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: 34706

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05105	S07-001	B1LPD6	J7A310249-1	JNNJK1AA	9JNNJK10	7033386
		B1LPD6	J7A310249-1	JNNJK1AC	9JNNJK10	7033381
		B1LPD6	J7A310249-1	JNNJK1AD	9JNNJK10	7033385
		B1LPD6	J7A310249-1	JNNJK1AE	9JNNJK10	7033403
		B1LPD6	J7A310249-1	JNNJK1AF	9JNNJK10	7033400
		B1LPD6	J7A310249-1	JNNJK1AG	9JNNJK10	7033406
		B1LR48	J7A310249-2	JNNJ61AA	9JNNJ610	7033402
		B1LPF0	J7A310249-3	JNNKC1AA	9JNNKC10	7033386
		B1LPF0	J7A310249-3	JNNKC1AC	9JNNKC10	7033381
		B1LPF0	J7A310249-3	JNNKC1AD	9JNNKC10	7033385
		B1LPF0	J7A310249-3	JNNKC1AE	9JNNKC10	7033403
		B1LPF0	J7A310249-3	JNNKC1AF	9JNNKC10	7033400
		B1LPF0	J7A310249-3	JNNKC1AG	9JNNKC10	7033406
		B1LR49	J7A310249-4	JNNKP1AA	9JNNKP10	7033402
		B1LPJ5	J7A310331-1	JNN2F1AA	9JNN2F10	7033386

Comments:

Report Nbr: 34706

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05105	S07-001	B1LPJ5	J7A310331-1	JNN2F1AC	9JNN2F10	7033400
		B1LPB9	J7A310331-2	JNN2J1AA	9JNN2J10	7033386
		B1LPB9	J7A310331-2	JNN2J1AC	9JNN2J10	7033381
		B1LPB9	J7A310331-2	JNN2J1AD	9JNN2J10	7033385
		B1LPB9	J7A310331-2	JNN2J1AE	9JNN2J10	7033403
		B1LPB9	J7A310331-2	JNN2J1AF	9JNN2J10	7033400
		B1LPB9	J7A310331-2	JNN2J1AG	9JNN2J10	7033406
		B1LP55	J7A310331-3	JNN2R1AA	9JNN2R10	7033386
		B1LP55	J7A310331-3	JNN2R1AC	9JNN2R10	7033381
		B1LP55	J7A310331-3	JNN2R1AD	9JNN2R10	7033385
		B1LP55	J7A310331-3	JNN2R1AE	9JNN2R10	7033403
		B1LP55	J7A310331-3	JNN2R1AF	9JNN2R10	7033406
		B1LP29	J7A310368-1	JNPDG1AA	9JNPDG10	7033403
		B1LP29	J7A310368-1	JNPDG1AC	9JNPDG10	7033400
		B1LP29	J7A310368-1	JNPDG1AD	9JNPDG10	7033405
		B1LP29	J7A310368-1	JNPDG1AE	9JNPDG10	7033406
		B1LP29	J7A310368-1	JNPDG1AF	9JNPDG10	7033402
		B1LP19	J7A310368-2	JNPDH1AA	9JNPDH10	7033403
		B1LP19	J7A310368-2	JNPDH1AC	9JNPDH10	7033400
		B1LP19	J7A310368-2	JNPDH1AD	9JNPDH10	7033405
		B1LP19	J7A310368-2	JNPDH1AE	9JNPDH10	7033406
		B1LP19	J7A310368-2	JNPDH1AF	9JNPDH10	7033402
		B1LNP9	J7A310368-3	JNPDJ1AA	9JNPDJ10	7033406
		B1LNT7	J7A310368-4	JNPDK1AA	9JNPDK10	7033406
		B1LNN9	J7A310369-1	JNPDL1AA	9JNPDL10	7033402
	S07-012	B1LD83	J7A310370-1	JNPDM1AA	9JNPDM10	7033386

Comments:

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SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05105	S07-012	B1LD83	J7A310370-1	JNPDM1AC	9JNPDM10	7033381
		B1LD83	J7A310370-1	JNPDM1AD	9JNPDM10	7033385
		B1LD83	J7A310370-1	JNPDM1AE	9JNPDM10	7033402
		B1LD83	J7A310370-1	JNPDM1AF	9JNPDM10	7033404
		B1LD83	J7A310370-1	JNPDM1AG	9JNPDM10	7033401
		B1LD78	J7A310370-2	JNPDN1AA	9JNPDN10	7033386
		B1LD78	J7A310370-2	JNPDN1AC	9JNPDN10	7033381
		B1LD78	J7A310370-2	JNPDN1AD	9JNPDN10	7033385
		B1LD78	J7A310370-2	JNPDN1AE	9JNPDN10	7033402
		B1LD78	J7A310370-2	JNPDN1AF	9JNPDN10	7033404
		B1LD78	J7A310370-2	JNPDN1AG	9JNPDN10	7033401
		B1LD82	J7A310370-3	JNPDR1AA	9JNPDR10	7033386
		B1LD82	J7A310370-3	JNPDR1AC	9JNPDR10	7033381
		B1LD82	J7A310370-3	JNPDR1AD	9JNPDR10	7033385
		B1LD82	J7A310370-3	JNPDR1AE	9JNPDR10	7033402
		B1LD82	J7A310370-3	JNPDR1AF	9JNPDR10	7033404
		B1LD82	J7A310370-3	JNPDR1AG	9JNPDR10	7033401
		B1LD68	J7A310370-4	JNPDT1AA	9JNPDT10	7033386
		B1LD68	J7A310370-4	JNPDT1AC	9JNPDT10	7033402
		B1LD68	J7A310370-4	JNPDT1AD	9JNPDT10	7033401
		B1LC51	J7A310371-1	JNPDW1AA	9JNPDW10	7033400
	S07-001	B1LP96	J7A310373-1	JNPD31AA	9JNPD310	7033386
		B1LP96	J7A310373-1	JNPD31AC	9JNPD310	7033400
	A07-001	B1LN33	J7A310374-1	JNPEC1AA	9JNPEC10	7033386
		B1LN33	J7A310374-1	JNPEC1AC	9JNPEC10	7033400
	W07-001	B1LRM6	J7A310376-1	JNPED1AA	9JNPED10	7033381

Comments:

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SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05105	W07-001	B1LRM6	J7A310376-1	JNPED1AC	9JNPED10	7033385

Comments:

SEVERN TRENT STL

STL Richland
2800 George Washington Way
Richland, WA 99354

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Certificate of Analysis

Pacific Northwest National Laboratories
Sigma V Building
Richland, WA 99352

March 19, 2007

Attention: Dot Stewart

SAF Number	:	W07-001, S07-001, S07-012, A07-001
Date SDG Closed	:	January 31, 2007
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05105
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between January 30, 2007 and January 31, 2007, twenty water samples were received at STL Richland (STLR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Pacific Northwest National Laboratories (PGW) specific IDs:

PGW ID#	STLR ID#	MATRIX	DATE OF RECEIPT
B1LPD6	JNNJK	WATER	1/30/07
B1LR48	JNNJ6	WATER	1/30/07
B1LPF0	JNNKC	WATER	1/30/07
B1LR49	JNNKP	WATER	1/30/07
B1LPJ5	JNN2F	WATER	1/30/07
B1LPB9	JNN2J	WATER	1/30/07
B1LP55	JNN2R	WATER	1/30/07
B1LP29	JNPDG	WATER	1/30/07
B1LP19	JNPDH	WATER	1/30/07
B1LNP9	JNPDJ	WATER	1/30/07
B1LNT7	JNPDK	WATER	1/30/07
B1LNN9	JNPDL	WATER	1/31/07
B1LD83	JNPDM	WATER	1/31/07

B1LD78	JNPDN	WATER	1/31/07
B1LD82	JNPDR	WATER	1/31/07
B1LD68	JNPDT	WATER	1/31/07
B1LC51	JNPDW	WATER	1/31/07
B1LP96	JNPD3	WATER	1/31/07
B1LN33	JNPEC	WATER	1/31/07
B1LRM6	JNPED	WATER	1/31/07

II. Sample Receipt

The samples were received in good condition and no anomalies were noted during check-in. Sample B1LHB1 had a coliform requested on it. It was missed in sample receiving and not given to the analyst before the holding time was up.

III. Analytical Results/Methodology

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

The requested analyses were:

Alpha Spectroscopy
Plutonium-238, -239/240 by method RICH-RC-5010
Uranium 234, 235 and 238 by method RICH-RC-5039
Gas Proportional Counting
Gross Alpha by method RICH-RC-5014
Gross Beta by method RICH-RC-5014
Strontium-90 by method RICH-RC-5006
Gamma Spectroscopy
Gamma Spec (LL) by method RICH-RC-5017
Iodine-129 (LL) by method RICH-RC-5025
Liquid Scintillation Counting
Technetium-99 by TEVA method RICH-RC-5065
Tritium by method RICH-RC-5007
Laser Induced Phosphorimetry
Total Uranium by method RICH-RC-5058

IV. Quality Control

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

QC and sample results are reported in the same units.

V. Comments

Alpha Spectroscopy

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

The LCS, batch blank, samples and sample duplicate (B1LP29) results are within contractual requirements.

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

The LCS, batch blank, samples and sample duplicate (B1LD83) results are within contractual requirements.

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:

On the first analysis the LCS had a low yield of 73%. It was recounted with good results. Data is accepted. Excepts as noted, the LCS, batch blank, samples and sample duplicate (B1LRM6) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:

The LCS, batch blank, samples and sample duplicate (B1LD82) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006

The LCS, batch blank, samples and sample duplicate (B1LPB9) results are within contractual requirements.

Gamma Spectroscopy

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

The LCS was out on the first count. It was recounted with good results. Except as noted, the LCS, batch blank, samples and sample duplicate (B1LPD6) results are within contractual requirements.

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

The LCS, batch blank, samples and sample duplicate (B1LC51) results are within contractual requirements.

Liquid Scintillation Counting

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

The LCS, batch blank, samples, sample duplicate (B1LNN9), and sample matrix spike (B1LD68) results are within contractual requirements.

Pacific Northwest National Laboratories
March 19, 2007

Tritium by method RICH-RC-5007:
The LCS, batch blank, samples and sample duplicate (B1LP96) results are within contractual requirements.

Total Uranium
Total Uranium by method RICH-RC-5058:
The LCS, batch blank, samples, sample duplicate (B1LD78), and sample matrix spike (B1LD82) 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.

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34706 File Name: h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.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:
9JNN2F10	B1LPJ5		MW6-SBB-A1	S07-001	W05105					01/30/2007 09:12

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7033386	H-3	10028-17-8	-9.47E+01	pCi/L	1.2E+02	1.3E+02	U	3.04E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/10/2007 05:56	I
7033400	I-129L	15046-84-1	-1.60E-02	pCi/L	1.2E-01	1.2E-01	U	2.19E-01	101.9	I129LL_SEP_LEPS	3.9042E+00	L	02/24/2007 13:45	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:
9JNN2J10	B1LPB9		MW6-SBB-A1	S07-001	W05105					01/30/2007 10:49

