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W05066

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162 pages

Analytical Data Package Prepared For

Pacific Northwest National Lab

Radiochemical Analysis By

STL Richland STLRL

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

Data Package Contains _____ Pages

Report Nbr: 34228

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05066	W07-011	B1L6R9	J6K160365-1	JJWMT1AA	9JJWMT10	6331279
		B1L6R9	J6K160365-1	JJWMT1AC	9JJWMT10	6331277
		B1L6R9	J6K160365-1	JJWMT1AD	9JJWMT10	6331278
		B1L704	J6K160365-2	JJWMX1AA	9JJWMX10	6331279
		B1L704	J6K160365-2	JJWMX1AC	9JJWMX10	6331276
		B1L704	J6K160365-2	JJWMX1AD	9JJWMX10	6331278
		B1L707	J6K160365-3	JJWM81AA	9JJWM810	6331279
		B1L707	J6K160365-3	JJWM81AD	9JJWM810	6331276
		B1L707	J6K160365-3	JJWM81AE	9JJWM810	6331278
		B1L707	J6K160365-3	JJWM82AC	9JJWM820	6331313
		B1L708	J6K160365-4	JJWPA1AA	9JJWPA10	6331279
		B1L708	J6K160365-4	JJWPA1AC	9JJWPA10	6331313
		B1L708	J6K160365-4	JJWPA1AD	9JJWPA10	6331276
		B1L708	J6K160365-4	JJWPA1AE	9JJWPA10	6331278
		B1L6T3	J6K160365-5	JJWPH1AA	9JJWPH10	6331279

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Comments:

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SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05066	W07-011	B1L6T3	J6K160365-5	JJWPH1AC	9JJWPH10	6331277
		B1L6T3	J6K160365-5	JJWPH1AD	9JJWPH10	6331278
		B1L745	J6K170331-1	JJ1E81AA	9JJ1E810	6331279
		B1L745	J6K170331-1	JJ1E81AC	9JJ1E810	6331330
		B1L745	J6K170331-1	JJ1E81AD	9JJ1E810	6331277
		B1L745	J6K170331-1	JJ1E82AE	9JJ1E820	7002408
		B1L720	J6K170331-2	JJ1FQ1AA	9JJ1FQ10	6331279
		B1L720	J6K170331-2	JJ1FQ1AC	9JJ1FQ10	6331313
		B1L720	J6K170331-2	JJ1FQ1AD	9JJ1FQ10	6331330
		B1L720	J6K170331-2	JJ1FQ1AE	9JJ1FQ10	6331277
		B1L720	J6K170331-2	JJ1FQ1AF	9JJ1FQ10	6331278
		B1L749	J6K170331-3	JJ1G11AA	9JJ1G110	6331279
		B1L749	J6K170331-3	JJ1G11AC	9JJ1G110	6331277
		B1L749	J6K170331-3	JJ1G11AD	9JJ1G110	6331278
		B1L6P9	J6K170331-4	JJ1G61AA	9JJ1G610	6331279
		B1L6P9	J6K170331-4	JJ1G61AC	9JJ1G610	6331312
		B1L6P9	J6K170331-4	JJ1G61AD	9JJ1G610	6331313
		B1L6P9	J6K170331-4	JJ1G61AE	9JJ1G610	6331277
		B1L6P9	J6K170331-4	JJ1G61AF	9JJ1G610	6331278
		B1L5T1	J6K180129-1	JJ2KD1AA	9JJ2KD10	6331279
		B1L5T1	J6K180129-1	JJ2KD1AC	9JJ2KD10	6331310
		B1L5T1	J6K180129-1	JJ2KD1AD	9JJ2KD10	6331312
		B1L5T1	J6K180129-1	JJ2KD1AE	9JJ2KD10	6331276
		B1L5T5	J6K180129-2	JJ2KQ1AA	9JJ2KQ10	6331279
		B1L5T5	J6K180129-2	JJ2KQ1AC	9JJ2KQ10	6331310
		B1L5T5	J6K180129-2	JJ2KQ1AD	9JJ2KQ10	6331312

Comments:

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SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05066	W07-011	B1L5T5	J6K180129-2	JJ2KQ1AE	9JJ2KQ10	6331313
		B1L5T5	J6K180129-2	JJ2KQ1AF	9JJ2KQ10	6331276
		B1L6X9	J6K180129-3	JJ2KR1AA	9JJ2KR10	6331279
		B1L6X9	J6K180129-3	JJ2KR1AC	9JJ2KR10	6331313
		B1L6X9	J6K180129-3	JJ2KR1AD	9JJ2KR10	6331276
		B1L6X9	J6K180129-3	JJ2KR1AE	9JJ2KR10	6331278
	S07-011	B1L3T0	J6K180140-1	JJ2M51AA	9JJ2M510	6331328
	W07-011	B1L608	J6K180144-1	JJ2NF1AA	9JJ2NF10	6331279
		B1L608	J6K180144-1	JJ2NF1AC	9JJ2NF10	6331310
		B1L608	J6K180144-1	JJ2NF1AD	9JJ2NF10	6331312
		B1L608	J6K180144-1	JJ2NF1AE	9JJ2NF10	6331313
		B1L608	J6K180144-1	JJ2NF1AF	9JJ2NF10	6331276
		B1L607	J6K180144-2	JJ2NN1AA	9JJ2NN10	6331279
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		B1L607	J6K180144-2	JJ2NN1AF	9JJ2NN10	6331276
		B1L607	J6K180144-2	JJ2NN2AD	9JJ2NN20	6331312
		B1L604	J6K180144-3	JJ2NP1AA	9JJ2NP10	6331279
		B1L604	J6K180144-3	JJ2NP1AC	9JJ2NP10	6331310
		B1L604	J6K180144-3	JJ2NP1AD	9JJ2NP10	6331312
		B1L604	J6K180144-3	JJ2NP1AE	9JJ2NP10	6331313
		B1L604	J6K180144-3	JJ2NP1AF	9JJ2NP10	6331276
		B1L638	J6K180172-1	JJ20N1AA	9JJ20N10	6331279
		B1L638	J6K180172-1	JJ20N1AC	9JJ20N10	6331328
		B1L638	J6K180172-1	JJ20N1AD	9JJ20N10	6331276
		B1L642	J6K180172-2	JJ21D1AA	9JJ21D10	6331279

Comments:

Report Nbr: 34228

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05066	W07-011	B1L642	J6K180172-2	JJ21D1AC	9JJ21D10	6331310
		B1L642	J6K180172-2	JJ21D1AD	9JJ21D10	6331312
		B1L642	J6K180172-2	JJ21D1AE	9JJ21D10	6331313
		B1L642	J6K180172-2	JJ21D1AF	9JJ21D10	6331328
		B1L642	J6K180172-2	JJ21D1AG	9JJ21D10	6331276
		B1L5X9	J6K180172-3	JJ21N1AA	9JJ21N10	6331310
		B1L5X9	J6K180172-3	JJ21N1AC	9JJ21N10	6331312
		B1L5X9	J6K180172-3	JJ21N1AD	9JJ21N10	6331327
		B1L5V3	J6K180172-4	JJ21R1AA	9JJ21R10	6331279
		B1L5V3	J6K180172-4	JJ21R1AC	9JJ21R10	6331310
		B1L5V3	J6K180172-4	JJ21R1AD	9JJ21R10	6331312
		B1L5V3	J6K180172-4	JJ21R1AE	9JJ21R10	6331313
		B1L5V3	J6K180172-4	JJ21R1AF	9JJ21R10	6331276

Comments:

SEVERN TRENT STL

STL Richland
2800 George Washington Way
Richland, WA 99354

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

Certificate of Analysis

Pacific Northwest National Laboratories
Sigma V Building
Richland, WA 99352

January 19, 2007

Attention: Dot Stewart

SAF Number	:	W07-011, S07-011
Date SDG Closed	:	November 17, 2006
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05066
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between November 15, 2006 and November 17, 2006, twenty water samples were received at STL Richland (STLR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Pacific Northwest National Laboratories (PGW) specific IDs:

PGW ID#	STLR ID#	MATRIX	DATE OF RECEIPT
B1L6R9	JJWMT	WATER	11/15/06
B1L704	JJWMX	WATER	11/15/06
B1L707	JJWM8	WATER	11/15/06
B1L708	JJWPA	WATER	11/15/06
B1L6T3	JJWPH	WATER	11/15/06
B1L745	JJ1E8	WATER	11/16/06
B1L720	JJ1FQ	WATER	11/16/06
B1L6P9	JJ1G6	WATER	11/16/06
B1L749	JJ1G1	WATER	11/16/06
B1L5T1	JJ2KD	WATER	11/16/06
B1L5T5	JJ2KQ	WATER	11/16/06
B1L6X9	JJ2KR	WATER	11/16/06
B1L3T0	JJ2M5	WATER	11/16/06

B1L608	JJ2NF	WATER	11/16/06
B1L607	JJ2NN	WATER	11/16/06
B1L604	JJ2NP	WATER	11/16/06
B1L638	JJ20N	WATER	11/17/06
B1L642	JJ210	WATER	11/17/06
B1L5X9	JJ21N	WATER	11/17/06
B1L5V3	JJ21R	WATER	11/17/06

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
Gamma Spec by method RICH-RC-5017
Iodine-129 (LL) by method RICH-RC-5025
Liquid Scintillation Counting
Technetium-99 by TEVA method RICH-RC-5065
Technetium-99 by method RICH-RC-5078
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:

The achieved MDAs for samples B1L5X9 and B1L608 DUP are greater than the CRDL due to sample matrix effects; reduced volumes were analyzed based on elevated screen results. Samples B1L642, B1L5V3, B1L5T1, B1L5T5B1L608, B1L607 and B1L604 were also analyzed with reduced volumes based on elevated screen results. Except as noted, the LCS, batch blank, samples and sample duplicate (B1L608) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:

Samples B1L6P9, B1L642, B1L5X9, B1L5V3, B1L5T1, B1L5T5, B1L608, B1L607, B1L604 and B1L607 DUP were analyzed with reduced volumes based on elevated screen results. Sample B1L607 and B1L607 DUP was out of limits on the first count. Both samples were recounted and had acceptable results. Except as noted, the LCS, batch blank, samples and sample duplicate (B1L607) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006

The LCS, batch blank, samples and sample duplicate (B1L745) results are within contractual requirements.

Gamma Spectroscopy

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

The duplicates for the batch were out on the first analysis. They were recounted with good results. Data accepted. Except as noted, the LCS, batch blank, samples and sample duplicate (B1L707) results are within contractual requirements.

Gamma Spec by method RICH-RC-5017:

There was insufficient sample for a duplicate. Sample B1L5X9 was recounted on a different detector for a replicate. Except as noted, the LCS, batch blank, samples and sample duplicate (B1L5X9) results are within contractual requirements.

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

The LCS, batch blank, samples and sample duplicate (B1L3T0) results are within contractual requirements.

Liquid Scintillation Counting

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

The LCS, batch blank, samples, sample duplicate (B1L638), and sample matrix spike (B1L642) results are within contractual requirements.

Technetium-99 by method RICH-RC-5078:

The LCS, batch blank, samples, sample duplicate (B1L745), and sample matrix spike (B1L720) results are within contractual requirements.

Tritium by method RICH-RC-5007:

The LCS, batch blank, samples and sample duplicate (B1L6R9) results are within contractual requirements.

Total Uranium

Total Uranium by method RICH-RC-5058:

The duplicates did not agree so they were reanalyzed with good results. Data accepted. Except as noted, the LCS, batch blank, samples, sample duplicate (B1L745), and sample matrix spike (B1L720) results are within contractual requirements.

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

Reviewed and approved:

Sherryl A. Adam
Project Manager

Drinking Water Method Cross References

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

Uncertainty Estimation

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

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

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

Report Definitions

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

1/19/2007 8:40:29 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34228 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.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:
9JJ1E810	B1L745		MW6-SBB-A1	W07-011	W05066					11/16/2006 09:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6331279	H-3	10028-17-8	1.26E+04	pCi/L	3.8E+02	6.3E+02		3.09E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/13/2006 09:38	I
6331330	SR-90	10098-97-2	-6.58E-02	pCi/L	1.9E-01	1.9E-01	U	4.51E-01	70.2	SRISO_SEP_PRE	1.0039E+00	L	12/31/2006 08:22	I
6331277	TC-99	14133-76-7	1.62E+02	pCi/L	8.2E+00	1.6E+01		1.06E+01	100.0	TC99_SEP_LSC	1.249E-01	L	12/21/2006 01:46	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JJ1E820	B1L745		MW6-SBB-A1	W07-011	W05066					11/16/2006 09:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7002408	Uranium	7440-61-1	7.16E+00	ug/L	8.5E-01	8.5E-01		8.35E-02		UTOT_KPA	2.51E-02	ML	01/17/2007 09:56	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JJ1FQ10	B1L720		MW6-SBB-A1	W07-011	W05066					11/16/2006 11:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6331279	H-3	10028-17-8	1.13E+04	pCi/L	3.6E+02	5.8E+02		3.11E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/13/2006 10:59	I
6331313	BE-7	13966-02-4	-1.91E+01	pCi/L	2.3E+01	2.3E+01	U	3.67E+01		GAMMALL_GS	2.0001E+00	L	12/22/2006 08:49	I
6331313	CO-60	10198-40-0	2.77E-01	pCi/L	1.8E+00	1.8E+00	U	3.94E+00		GAMMALL_GS	2.0001E+00	L	12/22/2006 08:49	I
6331313	CS-134	13967-70-9	6.18E-01	pCi/L	1.8E+00	1.8E+00	U	3.78E+00		GAMMALL_GS	2.0001E+00	L	12/22/2006 08:49	I
6331313	CS-137	10045-97-3	1.34E+00	pCi/L	2.3E+00	2.3E+00	U	4.69E+00		GAMMALL_GS	2.0001E+00	L	12/22/2006 08:49	I
6331313	EU-152	14683-23-9	-2.18E+00	pCi/L	5.5E+00	5.5E+00	U	9.33E+00		GAMMALL_GS	2.0001E+00	L	12/22/2006 08:49	I
6331313	EU-154	15585-10-1	-4.90E+00	pCi/L	7.3E+00	7.3E+00	U	1.22E+01		GAMMALL_GS	2.0001E+00	L	12/22/2006 08:49	I
6331313	EU-155	14391-16-3	-7.39E-01	pCi/L	3.9E+00	3.9E+00	U	7.00E+00		GAMMALL_GS	2.0001E+00	L	12/22/2006 08:49	I
6331313	K-40	13966-00-2	-3.14E+01	pCi/L	4.5E+01	4.5E+01	U	9.85E+01		GAMMALL_GS	2.0001E+00	L	12/22/2006 08:49	I
6331313	RU-106	13967-48-1	-2.91E+00	pCi/L	2.1E+01	2.1E+01	U	3.83E+01		GAMMALL_GS	2.0001E+00	L	12/22/2006 08:49	I
6331313	SB-125	14234-35-6	-1.04E+00	pCi/L	5.3E+00	5.3E+00	U	9.50E+00		GAMMALL_GS	2.0001E+00	L	12/22/2006 08:49	I
6331330	SR-90	10098-97-2	-5.51E-03	pCi/L	3.3E-02	1.9E-01	U	4.37E-01	69.5	SRISO_SEP_PRE	9.949E-01	L	12/31/2006 08:18	I
6331277	TC-99	14133-76-7	1.42E+02	pCi/L	7.8E+00	1.4E+01		1.05E+01	100.0	TC99_SEP_LSC	1.264E-01	L	12/21/2006 03:51	I
6331278	Uranium	7440-61-1	5.74E+00	ug/L	5.9E-01	5.9E-01		8.32E-02		UTOT_KPA	2.52E-02	ML	01/02/2007 11:27	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JJ1G110	B1L749		MW6-SBB-A1	W07-011	W05066					11/16/2006 12:38

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.

1/19/2007 8:40:29 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34228 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6331279	H-3	10028-17-8	1.26E+03	pCi/L	1.7E+02	2.0E+02		3.11E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/13/2006 16:26	I
6331277	TC-99	14133-76-7	1.90E+01	pCi/L	5.0E+00	7.4E+00		1.06E+01	100.0	TC99_SEP_LSC	1.25E-01	L	12/21/2006 05:55	I
6331278	Uranium	7440-61-1	3.39E+00	ug/L	3.5E-01	3.5E-01		8.35E-02		UTOT_KPA	2.51E-02	ML	01/02/2007 11:31	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JJ1G610	B1L6P9		MW6-SBB-A1	W07-011	W05066					11/16/2006 10:15

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6331279	H-3	10028-17-8	1.93E+03	pCi/L	1.9E+02	2.2E+02		3.09E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/13/2006 17:48	I
6331312	BETA	12587-47-2	1.59E+02	pCi/L	8.0E+00	3.1E+01		4.92E+00	100.0	9310_ALPHABETA	1.209E-01	L	12/27/2006 06:59	I
6331313	BE-7	13966-02-4	-1.07E+00	pCi/L	2.2E+01	2.2E+01	U	4.11E+01		GAMMALL_GS	1.9994E+00	L	12/22/2006 08:49	I
6331313	CO-60	10198-40-0	2.62E-01	pCi/L	1.6E+00	1.6E+00	U	3.53E+00		GAMMALL_GS	1.9994E+00	L	12/22/2006 08:49	I
6331313	CS-134	13967-70-9	7.53E-01	pCi/L	1.9E+00	1.9E+00	U	3.89E+00		GAMMALL_GS	1.9994E+00	L	12/22/2006 08:49	I
6331313	CS-137	10045-97-3	-6.79E-01	pCi/L	1.7E+00	1.7E+00	U	2.98E+00		GAMMALL_GS	1.9994E+00	L	12/22/2006 08:49	I
6331313	EU-152	14683-23-9	-3.23E+00	pCi/L	5.2E+00	5.2E+00	U	8.67E+00		GAMMALL_GS	1.9994E+00	L	12/22/2006 08:49	I
6331313	EU-154	15585-10-1	5.59E-01	pCi/L	5.4E+00	5.4E+00	U	1.11E+01		GAMMALL_GS	1.9994E+00	L	12/22/2006 08:49	I
6331313	EU-155	14391-16-3	-2.43E+00	pCi/L	3.9E+00	3.9E+00	U	6.56E+00		GAMMALL_GS	1.9994E+00	L	12/22/2006 08:49	I
6331313	K-40	13966-00-2	3.73E+00	pCi/L	3.3E+01	3.3E+01	U	6.98E+01		GAMMALL_GS	1.9994E+00	L	12/22/2006 08:49	I
6331313	RU-106	13967-48-1	2.48E+00	pCi/L	1.6E+01	1.6E+01	U	3.05E+01		GAMMALL_GS	1.9994E+00	L	12/22/2006 08:49	I
6331313	SB-125	14234-35-6	-1.61E-01	pCi/L	5.2E+00	5.2E+00	U	9.40E+00		GAMMALL_GS	1.9994E+00	L	12/22/2006 08:49	I
6331277	TC-99	14133-76-7	5.58E+02	pCi/L	1.3E+01	3.9E+01		1.05E+01	100.0	TC99_SEP_LSC	1.271E-01	L	12/21/2006 06:58	I
6331278	Uranium	7440-61-1	3.06E+00	ug/L	3.1E-01	3.1E-01		8.25E-02		UTOT_KPA	2.54E-02	ML	01/02/2007 11:32	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:
9JJ20N10	B1L638		MW6-SBB-A1	W07-011	W05066					11/17/2006 10:50

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6331279	H-3	10028-17-8	2.42E+03	pCi/L	2.0E+02	2.4E+02		3.10E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/14/2006 03:20	I
6331328	I-129L	15046-84-1	1.15E-01	pCi/L	1.4E-01	1.4E-01	U	2.82E-01	98.6	I129LL_SEP_LEPS	3.8606E+00	L	12/22/2006 18:34	I
6331276	TC-99	14133-76-7	3.45E+02	pCi/L	1.1E+01	2.9E+01		9.78E+00	100.0	TC99_ETVDSK_LS	1.275E-01	L	12/20/2006 20:15	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:
9JJ21D10	B1L642		MW6-SBB-A1	W07-011	W05066					11/17/2006 11:57

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6331279	H-3	10028-17-8	6.51E+03	pCi/L	2.9E+02	4.0E+02		3.11E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/14/2006 06:04	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.

