
7165518	I-129L	-2.40E-02	pCi/L	1.3E-01	U	2.46E-01	91.4		I129LL_SEP_L	3.9498E+00	07/27/2007	0.0	1.2		D
DUP	15046-84-1	-1.39E-01		1.3E-01						L	12:18	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.

Friday, August 03, 2007

TAL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.Edd

Lab Sample Id: J0F8X1EW
Client Id: B1NKL8
Moisture/Solids%*:

Sdg/Rept Nbr: W05182 36235
Matrix: WATER WATER
QC Type: MS

Collection Date: 06/06/2007 09:53
Sample On Date:
Received Date: 06/06/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-006	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
7165519	Uranium	3.56E+01	ug/L	9.3E+00		7.94E-02		3.43E+01	UTOT_KPA	2.64E-02	07/27/2007			60	D
MS	7440-61-1			9.3E+00				103.7		ML	11:11			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.

Friday, August 03, 2007

TAL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05182.Edd, h:\Reportdb\edd\FeadIV\Rad\36235.Edd

Lab Sample Id:	J0GA11CW	**Sdg/Rept Nbr:**	W05182	36235	**Collection Date:** 06/06/2007 11:00
Client Id:	B1N3T7	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**MS**		**Received Date:** 06/06/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-005	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
7165500	TC-99	3.38E+03	pCi/L	2.1E+02		1.00E+01	100.0	3.57E+03	TC99_ETVDSK	1.264E-01	07/26/2007			60	D
MS	14133-76-7			3.1E+01				94.6		L	17:06			140	

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/30/2007 10:02:47 AM

Lot No., Due Date: J7F070109,J7F070113; 07/27/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7165522; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05182; 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** 7-30-7

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 716552L
W0518L

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: 7-30-07

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/30/2007 10:08:15 AM

Lot No., Due Date: J7F070109,J7F070113; 07/27/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7165524; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05182; 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 => J0F8T1AC BETA 1.6E+01 L:3.0E+00 J0F8X1AC BETA 1.5E+01 L:3.0E+00 J0F821AC BETA 1.7E+01 L:3.1E+00 J0GAA1AC BETA 6.7E+00 L:2.8E+00 J0GAN1AC BETA 3.3E+01 L:3.0E+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. 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** 7/30/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 716552 4
W03182

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: 7-30-07

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/26/2007 1:35:10 PM

Lot No., Due Date: J7F070107; 07/27/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7165521; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05182; 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 Tisa Anderson **Date** 7/26/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7145521
W05182

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: 7-27-07

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/24/2007 2:41:28 PM

Lot No., Due Date: J7F110180; 07/27/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7165520; RGAMMA Gamma by GER

SDG, Matrix: W05182; 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** 7/24/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7165520
W05182

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. Adkins Date: 7-24-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/30/2007 12:27:36 PM

Lot No., Due Date: J7F070107,J7F110184,J7F110185,J7F110180,J7F130132; 07/27/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7165518; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05182; 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 Lisa Autonson **Date** 7/30/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7165518
W05182

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: 7-30-07

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/27/2007 4:03:41 PM

Lot No., Due Date: J7F070107,J7F070117,J7F110180,J7F130132; 07/27/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7165500; RTC99 Tc-99 by LSC

SDG, Matrix: W05182; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	✓		
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used OK	✓		
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. RPD > UCL : 20.0=> J0GAW1AC TC-99 73.0 (RPD)		✓	
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. OK	✓		
8.17 Tracer within Control Limits. No Tracers found in Batch!			✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!			✓
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK Calc_IDL Not Calculated	✓		
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => TC-99 OK; No Callin Level Found => TC-99	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

8.26 Instruments have Current Calibrations. Yes No N/A

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

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

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

8.3 Comments:

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

First Level Review Lisa Anderson Date 7/27/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7165500
W0518L

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: 7-27-07

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/25/2007 2:19:31 PM

Lot No., Due Date: J7F070113; 07/27/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7165526; RTRITIUM H-3 by LSC

SDG, Matrix: W05182; 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 => J0GAG1AA 5.00<10.00 J0GAH1AA 5.00<10.00 Q:VB OR AL 6/25/07		✓	
8.07 The Correct Count Geometry was Used. Count Geometry => J02911AF SVP15/5<>SVP10/10 J02911AG SVP15/5<>SVP10/10 J02911AA SVP15/5<>SVP10/10 J02911AC SVP15/5<>SVP10/10 J02911AD SVP15/5<>SVP10/10 J02911AE SVP15/5<>SVP10/10 J0GAG1AA SVP15/5<>SVP10/10 J0GAG1AD SVP15/5<>SVP10/10 J0GAH1AA SVP15/5<>SVP10/10 Q:VC OR AL 6/25/07		✓	
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. OK (RPD)	✓		
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. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK Calc_IDL Not Calculated	✓		

8.23 Result <= Action Level, when Defined. 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** 6/25/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7165526
W05182

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: 6-25-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

8/1/2007 10:52:12 AM

Lot No., Due Date: J7F070109,J7F070113,J7F110180; 07/27/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7165519; RUNAT UNat by KPA

SDG, Matrix: W05182; 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 Morris **Date** 8-1-7

STL Richland

QAS_RADCALCv4.8.27

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7165519
W05182

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: 8-1-07

STL RICHLAND

PNNL J7F070107
W05182
Due 07-20-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I07-044-106

Page 1 of 1

Collector L.D. WALL	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. I07-044	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 2ZP1-LOI MAY 2007	HNF-N-506 8	Ice Chest No. SUL 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.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N346		W	6-5-07	1115	1x20-mL P	Activity Scan	None
B1N346		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1N346		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

J0F74

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
L.D. WALL		L.D. Wall	JUN 05 2007 1515		S. Smith	S. Smith	JUN 05 2007 1515
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

PNNL J7F070107
W05182
Due 07 30 07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I07-044-66

Page 1 of 1

Collector L.D. WALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I07-044	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2ZP1-LOI, MAY 2007	HNF-N-506 8	**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 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.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N321		W	6-5-07	0910	1x20-mL P	Activity Scan	None
B1N321		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1N321		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1N321		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						JCF75	

Relinquished By	Received By
Print: L.D. WALL Sign: L.D. Wall Date/Time: JUN 05 2007 15:15	Print: S. Smith Sign: S. Smith Date/Time: JUN 05 2007 15:15
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

62

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 06 05 07 1515

Client: PGW SDG #: W05182 NA [ ] SAF #: I07-044 NA [ ]

Work Order Number: J7F070107 Chain of Custody # I07-044-66-106

Shipping Container ID: _____ Air Bill # _____

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

Sample Custodian: L. Smith Date: 06 05 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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

JTF070109 WC5182 Due 07-26-07

C.O.C. # **S07-006-108**

Page 1 of 1

Collector L.D. WALL	**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	**Ice Chest No.** SNK 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
B1NKN4		W	6-6-07	0901	1x20-mL P	Activity Scan	None
B1NKN4		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1NKN4		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JOF8T	