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7033386	H-3	10028-17-8	2.38E+04	pCi/L	5.1E+02	1.0E+03		2.99E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/10/2007 07:18	I
7033381	ALPHA	12587-46-1	2.34E+00	pCi/L	1.4E+00	1.5E+00		1.67E+00	100.0	9310_ALPHABETA	2.008E-01	L	02/23/2007 13:25	I
7033385	BETA	12587-47-2	1.40E+01	pCi/L	2.1E+00	2.8E+00		2.71E+00	100.0	9310_ALPHABETA	2.015E-01	L	02/23/2007 11:29	I
7033403	BE-7	13966-02-4	6.25E+00	pCi/L	2.3E+01	2.3E+01	U	4.37E+01		GAMMALL_GS	2.0053E+00	L	02/22/2007 17:56	I
7033403	CO-60	10198-40-0	1.23E+00	pCi/L	2.9E+00	2.9E+00	U	5.93E+00		GAMMALL_GS	2.0053E+00	L	02/22/2007 17:56	I
7033403	CS-134	13967-70-9	-4.05E-01	pCi/L	2.1E+00	2.1E+00	U	3.94E+00		GAMMALL_GS	2.0053E+00	L	02/22/2007 17:56	I
7033403	CS-137	10045-97-3	-9.07E-01	pCi/L	2.4E+00	2.4E+00	U	4.20E+00		GAMMALL_GS	2.0053E+00	L	02/22/2007 17:56	I
7033403	EU-152	14683-23-9	-5.87E-01	pCi/L	6.3E+00	6.3E+00	U	1.13E+01		GAMMALL_GS	2.0053E+00	L	02/22/2007 17:56	I
7033403	EU-154	15585-10-1	-1.41E+00	pCi/L	5.9E+00	5.9E+00	U	1.12E+01		GAMMALL_GS	2.0053E+00	L	02/22/2007 17:56	I
7033403	EU-155	14391-16-3	-7.37E-02	pCi/L	4.6E+00	4.6E+00	U	8.00E+00		GAMMALL_GS	2.0053E+00	L	02/22/2007 17:56	I
7033403	K-40	13966-00-2	3.90E+01	pCi/L	5.6E+01	5.6E+01	U	3.47E+01		GAMMALL_GS	2.0053E+00	L	02/22/2007 17:56	I
7033403	RU-106	13967-48-1	-1.45E+01	pCi/L	2.0E+01	2.0E+01	U	3.27E+01		GAMMALL_GS	2.0053E+00	L	02/22/2007 17:56	I
7033403	SB-125	14234-35-6	-7.24E-01	pCi/L	6.1E+00	6.1E+00	U	1.09E+01		GAMMALL_GS	2.0053E+00	L	02/22/2007 17:56	I
7033400	I-129L	15046-84-1	1.12E+00	pCi/L	3.9E-01	3.9E-01	U	5.56E-01	99.5	I129LL_SEP_LEPS	3.9404E+00	L	02/26/2007 05:33	I
7033406	SR-90	10098-97-2	7.60E-02	pCi/L	1.5E-01	1.8E-01	U	3.82E-01	85.9	SRISO_SEP_PRE	1.0015E+00	L	02/25/2007 09:00	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNN2R10	B1LP55		MW6-SBB-A1	S07-001	W05105					01/30/2007 12:02

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7033386	H-3	10028-17-8	1.40E+04	pCi/L	4.0E+02	6.8E+02		2.98E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/10/2007 08:40	I
7033381	ALPHA	12587-46-1	5.28E+00	pCi/L	2.3E+00	2.6E+00		2.08E+00	100.0	9310_ALPHABETA	1.853E-01	L	02/23/2007 14:35	I
7033385	BETA	12587-47-2	1.17E+01	pCi/L	2.5E+00	3.5E+00		3.67E+00	100.0	9310_ALPHABETA	1.492E-01	L	02/23/2007 11:29	I
7033403	BE-7	13966-02-4	-5.11E+00	pCi/L	2.2E+01	2.2E+01	U	3.99E+01		GAMMALL_GS	1.9994E+00	L	02/22/2007 19:41	I
7033403	CO-60	10198-40-0	7.60E-01	pCi/L	2.4E+00	2.4E+00	U	5.01E+00		GAMMALL_GS	1.9994E+00	L	02/22/2007 19:41	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.

7033403	CS-134	13967-70-9	5.96E-01	pCi/L	2.3E+00	2.3E+00	U	4.45E+00		GAMMALL_GS	1.9994E+00	L	02/22/2007	19:41	I
7033403	CS-137	10045-97-3	9.46E-01	pCi/L	2.5E+00	2.5E+00	U	4.84E+00		GAMMALL_GS	1.9994E+00	L	02/22/2007	19:41	I
7033403	EU-152	14683-23-9	-4.61E+00	pCi/L	5.8E+00	5.8E+00	U	9.37E+00		GAMMALL_GS	1.9994E+00	L	02/22/2007	19:41	I
7033403	EU-154	15585-10-1	-2.97E+00	pCi/L	8.0E+00	8.0E+00	U	1.41E+01		GAMMALL_GS	1.9994E+00	L	02/22/2007	19:41	I
7033403	EU-155	14391-16-3	-7.25E-01	pCi/L	3.3E+00	3.3E+00	U	5.80E+00		GAMMALL_GS	1.9994E+00	L	02/22/2007	19:41	I
7033403	K-40	13966-00-2	-1.94E+01	pCi/L	5.1E+01	5.1E+01	U	1.11E+02		GAMMALL_GS	1.9994E+00	L	02/22/2007	19:41	I
7033403	RU-106	13967-48-1	7.37E+00	pCi/L	2.0E+01	2.0E+01	U	3.94E+01		GAMMALL_GS	1.9994E+00	L	02/22/2007	19:41	I
7033403	SB-125	14234-35-6	1.28E+00	pCi/L	5.3E+00	5.3E+00	U	9.93E+00		GAMMALL_GS	1.9994E+00	L	02/22/2007	19:41	I
7033406	SR-90	10098-97-2	1.38E-01	pCi/L	1.9E-01	1.9E-01	U	3.98E-01	75.4	SRISO_SEP_PRE	9.921E-01	L	02/25/2007	08:55	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNNJ610	B1LR48		MW6-SBB-A1	S07-001	W05105					01/30/2007 10:09

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7033402	TC-99	14133-76-7	5.91E+00	pCi/L	4.2E+00	6.1E+00	U	9.74E+00	100.0	TC99_ETVDSK_LS	1.254E-01	L	02/15/2007 15:10	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:
9JNNJK10	B1LPD6		MW6-SBB-A1	S07-001	W05105					01/30/2007 10:09

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7033386	H-3	10028-17-8	9.44E+03	pCi/L	3.3E+02	5.1E+02		2.98E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/10/2007 03:13	I
7033381	ALPHA	12587-46-1	5.24E-01	pCi/L	8.0E-01	8.0E-01	U	1.62E+00	100.0	9310_ALPHABETA	1.998E-01	L	02/23/2007 13:25	I
7033385	BETA	12587-47-2	7.92E+00	pCi/L	1.7E+00	2.0E+00		2.58E+00	100.0	9310_ALPHABETA	2.009E-01	L	02/23/2007 11:29	I
7033403	BE-7	13966-02-4	1.04E+01	pCi/L	2.2E+01	2.2E+01	U	4.30E+01		GAMMALL_GS	1.9938E+00	L	02/22/2007 17:57	I
7033403	CO-60	10198-40-0	-4.20E-01	pCi/L	2.8E+00	2.8E+00	U	5.20E+00		GAMMALL_GS	1.9938E+00	L	02/22/2007 17:57	I
7033403	CS-134	13967-70-9	-8.60E-01	pCi/L	2.2E+00	2.2E+00	U	3.95E+00		GAMMALL_GS	1.9938E+00	L	02/22/2007 17:57	I
7033403	CS-137	10045-97-3	-2.50E-01	pCi/L	2.2E+00	2.2E+00	U	4.02E+00		GAMMALL_GS	1.9938E+00	L	02/22/2007 17:57	I
7033403	EU-152	14683-23-9	-3.51E+00	pCi/L	4.7E+00	4.7E+00	U	7.67E+00		GAMMALL_GS	1.9938E+00	L	02/22/2007 17:57	I
7033403	EU-154	15585-10-1	-2.96E+00	pCi/L	7.4E+00	7.4E+00	U	1.31E+01		GAMMALL_GS	1.9938E+00	L	02/22/2007 17:57	I
7033403	EU-155	14391-16-3	5.79E-01	pCi/L	3.5E+00	3.5E+00	U	6.51E+00		GAMMALL_GS	1.9938E+00	L	02/22/2007 17:57	I
7033403	K-40	13966-00-2	-5.71E+00	pCi/L	5.0E+01	5.0E+01	U	1.11E+02		GAMMALL_GS	1.9938E+00	L	02/22/2007 17:57	I
7033403	RU-106	13967-48-1	1.50E+00	pCi/L	2.2E+01	2.2E+01	U	4.09E+01		GAMMALL_GS	1.9938E+00	L	02/22/2007 17:57	I
7033403	SB-125	14234-35-6	1.48E+00	pCi/L	5.4E+00	5.4E+00	U	1.02E+01		GAMMALL_GS	1.9938E+00	L	02/22/2007 17:57	I
7033400	I-129L	15046-84-1	5.48E+00	pCi/L	7.6E-01	7.6E-01		2.96E-01	100.5	I129LL_SEP_LEPS	3.9109E+00	L	02/24/2007 13:42	I
7033406	SR-90	10098-97-2	2.82E-01	pCi/L	2.6E-01	2.6E-01	U	5.09E-01	66.0	SRISO_SEP_PRE	1.005E+00	L	02/25/2007 09:00	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: 34706 File Name: h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.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:
9JNNKC10	B1LPF0		MW6-SBB-A1	S07-001	W05105					01/30/2007 11:59

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7033386	H-3	10028-17-8	4.17E+04	pCi/L	6.6E+02	1.7E+03		3.00E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/10/2007 04:35	I
7033381	ALPHA	12587-46-1	9.58E-01	pCi/L	1.1E+00	1.1E+00	U	1.95E+00	100.0	9310_ALPHABETA	2.00E-01	L	02/23/2007 13:25	I
7033385	BETA	12587-47-2	7.22E+00	pCi/L	1.8E+00	2.0E+00		2.82E+00	100.0	9310_ALPHABETA	2.005E-01	L	02/23/2007 11:29	I
7033403	BE-7	13966-02-4	1.70E+00	pCi/L	2.1E+01	2.1E+01	U	4.01E+01		GAMMALL_GS	2.0006E+00	L	02/22/2007 17:58	I
7033403	CO-60	10198-40-0	-1.23E+00	pCi/L	2.4E+00	2.4E+00	U	4.10E+00		GAMMALL_GS	2.0006E+00	L	02/22/2007 17:58	I
7033403	CS-134	13967-70-9	-9.47E-01	pCi/L	2.3E+00	2.3E+00	U	4.05E+00		GAMMALL_GS	2.0006E+00	L	02/22/2007 17:58	I
7033403	CS-137	10045-97-3	-1.65E+00	pCi/L	2.3E+00	2.3E+00	U	3.92E+00		GAMMALL_GS	2.0006E+00	L	02/22/2007 17:58	I
7033403	EU-152	14683-23-9	2.22E+00	pCi/L	5.7E+00	5.7E+00	U	1.07E+01		GAMMALL_GS	2.0006E+00	L	02/22/2007 17:58	I
7033403	EU-154	15585-10-1	-8.19E-01	pCi/L	6.1E+00	6.1E+00	U	1.18E+01		GAMMALL_GS	2.0006E+00	L	02/22/2007 17:58	I
7033403	EU-155	14391-16-3	2.10E+00	pCi/L	4.7E+00	4.7E+00	U	8.84E+00		GAMMALL_GS	2.0006E+00	L	02/22/2007 17:58	I
7033403	K-40	13966-00-2	-5.77E+00	pCi/L	5.7E+01	5.7E+01	U	1.29E+02		GAMMALL_GS	2.0006E+00	L	02/22/2007 17:58	I
7033403	RU-106	13967-48-1	-1.15E+00	pCi/L	1.9E+01	1.9E+01	U	3.50E+01		GAMMALL_GS	2.0006E+00	L	02/22/2007 17:58	I
7033403	SB-125	14234-35-6	-2.24E+00	pCi/L	5.2E+00	5.2E+00	U	8.79E+00		GAMMALL_GS	2.0006E+00	L	02/22/2007 17:58	I
7033400	I-129L	15046-84-1	2.84E-01	pCi/L	2.0E-01	2.0E-01	U	3.28E-01	98.4	I129LL_SEP_LEPS	3.8794E+00	L	02/24/2007 13:43	I
7033406	SR-90	10098-97-2	-8.13E-02	pCi/L	1.6E-01	1.7E-01	U	4.11E-01	81.9	SRISO_SEP_PRE	1.0028E+00	L	02/25/2007 09:00	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNNKP10	B1LR49		MW6-SBB-A1	S07-001	W05105					01/30/2007 11:59

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7033402	TC-99	14133-76-7	7.65E+00	pCi/L	4.4E+00	6.3E+00	U	1.00E+01	100.0	TC99_ETVDSK_LS	1.254E-01	L	02/15/2007 15:10	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:
9JNPD310	B1LP96		MW6-SBB-A1	S07-001	W05105					01/31/2007 11:07

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7033386	H-3	10028-17-8	7.95E+04	pCi/L	9.1E+02	3.1E+03		2.99E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/10/2007 19:34	I
7033400	I-129L	15046-84-1	1.37E+00	pCi/L	3.2E-01	3.2E-01	U	5.76E-01	97.6	I129LL_SEP_LEPS	3.9323E+00	L	02/26/2007 07:21	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNPDG10	B1LP29		MW6-SBB-A1	S07-001	W05105					01/30/2007 10:16