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34228 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

6331310	ALPHA	12587-46-1	1.09E+00	pCi/L	9.9E-01	1.0E+00	U	1.71E+00	100.0	9310_ALPHABETA	1.566E-01	L	12/27/2006	07:29	I
6331312	BETA	12587-47-2	9.38E+01	pCi/L	5.2E+00	1.4E+01		3.40E+00	100.0	9310_ALPHABETA	1.712E-01	L	12/27/2006	08:45	I
6331313	BE-7	13966-02-4	2.34E+01	pCi/L	2.7E+01	2.7E+01	U	5.32E+01		GAMMALL_GS	2.0009E+00	L	12/22/2006	10:50	I
6331313	CO-60	10198-40-0	1.06E-01	pCi/L	2.8E+00	2.8E+00	U	5.40E+00		GAMMALL_GS	2.0009E+00	L	12/22/2006	10:50	I
6331313	CS-134	13967-70-9	7.87E-01	pCi/L	2.7E+00	2.7E+00	U	5.16E+00		GAMMALL_GS	2.0009E+00	L	12/22/2006	10:50	I
6331313	CS-137	10045-97-3	-4.65E-01	pCi/L	2.5E+00	2.5E+00	U	4.51E+00		GAMMALL_GS	2.0009E+00	L	12/22/2006	10:50	I
6331313	EU-152	14683-23-9	9.85E-01	pCi/L	4.7E+00	4.7E+00	U	8.77E+00		GAMMALL_GS	2.0009E+00	L	12/22/2006	10:50	I
6331313	EU-154	15585-10-1	2.63E-01	pCi/L	7.4E+00	7.4E+00	U	1.43E+01		GAMMALL_GS	2.0009E+00	L	12/22/2006	10:50	I
6331313	EU-155	14391-16-3	-1.06E+00	pCi/L	3.2E+00	3.2E+00	U	5.61E+00		GAMMALL_GS	2.0009E+00	L	12/22/2006	10:50	I
6331313	K-40	13966-00-2	-2.18E+01	pCi/L	4.9E+01	4.9E+01	U	1.06E+02		GAMMALL_GS	2.0009E+00	L	12/22/2006	10:50	I
6331313	RU-106	13967-48-1	-1.28E+01	pCi/L	2.2E+01	2.2E+01	U	3.69E+01		GAMMALL_GS	2.0009E+00	L	12/22/2006	10:50	I
6331313	SB-125	14234-35-6	1.28E+00	pCi/L	5.6E+00	5.6E+00	U	1.04E+01		GAMMALL_GS	2.0009E+00	L	12/22/2006	10:50	I
6331328	I-129L	15046-84-1	3.23E-01	pCi/L	1.7E-01	1.7E-01	U	3.48E-01	98.1	I129LL_SEP_LEPS	3.8204E+00	L	12/23/2006	09:43	I
6331276	TC-99	14133-76-7	6.07E+02	pCi/L	1.4E+01	4.7E+01		9.93E+00	100.0	TC99_ETVDSK_LS	1.259E-01	L	12/20/2006	20:15	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:
9JJ21N10	B1L5X9		MW6-SBB-A1	W07-011	W05066					11/17/2006 12:48

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6331310	ALPHA	12587-46-1	5.39E-01	pCi/L	1.7E+00	1.7E+00	U	3.52E+00	100.0	9310_ALPHABETA	5.51E-02	L	12/27/2006 10:12	I
6331312	BETA	12587-47-2	4.39E+03	pCi/L	3.5E+01	8.6E+02		5.24E+00	100.0	9310_ALPHABETA	7.43E-02	L	12/27/2006 07:49	I
6331327	BE-7	13966-02-4	1.59E+00	pCi/L	2.2E+01	2.2E+01	U	4.11E+01		GAMMA_GS	2.5007E+00	L	12/26/2006 20:51	I
6331327	CO-60	10198-40-0	5.55E+00	pCi/L	2.9E+00	2.9E+00	U	6.69E+00		GAMMA_GS	2.5007E+00	L	12/26/2006 20:51	I
6331327	CS-134	13967-70-9	-1.63E+00	pCi/L	2.1E+00	2.1E+00	U	3.44E+00		GAMMA_GS	2.5007E+00	L	12/26/2006 20:51	I
6331327	CS-137	10045-97-3	2.71E-01	pCi/L	2.2E+00	2.2E+00	U	4.02E+00		GAMMA_GS	2.5007E+00	L	12/26/2006 20:51	I
6331327	EU-152	14683-23-9	1.78E+00	pCi/L	4.4E+00	4.4E+00	U	8.43E+00		GAMMA_GS	2.5007E+00	L	12/26/2006 20:51	I
6331327	EU-154	15585-10-1	1.94E+00	pCi/L	5.0E+00	5.0E+00	U	1.08E+01		GAMMA_GS	2.5007E+00	L	12/26/2006 20:51	I
6331327	EU-155	14391-16-3	-1.86E+00	pCi/L	4.0E+00	4.0E+00	U	6.86E+00		GAMMA_GS	2.5007E+00	L	12/26/2006 20:51	I
6331327	K-40	13966-00-2	2.45E+00	pCi/L	3.7E+01	3.7E+01	U	8.42E+01		GAMMA_GS	2.5007E+00	L	12/26/2006 20:51	I
6331327	RU-106	13967-48-1	1.65E+00	pCi/L	1.6E+01	1.6E+01	U	2.97E+01		GAMMA_GS	2.5007E+00	L	12/26/2006 20:51	I
6331327	SB-125	14234-35-6	1.53E+00	pCi/L	4.5E+00	4.5E+00	U	8.50E+00		GAMMA_GS	2.5007E+00	L	12/26/2006 20:51	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:
9JJ21R10	B1L5V3		MW6-SBB-A1	W07-011	W05066					11/17/2006 12:10

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

1/19/2007 8:40:29 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34228 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6331279	H-3	10028-17-8	3.48E+03	pCi/L	2.3E+02	2.9E+02		3.10E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/14/2006 07:26	I
6331310	ALPHA	12587-46-1	6.73E+00	pCi/L	6.0E+00	6.2E+00	U	1.03E+01	100.0	9310_ALPHABETA	1.76E-02	L	12/27/2006 10:12	I
6331312	BETA	12587-47-2	3.85E+02	pCi/L	2.3E+01	6.4E+01		2.11E+01	100.0	9310_ALPHABETA	1.91E-02	L	12/27/2006 07:49	I
6331313	BE-7	13966-02-4	8.28E+00	pCi/L	2.2E+01	2.2E+01	U	4.21E+01		GAMMALL_GS	2.0018E+00	L	12/22/2006 10:50	I
6331313	CO-60	10198-40-0	-1.24E+00	pCi/L	2.2E+00	2.2E+00	U	3.86E+00		GAMMALL_GS	2.0018E+00	L	12/22/2006 10:50	I
6331313	CS-134	13967-70-9	-7.40E-01	pCi/L	2.0E+00	2.0E+00	U	3.59E+00		GAMMALL_GS	2.0018E+00	L	12/22/2006 10:50	I
6331313	CS-137	10045-97-3	7.08E-01	pCi/L	1.7E+00	1.7E+00	U	3.44E+00		GAMMALL_GS	2.0018E+00	L	12/22/2006 10:50	I
6331313	EU-152	14683-23-9	-3.68E+00	pCi/L	5.4E+00	5.4E+00	U	8.85E+00		GAMMALL_GS	2.0018E+00	L	12/22/2006 10:50	I
6331313	EU-154	15585-10-1	-3.35E+00	pCi/L	5.7E+00	5.7E+00	U	9.54E+00		GAMMALL_GS	2.0018E+00	L	12/22/2006 10:50	I
6331313	EU-155	14391-16-3	-2.82E+00	pCi/L	3.6E+00	3.6E+00	U	5.93E+00		GAMMALL_GS	2.0018E+00	L	12/22/2006 10:50	I
6331313	K-40	13966-00-2	3.60E+00	pCi/L	3.1E+01	3.1E+01	U	6.71E+01		GAMMALL_GS	2.0018E+00	L	12/22/2006 10:50	I
6331313	RU-106	13967-48-1	-1.82E+01	pCi/L	1.9E+01	1.9E+01	U	2.95E+01		GAMMALL_GS	2.0018E+00	L	12/22/2006 10:50	I
6331313	SB-125	14234-35-6	2.05E+00	pCi/L	4.3E+00	4.3E+00	U	8.44E+00		GAMMALL_GS	2.0018E+00	L	12/22/2006 10:50	I
6331276	TC-99	14133-76-7	8.88E+02	pCi/L	1.7E+01	6.6E+01		9.98E+00	100.0	TC99_ETVDSK_LS	1.254E-01	L	12/20/2006 20:15	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:
9JJ2KD10	B1L5T1		MW6-SBB-A1	W07-011	W05066					11/16/2006 10:24

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6331279	H-3	10028-17-8	6.31E+03	pCi/L	2.8E+02	4.0E+02		3.12E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/13/2006 19:10	I
6331310	ALPHA	12587-46-1	1.53E+00	pCi/L	1.6E+00	1.6E+00	U	2.89E+00	100.0	9310_ALPHABETA	9.72E-02	L	12/27/2006 07:29	I
6331312	BETA	12587-47-2	2.76E+01	pCi/L	3.3E+00	5.2E+00		3.82E+00	100.0	9310_ALPHABETA	1.536E-01	L	12/27/2006 06:59	I
6331276	TC-99	14133-76-7	9.11E+01	pCi/L	6.5E+00	1.2E+01		9.80E+00	100.0	TC99_ETVDSK_LS	1.268E-01	L	12/20/2006 20:14	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:
9JJ2KQ10	B1L5T5		MW6-SBB-A1	W07-011	W05066					11/16/2006 11:34

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6331279	H-3	10028-17-8	3.04E+03	pCi/L	2.2E+02	2.7E+02		3.10E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/13/2006 20:32	I
6331310	ALPHA	12587-46-1	1.28E+00	pCi/L	1.6E+00	1.7E+00	U	3.15E+00	100.0	9310_ALPHABETA	8.12E-02	L	12/27/2006 07:29	I
6331312	BETA	12587-47-2	6.24E+02	pCi/L	1.5E+01	7.9E+01		4.69E+00	100.0	9310_ALPHABETA	1.285E-01	L	12/27/2006 06:59	I
6331313	BE-7	13966-02-4	-8.86E+00	pCi/L	1.9E+01	1.9E+01	U	3.19E+01		GAMMALL_GS	1.9998E+00	L	12/22/2006 08:50	I
6331313	CO-60	10198-40-0	7.98E-01	pCi/L	1.4E+00	1.4E+00	U	3.20E+00		GAMMALL_GS	1.9998E+00	L	12/22/2006 08:50	I
6331313	CS-134	13967-70-9	6.44E-01	pCi/L	1.6E+00	1.6E+00	U	3.13E+00		GAMMALL_GS	1.9998E+00	L	12/22/2006 08:50	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.

1/19/2007 8:40:29 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34228 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

6331313	CS-137	10045-97-3	-3.13E-01	pCi/L	1.7E+00	1.7E+00	U	2.99E+00		GAMMALL_GS	1.9998E+00	L	12/22/2006	08:50	I
6331313	EU-152	14683-23-9	-3.21E-01	pCi/L	4.5E+00	4.5E+00	U	7.97E+00		GAMMALL_GS	1.9998E+00	L	12/22/2006	08:50	I
6331313	EU-154	15585-10-1	-3.43E+00	pCi/L	4.4E+00	4.4E+00	U	7.25E+00		GAMMALL_GS	1.9998E+00	L	12/22/2006	08:50	I
6331313	EU-155	14391-16-3	1.84E+00	pCi/L	4.9E+00	4.9E+00	U	7.54E+00		GAMMALL_GS	1.9998E+00	L	12/22/2006	08:50	I
6331313	K-40	13966-00-2	-3.23E+00	pCi/L	2.3E+01	2.3E+01	U	5.03E+01		GAMMALL_GS	1.9998E+00	L	12/22/2006	08:50	I
6331313	RU-106	13967-48-1	2.12E+00	pCi/L	1.3E+01	1.3E+01	U	2.49E+01		GAMMALL_GS	1.9998E+00	L	12/22/2006	08:50	I
6331313	SB-125	14234-35-6	-2.03E+00	pCi/L	4.4E+00	4.4E+00	U	7.43E+00		GAMMALL_GS	1.9998E+00	L	12/22/2006	08:50	I
6331276	TC-99	14133-76-7	1.20E+03	pCi/L	1.9E+01	8.7E+01		1.00E+01	100.0	TC99_ETVDSK_LS	1.249E-01	L	12/20/2006	20:14	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:
9JJ2KR10	B1L6X9		MW6-SBB-A1	W07-011	W05066					11/16/2006 13:36

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
6331279	H-3	10028-17-8	5.06E+03	pCi/L	2.6E+02	3.5E+02		3.11E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/13/2006	21:53	I
6331313	BE-7	13966-02-4	4.81E+00	pCi/L	1.5E+01	1.5E+01	U	2.89E+01		GAMMALL_GS	2.0006E+00	L	12/22/2006	08:51	I
6331313	CO-60	10198-40-0	1.01E+00	pCi/L	2.1E+00	2.1E+00	U	4.20E+00		GAMMALL_GS	2.0006E+00	L	12/22/2006	08:51	I
6331313	CS-134	13967-70-9	2.63E-01	pCi/L	1.6E+00	1.6E+00	U	3.04E+00		GAMMALL_GS	2.0006E+00	L	12/22/2006	08:51	I
6331313	CS-137	10045-97-3	5.73E-01	pCi/L	1.6E+00	1.6E+00	U	3.03E+00		GAMMALL_GS	2.0006E+00	L	12/22/2006	08:51	I
6331313	EU-152	14683-23-9	-1.80E+00	pCi/L	3.5E+00	3.5E+00	U	5.81E+00		GAMMALL_GS	2.0006E+00	L	12/22/2006	08:51	I
6331313	EU-154	15585-10-1	-1.46E+00	pCi/L	4.9E+00	4.9E+00	U	8.94E+00		GAMMALL_GS	2.0006E+00	L	12/22/2006	08:51	I
6331313	EU-155	14391-16-3	1.26E+00	pCi/L	3.0E+00	3.0E+00	U	5.66E+00		GAMMALL_GS	2.0006E+00	L	12/22/2006	08:51	I
6331313	K-40	13966-00-2	-7.66E+00	pCi/L	3.3E+01	3.3E+01	U	7.09E+01		GAMMALL_GS	2.0006E+00	L	12/22/2006	08:51	I
6331313	RU-106	13967-48-1	1.01E+01	pCi/L	1.1E+01	1.1E+01	U	2.41E+01		GAMMALL_GS	2.0006E+00	L	12/22/2006	08:51	I
6331313	SB-125	14234-35-6	-3.72E+00	pCi/L	3.7E+00	3.7E+00	U	5.79E+00		GAMMALL_GS	2.0006E+00	L	12/22/2006	08:51	I
6331276	TC-99	14133-76-7	2.98E+03	pCi/L	3.0E+01	2.1E+02		9.86E+00	100.0	TC99_ETVDSK_LS	1.262E-01	L	12/20/2006	20:14	I
6331278	Uranium	7440-61-1	4.95E+01	ug/L	5.9E+00	5.9E+00		8.03E-02		UTOT_KPA	2.61E-02	ML	01/02/2007	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:
9JJ2M510	B1L3T0		MW6-SBB-A1	S07-011	W05066					11/16/2006 13:36

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
6331328	I-129L	15046-84-1	4.23E+00	pCi/L	6.5E-01	6.5E-01		2.87E-01	95.7	I129LL_SEP_LEPS	3.8534E+00	L	12/22/2006	18:30	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JJ2NF10	B1L608		MW6-SBB-A1	W07-011	W05066					11/16/2006 12:09

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.

1/19/2007 8:40:29 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34228 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6331279	H-3	10028-17-8	7.32E+03	pCi/L	3.0E+02	4.3E+02		3.11E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/13/2006 23:15	I
6331310	ALPHA	12587-46-1	1.13E+00	pCi/L	1.4E+00	1.4E+00	U	2.59E+00	100.0	9310_ALPHABETA	6.89E-02	L	12/27/2006 10:12	I
6331312	BETA	12587-47-2	6.64E+01	pCi/L	5.1E+00	1.0E+01		5.38E+00	100.0	9310_ALPHABETA	7.99E-02	L	12/27/2006 07:49	I
6331313	BE-7	13966-02-4	1.85E+01	pCi/L	2.4E+01	2.4E+01	U	4.60E+01		GAMMALL_GS	2.0077E+00	L	12/22/2006 08:52	I
6331313	CO-60	10198-40-0	3.01E+00	pCi/L	2.7E+00	2.7E+00	U	5.68E+00		GAMMALL_GS	2.0077E+00	L	12/22/2006 08:52	I
6331313	CS-134	13967-70-9	1.66E-01	pCi/L	2.4E+00	2.4E+00	U	4.47E+00		GAMMALL_GS	2.0077E+00	L	12/22/2006 08:52	I
6331313	CS-137	10045-97-3	-1.02E+00	pCi/L	2.2E+00	2.2E+00	U	3.76E+00		GAMMALL_GS	2.0077E+00	L	12/22/2006 08:52	I
6331313	EU-152	14683-23-9	-4.57E+00	pCi/L	5.6E+00	5.6E+00	U	9.00E+00		GAMMALL_GS	2.0077E+00	L	12/22/2006 08:52	I
6331313	EU-154	15585-10-1	-2.98E+00	pCi/L	6.8E+00	6.8E+00	U	1.18E+01		GAMMALL_GS	2.0077E+00	L	12/22/2006 08:52	I
6331313	EU-155	14391-16-3	-8.24E-01	pCi/L	6.0E+00	6.0E+00	U	1.03E+01		GAMMALL_GS	2.0077E+00	L	12/22/2006 08:52	I
6331313	K-40	13966-00-2	-1.29E+00	pCi/L	6.6E+01	6.6E+01	U	1.49E+02		GAMMALL_GS	2.0077E+00	L	12/22/2006 08:52	I
6331313	RU-106	13967-48-1	-4.20E+00	pCi/L	2.0E+01	2.0E+01	U	3.49E+01		GAMMALL_GS	2.0077E+00	L	12/22/2006 08:52	I
6331313	SB-125	14234-35-6	-3.86E-02	pCi/L	5.1E+00	5.1E+00	U	9.09E+00		GAMMALL_GS	2.0077E+00	L	12/22/2006 08:52	I
6331276	TC-99	14133-76-7	2.47E+02	pCi/L	9.4E+00	2.2E+01		9.90E+00	100.0	TC99_ETVDSK_LS	1.255E-01	L	12/20/2006 20:14	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:
9JJ2NN10	B1L607		MW6-SBB-A1	W07-011	W05066					11/16/2006 12:09

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6331279	H-3	10028-17-8	7.89E+03	pCi/L	3.1E+02	4.6E+02		3.11E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/14/2006 00:37	I
6331310	ALPHA	12587-46-1	1.91E-01	pCi/L	1.0E+00	1.0E+00	U	2.36E+00	100.0	9310_ALPHABETA	6.86E-02	L	12/27/2006 10:12	I
6331313	BE-7	13966-02-4	-1.63E+01	pCi/L	2.8E+01	2.8E+01	U	4.71E+01		GAMMALL_GS	2.0035E+00	L	12/22/2006 10:45	I
6331313	CO-60	10198-40-0	5.78E-01	pCi/L	2.5E+00	2.5E+00	U	5.08E+00		GAMMALL_GS	2.0035E+00	L	12/22/2006 10:45	I
6331313	CS-134	13967-70-9	6.75E-02	pCi/L	2.6E+00	2.6E+00	U	4.84E+00		GAMMALL_GS	2.0035E+00	L	12/22/2006 10:45	I
6331313	CS-137	10045-97-3	-1.15E+00	pCi/L	2.2E+00	2.2E+00	U	3.81E+00		GAMMALL_GS	2.0035E+00	L	12/22/2006 10:45	I
6331313	EU-152	14683-23-9	-4.19E+00	pCi/L	5.3E+00	5.3E+00	U	8.55E+00		GAMMALL_GS	2.0035E+00	L	12/22/2006 10:45	I
6331313	EU-154	15585-10-1	1.70E+00	pCi/L	8.0E+00	8.0E+00	U	1.58E+01		GAMMALL_GS	2.0035E+00	L	12/22/2006 10:45	I
6331313	EU-155	14391-16-3	7.66E-01	pCi/L	4.6E+00	4.6E+00	U	8.40E+00		GAMMALL_GS	2.0035E+00	L	12/22/2006 10:45	I
6331313	K-40	13966-00-2	3.99E+00	pCi/L	5.8E+01	5.8E+01	U	3.45E+01		GAMMALL_GS	2.0035E+00	L	12/22/2006 10:45	I
6331313	RU-106	13967-48-1	4.49E+00	pCi/L	1.7E+01	1.7E+01	U	3.33E+01		GAMMALL_GS	2.0035E+00	L	12/22/2006 10:45	I
6331313	SB-125	14234-35-6	-2.56E+00	pCi/L	5.2E+00	5.2E+00	U	9.04E+00		GAMMALL_GS	2.0035E+00	L	12/22/2006 10:45	I
6331276	TC-99	14133-76-7	2.43E+02	pCi/L	9.4E+00	2.2E+01		9.93E+00	100.0	TC99_ETVDSK_LS	1.264E-01	L	12/20/2006 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.