Relinquished By L.D. WALL Print L.D. Wall Sign Date/Time 12:55PM JUN 06 2007	Received By Print LINDSEY ANDERSON Sign Date/Time 12:55PM JUN 06 2007		Matrix *
Relinquished By Date/Time	Received By Date/Time		S = Soil, SE = Sediment, SO = Solid, SL = Sludge, W = Water, O = Oil, A = Air, DS = Drum Solid, DL = Drum Liquid, T = Tissue, WI = Wipe, L = Liquid, V = Vegetation, X = Other
Relinquished By Date/Time	Received By Date/Time		
Relinquished By Date/Time	Received By Date/Time		

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

SIT RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J7F070109 W05182 Due 07-20-07	C.O.C. # S07-006-84 Page 1 of 1

Collector: L.D. WALL	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 B	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
B1NKL8		W	6-6-07	0953	1x20-mL P	Activity Scan	None
B1NKL8		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1NKL8		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						J0F8X	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
L.D. WALL	L.D. Wall		12:55pm JUN 06 2007	S. Smith	LINDSEY ANDERSON	S. Smith	12:55pm JUN 06 2007

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

JTF070109 W05182 due 07-26-07

C.O.C. # **S07-006-90**

Page 1 of 1

Collector: L.D. WALL	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 B	Ice Chest No.: SM L 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
B1NKM2		W	6-6-07	1113	1x20-mL P	Activity Scan	None
B1NKM2		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JCF81	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
L.D. WALL	L.D. Wall		JUN 06 2007 12:55PM	S. Smith	LINDSEY ANDERSON	S. Smith	JUN 06 2007 12:55PM
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

J7F070109 W05182 Due 07-20-07

C.O.C. # **S07-006-78**

Page 1 of 1

Collector L.D. WALL	**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	**Ice Chest No.** SVML 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
B1NKL4		W	6-4-07	1205	1x20-mL P	Activity Scan	None
B1NKL4		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1NKL4		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						J0F82	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
L.D. WALL	L.D. Wall		JUN 06 2007 12:55pm	S. Smith	LINDSEY ANDERSON	S. Smith	JUN 06 2007 12:55pm
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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 6/6/07 12:55PM

Client: PGW SDG #: W05182 NA [ ] SAF #: 807-006 NA [ ]

Work Order Number: J7F070109 Chain of Custody # 807006-108, 84, 90, 78

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: 06 06 07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date 6/6/07

LS-023, 9/03, Rev. 5

STL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

JTF070113 W05182 Due 07-20-07

C.O.C. # **S07-006-120**

Page 1 of 1

Collector	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. S07-006 RT SICKLE 6-6-07	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JUNE 2007	HAVI=N-526-9	**Ice Chest No.** SML-595 **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
B1NKP2		W	6-6-07	1348	1x20-mL P	Activity Scan	None
B1NKP2		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

JOF95

Relinquished By SICKLE Print Sign	Date/Time 1412 JUN 06 2007	Received By S Smith Print LINDSEY ANDERSON Sign	Date/Time 1412 JUN 06 2007
Relinquished By RT SICKLE 6-6-07 PM	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

SIL RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST JTF070113 WC5782 Due 07-20-07	C.O.C. # S07-006-132 Page 1 of 1

Collector: Rt Sickle	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-5069	Ice Chest No.: SML-595 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
B1NKR0		W	6-6-07	1230	1x20-mL P	Activity Scan	None
B1NKR0		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1NKR0		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JOEAA	

Relinquished By	Date/Time	Received By	Date/Time
Print: Rt Sickler Sign:	1412 JUN 06 2007	Print: Lindsey Anderson Sign:	1412 JUN 06 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 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

70

STL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7F070113 W05782 Due 07-30-07

C.O.C. # **S07-006-138**

Page 1 of 1

Collector RtSickle	**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-576-9	**Ice Chest No.** SML595 **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
B1NKR4		W	6-6-07	1109	1x20-mL P	Activity Scan	None
B1NKR4		W	↓	↓	1x250-mL G	906.0_H3_LSC: Tritium (1)	None
B1NKR4		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JOGAG	

Relinquished By	Received By
RtSickle ~~Print~~ Sign Date/Time 1412 JUN 06 2007	S. Smith Print LINDSEY ANDERSON Sign S. Smith Date/Time 1412 JUN 06 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 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

J7F070113 W05182 Due 07-20-07

C.O.C. # S07-006-144

Page 1 of 1

Collector: RB Sickle	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	MNF-N-506-9	Ice Chest No.: SML-595 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
B1NKR8		W	6-6-07	0928	1x20-mL P	Activity Scan	None
B1NKR8		W			1x250-mL G	906.0_H3_LSC: Tritium (1)	None
B1NKR8		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JGAH	

Relinquished By	Date/Time	Received By	Date/Time
Print: RB Sickle Sign:	1412 JUN 06 2007	Print: S. Smith Sign: S. Smith	1412 JUN 06 2007
Relinquished By	Date/Time	Received By: LINDSEY ANDERSON	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	C.O.C. # S07-006-126
	JTF070113 W05182 Due 07-20-07	Page 1 of 1

Collector: Rt Sickle	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-506-9	Ice Chest No.: SML-595 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
B1NKP6		W	6-6-07	1307	1x20-mL P	Activity Scan	None
B1NKP6		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1NKP6		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

JOGAN

Relinquished By	Received By
Print: Rt Sickle Sign: Date/Time: 1412 JUN 06 2007	Print: S. Smith / LINDSEY ANDERSON Sign: J. Smith Date/Time: 1412 JUN 06 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

3

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 6/6/07 2:25PM

Client: PGW SDG #: W05182 NA [ ] SAF #: 507-006 NA [ ]

Work Order Number: J7F070113 Chain of Custody # 507-006-100, 132, 138, 144, 126

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: 5
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: 06-06-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date 6/6/07

LS-023, 9/03, Rev. 5

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7F070117 W05182 due 07-20-07

C.O.C. # S07-005-25

Page 1 of 1

Collector	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, MAY 2007	HMF-N-506-7	**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.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N3T8		W	6/6/7	0800	1x20-mL P	Activity Scan	None
B1N3T8		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

JOGAW

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F.M. HALL		JUN 0 6 2007	14:33	F.M. HALL	S. Smith	JUN 0 6 2007	14:32
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

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

JTF070117 W05182 Due 07-20-07

C.O.C. # S07-005-24

Page 1 of 1

Collector: Fluor Hanford F. M. HALL	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: S07-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, MAY 2007	HMF-M-506-7	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.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N3T7		W	6/6/7	1100	1x20-mL P	Activity Scan	None
B1N3T7		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

JOGA1

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F. M. HALL		JUN 0 6 2007	14:33		S. Smith	JUN 0 6 2007	1433

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

SITE RECEIVED

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PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

JTF070117 WO5182 Due 07-20-07

C.O.C. # S07-005-30

Page 1 of 1

Collector: Fluor Hanford F.M. HALL	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: S07-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, MAY 2007	HNF-M-506-7	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.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N3V5		W	6/6/7	1202	1x20-mL P	Activity Scan	None
B1N3V5		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