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: 34706 File Name: h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7033403	BE-7	13966-02-4	1.08E+00	pCi/L	1.8E+01	1.8E+01	U	3.33E+01		GAMMALL_GS	1.9976E+00	L	02/22/2007 19:42	I
7033403	CO-60	10198-40-0	3.02E+00	pCi/L	2.9E+00	2.9E+00	U	6.55E+00		GAMMALL_GS	1.9976E+00	L	02/22/2007 19:42	I
7033403	CS-134	13967-70-9	-8.86E-01	pCi/L	2.2E+00	2.2E+00	U	3.86E+00		GAMMALL_GS	1.9976E+00	L	02/22/2007 19:42	I
7033403	CS-137	10045-97-3	9.15E-01	pCi/L	1.8E+00	1.8E+00	U	3.78E+00		GAMMALL_GS	1.9976E+00	L	02/22/2007 19:42	I
7033403	EU-152	14683-23-9	-4.05E+00	pCi/L	5.1E+00	5.1E+00	U	8.25E+00		GAMMALL_GS	1.9976E+00	L	02/22/2007 19:42	I
7033403	EU-154	15585-10-1	1.79E+00	pCi/L	6.8E+00	6.8E+00	U	1.41E+01		GAMMALL_GS	1.9976E+00	L	02/22/2007 19:42	I
7033403	EU-155	14391-16-3	-9.50E-01	pCi/L	4.1E+00	4.1E+00	U	7.13E+00		GAMMALL_GS	1.9976E+00	L	02/22/2007 19:42	I
7033403	K-40	13966-00-2	-5.07E+00	pCi/L	4.1E+01	4.1E+01	U	9.11E+01		GAMMALL_GS	1.9976E+00	L	02/22/2007 19:42	I
7033403	RU-106	13967-48-1	1.74E+01	pCi/L	2.0E+01	2.0E+01	U	4.16E+01		GAMMALL_GS	1.9976E+00	L	02/22/2007 19:42	I
7033403	SB-125	14234-35-6	3.25E+00	pCi/L	4.7E+00	4.7E+00	U	9.55E+00		GAMMALL_GS	1.9976E+00	L	02/22/2007 19:42	I
7033400	I-129L	15046-84-1	8.20E-03	pCi/L	1.1E-01	1.1E-01	U	2.06E-01	101.6	I129LL_SEP_LEPS	3.828E+00	L	02/26/2007 05:34	I
7033405	PU-238	13981-16-3	0.00E+00	pCi/L	8.4E-02	8.4E-02	U	2.08E-01	81.3	PUISO_PLATE_AE	2.01E-01	L	02/16/2007 14:22	I
7033405	PU-239	PU-239/240	0.00E+00	pCi/L	8.3E-02	8.3E-02	U	2.08E-01	81.3	PUISO_PLATE_AE	2.01E-01	L	02/16/2007 14:22	I
7033406	SR-90	10098-97-2	8.14E-02	pCi/L	1.7E-01	1.8E-01	U	3.83E-01	81.3	SRISO_SEP_PRE	1.0056E+00	L	02/25/2007 08:55	I
7033402	TC-99	14133-76-7	1.40E+00	pCi/L	4.1E+00	5.8E+00	U	9.80E+00	100.0	TC99_ETVDSK_LS	1.262E-01	L	02/15/2007 15:10	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:
9JNPDH10	B1LP19		MW6-SBB-A1	S07-001	W05105					01/30/2007 11:33

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7033403	BE-7	13966-02-4	5.48E+00	pCi/L	2.2E+01	2.2E+01	U	4.19E+01		GAMMALL_GS	1.9985E+00	L	02/22/2007 19:42	I
7033403	CO-60	10198-40-0	-6.70E-01	pCi/L	2.9E+00	2.9E+00	U	5.28E+00		GAMMALL_GS	1.9985E+00	L	02/22/2007 19:42	I
7033403	CS-134	13967-70-9	1.85E+00	pCi/L	2.7E+00	2.7E+00	U	5.49E+00		GAMMALL_GS	1.9985E+00	L	02/22/2007 19:42	I
7033403	CS-137	10045-97-3	-1.19E-01	pCi/L	2.1E+00	2.1E+00	U	4.00E+00		GAMMALL_GS	1.9985E+00	L	02/22/2007 19:42	I
7033403	EU-152	14683-23-9	-4.06E-01	pCi/L	5.6E+00	5.6E+00	U	1.01E+01		GAMMALL_GS	1.9985E+00	L	02/22/2007 19:42	I
7033403	EU-154	15585-10-1	-3.86E-02	pCi/L	6.7E+00	6.7E+00	U	1.31E+01		GAMMALL_GS	1.9985E+00	L	02/22/2007 19:42	I
7033403	EU-155	14391-16-3	2.95E-01	pCi/L	5.0E+00	5.0E+00	U	8.97E+00		GAMMALL_GS	1.9985E+00	L	02/22/2007 19:42	I
7033403	K-40	13966-00-2	-4.03E+01	pCi/L	5.5E+01	5.5E+01	U	1.21E+02		GAMMALL_GS	1.9985E+00	L	02/22/2007 19:42	I
7033403	RU-106	13967-48-1	1.60E+01	pCi/L	2.0E+01	2.0E+01	U	4.10E+01		GAMMALL_GS	1.9985E+00	L	02/22/2007 19:42	I
7033403	SB-125	14234-35-6	2.06E+00	pCi/L	5.3E+00	5.3E+00	U	1.01E+01		GAMMALL_GS	1.9985E+00	L	02/22/2007 19:42	I
7033400	I-129L	15046-84-1	3.57E-01	pCi/L	3.1E-01	3.1E-01	U	3.97E-01	94.1	I129LL_SEP_LEPS	3.7498E+00	L	02/26/2007 05:34	I
7033405	PU-238	13981-16-3	6.78E-02	pCi/L	9.7E-02	9.7E-02	U	1.72E-01	96.9	PUISO_PLATE_AE	2.003E-01	L	02/16/2007 14:23	I
7033405	PU-239	PU-239/240	2.03E-02	pCi/L	7.0E-02	7.0E-02	U	2.01E-01	96.9	PUISO_PLATE_AE	2.003E-01	L	02/16/2007 14:23	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.

7033406	SR-90	10098-97-2	-6.33E-02	pCi/L	1.9E-01	1.9E-01	U	4.43E-01	77.2	SRISO_SEP_PRE	1.0029E+00	L	02/25/2007	08:55	I
7033402	TC-99	14133-76-7	1.88E+02	pCi/L	8.5E+00	1.8E+01		9.79E+00	100.0	TC99_ETVDSK_LS	1.25E-01	L	02/15/2007	15:10	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:
9JNPDJ10	B1LNP9		MW6-SBB-A1	S07-001	W05105					01/30/2007 11:59

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7033406	SR-90	10098-97-2	2.60E-01	pCi/L	1.9E-01	2.0E-01	U	3.73E-01	82.6	SRISO_SEP_PRE	1.0067E+00	L	02/25/2007 08:55	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNPDK10	B1LNT7		MW6-SBB-A1	S07-001	W05105					01/30/2007 11:10

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7033406	SR-90	10098-97-2	2.72E+01	pCi/L	1.1E+00	4.3E+00		4.36E-01	82.7	SRISO_SEP_PRE	1.004E+00	L	02/25/2007 08:56	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:
9JNPDL10	B1LNN9		MW6-SBB-A1	S07-001	W05105					01/31/2007 11:24

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7033402	TC-99	14133-76-7	6.50E+01	pCi/L	6.0E+00	1.0E+01		9.94E+00	100.0	TC99_ETVDSK_LS	1.254E-01	L	02/15/2007 15:10	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:
9JNPDM10	B1LD83		MW6-SBB-A1	S07-012	W05105					01/31/2007 11:38

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7033386	H-3	10028-17-8	1.12E+04	pCi/L	3.6E+02	5.8E+02		2.98E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/10/2007 10:02	I
7033381	ALPHA	12587-46-1	7.81E+00	pCi/L	2.7E+00	3.2E+00		1.70E+00	100.0	9310_ALPHABETA	2.006E-01	L	02/23/2007 14:35	I
7033385	BETA	12587-47-2	1.91E+01	pCi/L	2.5E+00	3.6E+00		2.96E+00	100.0	9310_ALPHABETA	2.019E-01	L	02/23/2007 11:29	I
7033402	TC-99	14133-76-7	2.29E+01	pCi/L	4.8E+00	7.3E+00		9.82E+00	100.0	TC99_ETVDSK_LS	1.248E-01	L	02/15/2007 15:10	I
7033404	U-234	13966-29-5	7.42E+00	pCi/L	9.5E-01	1.5E+00		1.80E-01	108.4	UISO_PLATE_AEA	2.002E-01	L	02/16/2007 14:20	I
7033404	U-235	15117-96-1	5.46E-01	pCi/L	2.6E-01	2.7E-01		1.54E-01	108.4	UISO_PLATE_AEA	2.002E-01	L	02/16/2007 14:20	I
7033404	U-238	U-238	6.63E+00	pCi/L	9.0E-01	1.4E+00		1.54E-01	108.4	UISO_PLATE_AEA	2.002E-01	L	02/16/2007 14:20	I
7033401	Uranium	7440-61-1	1.92E+01	ug/L	2.3E+00	2.3E+00		8.32E-02		UTOT_KPA	2.52E-02	ML	02/28/2007 13:26	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNPDN10	B1LD78		MW6-SBB-A1	S07-012	W05105					01/31/2007 10:18

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7033386	H-3	10028-17-8	1.19E+04	pCi/L	3.7E+02	6.0E+02		2.99E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/10/2007 11:23	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.

7033381	ALPHA	12587-46-1	5.09E+00	pCi/L	2.2E+00	2.5E+00		1.97E+00	100.0	9310_ALPHABETA	1.997E-01	L	02/23/2007	14:35	I
7033385	BETA	12587-47-2	1.22E+01	pCi/L	2.1E+00	2.8E+00		3.00E+00	100.0	9310_ALPHABETA	2.04E-01	L	02/23/2007	11:29	I
7033402	TC-99	14133-76-7	3.26E+01	pCi/L	5.2E+00	8.0E+00		1.03E+01	100.0	TC99_ETVDSK_LS	1.251E-01	L	02/15/2007	15:10	I
7033404	U-234	13966-29-5	2.71E+00	pCi/L	5.6E-01	7.1E-01		1.45E-01	104.7	UISO_PLATE_AEA	2.004E-01	L	02/16/2007	14:20	I
7033404	U-235	15117-96-1	8.59E-02	pCi/L	1.0E-01	1.0E-01	U	1.45E-01	104.7	UISO_PLATE_AEA	2.004E-01	L	02/16/2007	14:20	I
7033404	U-238	U-238	2.31E+00	pCi/L	5.2E-01	6.4E-01		1.70E-01	104.7	UISO_PLATE_AEA	2.004E-01	L	02/16/2007	14:20	I
7033401	Uranium	7440-61-1	7.56E+00	ug/L	7.8E-01	7.8E-01		8.35E-02		UTOT_KPA	2.51E-02	ML	02/28/2007	13:28	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNPDR10	B1LD82		MW6-SBB-A1	S07-012	W05105					01/31/2007 11:38

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7033386	H-3	10028-17-8	1.12E+04	pCi/L	3.6E+02	5.8E+02		2.98E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/10/2007	12:45	I
7033381	ALPHA	12587-46-1	9.65E+00	pCi/L	3.0E+00	3.8E+00		2.00E+00	100.0	9310_ALPHABETA	2.005E-01	L	02/23/2007	14:35	I
7033385	BETA	12587-47-2	1.80E+01	pCi/L	2.5E+00	3.6E+00		3.08E+00	100.0	9310_ALPHABETA	2.013E-01	L	02/23/2007	11:29	I
7033402	TC-99	14133-76-7	2.87E+01	pCi/L	5.0E+00	7.6E+00		9.83E+00	100.0	TC99_ETVDSK_LS	1.259E-01	L	02/15/2007	15:10	I
7033404	U-234	13966-29-5	7.33E+00	pCi/L	9.6E-01	1.5E+00		1.86E-01	98.1	UISO_PLATE_AEA	2.004E-01	L	02/16/2007	14:21	I
7033404	U-235	15117-96-1	3.12E-01	pCi/L	2.0E-01	2.0E-01		1.59E-01	98.1	UISO_PLATE_AEA	2.004E-01	L	02/16/2007	14:21	I
7033404	U-238	U-238	6.96E+00	pCi/L	9.3E-01	1.5E+00		1.59E-01	98.1	UISO_PLATE_AEA	2.004E-01	L	02/16/2007	14:21	I
7033401	Uranium	7440-61-1	1.91E+01	ug/L	2.3E+00	2.3E+00		8.38E-02		UTOT_KPA	2.50E-02	ML	02/28/2007	13:33	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:
9JNPDT10	B1LD68		MW6-SBB-A1	S07-012	W05105					01/31/2007 12:33

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7033386	H-3	10028-17-8	1.45E+04	pCi/L	4.0E+02	7.0E+02		3.00E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/10/2007	18:12	I
7033402	TC-99	14133-76-7	3.12E+01	pCi/L	5.0E+00	7.8E+00		9.74E+00	100.0	TC99_ETVDSK_LS	1.258E-01	L	02/15/2007	15:10	I
7033401	Uranium	7440-61-1	5.10E+00	ug/L	5.2E-01	5.2E-01		8.22E-02		UTOT_KPA	2.55E-02	ML	02/28/2007	13:37	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:
9JNPDW10	B1LC51		MW6-SBB-A1	S07-012	W05105					01/31/2007 12:16

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7033400	I-129L	15046-84-1	1.03E-01	pCi/L	1.6E-01	1.6E-01	U	3.08E-01	98.9	I129LL_SEP_LEPS	3.9273E+00	L	02/26/2007	07:20	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:

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.