1/19/2007 8:40:29 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34228 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.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:
9JJ2NN20	B1L607		MW6-SBB-A1	W07-011	W05066					11/16/2006 12:09

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6331312	BETA	12587-47-2	5.76E+01	pCi/L	4.7E+00	8.9E+00		5.21E+00	100.0	9310_ALPHABETA	7.86E-02	L	12/27/2006 15:50	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:
9JJ2NP10	B1L604		MW6-SBB-A1	W07-011	W05066					11/16/2006 13:25

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6331279	H-3	10028-17-8	6.29E+03	pCi/L	2.8E+02	3.9E+02		3.11E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/14/2006 01:58	I
6331310	ALPHA	12587-46-1	2.01E+00	pCi/L	1.4E+00	1.5E+00	U	2.08E+00	100.0	9310_ALPHABETA	1.178E-01	L	12/27/2006 07:29	I
6331312	BETA	12587-47-2	5.34E+01	pCi/L	4.4E+00	1.1E+01		4.08E+00	100.0	9310_ALPHABETA	1.443E-01	L	12/27/2006 08:45	I
6331313	BE-7	13966-02-4	-1.60E+00	pCi/L	2.9E+01	2.9E+01	U	5.18E+01		GAMMALL_GS	2.0021E+00	L	12/22/2006 10:46	I
6331313	CO-60	10198-40-0	-2.41E-02	pCi/L	2.3E+00	2.3E+00	U	4.50E+00		GAMMALL_GS	2.0021E+00	L	12/22/2006 10:46	I
6331313	CS-134	13967-70-9	1.70E+00	pCi/L	2.9E+00	2.9E+00	U	5.77E+00		GAMMALL_GS	2.0021E+00	L	12/22/2006 10:46	I
6331313	CS-137	10045-97-3	1.12E+00	pCi/L	2.4E+00	2.4E+00	U	4.80E+00		GAMMALL_GS	2.0021E+00	L	12/22/2006 10:46	I
6331313	EU-152	14683-23-9	3.81E+00	pCi/L	5.6E+00	5.6E+00	U	1.09E+01		GAMMALL_GS	2.0021E+00	L	12/22/2006 10:46	I
6331313	EU-154	15585-10-1	2.29E+00	pCi/L	6.3E+00	6.3E+00	U	1.33E+01		GAMMALL_GS	2.0021E+00	L	12/22/2006 10:46	I
6331313	EU-155	14391-16-3	-1.94E+00	pCi/L	4.2E+00	4.2E+00	U	7.10E+00		GAMMALL_GS	2.0021E+00	L	12/22/2006 10:46	I
6331313	K-40	13966-00-2	-3.53E+01	pCi/L	4.3E+01	4.3E+01	U	9.62E+01		GAMMALL_GS	2.0021E+00	L	12/22/2006 10:46	I
6331313	RU-106	13967-48-1	-8.86E+00	pCi/L	2.2E+01	2.2E+01	U	3.88E+01		GAMMALL_GS	2.0021E+00	L	12/22/2006 10:46	I
6331313	SB-125	14234-35-6	-8.18E-01	pCi/L	4.9E+00	4.9E+00	U	8.90E+00		GAMMALL_GS	2.0021E+00	L	12/22/2006 10:46	I
6331276	TC-99	14133-76-7	2.90E+02	pCi/L	1.0E+01	2.5E+01		1.00E+01	100.0	TC99_ETVDSK_LS	1.251E-01	L	12/20/2006 20:14	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:
9JJWM810	B1L707		MW6-SBB-A1	W07-011	W05066					11/15/2006 11:50

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6331279	H-3	10028-17-8	1.23E+04	pCi/L	3.8E+02	6.2E+02		3.11E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/13/2006 05:32	I
6331276	TC-99	14133-76-7	2.68E+04	pCi/L	8.8E+01	1.8E+03		9.85E+00	100.0	TC99_ETVDSK_LS	1.264E-01	L	12/20/2006 20:14	I
6331278	Uranium	7440-61-1	3.53E+02	ug/L	4.2E+01	4.2E+01		8.28E-02		UTOT_KPA	2.53E-02	ML	01/02/2007 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:
9JJWM820	B1L707		MW6-SBB-A1	W07-011	W05066					11/15/2006 11:50

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.

1/19/2007 8:40:30 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34228 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6331313	BE-7	13966-02-4	-6.18E-01	pCi/L	3.2E+01	3.2E+01	U	5.63E+01		GAMMALL_GS	1.9991E+00	L	12/26/2006 17:16	I
6331313	CO-60	10198-40-0	5.72E+01	pCi/L	1.4E+01	1.4E+01		5.11E+00		GAMMALL_GS	1.9991E+00	L	12/26/2006 17:16	I
6331313	CS-134	13967-70-9	1.14E+00	pCi/L	3.2E+00	3.2E+00	U	6.16E+00		GAMMALL_GS	1.9991E+00	L	12/26/2006 17:16	I
6331313	CS-137	10045-97-3	-6.56E-02	pCi/L	2.8E+00	2.8E+00	U	5.11E+00		GAMMALL_GS	1.9991E+00	L	12/26/2006 17:16	I
6331313	EU-152	14683-23-9	2.06E+00	pCi/L	5.9E+00	5.9E+00	U	1.09E+01		GAMMALL_GS	1.9991E+00	L	12/26/2006 17:16	I
6331313	EU-154	15585-10-1	-5.08E+00	pCi/L	7.2E+00	7.2E+00	U	1.19E+01		GAMMALL_GS	1.9991E+00	L	12/26/2006 17:16	I
6331313	EU-155	14391-16-3	2.92E+00	pCi/L	4.1E+00	4.1E+00	U	7.85E+00		GAMMALL_GS	1.9991E+00	L	12/26/2006 17:16	I
6331313	K-40	13966-00-2	1.43E+01	pCi/L	4.8E+01	4.8E+01	U	4.84E+01		GAMMALL_GS	1.9991E+00	L	12/26/2006 17:16	I
6331313	RU-106	13967-48-1	-1.41E+01	pCi/L	2.5E+01	2.5E+01	U	4.35E+01		GAMMALL_GS	1.9991E+00	L	12/26/2006 17:16	I
6331313	SB-125	14234-35-6	-5.22E+00	pCi/L	6.8E+00	6.8E+00	U	1.12E+01		GAMMALL_GS	1.9991E+00	L	12/26/2006 17:16	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:
9JJWMT10	B1L6R9		MW6-SBB-A1	W07-011	W05066					11/15/2006 10:18

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6331279	H-3	10028-17-8	1.40E+04	pCi/L	4.0E+02	6.9E+02		3.11E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/13/2006 01:27	I
6331277	TC-99	14133-76-7	8.03E+01	pCi/L	6.5E+00	1.1E+01		1.06E+01	100.0	TC99_SEP_LSC	1.261E-01	L	12/20/2006 23:41	I
6331278	Uranium	7440-61-1	6.32E+00	ug/L	6.5E-01	6.5E-01		8.28E-02		UTOT_KPA	2.53E-02	ML	01/02/2007 11:05	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JJWMX10	B1L704		MW6-SBB-A1	W07-011	W05066					11/15/2006 12:38

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6331279	H-3	10028-17-8	7.26E+02	pCi/L	1.5E+02	1.7E+02		3.11E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/13/2006 04:11	I
6331276	TC-99	14133-76-7	4.43E+02	pCi/L	1.2E+01	3.6E+01		9.84E+00	100.0	TC99_ETVDSK_LS	1.273E-01	L	12/20/2006 20:14	I
6331278	Uranium	7440-61-1	3.88E+00	ug/L	4.0E-01	4.0E-01		7.82E-02		UTOT_KPA	2.68E-02	ML	01/02/2007 11:07	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JJWPA10	B1L708		MW6-SBB-A1	W07-011	W05066					11/15/2006 11:50

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6331279	H-3	10028-17-8	1.23E+04	pCi/L	3.8E+02	6.2E+02		3.10E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/13/2006 06:54	I
6331313	BE-7	13966-02-4	2.97E+01	pCi/L	3.2E+01	3.2E+01	U	6.14E+01		GAMMALL_GS	2.0095E+00	L	12/22/2006 08:48	I
6331313	CO-60	10198-40-0	5.16E+01	pCi/L	1.3E+01	1.3E+01		5.97E+00		GAMMALL_GS	2.0095E+00	L	12/22/2006 08:48	I
6331313	CS-134	13967-70-9	2.11E-01	pCi/L	3.0E+00	3.0E+00	U	5.48E+00		GAMMALL_GS	2.0095E+00	L	12/22/2006 08:48	I
6331313	CS-137	10045-97-3	1.51E+00	pCi/L	2.6E+00	2.6E+00	U	5.05E+00		GAMMALL_GS	2.0095E+00	L	12/22/2006 08:48	I

STL Richland

rptFeadRadSummaryEdd v3.48

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

1/19/2007 8:40:30 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34228 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

6331313	EU-152	14683-23-9	-5.52E+00	pCi/L	5.5E+00	5.5E+00	U	8.71E+00		GAMMALL_GS	2.0095E+00	L	12/22/2006	08:48	I
6331313	EU-154	15585-10-1	8.99E-01	pCi/L	6.9E+00	6.9E+00	U	1.37E+01		GAMMALL_GS	2.0095E+00	L	12/22/2006	08:48	I
6331313	EU-155	14391-16-3	-1.12E+00	pCi/L	3.7E+00	3.7E+00	U	6.60E+00		GAMMALL_GS	2.0095E+00	L	12/22/2006	08:48	I
6331313	K-40	13966-00-2	-3.96E+01	pCi/L	4.7E+01	4.7E+01	U	9.99E+01		GAMMALL_GS	2.0095E+00	L	12/22/2006	08:48	I
6331313	RU-106	13967-48-1	-5.89E+00	pCi/L	2.6E+01	2.6E+01	U	4.66E+01		GAMMALL_GS	2.0095E+00	L	12/22/2006	08:48	I
6331313	SB-125	14234-35-6	-9.22E-02	pCi/L	5.7E+00	5.7E+00	U	1.02E+01		GAMMALL_GS	2.0095E+00	L	12/22/2006	08:48	I
6331276	TC-99	14133-76-7	2.64E+04	pCi/L	8.8E+01	1.8E+03		9.90E+00	100.0	TC99_ETVDSK_LS	1.26E-01	L	12/20/2006	20:14	I
6331278	Uranium	7440-61-1	3.43E+02	ug/L	4.1E+01	4.1E+01		8.25E-02		UTOT_KPA	2.54E-02	ML	01/02/2007	11:19	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JJWPH10	B1L6T3		MW6-SBB-A1	W07-011	W05066					11/15/2006 10:55

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6331279	H-3	10028-17-8	1.40E+04	pCi/L	4.0E+02	6.9E+02		3.11E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/13/2006 08:16	I
6331277	TC-99	14133-76-7	7.58E+01	pCi/L	6.4E+00	1.1E+01		1.05E+01	100.0	TC99_SEP_LSC	1.272E-01	L	12/21/2006 00:43	I
6331278	Uranium	7440-61-1	6.00E+00	ug/L	6.2E-01	6.2E-01		8.32E-02		UTOT_KPA	2.52E-02	ML	01/02/2007 11:21	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, January 19, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id:	JKC901AB	**Sdg/Rept Nbr:**	W05066 34228	**Collection Date:**	11/16/2006 09:30
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	11/16/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6331278	Uranium	1.02E-02	ug/L	1.2E-03	U	8.32E-02			UTOT_KPA	2.52E-02	01/02/2007				
BLK	7440-61-1			1.2E-03						ML	10:59				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, January 19, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id:	JKC911AB	**Sdg/Rept Nbr:**	W05066 34228	**Collection Date:**	11/15/2006 10:18
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	11/15/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6331279	H-3	-6.35E+01	pCi/L	1.4E+02	U	3.11E+02	100.0		906.0_H3_LSC	5.00E-03	12/12/2006				D
BLK	10028-17-8			1.3E+02						L	22:44				

STL Richland

rptFeadRadEdd v3.68

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

Friday, January 19, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id: JKC911DX
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05066 34228
Matrix: WATER WATER
QC Type: BLK

Collection Date: 11/15/2006 10:18
Sample On Date:
Received Date: 11/15/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6331279	H-3	-1.91E+01	pCi/L	1.4E+02	U	3.18E+02	100.0		906.0_H3_LSC	5.00E-03	12/13/2006				D
BLK	10028-17-8			1.3E+02						L	13:43				

STL Richland
rptFeadRadEdd v3.68

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

Friday, January 19, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id: JKC9J1AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05066 34228
Matrix: WATER WATER
QC Type: BLK

Collection Date: 11/17/2006 10:50
Sample On Date:
Received Date: 11/17/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6331276	TC-99	-2.38E+00	pCi/L	5.7E+00	U	9.85E+00	100.0		TC99_ETVDSK	1.265E-01	12/20/2006				D
BLK	14133-76-7			4.0E+00						L	20:15				

STL Richland
rptFeadRadEdd v3.68

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

Friday, January 19, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id: JKC9M1AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05066 34228
Matrix: WATER WATER
QC Type: BLK

Collection Date: 11/16/2006 09:30
Sample On Date:
Received Date: 11/16/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6331277	TC-99	-4.10E+00	pCi/L	6.1E+00	U	1.05E+01	100.0		TC99_SEP_LS	1.261E-01	12/21/2006				
BLK	14133-76-7			4.2E+00						L	08:00				D

STL Richland
rptFeadRadEdd v3.68

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

Friday, January 19, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id: JKDDE1AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05066 34228
Matrix: WATER WATER
QC Type: BLK

Collection Date: 11/16/2006 12:09
Sample On Date:
Received Date: 11/16/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6331310	ALPHA	5.55E-02	pCi/L	2.1E-01	U	4.54E-01	100.0		9310_ALPHAB	2.011E-01	12/27/2006				D
BLK	12587-46-1			2.1E-01						L	10:12				

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, January 19, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id:	JKDDK1AB	**Sdg/Rept Nbr:**	W05066 34228	**Collection Date:**	11/16/2006 12:09
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	11/16/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6331312	BETA	1.59E+00	pCi/L	9.8E-01	U	1.79E+00	100.0		9310_ALPHAB	2.00E-01	12/27/2006				
BLK	12587-47-2			9.6E-01						L	07:49				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, January 19, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id: JKDDW1AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05066 34228
Matrix: WATER WATER
QC Type: BLK

Collection Date: 11/15/2006 11:50
Sample On Date:
Received Date: 11/15/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6331313 BLK	BE-7 13966-02-4	1.34E+01	pCi/L	2.1E+01 2.1E+01	U	4.05E+01			GAMMALL_GS	2.0051E+00 L	12/22/2006 10:51				D
6331313 BLK	CO-60 10198-40-0	2.61E-01	pCi/L	1.9E+00 1.9E+00	U	3.73E+00			GAMMALL_GS	2.0051E+00 L	12/22/2006 10:51				D
6331313 BLK	CS-134 13967-70-9	9.20E-01	pCi/L	1.7E+00 1.7E+00	U	3.45E+00			GAMMALL_GS	2.0051E+00 L	12/22/2006 10:51				D
6331313 BLK	CS-137 10045-97-3	-2.97E-01	pCi/L	1.7E+00 1.7E+00	U	3.11E+00			GAMMALL_GS	2.0051E+00 L	12/22/2006 10:51				D
6331313 BLK	EU-152 14683-23-9	2.80E+00	pCi/L	3.8E+00 3.8E+00	U	7.50E+00			GAMMALL_GS	2.0051E+00 L	12/22/2006 10:51				D
6331313 BLK	EU-154 15585-10-1	-2.30E+00	pCi/L	4.6E+00 4.6E+00	U	8.22E+00			GAMMALL_GS	2.0051E+00 L	12/22/2006 10:51				D
6331313 BLK	EU-155 14391-16-3	-3.36E+00	pCi/L	3.9E+00 3.9E+00	U	6.26E+00			GAMMALL_GS	2.0051E+00 L	12/22/2006 10:51				D
6331313 BLK	K-40 13966-00-2	-1.55E+01	pCi/L	2.7E+01 2.7E+01	U	5.23E+01			GAMMALL_GS	2.0051E+00 L	12/22/2006 10:51				D
6331313 BLK	RU-106 13967-48-1	2.45E+00	pCi/L	1.5E+01 1.5E+01	U	2.83E+01			GAMMALL_GS	2.0051E+00 L	12/22/2006 10:51				D
6331313 BLK	SB-125 14234-35-6	1.01E-01	pCi/L	4.0E+00 4.0E+00	U	7.30E+00			GAMMALL_GS	2.0051E+00 L	12/22/2006 10:51				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, January 19, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id:	JKDEQ1AB	**Sdg/Rept Nbr:**	W05066	34228	**Collection Date:** 11/17/2006 12:48
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 11/17/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6331327	BE-7	3.26E+00	pCi/L	2.2E+01	U	4.06E+01			GAMMA_GS	2.5002E+00	12/26/2006				D
BLK	13966-02-4			2.2E+01						L	20:52				
6331327	CO-60	1.36E+00	pCi/L	1.8E+00	U	4.06E+00			GAMMA_GS	2.5002E+00	12/26/2006				D
BLK	10198-40-0			1.8E+00						L	20:52				
6331327	CS-134	1.05E+00	pCi/L	2.0E+00	U	4.07E+00			GAMMA_GS	2.5002E+00	12/26/2006				D
BLK	13967-70-9			2.0E+00						L	20:52				
6331327	CS-137	-6.04E-01	pCi/L	1.5E+00	U	2.59E+00			GAMMA_GS	2.5002E+00	12/26/2006				D
BLK	10045-97-3			1.5E+00						L	20:52				
6331327	EU-152	-1.45E+00	pCi/L	4.2E+00	U	7.26E+00			GAMMA_GS	2.5002E+00	12/26/2006				D
BLK	14683-23-9			4.2E+00						L	20:52				
6331327	EU-154	-1.37E+00	pCi/L	5.3E+00	U	9.76E+00			GAMMA_GS	2.5002E+00	12/26/2006				D
BLK	15585-10-1			5.3E+00						L	20:52				
6331327	EU-155	3.09E-01	pCi/L	2.7E+00	U	4.93E+00			GAMMA_GS	2.5002E+00	12/26/2006				D
BLK	14391-16-3			2.7E+00						L	20:52				
6331327	K-40	-2.14E+01	pCi/L	3.6E+01	U	7.81E+01			GAMMA_GS	2.5002E+00	12/26/2006				D
BLK	13966-00-2			3.6E+01						L	20:52				
6331327	RU-106	-1.02E+01	pCi/L	1.7E+01	U	2.89E+01			GAMMA_GS	2.5002E+00	12/26/2006				D
BLK	13967-48-1			1.7E+01						L	20:52				
6331327	SB-125	8.90E-01	pCi/L	3.5E+00	U	6.84E+00			GAMMA_GS	2.5002E+00	12/26/2006				D
BLK	14234-35-6			3.5E+00						L	20:52				

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

Friday, January 19, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id:	JKDET1AB	**Sdg/Rept Nbr:**	W05066 34228	**Collection Date:**	11/16/2006 13:36
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	11/16/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6331328	I-129L	-8.31E-02	pCi/L	1.3E-01	U	2.13E-01	98.6		I129LL_SEP_L	3.906E+00	12/23/2006				D
BLK	15046-84-1			1.3E-01						L	09:44				

STL Richland

rptFeadRadEdd v3.68

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

Friday, January 19, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id:	JKDEX1AB	**Sdg/Rept Nbr:**	W05066 34228	**Collection Date:**	11/16/2006 09:30
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	11/16/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6331330	SR-90	1.62E-02	pCi/L	2.5E-01	U	5.58E-01	54.7		SRISO_SEP_P	1.0019E+00	12/31/2006				D
BLK	10098-97-2			2.5E-01						L	08:18				

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

Friday, January 19, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id:	JMA9R1AB	**Sdg/Rept Nbr:**	W05066 34228	**Collection Date:**	11/16/2006 09:30
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	11/16/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7002408	Uranium	-9.93E-03	ug/L	2.2E-03	U	8.22E-02			UTOT_KPA	2.55E-02	01/17/2007				
BLK	7440-61-1			2.2E-03						ML	09:38				D

STL Richland

rptFeadRadEdd v3.68

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

Friday, January 19, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id: JKC901CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05066 34228
Matrix: WATER WATER
QC Type: BS

Collection Date: 11/16/2006 09:30
Sample On Date:
Received Date: 11/16/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6331278	Uranium	3.54E+01	ug/L	4.2E+00		8.25E-02		3.56E+01	UTOT_KPA	2.54E-02	01/02/2007			70	D
BS	7440-61-1			4.2E+00				99.5		ML	11:01			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, January 19, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id: JKC901DS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05066 34228
Matrix: WATER WATER
QC Type: BS

Collection Date: 11/16/2006 09:30
Sample On Date:
Received Date: 11/16/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6331278	Uranium	3.48E+00	ug/L	3.6E-01		8.09E-02		3.52E+00	UTOT_KPA	2.59E-02	01/02/2007			70	D
BS	7440-61-1			3.6E-01				99.0		ML	11:03			130	

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

Friday, January 19, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id: JKC911CS **Sdg/Rept Nbr:** W05066 34228 **Collection Date:** 11/15/2006 10:18

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 11/15/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6331279	H-3	2.71E+03	pCi/L	2.5E+02		3.11E+02	100.0	2.72E+03	906.0_H3_LSC	5.00E-03	12/13/2006			70	D
BS	10028-17-8			2.1E+02				99.6		L	00:05			130	

STL Richland

rptFeadRadEdd v3.68

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

Friday, January 19, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id: JKC911EM **Sdg/Rept Nbr:** W05066 34228 **Collection Date:** 11/15/2006 10:18

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 11/15/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6331279	H-3	2.35E+03	pCi/L	2.4E+02		3.15E+02	100.0	2.72E+03	906.0_H3_LSC	5.00E-03	12/13/2006			70	D
BS	10028-17-8			2.0E+02				86.6		L	15:05			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, January 19, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id: JKC9J1CS **Sdg/Rept Nbr:** W05066 34228 **Collection Date:** 11/17/2006 10:50

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 11/17/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6331276	TC-99	5.06E+02	pCi/L	4.0E+01		9.89E+00	100.0	5.33E+02	TC99_ETVDSK	1.263E-01	12/20/2006			70	D
BS	14133-76-7			1.3E+01				94.8		L	20:15			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, January 19, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id: JKC9M1CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05066 34228
Matrix: WATER WATER
QC Type: BS

Collection Date: 11/16/2006 09:30
Sample On Date:
Received Date: 11/16/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6331277	TC-99	4.16E+02	pCi/L	3.0E+01		1.04E+01	100.0	5.36E+02	TC99_SEP_LS	1.273E-01	12/21/2006			70	D
BS	14133-76-7			1.2E+01				77.5		L	09:03			130	

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

Friday, January 19, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id: JKDDE1CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05066 34228
Matrix: WATER WATER
QC Type: BS

Collection Date: 11/16/2006 12:09
Sample On Date:
Received Date: 11/16/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6331310	ALPHA	1.98E+01	pCi/L	4.8E+00		4.28E-01	100.0	2.28E+01	9310_ALPHAB	2.007E-01	12/27/2006			70	D
BS	12587-46-1			1.4E+00				87.2		L	17:25			130	