JOGA2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F.M. HALL		JUN 06 2007	14:33		S. Smith	JUN 06 2007	1433
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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 06-06-07 1433

Client: PGW SDG #: WC5182 NA [ ] SAF #: 507005 NA [ ]

Work Order Number: J7F070117 Chain of Custody # 507005-25, 24, 30

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: S. Smith Date: 06-06-07

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

PNNL J7F110180
WO 5182

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Due 07.23.07

C.O.C. # S07-005-92

Page 1 of 1

Collector: The Hanford Co. R.E. BRENNINGTON	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: S07-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, MAY 2007	HNF-N-506 B	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 ☐
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.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N3M2		W	6-8-07	0934	1x20-mL P	Activity Scan	None
B1N3M2		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						JOP8M	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford Inc. Environmental Restoration	D.R. Bailey		JUN 0 8 2007 1506	~~Fed Ex~~	Linda Anderson		JUN 0 8 2007 1506
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

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

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PNNL J7F110180 W05182 Due 07 23 07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-005-93

Page 1 of 1

Collector	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: S07-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, MAY 2007	HVF-N-506 8	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 ☐
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.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N3M3		W	6-8-07	0952	1x20-mL P	Activity Scan	None
B1N3M3		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

JOP8T

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford			JUN 08 2007 1506	LINDSEY ANDERSON			JUN 08 2007 1506
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

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

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PNNL J7F110180
W05182
Due 07-23-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-005-156**

Page 1 of 1

Collector Pacific Northwest National Laboratory, Richland, Washington	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, MAY 2007	HNF-N-506 8	**Ice Chest No.** SUNL 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.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N3K7		W	6-8-07	1321	1x20-mL P	Activity Scan	None
B1N3K7		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1N3K7		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1N3K7		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
						JOP80	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Pacific Northwest National Laboratory, Richland, Washington	D.R. Brunz		JUN 08 2007	LINDSEY ANDERSON			JUN 08 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 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: 6/8/07 3:00pm

Client: PNNL SDG #: W05182 NA [ ] SAF #: 807-005 NA [ ]

Work Order Number: J7F110180 Chain of Custody # 807-005-92, 93, 156

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: 06/08/07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date 6/8/07

LS-023, 9/03, Rev. 5

PNNL J7F110184
W05782
Due 07-23-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I07-043-38

Page 1 of 1

CFluorHanford F.M. HALL	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. I07-043	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 2UP1-LOL MAY 2007	HNF-M-506-7	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.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N2P2		W	6/8/7	1344	1x20-mL P	Activity Scan	None
B1N2P2		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						J0P85	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
CFluorHanford F. M. HALL		JUN 08 2007	1506	LINDSEY ANDERSON		JUN 08 2007	1506
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

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SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 6/8/07 3:00PM

Client: PNNL SDG #: W05782 NA [ ] SAF #: 107-043 NA [ ]

Work Order Number: J7F110184 Chain of Custody # 107-043-38

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 1X500ML 2X4000ML
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: 06-08-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date 6/8/07

LS-023, 9/03, Rev 5

PNNL J7F110185
W05182
Due 07-23-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-005-130**

Page 1 of 1

Collector: Fluor Hanford F. M. HALL	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: S07-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, MAY 2007	HNF-N-506-7	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.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N3P2		W	6/8/7	1231	1x20-mL P	Activity Scan	None
B1N3P2		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						JOP89	

Relinquished By	Date/Time	Received By	Date/Time
Print: Fluor Hanford F. M. HALL Sign: JUN 08 2007	1516	Print: LINDSEY ANDERSON Sign: JUN 08 2007	1516
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

09

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 6/8/07 3:00pm

Client: PNNL SDG #: W05182 NA [ ] SAF #: 807-005 NA [ ]

Work Order Number: J7F110185 Chain of Custody # 807-005-130

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 1 X 20 mL 2 X 4000 mL
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   _____tape _____hazard labels
   _____custody seals ✓ appropriate samples labels
9. Samples are:
   ✓ in good condition _____leaking
   _____broken _____have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: S. Smith Date: 06-08-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date 6/8/07

LS-023, 9/03, Rev. 5

STL RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST JJF130132 W05182 Due 07-27-07	C.O.C. # A07-006-1 Page 1 of 1

Collector	**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	HWF-N-506 9	**Ice Chest No.** SMIC 595 **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
B1NHX0		W	6-12-07	1226	1x20-mL P	Activity Scan	None
B1NHX0		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1NHX0		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JOV2L	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	RF Carrigan		JUN 12 2007 1510		LINDSEY TOWDERSON		JUN 12 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

8/

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 6/12/07 3:10 PM

Client: PNNL SDG #: W05182 NA [ ] SAF #: A07-006 NA [ ]

Work Order Number: J7F130132 Chain of Custody # A07-006-1

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: 06-12-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date 6/12/07

LS-023, 9/03, Rev. 5

STL RICHLAND

7/19/2007 12:43:24 PM

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 07/27/2007 WO5182

Batch: 7165522 **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:11

Pipet #: _____

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 J0F8T-1-AA J7F070109-1-SAMP 06/06/2007 09:01		186.30g,in AmtRec: 20ML,500ML,LP #Containers: 3		1.5	50.6	50	10A	1538 Scr: Alpha: 2.31E-04 uCi/Sa	7/27/07 CR	Beta: -3.25E-05 uCi/Sa
2 J0F8X-1-AA J7F070109-2-SAMP 06/06/2007 09:53		199.10g,in AmtRec: 20ML,500ML,LP #Containers: 3			31.0		10B	1538 Scr: Alpha: 5.14E-05 uCi/Sa		Beta: 2.75E-04 uCi/Sa
3 J0F82-1-AA J7F070109-4-SAMP 06/06/2007 12:05		199.70g,in AmtRec: 20ML,500ML,LP #Containers: 3			25.9		10C	1538 Scr: Alpha: 2.94E-04 uCi/Sa		Beta: -3.23E-05 uCi/Sa
4 J0GAA-1-AA J7F070113-2-SAMP 06/06/2007 12:30		184.50g,in AmtRec: 20ML,500MLP,LP #Containers: 3			46.7		10D	1538 Scr: Alpha: 2.72E-05 uCi/Sa		Beta: 6.64E-04 uCi/Sa
5 J0GAN-1-AA J7F070113-5-SAMP 06/06/2007 13:07		180.90g,in AmtRec: 20ML,500MLP,LP #Containers: 3			43.7		10F	1538 Scr: Alpha: -5.66E-05 uCi/Sa		Beta: 3.23E-04 uCi/Sa
6 J0GAN-1-AE-X J7F070113-5-DUP 06/06/2007 13:07		177.40g,in AmtRec: 20ML,500MLP,LP #Containers: 3			45.9		10B	1651 ~~1605~~ 7/27/07 CR Scr: Alpha: -5.66E-05 uCi/Sa	7/27/07 CR	Beta: 3.23E-04 uCi/Sa
7 J029R-1-AA-B J7F140000-522-BLK 06/06/2007 13:07		201.80g,in AmtRec: #Containers: 1			0.9		10C	1651 Scr: Alpha:		Beta:

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

7/19/2007 12:43:25 PM

Sample Preparation/Analysis

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

Balance Id:11
Pipet #: _____
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,BockJ

AnalyDueDate: 07/27/2007

Batch: 7165522 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:
8 J029R-1-AC-C J7F140000-522-LCS 06/06/2007 13:07		200.60g,in	ASD4228 06/11/07,pd 06/01/01,r	1.5	1.9	50	ICA	1651	7/27/07 MC	

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

Comments: J0F8T-SAMP "Comments. Aliquot reduced due to weight screen. JB 7/19/07"

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

J0F8T1AA-SAMP Constituent List:

ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
J029R1AA-BLK:					
ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
J029R1AC-LCS:					
Am-241	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

J0F8T1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J029R1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J029R1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

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7/30/2007 10:01:55 AM

ICOC Fraction Transfer/Status Report

ByDate: 7/30/2006, 8/4/2007, Batch: '7165522', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7165522						
AC		Rev1C	BockJ	7/19/2007 12:36:54		
SC			wagarr	IsBatched	6/14/2007 4:42:18 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	7/19/2007 12:36:54 PM	RICH-RC-5015 Revision 6
SC			BockJ	Prep1C	7/19/2007 12:43:28 PM	RICH-RC-5014 REVISION 7
SC			AshworthA	InPrep2	7/26/2007 1:39:23 PM	RICH-RC-5014 REVISION 7
SC			AshworthA	Prep2C	7/27/2007 12:32:14 PM	RICH-RC-5014 REVISION 7
SC			DAWKINSO	CalcC	7/27/2007 5:24:53 PM	RICH-RD-0003 REVISION 5
SC			NortonJ	Rev1C	7/30/2007 9:54:26 AM	RICHRC0002 REV7
AC			BockJ	7/19/2007 12:43:28		
AC			AshworthA	7/26/2007 1:39:23 PM		
AC			AshworthA	7/27/2007 12:32:14		
AC			DAWKINSO	7/27/2007 5:24:53 PM		
AC			NortonJ	7/30/2007 9:54:26		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.27

STL RICHLAND

7/19/2007 12:33:03 PM

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 07/27/2007 W05182

Batch: 7165524 **WATER** **pCi/L**
SEQ Batch, Test: None

Sample Preparation/Analysis

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

PM, Quote: SA , 57671

Balance Id:1120482733
Pipet #: 246
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 J0F8T-1-AC J7F070109-1-SAMP 06/06/2007 09:01		199.10g,in AmtRec: 20ML,500ML,LP #Containers: 3		1.5	105.4	100	~~26b~~ 28b Scr: Alpha: 2.31E-04 uCi/Sa	1540	7/27/07 R	Beta: -3.25E-05 uCi/Sa
2 J0F8X-1-AC J7F070109-2-SAMP 06/06/2007 09:53		200.30g,in AmtRec: 20ML,500ML,LP #Containers: 3			62.5		28c Scr: Alpha: 5.14E-05 uCi/Sa			Beta: 2.75E-04 uCi/Sa
3 J0F82-1-AC J7F070109-4-SAMP 06/06/2007 12:05		200.40g,in AmtRec: 20ML,500ML,LP #Containers: 3			53.0		28d Scr: Alpha: 2.94E-04 uCi/Sa			Beta: -3.23E-05 uCi/Sa
4 J0F82-1-AE-X J7F070109-4-DUP 06/06/2007 12:05		200.00g,in AmtRec: 20ML,500ML,LP #Containers: 3			55.7		26a Scr: Alpha: 2.94E-04 uCi/Sa	1600	7/27/07 r	Beta: -3.23E-05 uCi/Sa
5 J0GAA-1-AC J7F070113-2-SAMP 06/06/2007 12:30		199.50g,in AmtRec: 20ML,500MLP,LP #Containers: 3			79.8		26b Scr: Alpha: 2.72E-05 uCi/Sa			Beta: 6.64E-04 uCi/Sa
6 J0GAN-1-AC J7F070113-5-SAMP 06/06/2007 13:07		198.60g,in AmtRec: 20ML,500MLP,LP #Containers: 3			95.6		26c Scr: Alpha: -5.66E-05 uCi/Sa			Beta: 3.23E-04 uCi/Sa
7 J029V-1-AA-B J7F140000-524-BLK 06/06/2007 12:05		202.00g,in AmtRec: #Containers: 1			0.4		26d Scr: Alpha:			Beta:

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STL RICHLAND

7/19/2007 12:33:04 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 #: _____
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,BockJ

AnalyDueDate: 07/27/2007

Batch: 7165524 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:
8 J029V-1-AC-C J7F140000-524-LCS 06/06/2007 12:05		199.30g,in	BESB3084 06/13/07,pd 08/08/06,r	1.5	1.7	100	27a	1600	7/27/07	

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

Comments: pH <2.0 JB 7-19-07

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

J0F8T1AC-SAMP Constituent List:

BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
J029V1AA-BLK:					
BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
J029V1AC-LCS:					
Sr-90	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

J0F8T1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J029V1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J029V1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

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7/30/2007 10:07:33 AM

ICOC Fraction Transfer/Status Report

ByDate: 7/30/2006, 8/4/2007, Batch: '7165524', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7165524						
AC		**CalcC**	**BockJ**	7/19/2007 12:27:07		
SC			wagarr	IsBatched	6/14/2007 4:42:18 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	7/19/2007 12:27:07 PM	RICH-RC-5015 Revision 6
SC			BockJ	Prep1C	7/19/2007 12:33:08 PM	RICH-RC-5014 REVISION 7
SC			AshworthA	InPrep2	7/26/2007 1:39:19 PM	RICH-RC-5014 REVISION 7
SC			AshworthA	Prep2C	7/27/2007 12:32:35 PM	RICH-RC-5014 REVISION 7
SC			StringerR	InCnt1	7/27/2007 12:40:10 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	7/27/2007 4:40:48 PM	RICH-RD-0003 REVISION 5
AC			**BockJ**	7/19/2007 12:33:08		
AC			**AshworthA**	7/26/2007 1:39:19 PM		
AC			**AshworthA**	7/27/2007 12:32:35		
AC			**StringerR**	7/27/2007 12:40:10		
AC			**DAWKINSO**	7/27/2007 4:40:48 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.27

7/24/2007 5:41:35 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 07/27/2007