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNPEC10	B1LN33		MW6-SBB-A1	A07-001	W05105					01/31/2007 11:34

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7033386	H-3	10028-17-8	7.82E+01	pCi/L	1.3E+02	1.4E+02	U	2.98E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/10/2007 22:17	I
7033400	I-129L	15046-84-1	-5.48E-02	pCi/L	1.4E-01	1.4E-01	U	2.43E-01	96.5	I129LL_SEP_LEPS	3.8547E+00	L	02/26/2007 09:05	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:
9JNPED10	B1LRM6		MW6-SBB-A1	W07-001	W05105					01/31/2007 12:53

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7033381	ALPHA	12587-46-1	1.21E+00	pCi/L	1.2E+00	1.2E+00	U	2.00E+00	100.0	9310_ALPHABETA	1.78E-01	L	02/23/2007 14:35	I
7033385	BETA	12587-47-2	7.16E+00	pCi/L	1.8E+00	2.0E+00		2.76E+00	100.0	9310_ALPHABETA	2.024E-01	L	02/23/2007 11:28	I

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

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id:	JNVN21AB	**Sdg/Rept Nbr:**	W05105 34706	**Collection Date:**	01/31/2007 11:07
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	01/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7033386	H-3	-1.03E+02	pCi/L	1.3E+02	U	2.98E+02	100.0		906.0_H3_LSC	5.00E-03	02/10/2007				D
BLK	10028-17-8			1.2E+02						L	00:29				

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 QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id:	JNVN21DX	**Sdg/Rept Nbr:**	W05105 34706	**Collection Date:**	01/31/2007 11:07
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	01/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7033386	H-3	-2.58E+00	pCi/L	1.4E+02	U	3.03E+02	100.0		906.0_H3_LSC	5.00E-03	02/10/2007				D
BLK	10028-17-8			1.2E+02						L	15:29				

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 QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id:	JNVNM1AB	**Sdg/Rept Nbr:**	W05105 34706	**Collection Date:**	01/31/2007 12:53
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	01/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7033381	ALPHA	-1.13E-01	pCi/L	2.2E-01	U	7.80E-01	100.0		9310_ALPHAB	2.045E-01	02/23/2007				D
BLK	12587-46-1			2.2E-01						L	15:44				

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 QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id:	JNVNP1AB	**Sdg/Rept Nbr:**	W05105 34706	**Collection Date:**	01/31/2007 11:38
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	01/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7033385	BETA	0.00E+00	pCi/L	1.2E+00	U	2.58E+00	100.0		9310_ALPHAB	1.994E-01	02/23/2007				D
BLK	12587-47-2			1.2E+00						L	11:28				

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

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id: JNVR41AB **Sdg/Rept Nbr:** W05105 34706 **Collection Date:** 01/31/2007 12:16

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 01/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7033400	I-129L	2.09E-02	pCi/L	1.4E-01	U	2.62E-01	98.4		I129LL_SEP_L	3.7258E+00	02/26/2007				D
BLK	15046-84-1			1.4E-01						L	09:05				

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

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id:	JNVTA1AB	**Sdg/Rept Nbr:**	W05105 34706	**Collection Date:**	01/31/2007 10:18
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	01/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7033401	Uranium	8.64E-03	ug/L	1.1E-03	U	8.42E-02			UTOT_KPA	2.49E-02	02/28/2007				D
BLK	7440-61-1			1.1E-03						ML	13:05				

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

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id: JNVTD1AB **Sdg/Rept Nbr:** W05105 34706 **Collection Date:** 01/31/2007 11:24

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 01/31/2007

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
7033402	TC-99	2.09E+00	pCi/L	5.9E+00	U	1.00E+01	100.0		TC99_ETVDSK	1.25E-01	02/15/2007				D
BLK	14133-76-7			4.2E+00						L	15:10				

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.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id: JNVTL1AB **Sdg/Rept Nbr:** W05105 34706 **Collection Date:** 01/30/2007 10:09

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 01/30/2007

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
7033403	BE-7	-4.97E+00	pCi/L	2.2E+01	U	3.82E+01			GAMMALL_GS	1.9985E+00	02/22/2007				D
BLK	13966-02-4			2.2E+01						L	19:40				
7033403	CO-60	-3.08E-01	pCi/L	2.1E+00	U	4.13E+00			GAMMALL_GS	1.9985E+00	02/22/2007				D
BLK	10198-40-0			2.1E+00						L	19:40				
7033403	CS-134	-1.14E+00	pCi/L	2.7E+00	U	4.67E+00			GAMMALL_GS	1.9985E+00	02/22/2007				D
BLK	13967-70-9			2.7E+00						L	19:40				
7033403	CS-137	1.20E-01	pCi/L	2.6E+00	U	4.73E+00			GAMMALL_GS	1.9985E+00	02/22/2007				D
BLK	10045-97-3			2.6E+00						L	19:40				
7033403	EU-152	-1.27E+00	pCi/L	5.6E+00	U	9.99E+00			GAMMALL_GS	1.9985E+00	02/22/2007				D
BLK	14683-23-9			5.6E+00						L	19:40				
7033403	EU-154	-5.00E+00	pCi/L	6.6E+00	U	1.08E+01			GAMMALL_GS	1.9985E+00	02/22/2007				D
BLK	15585-10-1			6.6E+00						L	19:40				
7033403	EU-155	2.86E+00	pCi/L	4.7E+00	U	8.55E+00			GAMMALL_GS	1.9985E+00	02/22/2007				D
BLK	14391-16-3			4.7E+00						L	19:40				
7033403	K-40	3.97E+01	pCi/L	6.2E+01	U	4.59E+01			GAMMALL_GS	1.9985E+00	02/22/2007				D
BLK	13966-00-2			6.2E+01						L	19:40				
7033403	RU-106	1.64E+01	pCi/L	1.8E+01	U	3.80E+01			GAMMALL_GS	1.9985E+00	02/22/2007				D
BLK	13967-48-1			1.8E+01						L	19:40				
7033403	SB-125	1.09E+00	pCi/L	6.3E+00	U	1.15E+01			GAMMALL_GS	1.9985E+00	02/22/2007				D
BLK	14234-35-6			6.3E+00						L	19:40				

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 QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id: JNVTP1AB **Sdg/Rept Nbr:** W05105 34706 **Collection Date:** 01/31/2007 11:38

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 01/31/2007

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
7033404	U-234	-6.03E-03	pCi/L	6.1E-02	U	1.53E-01	108.5		UISO_PLATE_	2.024E-01	02/16/2007				D
BLK	13966-29-5			6.1E-02						L	14:21				
7033404	U-235	0.00E+00	pCi/L	6.1E-02	U	1.53E-01	108.5		UISO_PLATE_	2.024E-01	02/16/2007				D
BLK	15117-96-1			6.1E-02						L	14:21				
7033404	U-238	1.81E-02	pCi/L	6.3E-02	U	1.79E-01	108.5		UISO_PLATE_	2.024E-01	02/16/2007				D
BLK	U-238			6.3E-02						L	14:21				

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 QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id:	JNVTT1AB	**Sdg/Rept Nbr:**	W05105 34706	**Collection Date:**	01/30/2007 10:16
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	**BLK**	**Received Date:**	01/30/2007

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
7033405	PU-238	0.00E+00	pCi/L	8.0E-02	U	2.00E-01	86.5		PUISO_PLATE	2.012E-01	02/16/2007				D
BLK	13981-16-3			8.0E-02						L	14:23				
7033405	PU-239	-1.58E-02	pCi/L	8.2E-02	U	2.34E-01	86.5		PUISO_PLATE	2.012E-01	02/16/2007				D
BLK	PU-239/240			8.2E-02						L	14:23				

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 QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id: JNVTX1AB **Sdg/Rept Nbr:** W05105 34706 **Collection Date:** 01/30/2007 10:49

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 01/30/2007

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
7033406	SR-90	7.13E-02	pCi/L	3.3E-01	U	7.26E-01	50.1		SRISO_SEP_P	1.0007E+00	02/25/2007				D
BLK	10098-97-2			3.0E-01						L	08:56				

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 QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id: JNVN21CS **Sdg/Rept Nbr:** W05105 34706 **Collection Date:** 01/31/2007 11:07

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 01/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7033386	H-3	2.47E+03	pCi/L	2.4E+02		2.98E+02	100.0	2.71E+03	906.0_H3_LSC	5.00E-03	02/10/2007			70	D
BS	10028-17-8			2.0E+02				91.0		L	01:51			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.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id:	JNVN21EM	**Sdg/Rept Nbr:**	W05105 34706	**Collection Date:**	01/31/2007 11:07
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	**BS**	**Received Date:**	01/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7033386	H-3	2.45E+03	pCi/L	2.4E+02		3.04E+02	100.0	2.71E+03	906.0_H3_LSC	5.00E-03	02/10/2007			70	D
BS	10028-17-8			2.0E+02				90.2		L	16:50			130	

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

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id:	JNVNM1CS	**Sdg/Rept Nbr:**	W05105 34706	**Collection Date:**	01/31/2007 12:53
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	01/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7033381	ALPHA	1.63E+01	pCi/L	4.6E+00		9.08E-01	100.0	2.24E+01	9310_ALPHAB	2.011E-01	02/23/2007			70	D
BS	12587-46-1			2.6E+00				72.9		L	15:44			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.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id: JNVNM2CS **Sdg/Rept Nbr:** W05105 34706 **Collection Date:** 01/31/2007 12:53

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 01/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7033381	ALPHA	1.84E+01	pCi/L	5.1E+00		1.10E+00	100.0	2.24E+01	9310_ALPHAB	2.011E-01	02/26/2007			70	D
BS	12587-46-1			2.8E+00				82.5		L	12:00			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.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id: JNVNP1CS **Sdg/Rept Nbr:** W05105 34706 **Collection Date:** 01/31/2007 11:38

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 01/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7033385	BETA	2.06E+01	pCi/L	4.5E+00		2.30E+00	100.0	2.22E+01	9310_ALPHAB	2.035E-01	02/23/2007			70	D
BS	12587-47-2			2.2E+00				93.1		L	11:28			130	

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

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id: JNVR41CS **Sdg/Rept Nbr:** W05105 34706 **Collection Date:** 01/31/2007 12:16

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 01/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7033400	I-129L	8.35E+00	pCi/L	1.0E+00		2.66E-01	99.1	9.79E+00	I129LL_SEP_L	3.9244E+00	02/26/2007			70	D
BS	15046-84-1			1.0E+00				85.3		L	09:05			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.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id: JNVTA1CS **Sdg/Rept Nbr:** W05105 34706 **Collection Date:** 01/31/2007 10:18

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 01/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7033401	Uranium	3.35E+01	ug/L	4.1E+00		8.32E-02		3.58E+01	UTOT_KPA	2.52E-02	02/28/2007			70	D
BS	7440-61-1			4.1E+00				93.5		ML	13:12			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.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id: JNVTA1DS **Sdg/Rept Nbr:** W05105 34706 **Collection Date:** 01/31/2007 10:18

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 01/31/2007

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
7033401	Uranium	3.52E+00	ug/L	3.6E-01		8.22E-02		3.52E+00	UTOT_KPA	2.55E-02	02/28/2007			70	D
BS	7440-61-1			3.6E-01				100.0		ML	13:21			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.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id: JNVTD1CS **Sdg/Rept Nbr:** W05105 34706 **Collection Date:** 01/31/2007 11:24