STL Richland
rptFeadRadEdd v3.68

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

Friday, January 19, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id: JKDDK1CS **Sdg/Rept Nbr:** W05066 34228 **Collection Date:** 11/16/2006 12:09

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 11/16/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6331312	BETA	1.81E+01	pCi/L	3.6E+00		2.08E+00	100.0	2.25E+01	9310_ALPHAB	2.024E-01	12/27/2006			70	D
BS	12587-47-2			1.7E+00				80.3		L	07:49			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, January 19, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id: JKDDW1CS **Sdg/Rept Nbr:** W05066 34228 **Collection Date:** 11/15/2006 11:50

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 11/15/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6331313	CO-60	3.47E+01	pCi/L	8.3E+00		5.42E+00		3.78E+01	GAMMALL_GS	2.0025E+00	12/22/2006			70	D
BS	10198-40-0			8.3E+00				91.6		L	10:52			130	
6331313	CS-137	2.54E+01	pCi/L	7.1E+00		4.17E+00		2.52E+01	GAMMALL_GS	2.0025E+00	12/22/2006			70	D
BS	10045-97-3			7.1E+00				100.8		L	10:52			130	
6331313	EU-152	8.28E+01	pCi/L	1.9E+01	U	2.61E+01		7.62E+01	GAMMALL_GS	2.0025E+00	12/22/2006			70	D
BS	14683-23-9			1.9E+01				108.7		L	10:52			130	

STL Richland

rptFeadRadEdd v3.68

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

Friday, January 19, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id: JKDEQ1CS **Sdg/Rept Nbr:** W05066 34228 **Collection Date:** 11/17/2006 12:48

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 11/17/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6331327	CO-60	3.68E+01	pCi/L	7.3E+00		4.33E+00		3.02E+01	GAMMA_GS	2.5003E+00	12/26/2006			70	D
BS	10198-40-0			7.3E+00				121.8		L	19:01			130	
6331327	CS-137	1.83E+01	pCi/L	5.3E+00		4.68E+00		2.00E+01	GAMMA_GS	2.5003E+00	12/26/2006			70	D
BS	10045-97-3			5.3E+00				91.5		L	19:01			130	
6331327	EU-152	6.02E+01	pCi/L	1.5E+01	U	2.15E+01		6.04E+01	GAMMA_GS	2.5003E+00	12/26/2006			70	D
BS	14683-23-9			1.5E+01				99.8		L	19:01			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, January 19, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id: JKDET1CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05066 34228
Matrix: WATER WATER
QC Type: BS

Collection Date: 11/16/2006 13:36
Sample On Date:
Received Date: 11/16/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6331328	I-129L	8.51E+00	pCi/L	1.2E+00		5.59E-01	85.0	1.01E+01	I129LL_SEP_L	3.7976E+00	12/23/2006			70	D
BS	15046-84-1			1.2E+00				84.3		L	09:45			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, January 19, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id: JKDEX1CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05066 34228
Matrix: WATER WATER
QC Type: BS

Collection Date: 11/16/2006 09:30
Sample On Date:
Received Date: 11/16/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6331330	SR-90	1.26E+01	pCi/L	2.0E+00		4.91E-01	55.1	1.35E+01	SRISO_SEP_P	1.0021E+00	12/31/2006			70	D
BS	10098-97-2			8.6E-01				93.4		L	08:18			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, January 19, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id:	JMA9R1CS	**Sdg/Rept Nbr:**	W05066 34228	**Collection Date:**	11/16/2006 09:30
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	11/16/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7002408	Uranium	3.62E+01	ug/L	4.3E+00		8.32E-02		3.62E+01	UTOT_KPA	2.52E-02	01/17/2007			75	D
BS	7440-61-1			4.3E+00				99.8		ML	09:45			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, January 19, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id: JMA9R1DS **Sdg/Rept Nbr:** W05066 34228 **Collection Date:** 11/16/2006 09:30

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 11/16/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7002408	Uranium	3.59E+00	ug/L	3.7E-01		8.25E-02		3.55E+00	UTOT_KPA	2.54E-02	01/17/2007			70	D
BS	7440-61-1			3.7E-01				101.1		ML	09:47			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, January 19, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id: JJ1E81FR
Client Id: B1L745
Moisture/Solids%*:

Sdg/Rept Nbr: W05066 34228
Matrix: WATER WATER
QC Type: DUP

Collection Date: 11/16/2006 09:30
Sample On Date:
Received Date: 11/16/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-011	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
6331277	TC-99	1.37E+02	pCi/L	1.4E+01		1.04E+01	100.0		TC99_SEP_LS	1.275E-01	12/21/2006	16.7	2.5		D
DUP	14133-76-7	1.62E+02		7.6E+00						L	02:48	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, January 19, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id:	JJ1E81HR	**Sdg/Rept Nbr:**	W05066 34228	**Collection Date:**	11/16/2006 09:30
Client Id:	B1L745	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	11/16/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-011	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
6331330	SR-90	4.00E-02	pCi/L	2.0E-01	U	4.53E-01	69.2		SRISO_SEP_P	1.0052E+00	12/31/2006	0.0	0.7		D
DUP	10098-97-2	-6.58E-02		8.7E-02						L	08:22	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, January 19, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id: JJ1E82GR
Client Id: B1L745
Moisture/Solids%*:

Sdg/Rept Nbr: W05066 34228
Matrix: WATER WATER
QC Type: DUP

Collection Date: 11/16/2006 09:30
Sample On Date:
Received Date: 11/16/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-011	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
7002408	Uranium	7.26E+00	ug/L	8.6E-01		8.19E-02			UTOT_KPA	2.56E-02	01/17/2007	1.4	0.2		D
DUP	7440-61-1	7.16E+00		8.6E-01						ML	09:58	20.0	3		

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

Friday, January 19, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id: JJ20N1ER
Client Id: B1L638
Moisture/Solids%*:

Sdg/Rept Nbr: W05066 34228
Matrix: WATER WATER
QC Type: DUP

Collection Date: 11/17/2006 10:50
Sample On Date:
Received Date: 11/17/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-011	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
6331276	TC-99	3.48E+02	pCi/L	2.9E+01		9.82E+00	100.0		TC99_ETVDSK	1.268E-01	12/20/2006	.8	0.1		D
DUP	14133-76-7	3.45E+02		1.1E+01						L	20:15	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, January 19, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id:	JJ21N1ER	**Sdg/Rept Nbr:**	W05066	34228	**Collection Date:** 11/17/2006 12:48
Client Id:	B1L5X9	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 11/17/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-011	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
6331327	BE-7	-8.74E+00	pCi/L	2.1E+01	U	3.66E+01			GAMMA_GS	2.5007E+00	12/26/2006	0.0	0.7		D
DUP	13966-02-4	1.59E+00		2.1E+01						L	19:01	20.0	3		
6331327	CO-60	8.44E+00	pCi/L	3.7E+00	U	7.69E+00			GAMMA_GS	2.5007E+00	12/26/2006	41.4	1.1		D
DUP	10198-40-0	5.55E+00		3.7E+00						L	19:01	20.0	3		
6331327	CS-134	1.55E+00	pCi/L	1.8E+00	U	3.89E+00			GAMMA_GS	2.5007E+00	12/26/2006	0.0	2.5		D
DUP	13967-70-9	-1.63E+00		1.8E+00						L	19:01	20.0	3		
6331327	CS-137	-3.34E-03	pCi/L	1.8E+00	U	3.28E+00			GAMMA_GS	2.5007E+00	12/26/2006	205.0	0.2		D
DUP	10045-97-3	2.71E-01		1.8E+00						L	19:01	20.0	3		
6331327	EU-152	1.45E-01	pCi/L	4.5E+00	U	8.09E+00			GAMMA_GS	2.5007E+00	12/26/2006	169.8	0.5		D
DUP	14683-23-9	1.78E+00		4.5E+00						L	19:01	20.0	3		
6331327	EU-154	2.53E+00	pCi/L	6.9E+00	U	1.37E+01			GAMMA_GS	2.5007E+00	12/26/2006	26.5	0.1		D
DUP	15585-10-1	1.94E+00		6.9E+00						L	19:01	20.0	3		
6331327	EU-155	-8.71E-01	pCi/L	3.1E+00	U	5.47E+00			GAMMA_GS	2.5007E+00	12/26/2006	0.0	0.4		D
DUP	14391-16-3	-1.86E+00		3.1E+00						L	19:01	20.0	3		
6331327	K-40	-1.29E+01	pCi/L	3.8E+01	U	8.30E+01			GAMMA_GS	2.5007E+00	12/26/2006	0.0	0.6		D
DUP	13966-00-2	2.45E+00		3.8E+01						L	19:01	20.0	3		
6331327	RU-106	8.87E+00	pCi/L	1.9E+01	U	3.60E+01			GAMMA_GS	2.5007E+00	12/26/2006	137.3	0.5		D
DUP	13967-48-1	1.65E+00		1.9E+01						L	19:01	20.0	3		
6331327	SB-125	2.99E+00	pCi/L	3.4E+00	U	7.18E+00			GAMMA_GS	2.5007E+00	12/26/2006	64.6	0.6		D
DUP	14234-35-6	1.53E+00		3.4E+00						L	19:01	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, January 19, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id: JJ2M51CR **Sdg/Rept Nbr:** W05066 34228 **Collection Date:** 11/16/2006 13:36
Client Id: B1L3T0 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **Received Date:** 11/16/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-011	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
6331328	I-129L	3.74E+00	pCi/L	5.8E-01		2.97E-01	100.3		I129LL_SEP_L	3.852E+00	12/22/2006	12.3	1.2		D
DUP	15046-84-1	4.23E+00		5.8E-01						L	18:31	20.0	3		

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

Friday, January 19, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id:	JJ2NF1GR	**Sdg/Rept Nbr:**	W05066 34228	**Collection Date:**	11/16/2006 12:09
Client Id:	B1L608	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	11/16/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-011	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
6331310	ALPHA	2.28E+00	pCi/L	2.4E+00	U	4.23E+00	100.0		9310_ALPHAB	7.15E-02	12/27/2006	67.4	0.7		D
DUP	12587-46-1	1.13E+00		2.3E+00						L	07:29	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, January 19, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id:	JJ2NN2GR	**Sdg/Rept Nbr:**	W05066 34228	**Collection Date:**	11/16/2006 12:09
Client Id:	B1L607	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	11/16/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-011	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
6331312	BETA	6.35E+01	pCi/L	9.6E+00		4.99E+00	100.0		9310_ALPHAB	7.92E-02	12/27/2006	9.7	0.9		D
DUP	12587-47-2	5.76E+01		4.8E+00						L	15:50	20.0	3		

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

Friday, January 19, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id:	JJWM82FR	**Sdg/Rept Nbr:**	W05066 34228	**Collection Date:**	11/15/2006 11:50
Client Id:	B1L707	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	11/15/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-011	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
6331313	BE-7	-6.21E+00	pCi/L	3.3E+01	U	5.79E+01			GAMMALL_GS	1.8539E+00	12/26/2006	0.0	0.2		D
DUP	13966-02-4	-6.18E-01		3.3E+01						L	17:16	20.0	3		
6331313	CO-60	5.74E+01	pCi/L	1.2E+01		5.00E+00			GAMMALL_GS	1.8539E+00	12/26/2006	.2	0.		D
DUP	10198-40-0	5.72E+01		1.2E+01						L	17:16	20.0	3		
6331313	CS-134	-2.55E+00	pCi/L	3.5E+00	U	5.67E+00			GAMMALL_GS	1.8539E+00	12/26/2006	0.0	1.5		D
DUP	13967-70-9	1.14E+00		3.5E+00						L	17:16	20.0	3		
6331313	CS-137	-2.27E+00	pCi/L	2.7E+00	U	4.40E+00			GAMMALL_GS	1.8539E+00	12/26/2006	0.0	1.1		D
DUP	10045-97-3	-6.56E-02		2.7E+00						L	17:16	20.0	3		
6331313	EU-152	-8.75E+00	pCi/L	6.7E+00	U	1.04E+01			GAMMALL_GS	1.8539E+00	12/26/2006	0.0	2.3		D
DUP	14683-23-9	2.06E+00		6.7E+00						L	17:16	20.0	3		
6331313	EU-154	-1.50E-02	pCi/L	7.4E+00	U	1.46E+01			GAMMALL_GS	1.8539E+00	12/26/2006	0.0	1.		D
DUP	15585-10-1	-5.08E+00		7.4E+00						L	17:16	20.0	3		
6331313	EU-155	-1.03E+00	pCi/L	5.9E+00	U	1.04E+01			GAMMALL_GS	1.8539E+00	12/26/2006	419.0	0.9		D
DUP	14391-16-3	2.92E+00		5.9E+00						L	17:16	20.0	3		
6331313	K-40	4.72E+00	pCi/L	5.0E+01	U	1.13E+02			GAMMALL_GS	1.8539E+00	12/26/2006	100.6	0.3		D
DUP	13966-00-2	1.43E+01		5.0E+01						L	17:16	20.0	3		
6331313	RU-106	1.80E+01	pCi/L	2.5E+01	U	4.96E+01			GAMMALL_GS	1.8539E+00	12/26/2006	1632.2	1.8		D
DUP	13967-48-1	-1.41E+01		2.5E+01						L	17:16	20.0	3		
6331313	SB-125	-1.74E+00	pCi/L	5.7E+00	U	1.01E+01			GAMMALL_GS	1.8539E+00	12/26/2006	0.0	0.9		D
DUP	14234-35-6	-5.22E+00		5.7E+00						L	17:16	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, January 19, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id:	JJWMT1ER	**Sdg/Rept Nbr:**	W05066 34228	**Collection Date:**	11/15/2006 10:18
Client Id:	B1L6R9	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	11/15/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-011	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
6331279	H-3	1.43E+04	pCi/L	7.0E+02		3.11E+02	100.0		906.0_H3_LSC	5.00E-03	12/13/2006	2.1	0.6		D
DUP	10028-17-8	1.40E+04		4.0E+02						L	02:49	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, January 19, 2007

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id: JJ1FQ1HW **Sdg/Rept Nbr:** W05066 34228 **Collection Date:** 11/16/2006 11:30
Client Id: B1L720 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** MS **Received Date:** 11/16/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-011	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
6331278	Uranium	3.59E+01	ug/L	5.0E+00		8.12E-02		3.51E+01	UTOT_KPA	2.58E-02	01/02/2007			60	D
MS	7440-61-1			5.0E+00				102.5		ML	11:29			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, January 19, 2007

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id:	JJ1FQ1JW	**Sdg/Rept Nbr:**	W05066 34228	**Collection Date:**	11/16/2006 11:30
Client Id:	B1L720	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	MS	**Received Date:**	11/16/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-011	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
6331277	TC-99	2.67E+03	pCi/L	1.8E+02		1.05E+01	100.0	3.55E+03	TC99_SEP_LS	1.268E-01	12/21/2006			60	D
MS	14133-76-7			2.9E+01				75.3		L	04:53			140	

STL Richland

rptFeadRadEdd v3.68

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

Friday, January 19, 2007

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05066.Edd, h:\Reportdb\edd\FeadIV\Rad\34228.Edd

Lab Sample Id:	JJ21D1HW	**Sdg/Rept Nbr:**	W05066 34228	**Collection Date:**	11/17/2006 11:57
Client Id:	B1L642	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	MS	**Received Date:**	11/17/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-011	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
6331276	TC-99	3.51E+03	pCi/L	2.9E+02		9.98E+00	100.0	3.62E+03	TC99_ETVDSK	1.253E-01	12/20/2006			60	D
MS	14133-76-7			3.5E+01				96.9		L	20:15			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

12/28/2006 10:25:56 AM

Lot No., Due Date: J6K180172,J6K180129,J6K180144; 01/02/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6331310; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05066; 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 => JJ2KD1AC 97.20<200.00 JJ2KQ1AC 81.20<200.00 JJ2NF1AC 68.90<200.00 JJ2NN1AC 68.60<200.00 JJ2NP1AC 117.80<200.00 JJ21D1AC 156.60<200.00 JJ21N1AA 55.10<200.00 JJ21R1AC 17.60<200.00 Q:VB		✓	
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. RPD > UCL : 20.0=> JJ2NF1AG ALPHA 67.0 (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. 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. MDC/MDA > CRDL => JJ2KQ1AC ALPHA 3.2E+00>3.0E+00 JJ2NF1AG ALPHA 4.2E+00>3.0E+00 JJ21N1AA ALPHA 3.5E+00>3.0E+00 JJ21R1AC ALPHA 1.0E+01>3.0E+00 Q:C1		✓	
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	✓		

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

OK; No Callin Level Found => ALPHA

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 Paul Anderson Date 12-28-04

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6351310
WO5064

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

Comments on any "No" response: See NCM

Second Level Review: Sherryl A Adam Date: 12-28-06

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

Clouseau
Nonconformance Memo

SEVERN TRENT SERVICES

NCM #: 10-09185
NCM Initiated By: Pam Anderson
Date Opened: 12/28/2006
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Alpha by GPC-Am
Lot #'s (Sample #'s): J6K180172 (3),
QC Batches: 6331310

Nonconformance: MDA not met
Subcategory: Data accepted

Problem Description / Root Cause

Name	Date	Description
Pam Anderson	12/28/2006	Sample JJ21N1AA for alpha did not meet CRDL due to high dissolved solids in the sample which requires a smaller aliquot. The duplicate of JJW2NF1AC also did not meet CRDL due to the same reason plus background counts.

Corrective Action

Name	Date	Corrective Action
Pam Anderson	12/28/2006	Note in case narrative.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 12/28/2006

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

12/28/2006 10:47:27 AM

Lot No., Due Date: J6K170331,J6K180172,J6K180129,J6K180144; 01/02/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6331312; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05066; WATER

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

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

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

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

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

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

8.06 At Least the Minimum Sample Volume Was Used — Yes No ✓ N/A
Analysis Volume => JJ1G61AC 120.90<200.00
JJ2KD1AD 153.60<200.00
JJ2KQ1AD 128.50<200.00
JJ2NF1AD 79.90<200.00
JJ2NN1AD 78.60<200.00
JJ2NP1AD 144.30<200.00
JJ21D1AD 171.20<200.00
JJ21N1AC 74.30<200.00
JJ21R1AD 19.10<200.00
JJ2NN2AD 78.60<200.00 Q:VB

8.07 The Correct Count Geometry was Used. — Yes ✓ No N/A
OK

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

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

8.1 Comments:

8.11 Matrix Blank is within Control Limits. — Yes No ✓ N/A
No Matrix Blanks (MBlks) found in Batch!

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

8.13 QAS Specified Duplicate Equation Value within Control Limits. — Yes No ✓ N/A
RPD > UCL : 20.0=> JJ2NN1AG BETA 46.0
JJ2NN2AG BETA 56.0 (RPD)

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

8.15 MLCS within Control Limits. — Yes No ✓ N/A
No Matrix Spikes (MLCS) found in Batch!

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

8.17 Tracer within Control Limits. — Yes ✓ No N/A
OK

8.18 Samples are above Minimum Tracer Yield (No Failed Samples) — Yes ✓ No N/A
OK

8.19 Sample Specific MDC <= CRDL. — Yes No ✓ N/A
MDC/MDA > CRDL => JJ1G61AC BETA 4.9E+00>4.0E+00
JJ2KQ1AD BETA 4.7E+00>4.0E+00
JJ2NF1AD BETA 5.4E+00>4.0E+00
JJ2NP1AD BETA 4.1E+00>4.0E+00
JJ21N1AC BETA 5.2E+00>4.0E+00
JJ21R1AD BETA 2.1E+01>4.0E+00
JJ2NN2AD BETA 5.2E+00>4.0E+00
JJ2NN2AG BETA 5.0E+00>4.0E+00 Q:C1

8.2 Comments:

WCM # 10-091816

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

No Limit Specified!

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

Batch Positive Result =>

JJ1G61AC BETA 1.6E+02 L:4.9E+00
JJ2KD1AD BETA 2.8E+01 L:3.8E+00
JJ2KQ1AD BETA 6.2E+02 L:4.7E+00
JJ2NF1AD BETA 6.6E+01 L:5.4E+00
JJ2NN1AD BETA 1.1E+02 L:5.3E+00
JJ2NP1AD BETA 5.3E+01 L:4.1E+00
JJ21D1AD BETA 9.4E+01 L:3.4E+00
JJ21N1AC BETA 4.4E+03 L:5.2E+00
JJ21R1AD BETA 3.8E+02 L:2.1E+01
JJ2NN2AD BETA 5.8E+01 L:5.2E+00

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

OK; No Action Level Found => BETA

OK; No Callin Level Found => BETA

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

OK

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

No FWHM found in Batch Data!

8.26 Instruments have Current Calibrations. Yes No N/A

8.27 Correct Count Library Used. Yes No N/A ✓

No Count Library found in Batch Data!

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

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

8.3 Comments:

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

OK

First Level Review Pam Anderson Date 12-28-06

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 633312
WS2066

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

Comments on any "No" response: See NCM

Second Level Review: Sheryl A. Adams Date: 12-28-06

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

Clouseau
Nonconformance Memo

SEVERN TRENT SERVICES

NCM #: 10-09186
NCM Initiated By: Pam Anderson
Date Opened: 12/28/2006
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Sep
Tests: Beta by GPC-Sr/Y
Lot #'s (Sample #'s): J6K180144 (2),
QC Batches: 6331312

Nonconformance: Other (describe in detail)
Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
Pam Anderson	12/28/2006	The sample and duplicate for this beta batch were out of limits on the first count. A recount had acceptable results. The difference is considered counting statistics.