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 #: _____

Sep1 DT/Tm Tech: 07/17/2007 16:43,ManisD

Sep2 DT/Tm Tech: 07/24/2007 10:08,ManisD

Prep Tech: ManisD

Batch: 7165521 **WATER** **pCi/L** **PM, Quote: SA , 57671**
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J0F75-1-AC J7F070107-2-SAMP		998.00g,in	SRTB14975 06/20/07,pd 05/22/07,r	0.894 1.806 2.0185	1.5	25 ~~07/17/2007 16:43,s1, 07/24/2007~~	100	6A 6A	0643 0854	7/26/03 7/26/03	
06/05/2007 09:10		AmtRec: 20ML,500ML,3XLP,2X4LP	#Containers: 7					Scr:	Alpha: 2.66E-03 uCi/Sa	Beta: -1.25E-03 uCi/Sa	
2 J0F75-1-AE-X J7F070107-2-DUP		1001.80g,in	SRTB14976 06/20/07,pd 05/22/07,r	0.848 1.762 2.0175	1.5	26.3 ~~07/17/2007 16:43,s1, 07/24/2007~~	100	6B 6B	0643 0854	7/26/03 7/26/03	
06/05/2007 09:10		AmtRec: 20ML,500ML,3XLP,2X4LP	#Containers: 7					Scr:	Alpha: 2.66E-03 uCi/Sa	Beta: -1.25E-03 uCi/Sa	
3 J029N-1-AA-B J7F140000-521-BLK		1001.80g,in	SRTB14977 06/20/07,pd 05/22/07,r	0.847 1.709 2.0185	1.5	23.8 ~~07/17/2007 16:43,s1, 07/24/2007~~	100	6C 6C	0643 0854	7/26/03 7/26/03	
06/05/2007 09:10		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:	
4 J029N-1-AC-C J7F140000-521-LCS		999.50g,in	SRSG1354 05/24/07,pd 09/11/06,r	0.848 1.694 1.9982	1.5	23.9 ~~07/17/2007 16:43,s1, 07/24/2007~~	100	6D 6D	0643 0854	7/26/03 7/26/03	
06/05/2007 09:10		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:	

STL RICHLAND

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7/24/2007 5:41:36 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: 07/27/2007

Sep1 DT/Tm Tech: 07/17/2007 16:43,ManisD

Batch: 7165521 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech: 07/24/2007 10:08,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:

Comments:

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

J0F751AC-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

J029N1AA-BLK:

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

J029N1AC-LCS:

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

J0F751AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

J029N1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

J029N1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

7/26/2007 1:34:20 PM

ICOC Fraction Transfer/Status Report

ByDate: 7/26/2006, 7/31/2007, Batch: '7165521', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7165521						
AC		CalcC	BockJ	7/13/2007 11:30:30		
SC			wagarr	IsBatched	6/14/2007 4:42:18 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	7/13/2007 11:30:30 AM	RICH-RC-5017 Revision 6
SC			BockJ	Prep1C	7/13/2007 11:36:13 AM	RICH-RC-5016 REVISION 7
SC			ManisD	InSep1	7/13/2007 11:48:40 AM	RICH-RC-5006 REVISION 7
SC			ManisD	Sep1C	7/17/2007 5:06:26 PM	RICH-RC-5006 REVISION 7
SC			DAWKINSO	InCnt1	7/17/2007 5:10:59 PM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	Cnt1C	7/17/2007 7:43:42 PM	RICH-RD-0007 REVISION 6
SC			ManisD	Sep2C	7/24/2007 5:50:37 PM	RICH-RC-5071 REVISION 5
SC			DAWKINSO	InCnt2	7/24/2007 7:03:29 PM	RICH-RD-0003 REVISION 5
SC			BlackCL	CalcC	7/26/2007 9:41:34 AM	RICH-RD-0003 REVISION 5
AC			BockJ	7/13/2007 11:36:13		
AC			ManisD	7/13/2007 11:48:40		
AC			ManisD	7/17/2007 5:06:26 PM		
AC			DAWKINSO	7/17/2007 5:10:59 PM		
AC			DAWKINSO	7/17/2007 7:43:42 PM		
AC			ManisD	7/24/2007 5:50:37 PM		
AC			DAWKINSO	7/24/2007 7:03:29 PM		
AC			BlackCL	7/26/2007 9:41:34		
AC			BlackCL	7/26/2007 9:44:07		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 10

ICOCFractions v4.8.27

STL RICHLAND

7/13/2007 1:04:28 PM

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: 07/27/2007 W05182

Batch: 7165520 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

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

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 J0P80-1-AA J7F110180-3-SAMP 06/08/2007 13:21		1971.00g,in AmtRec: 20ML,2X500MLP,4LP #Containers: 4			100 ml	100	64	0750 Scr: Alpha: 5.71E-07 uCi/Sa		Beta: -7.18E-07 uCi/Sa
2 J0P80-1-AE-X J7F110180-3-DUP 06/08/2007 13:21		1980.60g,in AmtRec: 20ML,2X500MLP,4LP #Containers: 4					65	0754 Scr: Alpha: 5.71E-07 uCi/Sa		Beta: -7.18E-07 uCi/Sa
3 J029M-1-AA-B J7F140000-520-BLK 06/08/2007 13:21		1997.70g,in AmtRec: #Containers: 1					610	0751 Scr: Alpha:		Beta:
4 J029M-1-AC-C J7F140000-520-LCS 06/08/2007 13:21		1996.80g,in AmtRec: #Containers: 1	QCAG1379 06/25/07,pd 03/29/04,r				67	0757 Scr: Alpha:		Beta:

Comments: PH<2.0 gs 7-13-07

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

J0P801AA-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:

J029M1AA-BLK:

Co-60	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:

98

7/13/2007 1:04:30 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 07/27/2007

Sep1 DT/Tm Tech:

Batch: 7165520 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:

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:

J029M1AC-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						

J0P801AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

J029M1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

J029M1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

7/24/2007 2:40:58 PM

ICOC Fraction Transfer/Status Report

ByDate: 7/24/2006, 7/29/2007, Batch: '7165520', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7165520						
AC		CalcC	BockJ	7/13/2007 12:54:57		
SC			wagarr	IsBatched	6/14/2007 4:42:18 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	7/13/2007 12:54:57 PM	RICH-RC-5017 Revision 6
SC			BockJ	Prep1C	7/13/2007 1:04:36 PM	RICH-RC-5017 REVISION 6
SC			AshworthA	InPrep2	7/17/2007 2:17:51 PM	RICH-RC-5017 REVISION 6
SC			AshworthA	Prep2C	7/19/2007 10:16:17 AM	RICH-RC-5017 REVISION 6
SC			StringerR	InCnt1	7/19/2007 11:28:44 AM	RICH-RD-0007 REVISION 6
SC			StringerR	CalcC	7/20/2007 9:22:28 AM	RICH-RD-0007 REVISION 6
AC			BockJ	7/13/2007 1:04:36 PM		
AC			AshworthA	7/17/2007 2:17:51 PM		
AC			AshworthA	7/19/2007 10:16:17		
AC			StringerR	7/19/2007 11:28:44		
AC			StringerR	7/20/2007 9:22:28		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.27

STL RICHLAND

7/24/2007 7:18:37 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: _____

AnalyDueDate: 07/27/2007 W05182

Batch: 7165518 **WATER** **pCi/L** **PM, Quote: SA , 57671**
SEQ Batch, Test: None All Tests: 7165500 FPS5, 7165518 BNTB, 7165521 CLTL,