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 01/31/2007

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
7033402	TC-99	5.26E+02	pCi/L	4.1E+01		9.63E+00	100.0	5.38E+02	TC99_ETVDSK	1.269E-01	02/15/2007			70	D
BS	14133-76-7			1.3E+01				97.7		L	15:10			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.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id: JNVTL2CS **Sdg/Rept Nbr:** W05105 34706 **Collection Date:** 01/30/2007 10:09

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 01/30/2007

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
7033403	CO-60	3.54E+01	pCi/L	8.8E+00		5.53E+00		3.82E+01	GAMMALL_GS	1.9996E+00	02/23/2007			70	D
BS	10198-40-0			8.8E+00				92.6		L	13:44			130	
7033403	CS-137	2.78E+01	pCi/L	8.3E+00		5.34E+00		2.50E+01	GAMMALL_GS	1.9996E+00	02/23/2007			70	D
BS	10045-97-3			8.3E+00				111.2		L	13:44			130	
7033403	EU-152	6.79E+01	pCi/L	1.9E+01	U	2.59E+01		7.70E+01	GAMMALL_GS	1.9996E+00	02/23/2007			70	D
BS	14683-23-9			1.9E+01				88.1		L	13:44			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.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id: JNVTP1CS **Sdg/Rept Nbr:** W05105 34706 **Collection Date:** 01/31/2007 11:38

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 01/31/2007

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
7033404	U-234	7.97E+00	pCi/L	1.6E+00		1.87E-01	97.0	8.60E+00	UISO_PLATE_	2.001E-01	02/16/2007			70	D
BS	13966-29-5			9.5E-01				92.7		L	14:22			130	
7033404	U-235	2.27E-01	pCi/L	1.6E-01		1.44E-01	97.0	3.92E-01	UISO_PLATE_	2.001E-01	02/16/2007			70	D
BS	15117-96-1			1.6E-01				57.8		L	14:22			130	
7033404	U-238	8.16E+00	pCi/L	1.6E+00		2.03E-01	97.0	9.00E+00	UISO_PLATE_	2.001E-01	02/16/2007			70	D
BS	U-238			9.6E-01				90.7		L	14:22			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.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id: JNVTT1CS **Sdg/Rept Nbr:** W05105 34706 **Collection Date:** 01/30/2007 10:16

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 01/30/2007

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
7033405	PU-239	4.68E+00	pCi/L	1.2E+00		2.13E-01	82.2	4.58E+00	PUISO_PLATE	2.003E-01	02/16/2007			70	D
BS	PU-239/240			8.9E-01				102.1		L	14:24			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.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id: JNVTX1CS **Sdg/Rept Nbr:** W05105 34706 **Collection Date:** 01/30/2007 10:49

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 01/30/2007

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
7033406	SR-90	1.35E+01	pCi/L	2.2E+00		6.05E-01	62.1	1.36E+01	SRISO_SEP_P	9.997E-01	02/25/2007			70	D
BS	10098-97-2			9.2E-01				99.2		L	08:56			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.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id:	JNN2J1HR	**Sdg/Rept Nbr:**	W05105 34706	**Collection Date:**	01/30/2007 10:49
Client Id:	B1LPB9	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	01/30/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-001	MW6-SBB-A19981								AU	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7033406	SR-90	2.28E-01	pCi/L	2.0E-01	U	3.92E-01	80.5		SRISO_SEP_P	9.975E-01	02/25/2007	100.0	1.1		D
DUP	10098-97-2	7.60E-02		1.9E-01						L	09:00	20.0	3		

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

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id: JNNJK1HR **Sdg/Rept Nbr:** W05105 34706 **Collection Date:** 01/30/2007 10:09

Client Id: B1LPD6 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 01/30/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-001	MW6-SBB-A19981								AV	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7033403	BE-7	5.55E+00	pCi/L	2.0E+01	U	3.88E+01			GAMMALL_GS	1.9694E+00	02/22/2007	60.8	0.3		D
DUP	13966-02-4	1.04E+01		2.0E+01						L	17:58	20.0	3		
7033403	CO-60	-1.19E+00	pCi/L	2.4E+00	U	4.28E+00			GAMMALL_GS	1.9694E+00	02/22/2007	0.0	0.4		D
DUP	10198-40-0	-4.20E-01		2.4E+00						L	17:58	20.0	3		
7033403	CS-134	2.84E+00	pCi/L	2.6E+00	U	5.61E+00			GAMMALL_GS	1.9694E+00	02/22/2007	373.5	2.		D
DUP	13967-70-9	-8.60E-01		2.6E+00						L	17:58	20.0	3		
7033403	CS-137	-1.14E+00	pCi/L	2.3E+00	U	3.86E+00			GAMMALL_GS	1.9694E+00	02/22/2007	0.0	0.6		D
DUP	10045-97-3	-2.50E-01		2.3E+00						L	17:58	20.0	3		
7033403	EU-152	-2.70E+00	pCi/L	5.4E+00	U	9.06E+00			GAMMALL_GS	1.9694E+00	02/22/2007	0.0	0.2		D
DUP	14683-23-9	-3.51E+00		5.4E+00						L	17:58	20.0	3		
7033403	EU-154	-3.96E-02	pCi/L	6.4E+00	U	1.28E+01			GAMMALL_GS	1.9694E+00	02/22/2007	0.0	0.6		D
DUP	15585-10-1	-2.96E+00		6.4E+00						L	17:58	20.0	3		
7033403	EU-155	9.31E-01	pCi/L	3.9E+00	U	7.20E+00			GAMMALL_GS	1.9694E+00	02/22/2007	46.6	0.1		D
DUP	14391-16-3	5.79E-01		3.9E+00						L	17:58	20.0	3		
7033403	K-40	-1.16E+01	pCi/L	4.4E+01	U	9.48E+01			GAMMALL_GS	1.9694E+00	02/22/2007	0.0	0.2		D
DUP	13966-00-2	-5.71E+00		4.4E+01						L	17:58	20.0	3		
7033403	RU-106	-3.33E+00	pCi/L	2.2E+01	U	3.99E+01			GAMMALL_GS	1.9694E+00	02/22/2007	0.0	0.3		D
DUP	13967-48-1	1.50E+00		2.2E+01						L	17:58	20.0	3		
7033403	SB-125	2.09E+00	pCi/L	5.1E+00	U	1.00E+01			GAMMALL_GS	1.9694E+00	02/22/2007	33.8	0.2		D
DUP	14234-35-6	1.48E+00		5.1E+00						L	17:58	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.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id:	JNPD31DR	**Sdg/Rept Nbr:**	W05105 34706	**Collection Date:**	01/31/2007 11:07
Client Id:	B1LP96	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	01/31/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-001	MW6-SBB-A19981								AW	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7033386	H-3	8.04E+04	pCi/L	3.1E+03		3.00E+02	100.0		906.0_H3_LSC	5.00E-03	02/10/2007	1.1	0.4		D
DUP	10028-17-8	7.95E+04		9.1E+02						L	20:56	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.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id: JNPDG1GR **Sdg/Rept Nbr:** W05105 34706 **Collection Date:** 01/30/2007 10:16
Client Id: B1LP29 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **Received Date:** 01/30/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-001	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
7033405	PU-238	-1.71E-02	pCi/L	8.9E-02	U	2.54E-01	75.9		PUISO_PLATE	2.003E-01	02/16/2007	0.0	0.3		D
DUP	13981-16-3	0.00E+00		8.9E-02						L	14:23	20.0	3		
7033405	PU-239	-8.56E-03	pCi/L	8.7E-02	U	2.17E-01	75.9		PUISO_PLATE	2.003E-01	02/16/2007	0.0	0.1		D
DUP	PU-239/240	0.00E+00		8.7E-02						L	14:23	20.0	3		

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

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id:	JNPDL1CR	**Sdg/Rept Nbr:**	W05105 34706	**Collection Date:**	01/31/2007 11:24
Client Id:	B1LNN9	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	01/31/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-001	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
7033402	TC-99	5.81E+01	pCi/L	9.6E+00		9.71E+00	100.0		TC99_ETVDSK	1.258E-01	02/15/2007	11.3	1.		D
DUP	14133-76-7	6.50E+01		5.7E+00						L	15:10	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.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id: JNPDM1HR **Sdg/Rept Nbr:** W05105 34706 **Collection Date:** 01/31/2007 11:38
Client Id: B1LD83 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **Received Date:** 01/31/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-012	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
7033404	U-234	6.40E+00	pCi/L	1.4E+00		1.57E-01	105.7		UISO_PLATE_	2.00E-01	02/16/2007	14.8	1.1		D
DUP	13966-29-5	7.42E+00		8.9E-01						L	14:20	20.0	3		
7033404	U-235	4.02E-01	pCi/L	2.3E-01		1.57E-01	105.7		UISO_PLATE_	2.00E-01	02/16/2007	30.4	0.9		D
DUP	15117-96-1	5.46E-01		2.2E-01						L	14:20	20.0	3		
7033404	U-238	7.02E+00	pCi/L	1.5E+00		2.21E-01	105.7		UISO_PLATE_	2.00E-01	02/16/2007	5.7	0.4		D
DUP	U-238	6.63E+00		9.3E-01						L	14:20	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.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id:	JNPDN1HR	**Sdg/Rept Nbr:**	W05105 34706	**Collection Date:**	01/31/2007 10:18
Client Id:	B1LD78	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	01/31/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-012	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
7033401	Uranium	7.61E+00	ug/L	7.8E-01		8.22E-02			UTOT_KPA	2.55E-02	02/28/2007	.6	0.1		D
DUP	7440-61-1	7.56E+00		7.8E-01						ML	13:29	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.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id:	JNPDR1HR	**Sdg/Rept Nbr:**	W05105 34706	**Collection Date:**	01/31/2007 11:38
Client Id:	B1LD82	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	01/31/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-012	MW6-SBB-A19981								BB	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7033385	BETA	1.83E+01	pCi/L	4.1E+00		2.85E+00	100.0		9310_ALPHAB	2.042E-01	02/23/2007	1.7	0.1		D
DUP	12587-47-2	1.80E+01		2.4E+00						L	11:28	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.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id:	JNPDW1CR	**Sdg/Rept Nbr:**	W05105 34706	**Collection Date:**	01/31/2007 12:16
Client Id:	B1LC51	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	**DUP**	**Received Date:**	01/31/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-012	MW6-SBB-A19981								BE	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7033400	I-129L	4.91E-01	pCi/L	1.2E-01	U	3.84E-01	98.9		I129LL_SEP_L	3.9299E+00	02/26/2007	130.6	4.6		D
DUP	15046-84-1	1.03E-01		1.2E-01						L	07:20	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.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id:	JNPED1DR	**Sdg/Rept Nbr:**	W05105 34706	**Collection Date:**	01/31/2007 12:53
Client Id:	B1LRM6	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	01/31/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-001	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
7033381	ALPHA	4.86E-01	pCi/L	1.0E+00	U	2.26E+00	100.0		9310_ALPHAB	1.787E-01	02/23/2007	85.1	1.		D
DUP	12587-46-1	1.21E+00		1.0E+00						L	15:44	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.

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id:	JNPDR1JW	**Sdg/Rept Nbr:**	W05105 34706	**Collection Date:**	01/31/2007 11:38
Client Id:	B1LD82	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	**MS**	**Received Date:**	01/31/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-012	MW6-SBB-A19981								BC	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7033401	Uranium	3.37E+01	ug/L	6.8E+00		8.28E-02		3.57E+01	UTOT_KPA	2.53E-02	02/28/2007			60	D
MS	7440-61-1			6.8E+00				94.5		ML	13:34			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.