Corrective Action

Name	Date	Corrective Action
Pam Anderson	12/28/2006	The sample and duplicate were recounted.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

1/2/2007 1:59:53 PM

Lot No., Due Date: J6K170331; 01/02/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6331330; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05066; WATER

1.0 COC

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

2.0 QC Batch

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

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

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

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

3.0 QC & Samples

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

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

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

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

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

4.0 Raw Data

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

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

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

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

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

5.0 Other

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

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

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

5.4 Was transcription checked? Yes ✓ No N/A

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

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

6.0 Comments on any No response:

First Level Review Pam Anderson Date 1-2-07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6331330
W05064

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

Comments on any "No" response:

Second Level Review: Sheryl A. Adam Date: 1-3-07

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

STL RICHLAND

12/14/2006 10:42:32 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: DRM

AnalyDueDate: 01/01/2007 WO50ldo

Sep1 DT/Tm Tech: 12/19/06 3:06 PM

Batch: 6331330 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep2 DT/Tm Tech: 12/29/06 1:05 PM

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JJ1E8-1-AC J6K170331-1-SAMP		1003.90g,in	srtb14277 12/05/06,pd 09/11/06,r	1.587 1.9841			100	9"	1942	12/19/06	
			YTA16683 Ex:7/23/2007	0.7999		223		1C 2C	0927 0909	12/31/06	
11/16/2006 09:30		AmtRec: 20ML,500ML,7XLP					#Containers: 9	Scr:	Alpha: 8.11E-04 uCi/Sa		Beta: -2.12E-04 uCi/Sa
2 JJ1E8-1-AH-X J6K170331-1-DUP		1005.20g,in	srtb14278 12/05/06,pd 09/11/06,r	1.542 1.9993				9"	2015	12/19/06	
			YTA16684 Ex:7/23/2007	0.7713		22.8		1B 2d	0927 0909	12/31/06	
11/16/2006 09:30		AmtRec: 20ML,500ML,7XLP					#Containers: 9	Scr:	Alpha: 8.11E-04 uCi/Sa		Beta: -2.12E-04 uCi/Sa
3 JJ1FQ-1-AD J6K170331-2-SAMP		994.90g,in	srtb14279 12/05/06,pd 09/11/06,r	1.549 2.0449				9"	2049	12/19/06	
			YTA16685 Ex:7/23/2007	0.7575		23.3		1C 3A	0927 0909	12/31/06	
11/16/2006 11:30		AmtRec: 20ML,500ML,7XLP,4LP					#Containers: 10	Scr:	Alpha: 1.73E-03 uCi/Sa		Beta: -1.68E-03 uCi/Sa
4 JKDEX-1-AA-B J6K270000-330-BLK		1001.90g,in	srtb14280 12/05/06,pd 09/11/06,r	1.211 2.0221					0589		
			YTA16686 Ex:7/23/2007	0.5989		23.2		1D 3B	0927 0909	12/31/06	
11/16/2006 09:30		AmtRec:					#Containers: 1	Scr:	Alpha:		Beta:

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

12/27/2006 2:39:44 PM

Lot No., Due Date:	J6K170331,J6K180172,J6K180129,J6K180144,J6K160365; 01/02/2007
Client, Site:	384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test:	6331313; RGAMMA Gamma by GER
SDG, Matrix:	W05066; WATER

1.0 COC

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

2.0 QC Batch

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

3.0 QC & Samples

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

4.0 Raw Data

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

5.0 Other

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

6.0 Comments on any No response:
See NCM. 00 9082

First Level Review Pam Anderson Date 12-27-06

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 651313

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

Comments on any "No" response: See NCM

Second Level Review: Sheryl R Adam Date: 12-28-06

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

Clouseau
Nonconformance Memo

SEVERN TRENT SERVICES

NCM #: **10-09182**
NCM Initiated By: Pam Anderson
Date Opened: 12/27/2006
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Sep
Tests: Gamma by GER
Lot #'s (Sample #'s): J6K160365 (3),
QC Batches: 6331313

Nonconformance: Other (describe in detail)
Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
Pam Anderson	12/27/2006	The duplicates for this gamma batch were out. They were recounted. The recount data is acceptable.

Corrective Action

Name	Date	Corrective Action
Pam Anderson	12/27/2006	Note in case narrative.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note
	Response	Response Note			

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

12/27/2006 2:42:13 PM

Lot No., Due Date:	J6K180172; 01/02/2007
Client, Site:	384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test:	6331327; RGAMMA Gamma by GER
SDG, Matrix:	W05066; WATER

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

6.0 Comments on any No response:

The sample is recounted for a duplicate. 0·09183

First Level Review Pam Anderson Date 12-27-06

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 633327
W02066

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

Comments on any "No" response: See NCM

Second Level Review: Sherryl R Adam Date: 12-28-06

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

Clouseau
Nonconformance Memo

SEVERN TRENT SERVICES

NCM #: 10-09183
NCM Initiated By: Pam Anderson
Date Opened: 12/27/2006
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Gamma by GER
Lot #'s (Sample #'s): J6K180172 (3),
QC Batches: 6331327

Nonconformance: Other (describe in detail)
Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
Pam Anderson	12/27/2006	There was insufficient sample for a duplicate. The sample was recounted on a different detector for a replicate.

Corrective Action

Name	Date	Corrective Action
Pam Anderson	12/27/2006	The sample was recounted.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 12/27/2006

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

12/26/2006 3:53:19 PM

Lot No., Due Date:	J6K180172,J6K180140; 01/02/2007
Client, Site:	384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test:	6331328; RGAMLEPS Gamma by LEPS
SDG, Matrix:	W05066; WATER

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

6.0 Comments on any No response:

First Level Review Pam Anderson Date 12-26-06

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 633328
W05064

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: 12-27-06

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

12/26/2006 3:20:51 PM

Lot No., Due Date: J6K180172,J6K180129,J6K180144,J6K160365; 01/02/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6331276; RTC99 Tc-99 by LSC

SDG, Matrix: W05066; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples Incorrect Tracer/Vial => JJ21D1AH TCSG<>TCSE Q:V9		✓	
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used OK	✓		
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. OK	✓		
8.17 Tracer within Control Limits. No Tracers found in Batch!			✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!			✓
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK Calc_IDL Not Calculated	✓		
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => TC-99 OK; No Callin Level Found => TC-99	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

8.26 Instruments have Current Calibrations. Yes No N/A

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

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

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

8.3 Comments:

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

First Level Review Pam Anderson Date 12-26-06

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 631276
W05066

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 W. Adam Date: 12-27-06

LS-026B, Rev. 10, 8/02

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

12/26/2006 3:20:20 PM

Lot No., Due Date: J6K170331,J6K160365; 01/02/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6331277; RTC99 Tc-99 by LSC

SDG, Matrix: W05066; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples Incorrect Tracer/Vial => JJ1FQ1AJ TCSG<>TCSE Q:V9		✓	
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used OK	✓		
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. RPD > UCL : 20.0=> JJ1E81AF TC-99 21.0 (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 Pam Anderson **Date** 12-26-06

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6 331277
W050616

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: Kerry L. Adam Date: 12-27-06

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

12/15/2006 3:48:54 PM

Lot No., Due Date: J6K170331,J6K180172,J6K180129,J6K180144,J6K160365; 01/02/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6331279; RTRITIUM H-3 by LSC

SDG, Matrix: W05066; WATER

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

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

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

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

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

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

8.06 At Least the Minimum Sample Volume Was Used Yes No ✓ N/A

Analysis Volume => JJ21D1AA 5.00<10.00
JJ21R1AA 5.00<10.00
JJWMT1AA 5.00<10.00
JJWMX1AA 5.00<10.00
JJWM81AA 5.00<10.00
JJWPA1AA 5.00<10.00
JJWPH1AA 5.00<10.00
JJ1E81AA 5.00<10.00
JJ1FQ1AA 5.00<10.00
JJ1G11AA 5.00<10.00
JJ1G61AA 5.00<10.00
JJ2KD1AA 5.00<10.00
JJ2KQ1AA 5.00<10.00
JJ2KR1AA 5.00<10.00
JJ2NF1AA 5.00<10.00
JJ2NN1AA 5.00<10.00
JJ2NP1AA 5.00<10.00
JJ20N1AA 5.00<10.00 Q:VB

OK
PA
12.15.06

8.07 The Correct Count Geometry was Used. Yes No ✓ N/A

Count Geometry => JKC911AF SVP15/5<>SVP10/10
JKC911AG SVP15/5<>SVP10/10
JKC911AJ SVP15/5<>SVP10/10
JJ21D1AA SVP15/5<>SVP10/10
JJ21R1AA SVP15/5<>SVP10/10
JKC911AA SVP15/5<>SVP10/10
JKC911AC SVP15/5<>SVP10/10
JJWMT1AA SVP15/5<>SVP10/10
JJWMT1AE SVP15/5<>SVP10/10
JJWMX1AA SVP15/5<>SVP10/10
JJWM81AA SVP15/5<>SVP10/10
JJWPA1AA SVP15/5<>SVP10/10
JJWPH1AA SVP15/5<>SVP10/10
JJ1E81AA SVP15/5<>SVP10/10
JJ1FQ1AA SVP15/5<>SVP10/10
JKC911AH SVP15/5<>SVP10/10
JKC911AD SVP15/5<>SVP10/10
JKC911AE SVP15/5<>SVP10/10
JJ1G11AA SVP15/5<>SVP10/10
JJ1G61AA SVP15/5<>SVP10/10
JJ2KD1AA SVP15/5<>SVP10/10
JJ2KQ1AA SVP15/5<>SVP10/10
JJ2KR1AA SVP15/5<>SVP10/10
JJ2NF1AA SVP15/5<>SVP10/10
JJ2NN1AA SVP15/5<>SVP10/10
JJ2NP1AA SVP15/5<>SVP10/10
JJ20N1AA SVP15/5<>SVP10/10 Q:VC

ok
PA
12.15.06

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

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

8.1 Comments:

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

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

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

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

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

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

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

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

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

8.2 Comments:

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

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

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

OK; No Callin Level Found => H-3

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

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

8.26 Instruments have Current Calibrations. Yes No N/A

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

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

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

8.3 Comments:

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

First Level Review Pam Anderson **Date** 12-15-06

STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6331279
W05064

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: 12-18-06

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

1/18/2007 10:38:20 AM

Lot No., Due Date:	J6K170331,J6K180129,J6K160365; 01/02/2007
Client, Site:	384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test:	6331278; RUNAT UNat by KPA
SDG, Matrix:	W05066; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples Incorrect Tracer/Vial => JKC901AD UNSC<>UNSF Q:V9		✓	
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used No Count Analysis Size found in Batch Data!			✓
8.07 The Correct Count Geometry was Used. No Count Geometry found in Batch Data!			✓
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. No Count Duration Field Found in Batch Data!			✓
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. FPD > UCL : 20.0=> JJ1E81AG Uranium 26.0 (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. Batch Positive Result => JJ1E81AE Uranium 5.3E+00 L:8.1E-02 JJ1FQ1AF Uranium 5.7E+00 L:8.3E-02 JJ1G11AD Uranium 3.4E+00 L:8.3E-02 JJ1G61AF Uranium 3.1E+00 L:8.3E-02 JJ2KR1AE Uranium 4.9E+01 L:8.0E-02 JJWM81AE Uranium 3.5E+02 L:8.3E-02 JJWMT1AD Uranium 6.3E+00 L:8.3E-02 JJWMX1AD Uranium 3.9E+00 L:7.8E-02 JJWPA1AE Uranium 3.4E+02 L:8.3E-02 JJWPH1AD Uranium 6.0E+00 L:8.3E-02		✓	

NCM w/ batch 7002408 10-09301

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

First Level Review Pam Anderson Date 1-18-07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 631278
W05064

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

Comments on any "No" response: See NCM

Second Level Review: Sheryl A Adam Date: 1-18-07

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

1/18/2007 11:10:07 AM

Lot No., Due Date: J6K170331; 01/02/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7002408; RUNAT UNat by KPA

SDG, Matrix: W05066; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples Incorrect Tracer/Vial => JMA9R1AD UNSC<>UNSF Q:V9		✓	
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used No Count Analysis Size found in Batch Data!			✓
8.07 The Correct Count Geometry was Used. No Count Geometry found in Batch Data!			✓
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. No Count Duration Field Found in Batch Data!			✓
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. 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. Batch Positive Result => JC1E82AE Uranium 7.2E+00 L:8.3E-02		✓	
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => Uranium OK; No Callin Level Found => Uranium	✓		
8.24 Result + 3s >=0, Not Too Negative. Result + 3s < 0 JMA9R1AA Uranium -6.6E-03		✓	
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

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

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

8.3 Comments:

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

First Level Review Pam Anderson Date 1-18-07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7002408
W050164

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

Comments on any "No" response: See NCM

Second Level Review: Sheryl R Adam Date: 1-18-07

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

Clouseau
Nonconformance Memo

SEVERN TRENT SERVICES

NCM #: **10-09301**
NCM Initiated By: Pam Anderson
Date Opened: 01/18/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Sep
Tests: UNat by KPA
Lot #'s (Sample #'s): J6K170331 (1),
QC Batches: 7002408

Nonconformance: Other (describe in detail)
Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
Pam Anderson	01/18/2007	The duplicates for batch 6331278, total uranium in water, did not agree. The were reanalyzed in this batch and meet requirements.

Corrective Action

Name	Date	Corrective Action
Pam Anderson	01/18/2007	The sample and duplicate were reanalyzed with good results.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

PNNL U6K160365
W05066
Fluor Hanford due 12-29-06

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-011-162**

Page 1 of 1

Collector: Fluor Hanford L. D. WALL	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W07-011	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, NOVEMBER 2006	HNF-N-526 3	Ice Chest No.: GRP-06-005 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1L6R9		W	11-15-06	1018	1x20-mL P	Activity Scan	None
B1L6R9		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1L6R9		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
B1L6R9		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						JJWMT	

Relinquished By	Date/Time	Received By	Date/Time
Print: Fluor Hanford L. D. WALL Sign: L. D. Wall	NOV 15 2006 1500	Print: DAVID HARBINSON Sign: [signature]	NOV 15 2006 1500
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

STILL RIGHT HAND

PNNL J6K160365 W05066
Fluor Hanford Due 12-29-06

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-011-206**

Page 1 of 1

Collector L. D. WALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-011	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, NOVEMBER 2006	HNF-N-504 3	**Ice Chest No.** GRP-06-005 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1L704		W	11-15-06	1238	1x20-mL P	Activity Scan	None
B1L704		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1L704		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1L704		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						JJWMX	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L. D. WALL		L. D. Wall	NOV 15 2006 1500	DAVID HARBISON			NOV 15 2006 1500
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

95

PNNL J6K160365
W05066
Due 12-29-06

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-011-198**

Page 1 of 1

Collector Fluor Hanford L. D. WALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-011	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, NOVEMBER 2006	HNF-N-506 3	**Ice Chest No.** 6RP-06-005 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1L707		W	11-15-06	1150	1x20-mL P	Activity Scan	None
B1L707		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1L707		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1L707		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1L707		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						JJWM8	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L. D. WALL	L.D. Wall		NOV 15 2006 1500	David Harbison			NOV 15 2006 1500
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

96

PNNL J6K160365
W05066
Due 12-29-06

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-011-199**

Page 1 of 1

Collector: Fluor Hanford L. D. WALL	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W07-011	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, NOVEMBER 2006	HNF-N-506 3	Ice Chest No.: GRP-06-005 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1L708		W	11-15-06	1150	1x20-mL P	Activity Scan	None
B1L708		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1L708		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1L708		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1L708		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						JJWPA	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L. D. WALL	L.D. Wall		NOV 15 2006 1500	DAVID HARBISON			NOV 15 2006 1500
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

97

PNNL JGK160365
W05066
Due 12-29-06

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-011-156**

Page 1 of 1

Collector Fluor Hanford L. D. WALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-011	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, NOVEMBER 2006	HNF-N-506 3	**Ice Chest No.** GRP 06-005 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1L6T3		W	11-15-06	1055	1x20-mL P	Activity Scan	None
B1L6T3		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1L6T3		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
B1L6T3		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						JJWPH	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L. D. WALL	L. D. Wall		1500 NOV 15 2006		David HARBinson		1500 NOV 15 2006
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

98

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 11/15/06 15:00

Client: PNNL

SDG #: W05064 NA [ ] SAF #: W07-011 NA [ ]

Work Order Number: J6K160365

Chain of Custody # W0701162 W0701182

Shipping Container ID: GRP-06-005

Air Bill # N/A W0701198 W0701197 W0701156

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

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

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

4. Cooler temperature: _____ NA [✓] Yes [✓] No [ ]

5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]

6. Number of samples in shipping container: 26

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 [✓] adjusted pH [ ]

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

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

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

Sample Custodian: [signature] Date: 11/15/06 15:00

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

PNNL J6K170331
W05066
~~Due 12-29-06~~ 01-01-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-011-254**

Page 1 of 1

Collector: FLUOR HANFORD R.F. CARRIGAN	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W07-011	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA NOVEMBER 2006	HNF-N-506 1	Ice Chest No.: ERC 01-046 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1L745		W	11-16-06	0903	1x20-mL P	Activity Scan	None
B1L745		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1L745		W			3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
B1L745		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1L745		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						JJIE8	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD R.F. CARRIGAN	R.F. Carrigan		NOV 15 2006 1500	S. Smith	S. Smith		NOV 15 2006 1500
Relinquished By			11-21-06 Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

11-21-06

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

100

PNNL J6K170331
WC5066
Due 1-01-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W07-011-182

Page 1 of 1

Collector: ~~FLUOR HANFORD~~ R.F. CARRIGAN	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W07-011	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, NOVEMBER 2006	HNF-N-5061	Ice Chest No.: ERC 01-040 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1L720		W	11-16-06	1130	1x20-mL P	Activity Scan	None
B1L720		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1L720		W			3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
B1L720		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1L720		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1L720		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						TJ1FQ	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD	R.F. CARRIGAN	R.F. Carrigan	1500 NOV 16 2006	S. Smith	S. Smith	S. Smith	1500 NOV 16 2006
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

101

PNNL JGK170331
W05066
due 1-1-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-011-102**

Page 1 of 1

Collector: FLUOR HANFORD R.F. CARRIGAN	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W07-011	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, NOVEMBER 2006	HNF-N-506 1	Ice Chest No.: ERC 01-040 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1L6P9		W	11-16-06	1015	1x20-mL P	Activity Scan	None
B1L6P9		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1L6P9		W			3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
B1L6P9		W			1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
B1L6P9		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1L6P9		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None

JJ166

	Print	Sign	Date/Time		Print	Sign	Date/Time
Relinquished By: FLUOR HANFORD R.F. CARRIGAN	R.F. Carrigan	R.F. Carrigan	NOV 16 2006 1500	Received By	S. Smith	S. SMITH	NOV 16 2006 1500
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

102

PNNL 06K170331
W05064
Due 01-01-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-011-248**

Page 1 of 1

Collector ~~FLUOR HANFORD~~ R.F. CARRIGAN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-011	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, NOVEMBER 2006	4NF-N-506 1	**Ice Chest No.** E12C 01-040 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1L749		W	11-16-06	1238	1x20-mL P	Activity Scan	None
B1L749		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1L749		W			3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
B1L749		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None

JJ161

Relinquished By	Received By
Print: FLUOR HANFORD R.F. CARRIGAN Sign: R.F. Carrigan Date/Time: NOV 16 2006 1500	Print: S. Smith Sign: S. Smith Date/Time: NOV 16 2006 1500
Relinquished By Date/Time	Received By Date/Time
Relinquished By Date/Time	Received By Date/Time
Relinquished By Date/Time	Received By Date/Time

Matrix *

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

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

STL RICHLAND

103

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 11.16.06 1500

Client: PGW SDG #: W05066 NA [ ] SAF #: W07-011 NA [ ]

Work Order Number: J6K170331 Chain of Custody # W07-011-254, 182, 248, 102

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): COC# W07-011-254 has the wrong stamp date

Sample Custodian: L. Smith Date: 11.16.06 1500

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL J6R180129
W05066
Due 01-01-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-011-288**

Page 1 of 1

Collector Fluor Hanford ~~L. D. WALL~~	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-011	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, NOVEMBER 2006	HNF-N-5063	**Ice Chest No.** GEP-06-005 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1L5T1		W	11-16-06	1024	1x20-mL P	Activity Scan	None
B1L5T1		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1L5T1		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1L5T1		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						JJ2KD	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford ~~L. D. WALL~~	L. D. Wall	L. D. Wall	NOV 16 2006 1510	S. Smith	S. Smith	S. Smith	NOV 16 2006 1510
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

105

PNNL JK K180129
W05066
Fluor Hanford Due 01-01-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-011-294**

Page 1 of 1

Collector L. D. WALL	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. W07-011	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA, NOVEMBER 2006	HWF-N-506 3	Ice Chest No. GRP-06-005 Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol RCRA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1L5T5		W	11-16-06	1134	1x20-mL P	Activity Scan	None
B1L5T5		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1L5T5		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1L5T5		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1L5T5		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						JJ2KQ	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L. D. WALL	L. D. Wall		NOV 16 2006 1510		S. Smith	S. Smith	NOV 16 2006 1510
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

106

PNNL JGK180129
W05066
Fluor Hanford due 01-01-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W07-011-228