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:
1 J0F74-1-AA J7F070107-1-SAMP 06/05/2007 11:15		3950.10g,in AmtRec: 20ML,500ML,2X4LP	ITA6463 06/18/07 #Containers: 4	IFA	33.7 mg	100	L2 Scr:	1207 Alpha: -9.11E-04 uCi/Sa	7/27/07 R Beta: 2.39E-03 uCi/Sa	
2 J0F75-1-AA J7F070107-2-SAMP 06/05/2007 09:10		3937.30g,in AmtRec: 20ML,500ML,3XLP,2X4LP	ITA6464 06/18/07 #Containers: 7		33.3		L4 Scr:	1210 Alpha: 2.66E-03 uCi/Sa	7/27/07 R Beta: -1.25E-03 uCi/Sa	
3 J0P8M-1-AA J7F110180-1-SAMP 06/08/2007 09:56		3904.10g,in AmtRec: 20ML,2X4LP	ITA6465 06/18/07 #Containers: 3		33.4		L5 Scr:	1211 Alpha: -3.51E-04 uCi/Sa	7/27/07 R Beta: 1.09E-03 uCi/Sa	
4 J0P8T-1-AA J7F110180-2-SAMP 06/08/2007 09:56		3899.70g,in AmtRec: 20ML,2X4LP	ITA6466 06/18/07 #Containers: 3		33.7		L2 Scr:	1354 Alpha: 6.74E-04 uCi/Sa	7/27/07 R Beta: -6.31E-04 uCi/Sa	
5 J0P85-1-AA J7F110184-1-SAMP 06/08/2007 13:44		3965.90g,in AmtRec: 20ML,2X4LP	ITA6467 06/18/07 #Containers: 3		35.0		L4 Scr:	1357 Alpha: 1.64E-03 uCi/Sa	7/27/07 R Beta: -9.76E-04 uCi/Sa	
6 J0P85-1-AC-X J7F110184-1-DUP 06/08/2007 13:44		3949.80g,in AmtRec: 20ML,2X4LP	ITA6468 06/18/07 #Containers: 3		33.8		L5 Scr:	1358 Alpha: 1.64E-03 uCi/Sa	7/27/07 R Beta: -9.76E-04 uCi/Sa	
7 J0P89-1-AA J7F110185-1-SAMP 06/08/2007 12:31		3961.40g,in AmtRec: 20ML,2X4LP	ITA6469 06/18/07 #Containers: 3		33.1		L2 Scr:	1541 Alpha: 2.96E-04 uCi/Sa	7/27/07 R Beta: -8.07E-04 uCi/Sa	

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STL RICHLAND

7/24/2007 7:18:39 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: _____

AnalyDueDate: 07/27/2007

Sep1 DT/Tm Tech:

Batch: 7165518 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	Ppl or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 J0V2L-1-AA J7F130132-1-SAMP 06/12/2007 12:26		3853.50g,in AmtRec: 20ML,500ML,2X4LP	ITA6470 06/18/07 #Containers: 4	IFA	34.3	100	L4	1541 Scr:	7/27/07 [illegible] Alpha: -1.88E-03 uCi/Sa	Beta: 2.36E-03 uCi/Sa
9 J029F-1-AA-B J7F140000-518-BLK 06/08/2007 13:44		3950.50g,in AmtRec:	ITA6471 06/18/07 #Containers: 1		32.2		L5	1544 Scr:	7/27/07 [illegible] Alpha:	Beta:
10 J029F-1-AC-C J7F140000-518-LCS 06/08/2007 13:44		3950.50g,in AmtRec:	ISD0760 06/14/07 #Containers: 1		35.0		L2	1736 Scr:	7/27/07 [illegible] Alpha:	Beta:

Comments: PH - neutral JB 7-24-07

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

J0F741AA-SAMP Constituent List:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:
J029F1AA-BLK:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:
J029F1AC-LCS:
I-129 RDL:5 pCi/L LCL:70 UCL:130 RPD:20

J0F741AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J029F1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J029F1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

STL RICHLAND

7/24/2007 7:18:40 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 07/27/2007

Sep1 DT/Tm Tech:

Batch: 7165518 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:

Approved By _____ Date: _____

7/30/2007 12:26:12 PM

ICOC Fraction Transfer/Status Report

ByDate: 7/30/2006, 8/4/2007, Batch: '7165518', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7165518						
AC		CalcC	BockJ	7/24/2007 6:52:40		
SC			wagarr	IsBatched	6/14/2007 4:42:18 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	7/24/2007 6:52:40 AM	RICH-RC-5016 Revision 7
SC			BockJ	Prep1C	7/24/2007 7:18:40 AM	RICH-RC-5017 REVISION 6
SC			NortonJ	InSep1	7/25/2007 9:47:40 AM	RICHRC5025 REV4
SC			StringerR	InCnt1	7/27/2007 10:28:53 AM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	CalcC	7/27/2007 9:11:31 PM	RICH-RD-0007 REVISION 6
AC			BockJ	7/24/2007 7:18:40		
AC			BockJ	7/24/2007 7:18:47		
AC			NortonJ	7/25/2007 9:47:40		
AC			StringerR	7/27/2007 10:28:53		
AC			DAWKINSO	7/27/2007 9:11:31 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 6

ICOCFractions v4.8.27

STL RICHLAND

7/13/2007 9:41:23 AM

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 07/27/2007 WD5182

Batch: 7165500 WATER pCi/L
SEQ Batch, Test: None

Sample Preparation/Analysis

FP Tc-99 Prp/SepRC5065
S5 Technetium-99 by Liquid Scint
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 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 J0F74-1-AC J7F070107-1-SAMP 06/05/2007 11:15			125.20g,in	125.20g		60				
	AmtRec: 20ML,500ML,2X4LP		#Containers: 4					Scr:	Alpha: -9.11E-04 uCi/Sa	Beta: 2.39E-03 uCi/Sa
2 J0F75-1-AD J7F070107-2-SAMP 06/05/2007 09:10			125.00g,in	125.00g						
	AmtRec: 20ML,500ML,3XLP,2X4LP		#Containers: 7					Scr:	Alpha: 2.66E-03 uCi/Sa	Beta: -1.25E-03 uCi/Sa
3 J0GAW-1-AA J7F070117-1-SAMP 06/06/2007 08:00			125.60g,in	125.60g						
	AmtRec: 20ML,500MLP		#Containers: 2					Scr:	Alpha: -2.66E-06 uCi/Sa	Beta: 5.37E-06 uCi/Sa
4 J0GAW-1-AC-X J7F070117-1-DUP 06/06/2007 08:00			126.70g,in	126.70g						
	AmtRec: 20ML,500MLP		#Containers: 2					Scr:	Alpha: -2.66E-06 uCi/Sa	Beta: 5.37E-06 uCi/Sa
5 J0GA1-1-AA J7F070117-2-SAMP 06/06/2007 11:00			125.20g,in	125.20g						
	AmtRec: 20ML,500MLP		#Containers: 2					Scr:	Alpha: 4.09E-05 uCi/Sa	Beta: 1.07E-05 uCi/Sa
6 J0GA1-1-AC-S J7F070117-2-MS 06/06/2007 11:00			126.40g,in	126.40g	TCSG1839 06/14/07,pd 01/10/06,r					
	AmtRec: 20ML,500MLP		#Containers: 2					Scr:	Alpha: 4.09E-05 uCi/Sa	Beta: 1.07E-05 uCi/Sa
7 J0GA2-1-AA J7F070117-3-SAMP 06/06/2007 12:02			125.10g,in	125.10g						
	AmtRec: 20ML,500MLP		#Containers: 2					Scr:	Alpha: 4.70E-05 uCi/Sa	Beta: 1.62E-05 uCi/Sa