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05105.Edd, h:\Reportdb\edd\FeadIV\Rad\34706.Edd

Lab Sample Id: JNPDT1EW **Sdg/Rept Nbr:** W05105 34706 **Collection Date:** 01/31/2007 12:33
Client Id: B1LD68 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** MS **Received Date:** 01/31/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-012	MW6-SBB-A19981								BD	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7033402	TC-99	3.43E+03	pCi/L	2.4E+02		9.68E+00	100.0	3.57E+03	TC99_ETVDSK	1.262E-01	02/15/2007			60	D
MS	14133-76-7			3.2E+01				96.0		L	15:10			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

2/19/2007 5:15:57 PM

Lot No., Due Date: J7A310368; 03/16/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7033405; RPUISO Pulso by ALP

SDG, Matrix: W05105; 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:

First Level Review [signature] **Date** 2/14/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7033405
W05105

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

Comments on any "No" response:

Second Level Review: Cheryl A. Adam Date: 2-20-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/19/2007 4:53:09 PM

Lot No., Due Date: J7A310370; 03/16/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7033404; RUISO UIso by ALP

SDG, Matrix: W05105; 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:

First Level Review _____ **Date** 2/19/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7023404
W05105

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: 2-20-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/26/2007 3:46:40 PM

Lot No., Due Date: J7A310331,J7A310249,J7A310370,J7A310376; 03/16/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7033381; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05105; 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 => JNN2R1AC 185.30<200.00 JNPED1AA 178.00<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=> JNPED1AD ALPHA 85.0 (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. 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 => JNN2J1AC ALPHA 2.3E+00 L:1.7E+00 JNN2R1AC ALPHA 5.3E+00 L:2.1E+00 JNPDM1AC ALPHA 7.8E+00 L:1.7E+00 JNPDN1AC ALPHA 5.1E+00 L:2.0E+00 JNPDR1AC ALPHA 9.6E+00 L:2.0E+00		✓	
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => ALPHA OK; No Callin Level Found => ALPHA	✓		

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 Lisa Antonson **Date** 2/26/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 703381
W05105

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: 2-27-07

Clouseau
Nonconformance Memo

SEVERN TRENT SERVICES

NCM #: **10-09485**
NCM Initiated By: Lisa Antonson
Date Opened: 02/26/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Alpha by GPC-Am
Lot #'s (Sample #'s): J7A310249 (1,3), J7A310331 (2,3), J7A310370 (1,2,3), J7A310376 (1), J7B020000 (381),
QC Batches: 7033381

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

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	02/26/2007	In the first count, the LCS for this Alpha batch had a low yield of 73%. Sample was recounted and returned with an acceptable yield of 83%. Data accepted.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	02/26/2007	NA

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

2/26/2007 12:08:42 PM

Lot No., Due Date: J7A310331,J7A310249,J7A310370,J7A310376; 03/16/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7033385; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05105; 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 => JNN2R1AD 149.20<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. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK	✓		
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	✓		
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => JNNJK1AD BETA 7.9E+00 L:2.6E+00 JNNKC1AD BETA 7.2E+00 L:2.8E+00 JNN2J1AD BETA 1.4E+01 L:2.7E+00 JNN2R1AD BETA 1.2E+01 L:3.7E+00 JNPDM1AD BETA 1.9E+01 L:3.0E+00 JNPDN1AD BETA 1.2E+01 L:3.0E+00 JNPDR1AD BETA 1.8E+01 L:3.1E+00 JNPED1AC BETA 7.2E+00 L:2.8E+00		✓	
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => BETA	✓		

OK; No Callin Level Found => BETA

8.24 Result + 3s >=0, Not Too Negative. 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 Lisa Antonson **Date** 2/26/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7033385
W05105

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: 2-27-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/28/2007 2:26:45 PM

Lot No., Due Date: J7A310331,J7A310249,J7A310368; 03/16/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7033406; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05105; 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:

First Level Review Angela Long **Date** 2/28/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7033406

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: Jodie C. Date: 2/28/07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/23/2007 4:14:43 PM

Lot No., Due Date: J7A310331,J7A310249,J7A310368; 03/16/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7033403; RGAMMA Gamma by GER

SDG, Matrix: W05105; 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:

LCS recounted due to a 1332 kev Co-60 peak that was split and counld not be unspilt. Recounted and the recount was OK. - NCM

First Level Review _____ **Date** 2/23/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7033423
W0J105

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: 2-26-07

Clouseau
Nonconformance Memo

SEVERN TRENT SERVICES

NCM #: **10-09481**
NCM Initiated By: Steven Wheland
Date Opened: 02/23/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Gamma by GER
Lot #'s (Sample #'s): J7A310249 (1,3), J7A310331 (2,3), J7A310368 (1,2), J7B020000 (403),
QC Batches: 7033403

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

Problem Description / Root Cause

Name	Date	Description
Steven Wheland	02/23/2007	The Co-60 1332 kev peak was split and could not be unsplit. The LCS was recounted and the Co-60 peak was OK.

Corrective Action

Name	Date	Corrective Action
Steven Wheland	02/23/2007	Report data

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

2/28/2007 11:14:12 AM

Lot No., Due Date: J7A310331,J7A310249,J7A310373,J7A310368,J7A310371,J7A310374; 03/16/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7033400; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05105; 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:

First Level Review [signature] **Date** 2/28/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 703340
W05105

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

Comments on any "No" response:

Second Level Review: Sherryl A Adam Date: 2-28-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/16/2007 11:41:39 AM

Lot No., Due Date: J7A310249,J7A310368,J7A310369,J7A310370; 03/16/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7033402; RTC99 Tc-99 by LSC

SDG, Matrix: W05105; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples No Samples found in Batch!			✓
8.02 Final Results Are in the Appropriate Activity Units No Samples found in Batch!			✓
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 => JNPDT1AE 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. 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. No Results found in Batch!			✓
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. 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** 2-16-07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7053402
W05105

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: 2-20-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/12/2007 9:30:01 AM

Lot No., Due Date: J7A310331,J7A310249,J7A310373,J7A310370,J7A310374; 03/16/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7033386; RTRITIUM H-3 by LSC

SDG, Matrix: W05105; 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 => JNNJK1AA 5.00<10.00 JNNKC1AA 5.00<10.00 JNN2F1AA 5.00<10.00 JNN2J1AA 5.00<10.00 JNN2R1AA 5.00<10.00 JNPDM1AA 5.00<10.00 JNPDN1AA 5.00<10.00 JNPDR1AA 5.00<10.00 JNPDT1AA 5.00<10.00 JNPD31AA 5.00<10.00 JNPEC1AA 5.00<10.00 Q:VB ok AL 2/12/07		✓	
8.07 The Correct Count Geometry was Used. Count Geometry => JNVN21AF SVP15/5<>SVP10/10 JNVN21AG SVP15/5<>SVP10/10 JNVN21AA SVP15/5<>SVP10/10 JNVN21AC SVP15/5<>SVP10/10 JNNJK1AA SVP15/5<>SVP10/10 JNNKC1AA SVP15/5<>SVP10/10 JNN2F1AA SVP15/5<>SVP10/10 JNN2J1AA SVP15/5<>SVP10/10 JNN2R1AA SVP15/5<>SVP10/10 JNPDM1AA SVP15/5<>SVP10/10 JNPDN1AA SVP15/5<>SVP10/10 JNPDR1AA SVP15/5<>SVP10/10 JNVN21AH SVP15/5<>SVP10/10 JNVN21AD SVP15/5<>SVP10/10 JNVN21AE SVP15/5<>SVP10/10 JNPDT1AA SVP15/5<>SVP10/10 JNPD31AA SVP15/5<>SVP10/10 JNPD31AD SVP15/5<>SVP10/10 JNPEC1AA SVP15/5<>SVP10/10 Q:VC ok AL 2/12/07		✓	
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. OK	✓		
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. OK	✓		

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

First Level Review Angela Long **Date** 2/12/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7033386
W05105

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: 2-13-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/28/2007 3:34:50 PM

Lot No., Due Date: J7A310370; 03/16/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7033401; RUNAT UNat by KPA

SDG, Matrix: W05105; 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:

First Level Review _____ **Date** 2/28/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7033401
W05105

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: 3-1-07

PNNL J7A310249
W05105
Due 03-16-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-001-274

Page 1 of 1

Collector Fluor Hanford F.M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	HNF-N-506 3	**Ice Chest No.** ROSS **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
B1LPD6		W	1-30-07	1009	1x20-mL P	Activity Scan	None
B1LPD6		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LPD6		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LPD6		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1LPD6		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1LPD6		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						JNNJK	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F.M. HALL			JAN 30 2007 1315		S. Smith	S. Smith	01-30-07 1315
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

PNNL JTA310249
W05105
Due 03-16-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-428**

Page 1 of 1

Collector Fluor Hanford F. M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	HNF-N-506 3	**Ice Chest No.** R055 **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
B1LR48		W	1-30-07	1009	1x20-mL P	Activity Scan	None
B1LR48		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JNNJ6	

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
Fluor Hanford F. M. HALL	F. M. Hall	JAN 30 2007 1315	S. Smith	S. Smith	JAN 30 2007 1315
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

PNNL J7A310249
WO 5105
Due 03-16-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-001-288

Page 1 of 1

Collector Fluor Hanford F. M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	HNF-N-506 3	**Ice Chest No.** Ross **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
B1LPF0		W	1-30-07	1159	1x20-mL P	Activity Scan	None
B1LPF0		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LPF0		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LPF0		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1LPF0		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1LPF0		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						JNNKC	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F. M. HALL			JAN 30 2007 13:15		S. Smith	S. Smith	JAN 30 2007 1315
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

PNNL J7A310249
WO 5105
Due 03.16.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-431**

Page 1 of 1

Collector Fluor Hanford F.M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	HiVF-N-506 3	**Ice Chest No.** Ross **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
B1LR49		W	1-30-07	1159	1x20-mL P	Activity Scan	None
B1LR49		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JNNKP	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F.M. HALL			JAN 30 2007 1315		S. Smith	S. Smith	JAN 30 2007 1315
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: 07-30-07 1315

Client: PGW SDG #: W05105 NA [ ] SAF #: S07-001 NA [ ]

Work Order Number: J7A310249 Chain of Custody # S07-001-274, 428, 288, 431

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? *
    *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): _____

Sample Custodian: S. Smith Date: 07-30-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL J7A310331
WO 5105
due 03-16-07
Fluor Hanford

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-400**

Page 1 of 1

Collector R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	HNF-N-506-2	**Ice Chest No.** SAWS-115 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol 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
B1LPJ5		W	1-30-7	0912	1x20-mL P	Activity Scan	None
B1LPJ5		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LPJ5		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						JNN2F	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			JAN 30 2007 14:15				JAN 30 2007 1415
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

PNNL J7A310331
W05105
Due 03-16-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-001-250

Collector Fluor Hanford R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	HWF-N-506-2	**Ice Chest No.** SAWS-115 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol 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
B1LPB9		W	1-30-7	1049	1x20-mL P	Activity Scan	None
B1LPB9		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LPB9		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LPB9		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1LPB9		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1LPB9		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						JNN2J	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			JAN 30 2007 1415		S. Smith	S. Smith	JAN 30 2007 1415
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

PNNL J7A310331
WO 5105
Due 03-16-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-170**

Collector Fluor Hanford R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	HNF-N-506-2	**Ice Chest No.** SAWS-115 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol 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
B1LP55		W	1-30-07	1202	1x20-mL P	Activity Scan	None
B1LP55		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LP55		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1LP55		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1LP55		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						JNN2R	

Relinquished By Fluor Hanford R. T. SICKLE Print Sign	Date/Time 1415 JAN 30 2007	Received By J. Smith Print J. Smith Sign	Date/Time 1415 JAN 30 2007
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

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

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 01-30-07 14:15

Client: PGW SDG #: W105105 NA [ ] SAF #: 807-001 NA [ ]

Work Order Number: JTA310331 Chain of Custody # 807-001-400, 250, 170

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: 01-30-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL J1A310368
W05105
Due 03-16-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-338**

Collector Fluor Hanford D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	HNF-N-5264	**Ice Chest No.** 3ML-595 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
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
B1LP29		W	1-30-07	1016	1x20-mL P	Activity Scan	None
B1LP29		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LP29		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1LP29		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LP29		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1LP29		W			1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	HNO3 to pH <2
						JNPDG	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. E. PARCHEN			JAN 30 2007 1448		S. Smith	S. Smith	JAN 30 2007 1448
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

PNNL J7A310368
WO5105
Due 03/16/07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-322**

Collector Fluor Hanford D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	HNF-N-5761	**Ice Chest No.** SMIL-595 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
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
B1LP19		W	1-30-07	1133	1x20-mL P	Activity Scan	None
B1LP19		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LP19		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1LP19		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LP19		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1LP19		W			1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	HNO3 to pH <2
						JNPDH	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. E. PARCHEN			JAN 30 2007 1448		S. Smith	S. Smith	JAN 30 2007 1448
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

PNNL J7A310368
W05105
Due 03-16-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-70**

Page 1 of 1

Collector L.D. WALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	HNF-M-506-4	**Ice Chest No.** 8A **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
B1LNP9		W	1/30/7	1159	1x20-mL P	Activity Scan	None
B1LNP9		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						JNPRJ	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
L.D. WALL	L.D. Wall	JAN 30 2007	1448	S. Smith	S. Smith	JAN 30 2007	1448
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