Page 1 of 1

Collector L. D. WALL	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. W07-011	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA, NOVEMBER 2006	HNF-N-5063	Ice Chest No. GRP-06005 Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol RCRA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1L6X9		W	11-16-06	1336	1x20-mL P	Activity Scan	None
B1L6X9		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1L6X9		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1L6X9		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1L6X9		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						JJ2KR	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L. D. WALL	L. D. Wall		NOV 16 2006 1510	L. Smith	S. Smith		NOV 16 2006 1510
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

107

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 11-16-06 1510

Client: PGW SDG #: W05066 NA [ ] SAF #: W07-011 NA [ ]

Work Order Number: U6K180129 Chain of Custody # W07-011-288, 294, 228

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: 11-16-06 15:10

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL JGK180140 W05066

Fluor Hanford

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-011-374

Page 1 of 1

Collector L. D. WALL	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. S07-011	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURV, NOVEMBER 2006	HNF-N-506-3	Ice Chest No. ORP-06-005 Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol SURV	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS

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

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

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1L3T0		W	11-16-06	1336	1x20-mL P	Activity Scan	None
B1L3T0		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

JJ2M5

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L. D. WALL	L. D. Wall		NOV 16 2006 1510	L. Smith		S. Smith	NOV 16 2006 1510
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

109

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 11-16-06 1510

Client: PGW SDG #: W05066 NA [ ] SAF #: 507-011 NA [ ]

Work Order Number: J6K180140 Chain of Custody # 507-011374

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
   1 hazard labels
   1 appropriate samples labels

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

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

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

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

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

Sample Custodian: L. Smith Date: 11-16-06 1510

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL J6K180144
W05066
due 01-01-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W07-011-307

Page 1 of 1

Collector: Fluor Hanford D. E. PARCHEN	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W07-011	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, NOVEMBER 2006	HNF-N-506 4	Ice Chest No.: SAWS 109 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1L608		W	11-16-06	1209	1x20-mL P	Activity Scan	None
B1L608		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1L608		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1L608		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1L608		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2

JJ2NF

11-16-06

Relinquished By	Received By
Fluor Hanford D. E. PARCHEN (Print) (Sign) Date/Time 1510 NOV 16 2006	S. Smith (Print) S. Smith (Sign) Date/Time 1510 NOV 16 2006
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

111

PNNL U6R180144
W05066
Due 01-01-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-011-306**

Page 1 of 1

Collector Fluor Hanford D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-011	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, NOVEMBER 2006	HNF-N-506 4	**Ice Chest No.** SAW5-109 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1L607		W	11-16-06	1209	1x20-mL P	Activity Scan	None
B1L607		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1L607		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1L607		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1L607		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2

JJ2NN

11-16-06

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. E. PARCHEN			1510 NOV 16 2006				1510 NOV 16 2006
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

112

PNNL JGK180144
005066
due 01-01-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W07-011-300

Page 1 of 1

Collector Fluor Hanford D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-011	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, NOVEMBER 2006	HNF-N-506 4	**Ice Chest No.** 3405 109 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1L604		W	11-16-06	1325	1x20-mL P	Activity Scan	None
B1L604		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1L604		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1L604		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1L604		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						JJ2NP	
					11-16-06		

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. E. PARCHEN			1510 NOV 16 2006		S. Smith	S. Smith	1510 NOV 16 2006
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

113

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 11 16 06 1510

Client: PGW SDG #: W05066 NA [ ] SAF #: W07-011 NA [ ]

Work Order Number: J6K180144 Chain of Custody # W07-011-307, 306, 300

Shipping Container ID: _____ Air Bill # _____

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

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

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

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

6. Number of samples in shipping container: 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: 11-16-06 15:10

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL J6K180172
W05066
due 01-01-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-011-414**

Page 1 of 1

Collector Fluor Hanford	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-011 K. B. HULSE	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, NOVEMBER 2006	HNF-N-506 4	**Ice Chest No.** GRP-03-010 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.** N/A
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.** N/A

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1L638		W	10-17-06	1050	1x20-mL P	Activity Scan	None
B1L638		W	10-17-06	1050	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1L638		W	10-17-06	1050	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1L638		W	10-17-06	1050	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						J520N	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford K. B. HULSE			NOV 17 2006 1445		S. Smith	S. Smith	NOV 17 2006 1445
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

STT RICHLAND

115

PNNL J6R180172 W05066 Due 01-01-07

Fluor Hanford

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W07-011-420

Page 1 of 1

Collector: K. B. HULSE	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W07-011	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA NOVEMBER 2006	HNF-N-506 4	Ice Chest No.: GRP-03-010 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: RCRA	Priority: 45 Days	Offsite Property No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

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

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

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1L642		W	10-17-06	1157	1x20-mL P	Activity Scan	None
B1L642		W	10-17-06	1157	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1L642		W	10-17-06	1157	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1L642		W	10-17-06	1157	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1L642		W	10-17-06	1157	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1L642		W	10-17-06	1157	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						55210	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford K. B. HULSE			NOV 17 2006 1445		S. Smith	S. Smith	NOV 17 2006 1445
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

116

PNNL JGK180173
W05066
Due 01-01-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-011-360**

Page 1 of 1

Collector Fluor Hanford	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-011 K. B. HULSE	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, NOVEMBER 2006	HNF-N-506 4	**Ice Chest No.** GRP-03-010 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.** N/A
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.** N/A

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1L5X9		W	11-17-06	1248	1x20-mL P	Activity Scan	None
B1L5X9		W	11-17-06	1248	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1L5X9		W	11-17-06	1248	3x1000-mL G/P	GAMMA_GS: List-1 (10)	HNO3 to pH <2
						JJ2IN	

Relinquished By Fluor Hanford Print K. B. HULSE Sign	Date/Time NOV 17 2006 1445	Received By Print J. Smith Sign J. Smith	Date/Time NOV 17 2006 1445
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

117

PNNL U6K180172
W05766
Due 01-01-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-011-318**

Page 1 of 1

Collector Fluor Hanford R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-011	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, NOVEMBER 2006	HNF-N-506 2	**Ice Chest No.** Russ **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1L5V3		W	11-17-06	1210	1x20-mL P	Activity Scan	None
B1L5V3		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1L5V3		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1L5V3		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1L5V3		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2

JT21R

Relinquished By Fluor Hanford R. T. SICKLE Print Sign	Date/Time 1445 NOV 17 2006	Received By A. Smith Print S. Smith Sign	Date/Time 1445 NOV 17 2006
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

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

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 11-17-06 14:45

Client: PGW SDG #: WD5066 NA [ ] SAF #: W07-011 NA [ ]

Work Order Number: U6R180172 Chain of Custody # W07-011-414, 420, 360, 318

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): Samples B1L638 and B1L642 have incorrect sample dates - Bottles read 11-17-06 - 11-17-06 was entered into lot.

Sample Custodian: S. Smith Date: 11-17-06 14:45

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

12/14/2006 9:02:22 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: 235

AnalyDueDate: 01/01/2007 W05066

Batch: 6331310 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

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

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JJ2KD-1-AC J6K180129-1-SAMP 11/16/2006 10:24		97.20g,in AmtRec: 20ML,500ML,2XLP	#Containers: 4	1.5	54.9	100	10A	0819	12/27/06	Scr: Alpha: 7.40E-04 uCi/Sa Beta: -4.53E-04 uCi/Sa
2 JJ2KQ-1-AC J6K180129-2-SAMP 11/16/2006 11:34		81.20g,in AmtRec: 20ML,500ML,2XLP,4LP	#Containers: 5		52.5	100	10B			Scr: Alpha: 1.25E-03 uCi/Sa Beta: -1.71E-03 uCi/Sa
3 JJ2NF-1-AC J6K180144-1-SAMP 11/16/2006 12:09		68.90g,in AmtRec: 20ML,500ML,2XLP,4LP	#Containers: 5		51.1	200	10A	1152	12/27/06	Scr: Alpha: 8.33E-04 uCi/Sa Beta: -2.61E-04 uCi/Sa
4 JJ2NF-1-AG-X J6K180144-1-DUP 11/16/2006 12:09		71.50g,in AmtRec: 20ML,500ML,2XLP,4LP	#Containers: 5		54.7	100	10C	0819	12/27/06	Scr: Alpha: 8.33E-04 uCi/Sa Beta: -2.61E-04 uCi/Sa
5 JJ2NN-1-AC J6K180144-2-SAMP 11/16/2006 12:09		68.60g,in AmtRec: 20ML,500ML,2XLP,4LP	#Containers: 5		49.5	200	10B	1152		Scr: Alpha: 8.02E-04 uCi/Sa Beta: -7.96E-04 uCi/Sa
6 JJ2NP-1-AC J6K180144-3-SAMP 11/16/2006 13:25		117.80g,in AmtRec: 20ML,500ML,2XLP,4LP	#Containers: 5		44.1	100	10D	0819	12/27/06	Scr: Alpha: -2.84E-04 uCi/Sa Beta: 1.19E-03 uCi/Sa
7 JJ21D-1-AC J6K180172-2-SAMP 11/17/2006 11:57		156.60g,in AmtRec: 20ML,500ML,2XLP,3X4LP	#Containers: 7		45.4	100	10F			Scr: Alpha: 3.27E-03 uCi/Sa Beta: -4.10E-04 uCi/Sa

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STL RICHLAND

12/14/2006 9:02:23 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: 235

AnalyDueDate: 01/01/2007

Sep1 DT/Tm Tech:

Batch: 6331310 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JJ21N-1-AA J6K180172-3-SAMP 11/17/2006 12:48		55.10g,in AmtRec: 20ML,4XLP #Containers: 5		1.5	51.0	200	1C	1152	12/27/06	Scr: Alpha: 2.13E-03 uCi/Sa 3.4E-01L Beta: 1.70E-04 uCi/Sa
9 JJ21R-1-AC J6K180172-4-SAMP 11/17/2006 12:10		17.60g,in AmtRec: 20ML,500ML,2XLP,4LP #Containers: 5			53.1		1JD			Scr: Alpha: 1.46E-03 uCi/Sa Beta: -1.20E-03 uCi/Sa
10 JKDDE-1-AA-B J6K270000-310-BLK 11/16/2006 12:09		201.10g,in AmtRec: #Containers: 1			0.5		1JF			Scr: Alpha: Beta:
11 JKDDE-1-AC-C J6K270000-310-LCS 11/16/2006 12:09		200.70g,in AmtRec: #Containers: 1	asd4071 11/09/06,pd 02/09/06,r		0.7		10A	1905	12/27/06	Scr: Alpha: Beta:

Comments: pH < 2.0 @ 12-14-06

1% collodion added to ea. samp. 12/26/06 APA

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

JJ2KD1AC-SAMP Constituent List:
ALPHA RDL:3 pCi/L LCL: UCL: RPD:
JKDDE1AA-BLK:
ALPHA RDL:3 pCi/L LCL: UCL: RPD:
JKDDE1AC-LCS:
Am-241 RDL: pCi/L LCL:70 UCL:130 RPD:20
JJ2KD1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

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12/14/2006 9:02:24 AM

Sample Preparation/Analysis

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

Balance Id:1120482733
Pipet #: _____

AnalyDueDate: 01/01/2007

Sep1 DT/Tm Tech:

Batch: 6331310 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:

JKDDE1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JKDDE1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

STL RICHLAND

12/14/2006 8:41:01 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: 235

AnalyDueDate: 01/01/2007 W0050666

Sep1 DT/Tm Tech:

Batch: 6331312 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ / APA

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JJ1G6-1-AC J6K170331-4-SAMP 11/16/2006 10:15		120.90g,in AmtRec: 20ML,500ML,5XLP,4LP #Containers: 8		1.5	110.8	100	312	0747	12/07/06	Scr: Alpha: 1.36E-03 uCi/Sa Beta: -6.04E-04 uCi/Sa
2 JJ2KD-1-AD J6K180129-1-SAMP 11/16/2006 10:24		153.60g,in AmtRec: 20ML,500ML,2XLP #Containers: 4			99.5		313			Scr: Alpha: 1.40E-04 uCi/Sa Beta: -4.53E-04 uCi/Sa
3 JJ2KQ-1-AD J6K180129-2-SAMP 11/16/2006 11:34		128.50g,in AmtRec: 20ML,500ML,2XLP,4LP #Containers: 5			98.8		31C			Scr: Alpha: 1.25E-03 uCi/Sa Beta: -1.71E-03 uCi/Sa
4 JJ2NF-1-AD J6K180144-1-SAMP 11/16/2006 12:09		79.90g,in AmtRec: 20ML,500ML,2XLP,4LP #Containers: 5			97.1	200	28B	0927		Scr: Alpha: 8.33E-04 uCi/Sa Beta: -2.61E-04 uCi/Sa
5 JJ2NN-1-AD J6K180144-2-SAMP 11/16/2006 12:09		78.60g,in AmtRec: 20ML,500ML,2XLP,4LP #Containers: 5			12/26/06 APA ~~88.1~~ 97.1	200	28C			Scr: Alpha: 8.02E-04 uCi/Sa Beta: -7.96E-04 uCi/Sa
6 JJ2NN-1-AG-X J6K180144-2-DUP 11/16/2006 12:09		79.20g,in AmtRec: 20ML,500ML,2XLP,4LP #Containers: 5			12/26/06 APA ~~72.3~~ 88.1	200	28D			Scr: Alpha: 8.02E-04 uCi/Sa Beta: -7.96E-04 uCi/Sa
7 JJ2NP-1-AD J6K180144-3-SAMP 11/16/2006 13:25		144.30g,in AmtRec: 20ML,500ML,2XLP,4LP #Containers: 5			12/26/06 APA ~~82.4~~ 92.3	100	31A	0933	12/07/06	Scr: Alpha: -2.84E-04 uCi/Sa Beta: 1.19E-03 uCi/Sa

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

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STL RICHLAND

12/14/2006 8:41:05 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: _____

AnalyDueDate: 01/01/2007

Sep1 DT/Tm Tech:

Batch: 6331312 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JJ21D-1-AD J6K180172-2-SAMP 11/17/2006 11:57		171.20g,in AmtRec: 20ML,500ML,2XLP,3X4LP #Containers: 7		1.5	82.9	100	3XB	0933	10/27/06	
9 JJ21N-1-AC J6K180172-3-SAMP 11/17/2006 12:48		74.30g,in AmtRec: 20ML,4XLP #Containers: 5			96.1	200	3XC	0937	10/27/06	
10 JJ21R-1-AD J6K180172-4-SAMP 11/17/2006 12:10		19.10g,in AmtRec: 20ML,500ML,2XLP,4LP #Containers: 5			84.9	200	3XB			
11 JKDDK-1-AA-B J6K270000-312-BLK 11/16/2006 12:09		200.00g,in AmtRec: #Containers: 1			0.3	200	3XC			
12 JKDDK-1-AC-C J6K270000-312-LCS 11/16/2006 12:09		202.40g,in AmtRec: #Containers: 1	besb2964 11/21/06,pd 08/08/06,r		0.4	200	3XD			

Comments: pH < 2.0 JB 12-14-06

10% colloidion added to ea. samp. 12/26/06 IAPA

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

JJ1G61AC-SAMP Constituent List:
BETA RDL:4.00E+00 pCi/L LCL: UCL: RPD:

STL Richland Richland Wa.	Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added	Page 2	ISV - Insufficient Volume for Analysis	WO Cnt: 12 Prep_SamplePrep v4.8.26

12/14/2006 8:41:06 AM

Sample Preparation/Analysis

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

Balance Id:1120482733
Pipet #: _____

AnalyDueDate: 01/01/2007

Sep1 DT/Tm Tech:

Batch: 6331312 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:

```
JKDDK1AA-BLK:
  BETA        RDL:4          pCi/L     LCL:        UCL:        RPD:
JKDDK1AC-LCS:
  Sr-90       RDL:           pCi/L     LCL:70      UCL:130     RPD:20
JJ1G61AC-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JKDDK1AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JKDDK1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

STL RICHLAND

12/14/2006 10:42:34 AM

Sample Preparation/Analysis

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

Balance Id:1120482733
Pipet #:

AnalyDueDate: 01/01/2007

Sep1 DT/Tm Tech:

Batch: 6331330 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	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
5 JKDEX-1-AC-C		1002.10g,in	srsg1286	1.212			100				
J6K270000-330-LCS			10/04/06,pd					3"	0504	12/26/06	
			09/11/06,r	2.0089							
			YTA16637	0.6033				3f	0927	12/13/06	
			Ex:7/23/2007			232		3C	0909	12/31/06 r	

11/16/2006 09:30 AmtRec: #Containers: 1 Scr: Alpha: Beta:

Comments: BA LZ-0 QB 12-14-06

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

JJ1E81AC-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

JKDEX1AA-BLK:
Sr-85 RDL: pCi/L LCL:20 UCL:105 RPD:20 Sr-90 RDL:2 pCi/L LCL: UCL: RPD:

JKDEX1AC-LCS:
Sr-85 RDL: pCi/L LCL:20 UCL:105 RPD:20 Sr-90 RDL:2 pCi/L LCL:70 UCL:130 RPD:20

JJ1E81AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JKDEX1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JKDEX1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

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PGW WATER

STL RICHLAND

12/14/2006 9:41:27 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 12/29/2006 W05066

Sep1 DT/Tm Tech:

Batch: 6331313 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: BockJ / APA

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JJWM8-1-AC J6K160365-3-SAMP 11/15/2006 11:50		1999.10g,in AmtRec: 20ML,2X500ML,LP,4LP #Containers: 5			100mL	100	G4	1026	12/22/06 R	
								Scr: Alpha: 5.32E-03 uCi/Sa 2.0E-01L	Beta: -2.84E-04 uCi/Sa	
2 JJWM8-1-AF-X J6K160365-3-DUP 11/15/2006 11:50		1853.90g,in AmtRec: 20ML,2X500ML,LP,4LP #Containers: 5					G5	1027	12/22/06 R	
								Scr: Alpha: 5.32E-03 uCi/Sa 2.0E-01L	Beta: -2.84E-04 uCi/Sa	
3 JJWPA-1-AC J6K160365-4-SAMP 11/15/2006 11:50		2009.50g,in AmtRec: 20ML,2X500ML,LP,4LP #Containers: 5					G6	1027	12/22/06 R	
								Scr: Alpha: 5.23E-03 uCi/Sa 2.1E-01L	Beta: 4.27E-04 uCi/Sa	
4 JJ1FQ-1-AC J6K170331-2-SAMP 11/16/2006 11:30		2000.10g,in AmtRec: 20ML,500ML,7XLP,4LP #Containers: 10					G7	1028	12/22/06 R	
								Scr: Alpha: 1.73E-03 uCi/Sa	Beta: -1.68E-03 uCi/Sa	
5 JJ1G6-1-AD J6K170331-4-SAMP 11/16/2006 10:15		1999.40g,in AmtRec: 20ML,500ML,5XLP,4LP #Containers: 8					G8	1029	12/22/06 R	
								Scr: Alpha: 1.36E-03 uCi/Sa	Beta: -6.04E-04 uCi/Sa	
6 JJ2KQ-1-AE J6K180129-2-SAMP 11/16/2006 11:34		1999.80g,in AmtRec: 20ML,500ML,2XLP,4LP #Containers: 5					G10	1030	12/22/06 R	
								Scr: Alpha: 1.25E-03 uCi/Sa	Beta: -1.71E-03 uCi/Sa	
7 JJ2KR-1-AC J6K180129-3-SAMP 11/16/2006 13:36		2000.60g,in AmtRec: 20ML,2X500MLP,LP,4LP #Containers: 5					G12	1031	12/22/06 R	
								Scr: Alpha: 1.63E-03 uCi/Sa	Beta: -8.05E-04 uCi/Sa	

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STL RICHLAND

12/14/2006 9:41:29 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 12/29/2006

Batch: 6331313 **WATER** **pCi/L** **PM, Quote: SA , 57671**
SEQ Batch, Test: None

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JJ2NF-1-AE J6K180144-1-SAMP 11/16/2006 12:09		2007.70g,in AmtRec: 20ML,500ML,2XLP,4LP #Containers: 5			100mL	100	G13	1032	12/22/06 r Scr: Alpha: 8.33E-04 uCi/Sa	Beta: -2.61E-04 uCi/Sa
9 JJ2NN-1-AE J6K180144-2-SAMP 11/16/2006 12:09		2003.50g,in AmtRec: 20ML,500ML,2XLP,4LP #Containers: 5					G4	1225	12/22/06 R Scr: Alpha: 8.02E-04 uCi/Sa	Beta: -7.96E-04 uCi/Sa
10 JJ2NP-1-AE J6K180144-3-SAMP 11/16/2006 13:25		2002.10g,in AmtRec: 20ML,500ML,2XLP,4LP #Containers: 5					G5	1226	12/22/06 r Scr: Alpha: -2.84E-04 uCi/Sa	Beta: 1.19E-03 uCi/Sa
11 JJ21D-1-AE J6K180172-2-SAMP 11/17/2006 11:57		2000.90g,in AmtRec: 20ML,500ML,2XLP,3X4LP #Containers: 7					G6	1230	12/22/06 r Scr: Alpha: 3.27E-03 uCi/Sa	Beta: -4.10E-04 uCi/Sa
12 JJ21R-1-AE J6K180172-4-SAMP 11/17/2006 12:10		2001.80g,in AmtRec: 20ML,500ML,2XLP,4LP #Containers: 5					G8	1230	12/22/06 r Scr: Alpha: 1.46E-03 uCi/Sa	Beta: -1.20E-03 uCi/Sa
13 JKDDW-1-AA-B J6K270000-313-BLK 11/15/2006 11:50		2005.10g,in AmtRec: #Containers: 1					G10	1231	12/22/06 r Scr: Alpha:	Beta:
14 JKDDW-1-AC-C J6K270000-313-LCS 11/15/2006 11:50		2002.50g,in AmtRec: #Containers: 1	QCAG1306 11/07/06,pd 06/14/05,r				G7	1232	12/22/06 r Scr: Alpha:	Beta:

STL Richland Richland Wa.

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

ISV - Insufficient Volume for Analysis

WO Cnt: 14

Prep_SamplePrep v4.8.26

STL RICHLAND

12/14/2006 9:41:30 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 12/29/2006

Sep1 DT/Tm Tech:

Batch: 6331313 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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

Comments: JJWM8-SAMP "Comments Dup. not full 2,000 ml. aliquot due to insuffiecient sample. JB 12/14/06"

pH < 2.0 SG 12-14-06

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

JJWM81AC-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:

JKDDW1AA-BLK:

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

JKDDW1AC-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						

JJWM81AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JKDDW1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JKDDW1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

STL RICHLAND

12/19/2006 8:26:12 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 01/01/2007 W05dde

Sep1 DT/Tm Tech:

Batch: 6331327 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: BockJ / APA

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JJ21N-1-AD J6K180172-3-SAMP 11/17/2006 12:48		2500.70g,in AmtRec: 20ML,4XLP			100mL	100	G7 12/26/06	2232	12/26/06	
		#Containers: 5						Scr: Alpha: 2.13E-03 uCi/Sa 3.4E-01L		Beta: 1.70E-04 uCi/Sa
2 JJ21N-1-AE-X J6K180172-3-DUP 11/17/2006 12:48		AmtRec: 20ML,4XLP					G6	2041		
		#Containers: 5						Scr: Alpha: 2.13E-03 uCi/Sa 3.4E-01L		Beta: 1.70E-04 uCi/Sa
3 JKDEQ-1-AA-B J6K270000-327-BLK 11/17/2006 12:48		2500.20g,in AmtRec:					G6	2232		
		#Containers: 1						Scr: Alpha:		Beta:
4 JKDEQ-1-AC-C J6K270000-327-LCS 11/17/2006 12:48		2500.30g,in AmtRec:	QCAG1308 11/07/06,pd 06/14/05,r				G7	2041		
		#Containers: 1						Scr: Alpha:		Beta:

SEE COMMENTS

Comments: JJ21N-SAMP "Comments. Dup. not poured up due to insuffiecient sample amount. JB 12/19/06"

pH < 2.0 JB 12-19-06

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

JJ21N1AD-SAMP Constituent List:

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

JKDEQ1AA-BLK:

12/19/2006 8:26:13 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 01/01/2007

Sep1 DT/Tm Tech:

Batch: 6331327 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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

Co-60	RDL:2.50E+01	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:
Cs-137	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:	Cs-137DA	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:
Eu-152	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	Eu-154	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:
Eu-155	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
Sb-125	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:						
JKDEQ1AC-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						

JJ21N1AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JKDEQ1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JKDEQ1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

PGW I 129

STL RICHLAND

12/20/2006 1:35:05 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:2113224201
Pipet #: _____

AnalyDueDate: 01/01/2007

Sep1 DT/Tm Tech:

Batch: 6331328 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BostedD

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 JJ2M5-1-AA J6K180140-1-SAMP 11/16/2006 13:36	AmtRec: 20ML,2X4LP #Containers: 3	3853.40g,in	ITA5804 11/10/06		35.4	100	L4	2010	12/22/06 R Scr: Alpha: 2.94E-03 uCi/Sa Beta: -7.93E-04 uCi/Sa	
2 JJ2M5-1-AC-X J6K180140-1-DUP 11/16/2006 13:36	AmtRec: 20ML,2X4LP #Containers: 3	3852.00g,in	ITA5805 11/10/06		37.1		L5	2011	Scr: Alpha: 2.94E-03 uCi/Sa Beta: -7.93E-04 uCi/Sa	
3 JJ20N-1-AC J6K180172-1-SAMP 11/17/2006 10:50	AmtRec: 20ML,500ML,LP,2X4LP #Containers: 5	3860.60g,in	ITA5806 11/10/06		36.5		L2	2014	Scr: Alpha: 6.21E-04 uCi/Sa Beta: 5.14E-04 uCi/Sa	
4 JJ21D-1-AF J6K180172-2-SAMP 11/17/2006 11:57	AmtRec: 20ML,500ML,2XLP,3X4LP #Containers: 7	3820.40g,in	ITA5807 11/10/06		36.3		L2	1123	12/23/06 R Scr: Alpha: 3.27E-03 uCi/Sa Beta: -4.10E-04 uCi/Sa	
5 JKDET-1-AA-B J6K270000-328-BLK 11/16/2006 13:36	AmtRec: #Containers: 1	3906.00g,in	ITA5812 11/10/06		36.5		L4	1124	12/23/06 R Scr: Alpha: Beta:	
6 JKDET-1-AC-C J6K270000-328-LCS 11/16/2006 13:36	AmtRec: #Containers: 1	3797.60g,in	ISD0714 12/14/06,pd 11/17/04,r		34.3		L5	1125	12/23/06 R 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: 6
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4.8.26

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12/20/2006 1:35:07 PM

Sample Preparation/Analysis

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

Balance Id:2113224201
Pipet #: _____

AnalyDueDate: 01/01/2007

Sep1 DT/Tm Tech:

Batch: 6331328 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BostedD

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

Comments:

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

JJ2M51AA-SAMP Constituent List:

I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:
JKDET1AA-BLK:					
I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:
JKDET1AC-LCS:					
I-129	RDL:5	pCi/L	LCL:70	UCL:130	RPD:20

JJ2M51AA-SAMP Calc Info:

Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
JKDET1AA-BLK:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
JKDET1AC-LCS:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B

Approved By _____ Date: _____

STL RICHLAND

STL RICHLAND

12/14/2006 11:08:41 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: _____

AnalyDueDate: 12/29/2006 W050066

Sep1 DT/Tm Tech:

Batch: 6331276 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JJWMX-1-AC J6K160365-2-SAMP 11/15/2006 12:38			127.30g,in	127.30g		60				
			AmtRec: 20ML,2X500ML,LP	#Containers: 4				Scr:	Alpha: 3.40E-04 uCi/Sa	Beta: -1.42E-04 uCi/Sa
2 JJWM8-1-AD J6K160365-3-SAMP 11/15/2006 11:50			126.40g,in	126.40g						
			AmtRec: 20ML,2X500ML,LP,4LP	#Containers: 5				Scr:	Alpha: 5.32E-03 uCi/Sa 2.0E-01L	Beta: -2.84E-04 uCi/Sa
3 JJWPA-1-AD J6K160365-4-SAMP 11/15/2006 11:50			126.00g,in	126.00g						
			AmtRec: 20ML,2X500ML,LP,4LP	#Containers: 5				Scr:	Alpha: 5.23E-03 uCi/Sa 2.1E-01L	Beta: 4.27E-04 uCi/Sa
4 JJ2KD-1-AE J6K180129-1-SAMP 11/16/2006 10:24			126.80g,in	126.80g						
			AmtRec: 20ML,500ML,2XLP	#Containers: 4				Scr:	Alpha: 1.40E-04 uCi/Sa	Beta: -4.53E-04 uCi/Sa
5 JJ2KQ-1-AF J6K180129-2-SAMP 11/16/2006 11:34			124.90g,in	124.90g						
			AmtRec: 20ML,500ML,2XLP,4LP	#Containers: 5				Scr:	Alpha: 1.25E-03 uCi/Sa	Beta: -1.71E-03 uCi/Sa
6 JJ2KR-1-AD J6K180129-3-SAMP 11/16/2006 13:36			126.20g,in	126.20g						
			AmtRec: 20ML,2X500MLP,LP,4LP	#Containers: 5				Scr:	Alpha: 1.63E-03 uCi/Sa	Beta: -8.05E-04 uCi/Sa
7 JJ2NF-1-AF J6K180144-1-SAMP 11/16/2006 12:09			125.50g,in	125.50g						
			AmtRec: 20ML,500ML,2XLP,4LP	#Containers: 5				Scr:	Alpha: 8.33E-04 uCi/Sa	Beta: -2.61E-04 uCi/Sa

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

STL RICHLAND

12/14/2006 11:08:43 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: _____

AnalyDueDate: 12/29/2006

Sep1 DT/Tm Tech:

Batch: 6331276 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JJ2NN-1-AF J6K180144-2-SAMP 11/16/2006 12:09			126.40g,in	126.40g		60				
		AmtRec: 20ML,500ML,2XLP,4LP	#Containers: 5					Scr:	Alpha: 8.02E-04 uCi/Sa	Beta: -7.96E-04 uCi/Sa
9 JJ2NP-1-AF J6K180144-3-SAMP 11/16/2006 13:25			125.10g,in	125.10g						
		AmtRec: 20ML,500ML,2XLP,4LP	#Containers: 5					Scr:	Alpha: -2.84E-04 uCi/Sa	Beta: 1.19E-03 uCi/Sa
10 JJ20N-1-AD J6K180172-1-SAMP 11/17/2006 10:50			127.50g,in	127.50g						
		AmtRec: 20ML,500ML,LP,2X4LP	#Containers: 5					Scr:	Alpha: 6.21E-04 uCi/Sa	Beta: 5.14E-04 uCi/Sa
11 JJ20N-1-AE-X J6K180172-1-DUP 11/17/2006 10:50			126.80g,in	126.80g						
		AmtRec: 20ML,500ML,LP,2X4LP	#Containers: 5					Scr:	Alpha: 6.21E-04 uCi/Sa	Beta: 5.14E-04 uCi/Sa
12 JJ21D-1-AG J6K180172-2-SAMP 11/17/2006 11:57			125.90g,in	125.90g						
		AmtRec: 20ML,500ML,2XLP,3X4LP	#Containers: 7					Scr:	Alpha: 3.27E-03 uCi/Sa	Beta: -4.10E-04 uCi/Sa
13 JJ21D-1-AH-S J6K180172-2-MS 11/17/2006 11:57			125.30g,in	125.30g	tcsg1722 12/06/06,pd 01/10/06,r					
		AmtRec: 20ML,500ML,2XLP,3X4LP	#Containers: 7					Scr:	Alpha: 3.27E-03 uCi/Sa	Beta: -4.10E-04 uCi/Sa
14 JJ21R-1-AF J6K180172-4-SAMP 11/17/2006 12:10			125.40g,in	125.40g		60				
		AmtRec: 20ML,500ML,2XLP,4LP	#Containers: 5					Scr:	Alpha: 1.46E-03 uCi/Sa	Beta: -1.20E-03 uCi/Sa

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STL RICHLAND

12/14/2006 11:08:44 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 12/29/2006

Batch: 6331276 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:
15 JKC9J-1-AA-B J6K270000-276-BLK 11/17/2006 10:50			126.50g,in	126.50g		60				
		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:
16 JKC9J-1-AC-C J6K270000-276-LCS 11/17/2006 10:50			126.30g,in	126.30g	tcse2034 12/06/06,pd 01/10/06,r					
		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:
17 JKC9J-1-AD-BN J6K270000-276-IBLK 11/17/2006 10:50										
		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:
18 JKC9J-1-AE-BN J6K270000-276-IBLK 11/17/2006 10:50										
		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:

Comments: JJWM8-SAMP Comments

pH < 2.0 JB 12-14-06

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

JJWMX1AC-SAMP Constituent List:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
JJ21D1AH-MS:

JKC9J1AA-BLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
JKC9J1AC-LCS:

12/14/2006 11:08:45 AM

Sample Preparation/Analysis

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

AnalyDueDate: 12/29/2006

Batch: 6331276 pCi/L
SEQ Batch, Test: None

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

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

```
 Tc-99        RDL:15          pCi/L     LCL:70      UCL:130     RPD:20
JKC9J1AD-IBLK:
 Tc-99        RDL:15          pCi/L     LCL:        UCL:        RPD:
JKC9J1AE-IBLK:
 Tc-99        RDL:15          pCi/L     LCL:        UCL:        RPD:
JJWMX1AC-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JJ21D1AH-MS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JKC9J1AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JKC9J1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JKC9J1AD-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JKC9J1AE-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

12/14/2006 11:31:25 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

AM Tc-99 Prp/SepRC5078
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

Balance Id:1120482733
Pipet #:

AnalyDueDate: 12/29/2006 W05066

Sep1 DT/Tm Tech:

Batch: 6331277 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 6331276 FPS5, 6331277 AMS5, 6331278 DHSS, 6331279 ARS6, 6331313 AWTA,

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 JJWMT-1-AC J6K160365-1-SAMP 11/15/2006 10:18		126.10g,in AmtRec: 20ML,500ML,4XLP	#Containers: 6	60		Scr:	Alpha: 1.99E-05 uCi/Sa	Beta: 4.76E-04 uCi/Sa
2 JJWPH-1-AC J6K160365-5-SAMP 11/15/2006 10:55		127.20g,in AmtRec: 20ML,500ML,4XLP	#Containers: 6			Scr:	Alpha: -8.55E-04 uCi/Sa	Beta: 1.38E-03 uCi/Sa
3 JJ1E8-1-AD J6K170331-1-SAMP 11/16/2006 09:30		124.90g,in AmtRec: 20ML,500ML,7XLP	#Containers: 9			Scr:	Alpha: 8.11E-04 uCi/Sa	Beta: -2.12E-04 uCi/Sa
4 JJ1E8-1-AF-X J6K170331-1-DUP 11/16/2006 09:30		127.50g,in AmtRec: 20ML,500ML,7XLP	#Containers: 9			Scr:	Alpha: 8.11E-04 uCi/Sa	Beta: -2.12E-04 uCi/Sa
5 JJ1FQ-1-AE J6K170331-2-SAMP 11/16/2006 11:30		126.40g,in AmtRec: 20ML,500ML,7XLP,4LP	#Containers: 10			Scr:	Alpha: 1.73E-03 uCi/Sa	Beta: -1.68E-03 uCi/Sa
6 JJ1FQ-1-AJ-S J6K170331-2-MS 11/16/2006 11:30		126.80g,in AmtRec: 20ML,500ML,7XLP,4LP	tcsg1726 12/06/06,pd 01/10/06,r #Containers: 10			Scr:	Alpha: 1.73E-03 uCi/Sa	Beta: -1.68E-03 uCi/Sa
7 JJ1G1-1-AC J6K170331-3-SAMP 11/16/2006 12:38		125.00g,in AmtRec: 20ML,500ML,4XLP	#Containers: 6			Scr:	Alpha: 1.65E-04 uCi/Sa	Beta: -7.62E-04 uCi/Sa

STL RICHLAND

12/14/2006 11:31:25 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AM Tc-99 Prp/SepRC5078
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

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

AnalyDueDate: 12/29/2006

Batch: 6331277 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

STL RICHLAND

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 JJ1G6-1-AE J6K170331-4-SAMP 11/16/2006 10:15		127.10g,in AmtRec: 20ML,500ML,5XLP,4LP	#Containers: 8	60		Scr:	Alpha: 1.36E-03 uCi/Sa	Beta: -6.04E-04 uCi/Sa
9 JKC9M-1-AA-B J6K270000-277-BLK 11/16/2006 09:30		126.10g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
10 JKC9M-1-AC-C J6K270000-277-LCS 11/16/2006 09:30		127.30g,in AmtRec:	tcse2035 12/06/06,pd 01/10/06,r #Containers: 1			Scr:	Alpha:	Beta:
11 JKC9M-1-AD-BN J6K270000-277-IBLK 11/16/2006 09:30		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments: pH < 2-0 QS 12-14-06

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

JJWMT1AC-SAMP Constituent List:

Tc-99	RDL:1.50E+01	pCi/L	LCL:70	UCL:130	RPD:20

JJ1FQ1AJ-MS:

JKC9M1AA-BLK:

Tc-99	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:

JKC9M1AC-LCS:

Tc-99	RDL:15	pCi/L	LCL:70	UCL:130	RPD:20

Sample Preparation/Analysis

AM Tc-99 Prp/SepRC5078
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

AnalyDueDate: 12/29/2006

Batch: 6331277 pCi/L
SEQ Batch, Test: None

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

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

```
JKC9M1AD-IBLK:
  Tc-99        RDL:1.50E+01    pCi/L     LCL:        UCL:        RPD:
JJWMT1AC-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JJ1FQ1AJ-MS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JKC9M1AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JKC9M1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JKC9M1AD-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

STL RICHLAND

STL RICHLAND

11/27/2006 1:26:17 PM

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 12/29/2006 W5006

Batch: 6331279 WATER pCi/L

SEQ Batch, Test: None

Sample Preparation/Analysis

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

PM, Quote: SA , 57671

Balance Id: 12445

Pipet #:

Sep1 DT/Tm Tech: 1213-Fe Dm

Sep2 DT/Tm Tech:

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JJWMT-1-AA J6K160365-1-SAMP 11/15/2006 10:18	AmtRec: 20ML,500ML,4XLP	#Containers: 6				Scr:	Alpha:	Beta:
2 JJWMT-1-AE-X J6K160365-1-DUP 11/15/2006 10:18	AmtRec: 20ML,500ML,4XLP	#Containers: 6				Scr:	Alpha:	Beta:
3 JJWMX-1-AA J6K160365-2-SAMP 11/15/2006 12:38	AmtRec: 20ML,2X500ML,LP	#Containers: 4				Scr:	Alpha:	Beta:
4 JJWM8-1-AA J6K160365-3-SAMP 11/15/2006 11:50	AmtRec: 20ML,2X500ML,LP,4LP	#Containers: 5				Scr:	Alpha:	Beta:
5 JJWPA-1-AA J6K160365-4-SAMP 11/15/2006 11:50	AmtRec: 20ML,2X500ML,LP,4LP	#Containers: 5				Scr:	Alpha:	Beta:
6 JJWPH-1-AA J6K160365-5-SAMP 11/15/2006 10:55	AmtRec: 20ML,500ML,4XLP	#Containers: 6				Scr:	Alpha:	Beta:
7 JJ1E8-1-AA J6K170331-1-SAMP 11/16/2006 09:30	AmtRec: 20ML,500ML,7XLP	#Containers: 9				Scr:	Alpha:	Beta:

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STL RICHLAND

11/27/2006 1:26:18 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 12/29/2006

Batch: 6331279 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

Balance Id: 17445
Pipet #:
Sep1 DT/Tm Tech: 12-12-06 Dm
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JJ1FQ-1-AA J6K170331-2-SAMP 11/16/2006 11:30	AmtRec: 20ML,500ML,7XLP,4LP	#Containers: 10				Scr:	Alpha:	Beta:
9 JJ1G1-1-AA J6K170331-3-SAMP 11/16/2006 12:38	AmtRec: 20ML,500ML,4XLP	#Containers: 6				Scr:	Alpha:	Beta:
10 JJ1G6-1-AA J6K170331-4-SAMP 11/16/2006 10:15	AmtRec: 20ML,500ML,5XLP,4LP	#Containers: 8				Scr:	Alpha:	Beta:
11 JJ2KD-1-AA J6K180129-1-SAMP 11/16/2006 10:24	AmtRec: 20ML,500ML,2XLP	#Containers: 4				Scr:	Alpha:	Beta:
12 JJ2KQ-1-AA J6K180129-2-SAMP 11/16/2006 11:34	AmtRec: 20ML,500ML,2XLP,4LP	#Containers: 5				Scr:	Alpha:	Beta:
13 JJ2KR-1-AA J6K180129-3-SAMP 11/16/2006 13:36	AmtRec: 20ML,2X500MLP,LP,4LP	#Containers: 5				Scr:	Alpha:	Beta:
14 JJ2NF-1-AA J6K180144-1-SAMP 11/16/2006 12:09	AmtRec: 20ML,500ML,2XLP,4LP	#Containers: 5				Scr:	Alpha:	Beta:

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STL RICHLAND

11/27/2006 1:26:18 PM

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

AnalyDueDate: 12/29/2006

Batch: 6331279 WATER pCi/L
SEQ Batch, Test: None

Sample Preparation/Analysis

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

PM, Quote: SA , 57671

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 12 12 [illegible]
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 JJ2NN-1-AA J6K180144-2-SAMP 11/16/2006 12:09	AmtRec: 20ML,500ML,2XLP,4LP	#Containers: 5				Scr:	Alpha:	Beta:
16 JJ2NP-1-AA J6K180144-3-SAMP 11/16/2006 13:25	AmtRec: 20ML,500ML,2XLP,4LP	#Containers: 5				Scr:	Alpha:	Beta:
17 JJ20N-1-AA J6K180172-1-SAMP 11/17/2006 10:50	AmtRec: 20ML,500ML,LP,2X4LP	#Containers: 5				Scr:	Alpha:	Beta:
18 JJ21D-1-AA J6K180172-2-SAMP 11/17/2006 11:57	AmtRec: 20ML,500ML,2XLP,3X4LP	#Containers: 7				Scr:	Alpha:	Beta:
19 JJ21R-1-AA J6K180172-4-SAMP 11/17/2006 12:10	AmtRec: 20ML,500ML,2XLP,4LP	#Containers: 5				Scr:	Alpha:	Beta:
20 JKC91-1-AA-B J6K270000-279-BLK 11/15/2006 10:18	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
21 JKC91-1-AC-C J6K270000-279-LCS 11/15/2006 10:18	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

STL RICHLAND

11/27/2006 1:26:19 PM

Sample Preparation/Analysis

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

AnalyDueDate: 12/29/2006

Batch: 6331279 pCi/L
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 12-12-06 Dm
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
22 JKC91-1-AD-BX J6K270000-279-MBLK 11/15/2006 10:18		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
23 JKC91-1-AE-CM J6K270000-279-MLCS 11/15/2006 10:18		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
24 JKC91-1-AF-BN J6K270000-279-IBLK 11/15/2006 10:18		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
25 JKC91-1-AG-BN J6K270000-279-IBLK 11/15/2006 10:18		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
26 JKC91-1-AH-BN J6K270000-279-IBLK 11/15/2006 10:18		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
27 JKC91-1-AJ-BN J6K270000-279-IBLK 11/15/2006 10:18		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

STL RICHLAND

11/27/2006 1:26:21 PM

Sample Preparation/Analysis

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

AnalyDueDate: 12/29/2006

Batch: 6331279
SEQ Batch, Test: None

pCi/L

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 12-12-06 DH
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:

Comments:

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

JJWMT1AA-SAMP Constituent List:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
JKC911AA-BLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
JKC911AC-LCS:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
JKC911AD-MBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
JKC911AE-MLCS:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
JKC911AF-IBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
JKC911AG-IBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
JKC911AH-IBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
JKC911AJ-IBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:

JJWMT1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JKC911AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JKC911AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JKC911AD-MBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JKC911AE-MLCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JKC911AF-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JKC911AG-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

STL RICHLAND

11/27/2006 1:26:21 PM

Sample Preparation/Analysis

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

Balance Id: 1244s
Pipet #:
Sep1 DT/Tm Tech: 12-12-06 am
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 12/29/2006

Batch: 6331279 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:

JKC911AH-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JKC911AJ-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

STL RICHLAND

12/18/2006 1:08:28 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 12/29/2006 | 12/5/06

Sep1 DT/Tm Tech:

Batch: 6331278 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 JJWMT-1-AD J6K160365-1-SAMP 11/15/2006 10:18		25.30g,in AmtRec: 20ML,500ML,4XLP	#Containers: 6				Scr: Alpha: 1.99E-05 uCi/Sa	Beta: 4.76E-04 uCi/Sa
2 JJWMX-1-AD J6K160365-2-SAMP 11/15/2006 12:38		26.80g,in AmtRec: 20ML,2X500ML,LP	#Containers: 4				Scr: Alpha: 3.40E-04 uCi/Sa	Beta: -1.42E-04 uCi/Sa
3 JJWM8-1-AE J6K160365-3-SAMP 11/15/2006 11:50		25.30g,in AmtRec: 20ML,2X500ML,LP,4LP	#Containers: 5				Scr: Alpha: 5.32E-03 uCi/Sa 2.0E-01L	Beta: -2.84E-04 uCi/Sa
4 JJWPA-1-AE J6K160365-4-SAMP 11/15/2006 11:50		25.40g,in AmtRec: 20ML,2X500ML,LP,4LP	#Containers: 5				Scr: Alpha: 5.23E-03 uCi/Sa 2.1E-01L	Beta: 4.27E-04 uCi/Sa
5 JJWPH-1-AD J6K160365-5-SAMP 11/15/2006 10:55		25.20g,in AmtRec: 20ML,500ML,4XLP	#Containers: 6				Scr: Alpha: -8.55E-04 uCi/Sa	Beta: 1.38E-03 uCi/Sa
6 JJ1E8-1-AE J6K170331-1-SAMP 11/16/2006 09:30		26.00g,in AmtRec: 20ML,500ML,7XLP	#Containers: 9				Scr: Alpha: 8.11E-04 uCi/Sa	Beta: -2.12E-04 uCi/Sa
7 JJ1E8-1-AG-X J6K170331-1-DUP 11/16/2006 09:30		25.30g,in AmtRec: 20ML,500ML,7XLP	#Containers: 9				Scr: Alpha: 8.11E-04 uCi/Sa	Beta: -2.12E-04 uCi/Sa

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STL RICHLAND

12/18/2006 1:08:30 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 12/29/2006

Sep1 DT/Tm Tech:

Batch: 6331278 WATER ug/L PM, Quote: SA , 57671

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: AndersonP,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 JJ1FQ-1-AF J6K170331-2-SAMP 11/16/2006 11:30		25.20g,in AmtRec: 20ML,500ML,7XLP,4LP	#Containers: 10			Scr:	Alpha: 1.73E-03 uCi/Sa	Beta: -1.68E-03 uCi/Sa
9 JJ1FQ-1-AH-S J6K170331-2-MS 11/16/2006 11:30		25.80g,in AmtRec: 20ML,500ML,7XLP,4LP	unsf3487 12/14/06,pd 03/22/05,r #Containers: 10			Scr:	Alpha: 1.73E-03 uCi/Sa	Beta: -1.68E-03 uCi/Sa
10 JJ1G1-1-AD J6K170331-3-SAMP 11/16/2006 12:38		25.10g,in AmtRec: 20ML,500ML,4XLP	#Containers: 6			Scr:	Alpha: 1.65E-04 uCi/Sa	Beta: -7.62E-04 uCi/Sa
11 JJ1G6-1-AF J6K170331-4-SAMP 11/16/2006 10:15		25.40g,in AmtRec: 20ML,500ML,5XLP,4LP	#Containers: 8			Scr:	Alpha: 1.36E-03 uCi/Sa	Beta: -6.04E-04 uCi/Sa
12 JJ2KR-1-AE J6K180129-3-SAMP 11/16/2006 13:36		26.10g,in AmtRec: 20ML,2X500MLP,LP,4LP	#Containers: 5			Scr:	Alpha: 1.63E-03 uCi/Sa	Beta: -8.05E-04 uCi/Sa
13 JKC90-1-AA-B J6K270000-278-BLK 11/16/2006 09:30		25.20g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
14 JKC90-1-AC-C J6K270000-278-LCS 11/16/2006 09:30		25.40g,in AmtRec:	unsf3488 12/14/06,pd 03/22/05,r #Containers: 1			Scr:	Alpha:	Beta:

STL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 2 ISV - Insufficient Volume for Analysis WO Cnt: 14

Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4.8.26

STL RICHLAND

12/18/2006 1:08:31 PM

Sample Preparation/Analysis

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

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

AnalyDueDate: 12/29/2006

Batch: 6331278 ug/L
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 JKC90-1-AD-C J6K270000-278-LCS 11/16/2006 09:30		25.90g,in AmtRec:	unsc1433 12/05/06,pd 04/28/06,r #Containers: 1			Scr:	Alpha:	Beta:

Comments: JJWM8-SAMP Comments

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

JJWMT1AD-SAMP Constituent List:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
JJ1FQ1AH-MS:

JKC901AA-BLK:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
JKC901AC-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20
JKC901AD-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20

JJWMT1AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JJ1FQ1AH-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JKC901AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JKC901AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JKC901AD-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

STL RICHLAND

1/3/2007 8:03:30 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 01/01/2007 WO 50606

Sep1 DT/Tm Tech:

Batch: 7002408 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 JJ1E8-2-AE J6K170331-1-SAMP 11/16/2006 09:30		25.10g,in AmtRec: 20ML,500ML,7XLP	#Containers: 9			Scr:	Alpha: 8.11E-04 uCi/Sa	Beta: -2.12E-04 uCi/Sa
2 JJ1E8-2-AG-X J6K170331-1-DUP 11/16/2006 09:30		25.60g,in AmtRec: 20ML,500ML,7XLP	#Containers: 9			Scr:	Alpha: 8.11E-04 uCi/Sa	Beta: -2.12E-04 uCi/Sa
3 JMA9R-1-AA-B J7A020000-408-BLK 11/16/2006 09:30		25.50g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
4 JMA9R-1-AC-C J7A020000-408-LCS 11/16/2006 09:30		25.20g,in AmtRec:	UNSF3511 12/18/06,pd 03/22/05,r #Containers: 1			Scr:	Alpha:	Beta:
5 JMA9R-1-AD-C J7A020000-408-LCS 11/16/2006 09:30		25.40g,in AmtRec:	UNSC1446 12/05/06,pd 04/28/06,r #Containers: 1			Scr:	Alpha:	Beta:

Comments: pH <2.0 JB 1-3-07

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

JJ1E82AE-SAMP Constituent List:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:

12/28/2006 10:10:23 AM

ICOC Fraction Transfer/Status Report

ByDate: 12/28/2005, 1/2/2007, Batch: '6331310', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
6331310							
AC			CalcC	BockJ	12/14/2006 8:55:30		
SC				wagarr	IsBatched	11/27/2006 1:29:23 PM	ICOC_RADCALC v4.8.24
SC				BockJ	InPrep	12/14/2006 8:55:30 AM	rich-rc-5014 rEVISION 6
SC				BockJ	Prep1C	12/14/2006 9:02:11 AM	RICH-RC-5014 REVISION 6
SC				AshworthA	InPrep2	12/19/2006 10:28:11 AM	RICH-RC-5014 REVISION 6
SC				AshworthA	Prep2C	12/26/2006 8:16:13 PM	RICH-RC-5014 REVISION 6
SC				DAWKINSO	InCnt1	12/26/2006 8:31:05 PM	RICH-RD-0003 REVISION 4
SC				DAWKINSO	CalcC	12/27/2006 7:43:10 PM	RICH-RD-0003 REVISION 4
AC				BockJ	12/14/2006 9:02:11		
AC				AshworthA	12/19/2006 10:28:11		
AC				AshworthA	12/26/2006 8:16:13		
AC				DAWKINSO	12/26/2006 8:31:05		
AC				DAWKINSO	12/27/2006 7:43:10		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.26

12/28/2006 10:13:03 AM

ICOC Fraction Transfer/Status Report

ByDate: 12/28/2005, 1/2/2007, Batch: '6331312', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6331312						
AC		CalcC	BockJ	12/14/2006 8:31:11		
SC			wagarr	IsBatched	11/27/2006 1:29:23 PM	ICOC_RADCALC v4.8.24
SC			BockJ	InPrep	12/14/2006 8:31:11 AM	rich-rc-5014 rEVISION 6
SC			BockJ	Prep1C	12/14/2006 8:40:53 AM	RICH-RC-5014 REVISION 6
SC			AshworthA	InPrep2	12/19/2006 10:21:16 AM	RICH-RC-5014 REVISION 6
SC			AshworthA	Prep2C	12/26/2006 8:16:21 PM	RICH-RC-5014 REVISION 6
SC			DAWKINSO	InCnt1	12/26/2006 8:31:14 PM	RICH-RD-0003 REVISION 4
SC			DAWKINSO	InCnt1	12/27/2006 1:59:38 PM	RICH-RD-0003 REVISION 4
SC			DAWKINSO	CalcC	12/27/2006 6:22:09 PM	RICH-RD-0003 REVISION 4
AC			BockJ	12/14/2006 8:40:53		
AC			AshworthA	12/19/2006 10:21:16		
AC			AshworthA	12/26/2006 8:16:21		
AC			DAWKINSO	12/26/2006 8:31:14		
AC			DAWKINSO	12/27/2006 1:59:38		
AC			DAWKINSO	12/27/2006 6:22:09		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt:7

ICOCFractions v4.8.26

1/2/2007 10:47:38 AM

ICOC Fraction Transfer/Status Report

ByDate: 1/2/2006, 1/7/2007, Batch: '6331330', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6331330						
AC		CalcC	ManisD	12/14/2006 1:11:54		
SC			wagarr	IsBatched	11/27/2006 1:29:23 PM	ICOC_RADCALC v4.8.24
SC			ManisD	InSep1	12/14/2006 1:11:54 AM	
SC			ManisD	InSep1	12/14/2006 1:11:54 AM	RICH-RC-5006 REV 6
SC			BockJ	InPrep	12/14/2006 10:32:45 AM	rich-rc-5014 rEVISION 6
SC			BockJ	Prep1C	12/14/2006 10:42:40 AM	RICH-RC-5016 REVISION 6
SC			ManisD	Sep1C	12/19/2006 3:31:46 PM	RICH-RC-5006 REV 6
SC			DAWKINSO	InCnt1	12/19/2006 3:37:43 PM	RICH-RD-0007 REVISION 5
SC			StringerR	Cnt1C	12/20/2006 7:15:21 AM	RICH-RD-0007 REVISION 5
SC			FABREM	Sep2C	12/29/2006 6:20:06 PM	RICH-RC-5071 REVISION 4
SC			DAWKINSO	InCnt2	12/29/2006 6:37:06 PM	RICH-RD-0003 REVISION 4
SC			StringerR	CalcC	12/31/2006 9:56:07 AM	RICH-RD-0003 REVISION 4
AC			BockJ	12/14/2006 10:32:45		
AC			BockJ	12/14/2006 10:42:40		
AC			BockJ	12/14/2006 10:42:55		
AC			ManisD	12/19/2006 3:31:46		
AC			DAWKINSO	12/19/2006 3:37:43		
AC			StringerR	12/20/2006 7:15:21		
AC			FABREM	12/29/2006 6:20:06		
AC			DAWKINSO	12/29/2006 6:37:06		
AC			StringerR	12/31/2006 9:56:07		

AC: Accepting Entry; SC: Status Change

12/27/2006 2:10:43 PM

ICOC Fraction Transfer/Status Report

ByDate: 12/27/2005, 1/1/2007, Batch: '6331313', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6331313						
AC		CalcC	BockJ	12/14/2006 9:20:30		
SC			wagarr	IsBatched	11/27/2006 1:29:23 PM	ICOC_RADCALC v4.8.24
SC			BockJ	InPrep	12/14/2006 9:20:30 AM	rich-rc-5014 rEVISION 6
SC			BockJ	Prep1C	12/14/2006 9:41:34 AM	RICH-RC-5017 REVISION 5
SC			AshworthA	InPrep2	12/20/2006 5:58:37 AM	RICH-RC-5017 REVISION 4
SC			AshworthA	Prep2C	12/21/2006 8:14:20 PM	RICH-RC-5017 REVISION 4
SC			DAWKINSO	InCnt1	12/21/2006 8:45:21 PM	RICH-RD-0007 REVISION 5
SC			StringerR	CalcC	12/22/2006 1:45:09 PM	RICH-RD-0007 REVISION 5
SC			DAWKINSO	CalcC	12/26/2006 7:24:42 PM	RICH-RD-0007 REVISION 5
AC			BockJ	12/14/2006 9:41:34		
AC			BockJ	12/14/2006 9:41:42		
AC			AshworthA	12/20/2006 5:58:37		
AC			AshworthA	12/21/2006 8:14:20		
AC			DAWKINSO	12/21/2006 8:45:21		
AC			StringerR	12/22/2006 1:45:09		
AC			DAWKINSO	12/26/2006 7:24:42		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 8

ICOCFractions v4.8.26

12/27/2006 2:11:59 PM

ICOC Fraction Transfer/Status Report

ByDate: 12/27/2005, 1/1/2007, Batch: '6331327', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6331327						
AC		CalcC	BockJ	12/19/2006 8:26:26		
SC			wagarr	IsBatched	11/27/2006 1:29:23 PM	ICOC_RADCALC v4.8.24
SC			BockJ	Prep1C	12/19/2006 8:26:26 AM	RICH-RC-5017 REVISION 5
SC			AshworthA	Prep2C	12/26/2006 12:00:51 PM	RICH-RC-5017 REVISION 4
SC			BlackCL	InCnt1	12/26/2006 12:12:16 PM	RICH-RD-0007 REVISION 5
SC			BlackCL	CalcC	12/27/2006 6:15:19 AM	RICH-RD-0007 REVISION 5
AC			AshworthA	12/26/2006 12:00:51		
AC			BlackCL	12/26/2006 12:12:16		
AC			BlackCL	12/27/2006 6:15:19		

AC: Accepting Entry, SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.26

12/26/2006 3:38:50 PM

ICOC Fraction Transfer/Status Report

ByDate: 12/26/2005, 12/31/2006, Batch: '6331328', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6331328						
AC		CalcC	**BostedD**	12/20/2006 11:05:07		
SC			wagarr	IsBatched	11/27/2006 1:29:23 PM	ICOC_RADCALC v4.8.24
SC			BostedD	InPrep	12/20/2006 11:05:07 AM	RICHRC5025 REV3
SC			BostedD	Prep1C	12/22/2006 5:59:47 PM	RICHRC5025 REV3
SC			DAWKINSO	InCnt1	12/22/2006 6:24:30 PM	RICH-RD-0007 REVISION 5
SC			StringerR	CalcC	12/23/2006 2:07:39 PM	RICH-RD-0007 REVISION 5
AC			**BostedD**	12/22/2006 5:59:47		
AC			**DAWKINSO**	12/22/2006 6:24:30		
AC			**StringerR**	12/23/2006 2:07:39		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.26

12/26/2006 2:59:59 PM

ICOC Fraction Transfer/Status Report

ByDate: 12/26/2005, 12/31/2006, Batch: '6331276', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6331276						
AC		CalcC	BockJ	12/14/2006 10:49:06		
SC			wagarr	IsBatched	11/27/2006 1:29:23 PM	ICOC_RADCALC v4.8.24
SC			BockJ	InPrep	12/14/2006 10:49:06 AM	rich-rc-5014 rEVISION 6
SC			BockJ	Prep1C	12/14/2006 11:08:54 AM	RICH-RC-5016 REVISION 6
SC			FABREM	Sep1C	12/19/2006 7:24:14 PM	RICH-RC-5065 REVISION 5
SC			DAWKINSO	InCnt1	12/19/2006 7:29:14 PM	RICH-RD-0001 REVISION 3
SC			StringerR	CalcC	12/21/2006 1:48:57 PM	RICH-RD-0001 REVISION 3
AC			BockJ	12/14/2006 11:08:54		
AC			FABREM	12/19/2006 7:24:14		
AC			DAWKINSO	12/19/2006 7:29:14		
AC			StringerR	12/21/2006 1:48:57		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt:5

ICOCFractions v4.8.26

12/26/2006 2:59:17 PM

ICOC Fraction Transfer/Status Report

ByDate: 12/26/2005, 12/31/2006, Batch: '6331277', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6331277						
AC		CalcC	BockJ	12/14/2006 10:46:44		
SC			wagarr	IsBatched	11/27/2006 1:29:23 PM	ICOC_RADCALC v4.8.24
SC			BockJ	InPrep	12/14/2006 10:46:44 AM	rich-rc-5014 rEVISION 6
SC			BockJ	Prep1C	12/14/2006 11:22:23 AM	RICH-RC-5016 REVISION 6
SC			FABREM	Sep1C	12/20/2006 4:32:07 PM	RICH-RC-5078 REVISION 3
SC			DAWKINSO	InCnt1	12/20/2006 4:36:21 PM	RICH-RD-0001 REVISION 3
SC			StringerR	CalcC	12/21/2006 1:49:11 PM	RICH-RD-0001 REVISION 3
AC			BockJ	12/14/2006 11:22:23		
AC			FABREM	12/20/2006 4:32:07		
AC			DAWKINSO	12/20/2006 4:36:21		
AC			StringerR	12/21/2006 1:49:11		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.26

12/15/2006 3:34:34 PM

ICOC Fraction Transfer/Status Report

ByDate: 12/15/2005, 12/20/2006, Batch: '6331279', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6331279						
AC		CalcC	McDowellD	12/12/2006 8:30:22		
SC			wagarr	IsBatched	11/27/2006 1:29:23 PM	ICOC_RADCALC v4.8.24
SC			McDowellD	InSep1	12/12/2006 8:30:22 AM	RICH-RC-5007 REVISION 6
SC			McDowellD	Sep1C	12/12/2006 1:02:30 PM	RICH-RC-5007 REVISION 6
SC			BlackCL	InCnt1	12/12/2006 1:06:41 PM	RICH-RD-0001 REVISION 3
SC			BlackCL	CalcC	12/14/2006 11:59:24 AM	RICH-RD-0001 REVISION 3
AC			McDowellD	12/12/2006 1:02:30		
AC			BlackCL	12/12/2006 1:06:41		
AC			BlackCL	12/14/2006 11:59:24		

AC: Accepting Entry; SC: Status Change

1/18/2007 10:37:54 AM

ICOC Fraction Transfer/Status Report

ByDate: 1/18/2006, 1/23/2007, Batch: '6331278', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6331278						
AC		Sep1C	**BockJ**	12/18/2006 12:59:43		
SC			wagarr	IsBatched	11/27/2006 1:29:23 PM	ICOC_RADCALC v4.8.24
SC			BockJ	InPrep	12/18/2006 12:59:43 PM	RICH-RC-5016 Revision 6
SC			BockJ	Prep1C	12/18/2006 1:08:57 PM	RICH-RC-5015 REVISION 4
SC			AntonsonL	Sep1C	12/27/2006 2:13:58 PM	RICH-RC-5015 REVISION 4
AC			**BockJ**	12/18/2006 1:08:57		
AC			**AntonsonL**	12/27/2006 2:13:58		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 3

ICOCFractions v4.8.26

1/18/2007 11:08:44 AM

ICOC Fraction Transfer/Status Report

ByDate: 1/18/2006, 1/23/2007, Batch: '7002408', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7002408						
AC		Cnt1C	BockJ	1/3/2007 7:52:54 AM		
SC			andersonp	IsBatched	1/2/2007 4:15:16 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	1/3/2007 7:52:54 AM	rich-rc-5017 rEVISION 5
SC			BockJ	Prep1C	1/3/2007 8:03:40 AM	RICH-RC-5015 REVISION 4
SC			AntonsonL	InSep1	1/3/2007 5:03:29 PM	RICH-RC-5015 REVISION 4
SC			AntonsonL	Sep1C	1/9/2007 1:30:09 PM	RICH-RC-5015 REVISION 4
SC			NelsonT	Cnt1C	1/17/2007 5:43:44 PM	RICH-RC-5058 REV 7
AC			BockJ	1/3/2007 8:03:40 AM		
AC			AntonsonL	1/3/2007 5:03:29 PM		
AC			AntonsonL	1/9/2007 1:30:09 PM		
AC			NelsonT	1/17/2007 5:43:44 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.26

STL RICHLAND