STL RICHLAND

7/13/2007 9:41:26 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 07/27/2007

Sep1 DT/Tm Tech:

Batch: 7165500 WATER pCi/L PM, Quote: SA , 57671

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:
8 J0P80-1-AC J7F110180-3-SAMP 06/08/2007 13:21			125.80g,in	125.80g		60				
	AmtRec: 20ML,2X500MLP,4LP		#Containers: 4					Scr:	Alpha: 5.71E-07 uCi/Sa	Beta: -7.18E-07 uCi/Sa
9 J0V2L-1-AC J7F130132-1-SAMP 06/12/2007 12:26			125.90g,in	125.90g						
	AmtRec: 20ML,500ML,2X4LP		#Containers: 4					Scr:	Alpha: -1.88E-03 uCi/Sa	Beta: 2.36E-03 uCi/Sa
10 J027Q-1-AA-B J7F140000-500-BLK 06/06/2007 08:00			125.20g,in	125.20g						
	AmtRec:		#Containers: 1					Scr:	Alpha:	Beta:
11 J027Q-1-AC-C J7F140000-500-LCS 06/06/2007 08:00			127.10g,in	127.10g	TCSE2131 06/14/07,pd 01/10/06,r					
	AmtRec:		#Containers: 1					Scr:	Alpha:	Beta:
12 J027Q-1-AD-BN J7F140000-500-IBLK 06/06/2007 08:00										
	AmtRec:		#Containers: 1					Scr:	Alpha:	Beta:
13 J027Q-1-AE-BN J7F140000-500-IBLK 06/06/2007 08:00										
	AmtRec:		#Containers: 1					Scr:	Alpha:	Beta:

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STL RICHLAND

7/13/2007 9:41:27 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 07/27/2007

Batch: 7165500 pCi/L
SEQ Batch, Test: None

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

Comments: pH < 2.0 JB 7-13-07

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

J0F741AC-SAMP Constituent List:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
J0GA11AC-MS:

J027Q1AA-BLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
J027Q1AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
J027Q1AD-IBLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
J027Q1AE-IBLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:

J0F741AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J0GA11AC-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J027Q1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J027Q1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J027Q1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J027Q1AE-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

7/27/2007 4:02:03 PM

ICOC Fraction Transfer/Status Report

ByDate: 7/27/2006, 8/1/2007, Batch: '7165500', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7165500						
AC		**CalcC**	**BockJ**	7/13/2007 9:32:13		
SC			wagarr	IsBatched	6/14/2007 4:42:18 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	7/13/2007 9:32:13 AM	RICH-RC-5017 Revision 6
SC			BockJ	Prep1C	7/13/2007 9:41:30 AM	RICH-RC-5016 REVISION 7
SC			FABREM	Sep1C	7/25/2007 1:43:35 PM	RICH-RC-5065 REVISION 6
SC			StringerR	InCnt1	7/25/2007 1:47:34 PM	RICH-RD-0007 REVISION 6
SC			BlackCL	CalcC	7/27/2007 6:39:30 AM	RICH-RD-0001 REVISION 4
AC			**BockJ**	7/13/2007 9:41:30		
AC			**FABREM**	7/25/2007 1:43:35 PM		
AC			**StringerR**	7/25/2007 1:47:34 PM		
AC			**BlackCL**	7/27/2007 6:39:30		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt:5

ICOCFractions v4.8.27

STL RICHLAND

6/14/2007 4:38:58 PM

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 07/27/2007 WS182

Sample Preparation/Analysis

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

Batch: 7165526 **WATER** **pCi/L** **PM, Quote: SA , 57671**
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 6-21 07 Tm
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 J0GAG-1-AA J7F070113-3-SAMP 06/06/2007 11:09		AmtRec: 20ML,250MLP,500MLP	#Containers: 3			Scr:	Alpha: 1.14E-05 uCi/Sa	Beta: -3.62E-08 uCi/Sa
2 J0GAG-1-AD-X J7F070113-3-DUP 06/06/2007 11:09		AmtRec: 20ML,250MLP,500MLP	#Containers: 3			Scr:	Alpha: 1.14E-05 uCi/Sa	Beta: -3.62E-08 uCi/Sa
3 J0GAH-1-AA J7F070113-4-SAMP 06/06/2007 09:28		AmtRec: 20ML,250MLP,500MLP	#Containers: 3			Scr:	Alpha: -5.35E-05 uCi/Sa	Beta: 3.90E-04 uCi/Sa 1.7E-01L
4 J0291-1-AA-B J7F140000-526-BLK 06/06/2007 11:09		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
5 J0291-1-AC-C J7F140000-526-LCS 06/06/2007 11:09		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 J0291-1-AD-BX J7F140000-526-MBLK 06/06/2007 11:09		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
7 J0291-1-AE-CM J7F140000-526-MLCS 06/06/2007 11:09		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

T06

6/14/2007 4:39:00 PM

Sample Preparation/Analysis

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

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 6-21-07 am
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 07/27/2007

Batch: 7165526 pCi/L
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 J0291-1-AF-BN J7F140000-526-IBLK 06/06/2007 11:09	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
9 J0291-1-AG-BN J7F140000-526-IBLK 06/06/2007 11:09	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Comments:

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

J0GAG1AA-SAMP Constituent List:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
J02911AA-BLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
J02911AC-LCS:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
J02911AD-MBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
J02911AE-MLCS:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
J02911AF-IBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
J02911AG-IBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:

J0GAG1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J02911AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J02911AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

STL RICHLAND
110

Sample Preparation/Analysis

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

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 6-21-07 [illegible]
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 07/27/2007

Batch: 7165526 pCi/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:

J02911AD-MBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J02911AE-MLCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J02911AF-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J02911AG-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