PNNL J7A310368
W05105
Due 03-16-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-28**

Collector L.D. WALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	HNF-M-506-4	**Ice Chest No.** SML-562 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all 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
B1LNT7		W	1/30/7	1110	1x20-mL P	Activity Scan	None
B1LNT7		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						JNPDK	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
L.D. WALL	L.D. Wall	JAN 30 2007	1448	L. Smith	L. SMITH	JAN 30 2007	1448
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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 07-30-07 1448

Client: PGW SDG #: W05105 NA [ ] SAF #: S07-001 NA [ ]

Work Order Number: JTA310368 Chain of Custody # S07-001-338, 332, 70, 28

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? *
    *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): _____

Sample Custodian: S. Smith Date: 07-30-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL J7A310369
W05105
Due 03-16-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-001-384

Collector Fluor Hanford F. M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	HNF-N-506 3	**Ice Chest No.** Ross **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
B1LNN9		W	1-31-07	1124	1x20-mL P	Activity Scan	None
B1LNN9		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JNPDL	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F. M. HALL			JAN 3 1 2007 1300		Eric Dailey		JAN 3 1 2007 1300
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 1/31/07 1300

Client: PNL SDG #: W05105 NA [ ] SAF #: S07-001 NA [ ]

Work Order Number: J7A310369 Chain of Custody #: S07-001-384

Shipping Container ID: _____ Air Bill # _____

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

Sample Custodian: [signature] Date: 1/31/07 1300

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 J7A310370
W05105
due 03-16-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-012-657**

Page 1 of 1

Collector L.D. WALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-012	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, DECEMBER 2006	HNF-N-506-4	**Ice Chest No.** 8A **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
B1LD83		W	1/31/7	1138	1x20-mL P	Activity Scan	None
B1LD83		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1LD83		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1LD83		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1LD83		W			1x1000-mL G/P	UISO_PLATE_AEA: List-1 (3)	HNO3 to pH <2
B1LD83		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JNPDM	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
L.D. WALL	L.D. Wall	JAN 3 1 2007	1425	E. Darby	Eric Darby	JAN 3 1 2007	1425
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

PNNL J7A310370
W05705
Due 03-16-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-012-648

Collector L.D. WALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-012	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, DECEMBER 2006	HNF-N-506-4	**Ice Chest No.** 8A **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
B1LD78		W	1/31/7	1018	1x20-mL P	Activity Scan	None
B1LD78		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1LD78		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1LD78		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1LD78		W			1x1000-mL G/P	UISO_PLATE_AEA: List-1 (3)	HNO3 to pH <2
B1LD78		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JNPDN	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
L.D. WALL	L.D. Wall	JAN 3 1 2007	1425	Eric Darby	Eric Darby	JAN 3 1 2007	1425
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

PNNL JA310370
W05105
due 03-16-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-012-656

Page 1 of 1

Collector: L.D. WALL	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: S07-012	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, DECEMBER 2006	HHF-11-506-4	Ice Chest No.: 8A 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
B1LD82		W	1/31/7	1138	1x20-mL P	Activity Scan	None
B1LD82		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1LD82		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1LD82		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1LD82		W	↓	↓	1x1000-mL G/P	UISO_PLATE_AEA: List-1 (3)	HNO3 to pH <2
B1LD82		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JNPDR	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
L.D. WALL		L.D. Wall	JAN 31 2007 1425		ERIC DALY		JAN 31 2007 1425
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

PNNL J7A310370
WO 5105
Due 03-16-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-012-632

Collector L.D. WALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-012	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, DECEMBER 2006	HNF-M-506-4	**Ice Chest No.** 8A **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
B1LD68		W	1/31/7	1233	1x20-mL P	Activity Scan	None
B1LD68		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1LD68		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1LD68		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JNPDT	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
L.D. WALL	L.D. Wall	JAN 3 1 2007	1425	E Darby	Eric Darby	JAN 3 1 2007	1425
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: 1/31/07 1425

Client: PNL SDG #: W05105 NA [ ] SAF #: _____ NA [ ]

Work Order Number: J7A310370 Chain of Custody # _____

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? *
    *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): _____

Sample Custodian: Ei Daly Date: 1/31/07 1425

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 J7A310371
WO 5105
Due 03-16-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-012-508

Page 1 of 1

Collector Fluor Hanford D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-012	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, DECEMBER 2006	HNF-N-506-1	**Ice Chest No.** SML-595 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
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
B1LC51		W	1-31-07	1216	1x20-mL P	Activity Scan	None
B1LC51		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						(JNPDW)	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. E. PARCHEN			JAN 31 2007 1500		Eric Darling	Eric Darling	JAN 31 2007 1505
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: 11/31/07 1505

Client: PNL SDG #: W05105 NA [ ] SAF #: S07-012 NA [ ]

Work Order Number: J7A310371 Chain of Custody # S07-012-308

Shipping Container ID: _____ Air Bill # _____

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

Sample Custodian: [signature] Date: 11/31/07 1505

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 J7A310373
W05105
due 03-16-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-232**

Page 1 of 1

Collector Fluor Hanford D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	HNF-N-5061	**Ice Chest No.** ML-595 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
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
B1LP96		W	1-31-07	1107	1x20-mL P	Activity Scan	None
B1LP96		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LP96		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						JNPD3	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. E. PARCHEN			JAN 31 2007 1505		ERIC DOWLING		JAN 31 2007 1505
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: 1/31/07 1505

Client: PNL SDG #: W05105 NA ( ) SAF #: S07-001 NA ( )

Work Order Number: J7A310373 Chain of Custody # S07-001-232

Shipping Container ID: _____ Air Bill # _____

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

Sample Custodian: Eric Darby Date: 1/31/07 1505

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 J7A310374
W05105
Due 03-16-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **A07-001-7**

Page 1 of 1

Collector Fluor Hanford R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. A07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title LLWMA(4)-PA, JANUARY 2007	HNF-N-506-2	**Ice Chest No.** SAWS-115 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol Other	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LN33		W	1-31-7	1134	1x20-mL P	Activity Scan	None
B1LN33		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LN33		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						JNPEC	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			1500 JAN 31 2007		Eric Darby	Eric Darby	1500 JAN 31 2007
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 1/31/07 1500

Client: PNL SDG #: W05105 NA [ ] SAF #: A07-001 NA [ ]

Work Order Number: OTA310374 Chain of Custody # A07-001-7

Shipping Container ID: _____ Air Bill # _____

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

Sample Custodian: Ev Dorly Date: 1/31/07 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 J7A310376
W05105
due 03-16-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W07-001-61

Collector Fluor Hanford R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, JANUARY 2007	HNF-N-506-2	**Ice Chest No.** 5AW3-115 **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
B1LRM6		W	1-31-07	1253	1x20-mL P	Activity Scan	None
B1LRM6		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						JNPED	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			JAN 31 2007 1500		Eric Darby	Eric Darby	JAN 31 2007 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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 1/31/07 1500

Client: PNL SDG #: W05105 NA [ ] SAF #: W07-001 NA [ ]

Work Order Number: 07A310374 Chain of Custody # W07-001-61

Shipping Container ID: _____ Air Bill # _____

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

Sample Custodian: E. Darby Date: 1/31/07 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

2/13/2007 2:22:08 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

6D Pu PrpRC5016, SepRC5010(5039)
SO Plutonium-238,239/40 by Alpha Spec
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 03/16/2007 W05105

Sep1 DT/Tm Tech:

Batch: 7033405 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	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
37 1 JNPDG-1-AD J7A310368-1-SAMP 01/30/2007 10:16	AmtRec: 20ML,500ML,4XLP,3X4LP #Containers: 9	201.00g,in	PUTC10490 01/23/07,pd 08/04/06,r	200		Scr:	Alpha: 1.68E-03 uCi/Sa	Beta: -4.68E-03 uCi/Sa
39 2 JNPDG-1-AG-X J7A310368-1-DUP 01/30/2007 10:16	AmtRec: 20ML,500ML,4XLP,3X4LP #Containers: 9	200.30g,in	PUTC10491 01/23/07,pd 08/04/06,r			Scr:	Alpha: 1.68E-03 uCi/Sa	Beta: -4.68E-03 uCi/Sa
40 3 JNPDH-1-AD J7A310368-2-SAMP 01/30/2007 11:33	AmtRec: 20ML,500ML,4XLP,3X4LP #Containers: 9	200.30g,in	PUTC10492 01/23/07,pd 08/04/06,r			Scr:	Alpha: 1.30E-03 uCi/Sa	Beta: -3.46E-03 uCi/Sa
41 4 JNVTT-1-AA-B J7B020000-405-BLK 01/30/2007 10:16	AmtRec: #Containers: 1	201.20g,in	PUTC10493 01/23/07,pd 08/04/06,r			Scr:	Alpha:	Beta:
42 5 JNVTT-1-AC-C J7B020000-405-LCS 01/30/2007 10:16	AmtRec: #Containers: 1	200.30g,in	PUSG0901 01/18/07,pd 08/04/06,r			Scr:	Alpha:	Beta:

Comments: pH<2.0 JB 2-13-07

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

JNPDG1AD-SAMP Constituent List:

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

2/13/2007 2:03:53 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 03/16/2007 W05105

Sep1 DT/Tm Tech:

Batch: 7033404 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 **JNPDM-1-AF** J7A310370-1-SAMP 01/31/2007 11:38			200.20g,in	200.20g	UITC17026 02/12/07,pd 01/20/04,r	200				
		AmtRec: 20ML,2X500ML,3XLP		#Containers: 6			Scr:	Alpha: 5.25E-04 uCi/Sa		Beta: -1.90E-05 uCi/Sa
2 **JNPDM-1-AH-X** J7A310370-1-DUP 01/31/2007 11:38			200.00g,in	200.00g	UITC17027 02/12/07,pd 01/20/04,r					
		AmtRec: 20ML,2X500ML,3XLP		#Containers: 6			Scr:	Alpha: 5.25E-04 uCi/Sa		Beta: -1.90E-05 uCi/Sa
3 **JNPDN-1-AF** J7A310370-2-SAMP 01/31/2007 10:18			200.40g,in	200.40g	UITC17028 02/12/07,pd 01/20/04,r					
		AmtRec: 20ML,2X500ML,3XLP		#Containers: 6			Scr:	Alpha: -5.88E-04 uCi/Sa		Beta: -6.70E-05 uCi/Sa
4 **JNPDR-1-AF** J7A310370-3-SAMP 01/31/2007 11:38			200.40g,in	200.40g	UITC17029 02/12/07,pd 01/20/04,r					
		AmtRec: 20ML,2X500ML,3XLP		#Containers: 6			Scr:	Alpha: -8.08E-04 uCi/Sa		Beta: 5.60E-04 uCi/Sa
5 **JNVTP-1-AA-B** J7B020000-404-BLK 01/31/2007 11:38			202.40g,in	202.40g	UITC17030 02/12/07,pd 01/20/04,r					
		AmtRec:		#Containers: 1			Scr:	Alpha:		Beta:
6 **JNVTP-1-AC-C** J7B020000-404-LCS 01/31/2007 11:38			200.10g,in	200.10g	UISG1398 11/22/06,pd 01/20/04,r					
		AmtRec:		#Containers: 1			Scr:	Alpha:		Beta:

2/26/2007 10:04:29 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 03/16/2007

Sep1 DT/Tm Tech:

Batch: 7033381 WATER pCi/L

SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JNNJK-1-AC J7A310249-1-SAMP 01/30/2007 10:09		199.80g,in AmtRec: 20ML,5XLP,3X4LP	#Containers: 9					Scr:	Alpha: 1.28E-03 uCi/Sa	Beta: 3.25E-04 uCi/Sa
2 JNNKC-1-AC J7A310249-3-SAMP 01/30/2007 11:59		200.00g,in AmtRec: 20ML,5XLP,3X4LP	#Containers: 9					Scr:	Alpha: 1.23E-03 uCi/Sa	Beta: 1.13E-03 uCi/Sa
3 JNN2J-1-AC J7A310331-2-SAMP 01/30/2007 10:49		200.80g,in AmtRec: 20ML,5XLP,3X4LP	#Containers: 9					Scr:	Alpha: 2.68E-03 uCi/Sa	Beta: -8.98E-04 uCi/Sa
4 JNN2R-1-AC J7A310331-3-SAMP 01/30/2007 12:02		185.30g,in AmtRec: 20ML,5XLP,4LP	#Containers: 7					Scr:	Alpha: 9.55E-04 uCi/Sa	Beta: -5.77E-04 uCi/Sa
5 JNPDM-1-AC J7A310370-1-SAMP 01/31/2007 11:38		200.60g,in AmtRec: 20ML,2X500ML,3XLP	#Containers: 6					Scr:	Alpha: 5.25E-04 uCi/Sa	Beta: -1.90E-05 uCi/Sa
6 JNPDN-1-AC J7A310370-2-SAMP 01/31/2007 10:18		199.70g,in AmtRec: 20ML,2X500ML,3XLP	#Containers: 6					Scr:	Alpha: -5.88E-04 uCi/Sa	Beta: -6.70E-05 uCi/Sa
7 JNPDR-1-AC J7A310370-3-SAMP 01/31/2007 11:38		200.50g,in AmtRec: 20ML,2X500ML,3XLP	#Containers: 6					Scr:	Alpha: -8.08E-04 uCi/Sa	Beta: 5.60E-04 uCi/Sa