STL RICHLAND

6/25/2007 2:19:04 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/25/2006, 6/30/2007, Batch: '7165526', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7165526						
AC		**CalcC**	**McDowellD**	6/21/2007 9:21:40		
SC			wagarr	IsBatched	6/14/2007 4:42:18 PM	ICOC_RADCALC v4.8.26
SC			McDowellD	InSep1	6/21/2007 9:21:40 AM	RICH-RC-5007 REVISION 6
SC			McDowellD	Sep1C	6/21/2007 3:01:01 PM	RICH-RC-5007 REVISION 6
SC			DAWKINSO	InCnt1	6/21/2007 3:13:16 PM	RICH-RD-0001 REVISION 4
SC			StringerR	CalcC	6/23/2007 12:16:11 PM	RICH-RD-0001 REVISION 4
AC			**McDowellD**	6/21/2007 3:01:01 PM		
AC			**DAWKINSO**	6/21/2007 3:13:16 PM		
AC			**StringerR**	6/23/2007 12:16:11		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.27

STL RICHLAND

7/17/2007 12:19:33 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 07/27/2007 W25182

Sep1 DT/Tm Tech:

Batch: 7165519 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 J0F8T-1-AD J7F070109-1-SAMP 06/06/2007 09:01		26.00g,in AmtRec: 20ML,500ML,LP	#Containers: 3			Scr:	Alpha: 2.31E-04 uCi/Sa	Beta: -3.25E-05 uCi/Sa
2 J0F8T-1-AE-X J7F070109-1-DUP 06/06/2007 09:01		25.90g,in AmtRec: 20ML,500ML,LP	#Containers: 3			Scr:	Alpha: 2.31E-04 uCi/Sa	Beta: -3.25E-05 uCi/Sa
3 J0F8X-1-AD J7F070109-2-SAMP 06/06/2007 09:53		26.00g,in AmtRec: 20ML,500ML,LP	#Containers: 3			Scr:	Alpha: 5.14E-05 uCi/Sa	Beta: 2.75E-04 uCi/Sa
4 J0F8X-1-AE-S J7F070109-2-MS 06/06/2007 09:53		26.40g,in AmtRec: 20ML,500ML,LP	UNSF3819 06/27/07,pd 01/23/07,r #Containers: 3			Scr:	Alpha: 5.14E-05 uCi/Sa	Beta: 2.75E-04 uCi/Sa
5 J0F81-1-AA J7F070109-3-SAMP 06/06/2007 11:13		26.40g,in AmtRec: 20ML,500ML	#Containers: 2			Scr:	Alpha: -8.91E-05 uCi/Sa	Beta: 2.65E-04 uCi/Sa 1.7E-01L
6 J0F82-1-AD J7F070109-4-SAMP 06/06/2007 12:05		25.40g,in AmtRec: 20ML,500ML,LP	#Containers: 3			Scr:	Alpha: 2.94E-04 uCi/Sa	Beta: -3.23E-05 uCi/Sa
7 J0F95-1-AA J7F070113-1-SAMP 06/06/2007 13:48		25.70g,in AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: -2.04E-05 uCi/Sa	Beta: 1.46E-04 uCi/Sa

STL RICHLAND

7/17/2007 12:19:35 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 07/27/2007

Sep1 DT/Tm Tech:

Batch: 7165519 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:
8 J0GAA-1-AD J7F070113-2-SAMP 06/06/2007 12:30		24.80g,in AmtRec: 20ML,500MLP,LP	#Containers: 3			Scr:	Alpha: 2.72E-05 uCi/Sa	Beta: 6.64E-04 uCi/Sa
9 J0GAG-1-AC J7F070113-3-SAMP 06/06/2007 11:09		25.10g,in AmtRec: 20ML,250MLP,500MLP	#Containers: 3			Scr:	Alpha: 1.14E-05 uCi/Sa	Beta: -3.62E-08 uCi/Sa
10 J0GAH-1-AC J7F070113-4-SAMP 06/06/2007 09:28		25.60g,in AmtRec: 20ML,250MLP,500MLP	#Containers: 3			Scr:	Alpha: -5.35E-05 uCi/Sa	Beta: 3.90E-04 uCi/Sa 1.7E-01L
11 J0GAN-1-AD J7F070113-5-SAMP 06/06/2007 13:07		26.90g,in AmtRec: 20ML,500MLP,LP	#Containers: 3			Scr:	Alpha: -5.66E-05 uCi/Sa	Beta: 3.23E-04 uCi/Sa
12 J0P80-1-AD J7F110180-3-SAMP 06/08/2007 13:21		26.40g,in AmtRec: 20ML,2X500MLP,4LP	#Containers: 4			Scr:	Alpha: 5.71E-07 uCi/Sa	Beta: -7.18E-07 uCi/Sa
13 J029L-1-AA-B J7F140000-519-BLK 06/06/2007 09:01		25.50g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
14 J029L-1-AC-C J7F140000-519-LCS 06/06/2007 09:01		25.30g,in AmtRec:	UNSF3820 06/27/07,pd 01/23/07,r #Containers: 1			Scr:	Alpha:	Beta:

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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 Prep_SamplePrep v4.8.26

STL RICHLAND

7/17/2007 12:19:36 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 07/27/2007

Sep1 DT/Tm Tech:

Batch: 7165519 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 J029L-1-AD-C J7F140000-519-LCS		25.50g,in	UNSC1770 06/14/07,pd 04/28/06,r					
06/06/2007 09:01		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments: PH <2.0 BS 7-17-07

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

J0F8T1AD-SAMP Constituent List:

Uranium	RDL:1.44E-01	ug/L	LCL:	UCL:	RPD:
J0F8X1AE-MS:					
J029L1AA-BLK:					
Uranium	RDL:1.44E-01	ug/L	LCL:	UCL:	RPD:
J029L1AC-LCS:					
Uranium	RDL:0.144343	ug/L	LCL:70	UCL:130	RPD:20
J029L1AD-LCS:					
Uranium	RDL:0.144343	ug/L	LCL:70	UCL:130	RPD:20

J0F8T1AD-SAMP Calc Info:

Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
J0F8X1AE-MS:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
J029L1AA-BLK:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
J029L1AC-LCS:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
J029L1AD-LCS:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B

Approved By _____ Date: _____

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8/1/2007 10:50:27 AM

ICOC Fraction Transfer/Status Report

ByDate: 8/1/2006, 8/6/2007, Batch: '7165519', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7165519						
AC		Cnt1C	BockJ	7/17/2007 12:10:29		
SC			wagarr	IsBatched	6/14/2007 4:42:18 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	7/17/2007 12:10:29 PM	RICH-RC-5015 Revision 6
SC			BockJ	Prep1C	7/17/2007 12:19:42 PM	RICH-RC-5015 REVISION 6
SC			AshworthA	InPrep2	7/26/2007 9:34:42 AM	RICH-RC-5015 REVISION 6
SC			AshworthA	Prep2C	7/27/2007 9:07:36 AM	RICH-RC-5015 REVISION 6
SC			NelsonT	Cnt1C	7/27/2007 12:06:02 PM	RICH-RC-5058 REV 7
AC			BockJ	7/17/2007 12:19:42		
AC			BockJ	7/17/2007 12:21:59		
AC			AshworthA	7/26/2007 9:34:42		
AC			AshworthA	7/27/2007 9:07:36		
AC			NelsonT	7/27/2007 12:06:02		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.27