2/26/2007 10:04:32 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 03/16/2007

Sep1 DT/Tm Tech:

Batch: 7033381 **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 JNPED-1-AA J7A310376-1-SAMP 01/31/2007 12:53		178.00g,in AmtRec: 20ML,LP	#Containers: 2					Scr:	Alpha: 8.06E-05 uCi/Sa	Beta: 4.32E-05 uCi/Sa
9 JNPED-1-AD-X J7A310376-1-DUP 01/31/2007 12:53		178.70g,in AmtRec: 20ML,LP	#Containers: 2					Scr:	Alpha: 8.06E-05 uCi/Sa	Beta: 4.32E-05 uCi/Sa
10 JNVNM-1-AA-B J7B020000-381-BLK 01/31/2007 12:53		204.50g,in AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:
11 JNVNM-1-AC-C J7B020000-381-LCS 01/31/2007 12:53		201.10g,in AmtRec:	ASD4121 01/18/07,pd 02/09/06,r #Containers: 1					Scr:	Alpha:	Beta:
12 JNVNM-2-AC-C J7B020000-381-LCS 01/31/2007 12:53		201.10g AmtRec:	ASD4121 #Containers: 1	1.5	0.7	50	10A	Scr:	1226 2/26/07 Alpha:	Beta:

Comments: JNN2R-SAMP ""
JNPED-SAMP "Comments. Aliquots reduced due to weight screen activity. JB 02/13/07"

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

Sample Preparation/Analysis

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

Balance Id:

Pipet #: _____

AnalyDueDate: 03/16/2007

Sep1 DT/Tm Tech:

Batch: 7033381 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech:

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

```
JNNJK1AC-SAMP Constituent List:
  ALPHA        RDL:3          pCi/L     LCL:        UCL:        RPD:
JNVNM1AA-BLK:
  ALPHA        RDL:3          pCi/L     LCL:        UCL:        RPD:
JNVNM1AC-LCS:
  Am-241       RDL:           pCi/L     LCL:70      UCL:130     RPD:20
JNVNM2AC-LCS:
  Am-241       RDL:           pCi/L     LCL:70      UCL:130     RPD:20

JNNJK1AC-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JNVNM1AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JNVNM1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JNVNM2AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

2/13/2007 8:00:01 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: 235

AnalyDueDate: 03/16/2007 W05105

Sep1 DT/Tm Tech:

Batch: 7033385 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 JNNJK-1-AD J7A310249-1-SAMP 01/30/2007 10:09	AmtRec: 20ML,5XLP,3X4LP	200.90g,in	#Containers: 9	1.5	42.3	100	27A Scr:	1219 Alpha: 1.28E-03 uCi/Sa	2/23/07 Beta: 3.25E-04 uCi/Sa	
2 JNNKC-1-AD J7A310249-3-SAMP 01/30/2007 11:59	AmtRec: 20ML,5XLP,3X4LP	200.50g,in	#Containers: 9		60.6		27B Scr:	Alpha: 1.23E-03 uCi/Sa	Beta: 1.13E-03 uCi/Sa	
3 JNN2J-1-AD J7A310331-2-SAMP 01/30/2007 10:49	AmtRec: 20ML,5XLP,3X4LP	201.50g,in	#Containers: 9		76.2		27C Scr:	Alpha: 2.68E-03 uCi/Sa	Beta: -8.98E-04 uCi/Sa	
4 JNN2R-1-AD J7A310331-3-SAMP 01/30/2007 12:02	AmtRec: 20ML,5XLP,4LP	149.20g,in	#Containers: 7		84.1		28A Scr:	Alpha: 9.55E-04 uCi/Sa	Beta: -5.77E-04 uCi/Sa	
5 JNPDM-1-AD J7A310370-1-SAMP 01/31/2007 11:38	AmtRec: 20ML,2X500ML,3XLP	201.90g,in	#Containers: 6		92.8		28B Scr:	Alpha: 5.25E-04 uCi/Sa	Beta: -1.90E-05 uCi/Sa	
6 JNPDN-1-AD J7A310370-2-SAMP 01/31/2007 10:18	AmtRec: 20ML,2X500ML,3XLP	204.00g,in	#Containers: 6		84.3		28C Scr:	Alpha: -5.88E-04 uCi/Sa	Beta: -6.70E-05 uCi/Sa	
7 JNPDR-1-AD J7A310370-3-SAMP 01/31/2007 11:38	AmtRec: 20ML,2X500ML,3XLP	201.30g,in	#Containers: 6		91.3		28D Scr:	Alpha: -8.08E-04 uCi/Sa	Beta: 5.60E-04 uCi/Sa	

2/13/2007 8:00:04 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 03/16/2007

Sep1 DT/Tm Tech:

Batch: 7033385 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 JNPDR-1-AH-X J7A310370-3-DUP 01/31/2007 11:38	AmtRec: 20ML,2X500ML,3XLP	204.20g,in	#Containers: 6	1.5	88.0	100	3/A	12 19	2/23/07	Scr: Alpha: -8.08E-04 uCi/Sa Beta: 5.60E-04 uCi/Sa
9 JNPED-1-AC J7A310376-1-SAMP 01/31/2007 12:53	AmtRec: 20ML,LP	202.40g,in	#Containers: 2		72.4		3,B			Scr: Alpha: 8.06E-05 uCi/Sa Beta: 4.32E-05 uCi/Sa
10 JNVNP-1-AA-B J7B020000-385-BLK 01/31/2007 11:38	AmtRec:	199.40g,in	#Containers: 1		0.1		3/C			Scr: Alpha: Beta:
11 JNVNP-1-AC-C J7B020000-385-LCS 01/31/2007 11:38	AmtRec:	203.50g,in	BESB3000 01/23/07,pd 08/08/06,r #Containers: 1		0.3		3/D			Scr: Alpha: Beta:

Comments: JNN2R-SAMP "Comments. Aliquot reduced due to weight screen activity. JB 02/13/07"

pH <2.0 JB 2-13-07

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

JNNJK1AD-SAMP Constituent List:

BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
JNVNP1AA-BLK:					
BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
JNVNP1AC-LCS:					
Sr-90	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

JNNJK1AD-SAMP Calc Info:

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 03/16/2007

Sep1 DT/Tm Tech:

Batch: 7033385 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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

```
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JNVNP1AA-BLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JNVNP1AC-LCS:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

2/23/2007 2:59:43 PM

Sample Preparation/Analysis

Balance Id:1120482733,E32905

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 03/16/2007

Sep1 DT/Tm Tech: 02/16/2007 13:22,ManisD

Batch: 7033406 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech: 02/23/2007 09:48,ManisD

SEQ Batch, Test: None

Prep Tech: ,ManisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JNNJK-1-AG J7A310249-1-SAMP		1005.00g,in	srtb14490 02/06/07,pd 09/11/06,r	0.7074	1.0	23.7	100	2a 2a	1047 0948	2/24/07 R 2/25/07 R	
						~~02/16/2007 13:22,s1, 02/23/2007~~					
01/30/2007 10:09		AmtRec: 20ML,5XLP,3X4LP	#Containers: 9					Scr:	Alpha: 1.28E-03 uCi/Sa		Beta: 3.25E-04 uCi/Sa
2 JNNKC-1-AG J7A310249-3-SAMP		1002.80g,in	srtb14491 02/06/07,pd 09/11/06,r	0.8634	1.0	24.1	100	2b 2b	1047 0948	2/24/07 R 2/25/07 R	
						~~02/16/2007 13:22,s1, 02/23/2007~~					
01/30/2007 11:59		AmtRec: 20ML,5XLP,3X4LP	#Containers: 9					Scr:	Alpha: 1.23E-03 uCi/Sa		Beta: 1.13E-03 uCi/Sa
3 JNN2J-1-AG J7A310331-2-SAMP		1001.50g,in	srtb14492 02/06/07,pd 09/11/06,r	0.8724	1.0	25	100	2c 2c	1047 0948	2/24/07 R 2/25/07 R	
						~~02/16/2007 13:22,s1, 02/23/2007~~					
01/30/2007 10:49		AmtRec: 20ML,5XLP,3X4LP	#Containers: 9					Scr:	Alpha: 2.68E-03 uCi/Sa		Beta: -8.98E-04 uCi/Sa
4 JNN2J-1-AH-X J7A310331-2-DUP		997.50g,in	srtb14493 02/06/07,pd 09/11/06,r	0.8488	1.0	24.1	100	2d 2d	1047 0948	2/24/07 R 2/25/07 R	
						~~02/16/2007 13:22,s1, 02/23/2007~~					
01/30/2007 10:49		AmtRec: 20ML,5XLP,3X4LP	#Containers: 9					Scr:	Alpha: 2.68E-03 uCi/Sa		Beta: -8.98E-04 uCi/Sa

2/23/2007 2:59:45 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 03/16/2007

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

Balance Id:1120482733,1120482733,1120

Pipet #: _____

Sep1 DT/Tm Tech: 02/16/2007 13:22,ManisD

Sep2 DT/Tm Tech: 02/23/2007 09:48,ManisD

Prep Tech: BockJ,ManisD

Batch: 7033406 **WATER** **pCi/L** **PM, Quote: SA , 57671**
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
5 JNN2R-1-AF J7A310331-3-SAMP		992.10g,in	srtb14494 02/12/07,pd 09/11/06,r	0.7690	1.0	24.9	100		3a	1047 2/24/07 R	
									3a	0948 2/25/07 R	
						~~02/16/2007 13:22,s1, 02/23/2007~~					
01/30/2007 12:02		AmtRec: 20ML,5XLP,4LP	#Containers: 7					Scr:	Alpha: 9.55E-04 uCi/Sa	Beta: -5.77E-04 uCi/Sa	
6 JNPDG-1-AE J7A310368-1-SAMP		1005.60g,in	srtb14495 02/12/07,pd 09/11/06,r	0.8392	1.0	24.6	100		3b	1047 2/24/07 R	
									3b	0948 2/25/07 R	
						~~02/16/2007 13:22,s1, 02/23/2007~~					
01/30/2007 10:16		AmtRec: 20ML,500ML,4XLP,3X4LP	#Containers: 9					Scr:	Alpha: 1.68E-03 uCi/Sa	Beta: -4.68E-03 uCi/Sa	
7 JNPDH-1-AE J7A310368-2-SAMP		1002.90g,in	srtb14496 02/12/07,pd 09/11/06,r	0.8141	1.0	24.1	100		3c	1047 2/24/07 R	
									3c	0948 2/25/07 R	
						~~02/16/2007 13:22,s1, 02/23/2007~~					
01/30/2007 11:33		AmtRec: 20ML,500ML,4XLP,3X4LP	#Containers: 9					Scr:	Alpha: 1.30E-03 uCi/Sa	Beta: -3.46E-03 uCi/Sa	
8 JNPDJ-1-AA J7A310368-3-SAMP		1006.70g,in	srtb14497 02/12/07,pd 09/11/06,r	0.8257	1.0	25.8	100		3d	1047 2/24/07 R	
									3d	0948 2/25/07 R	
						~~02/16/2007 13:22,s1, 02/23/2007~~					
01/30/2007 11:59		AmtRec: 20ML,3XLP	#Containers: 4					Scr:	Alpha: -1.50E-04 uCi/Sa	Beta: 3.52E-04 uCi/Sa	

2/23/2007 2:59:45 PM

Sample Preparation/Analysis

Balance Id:1120482733,1120482733,1120

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 03/16/2007

Sep1 DT/Tm Tech: 02/16/2007 13:22,ManisD

Batch: 7033406 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech: 02/23/2007 09:48,ManisD

SEQ Batch, Test: None

Prep Tech: ,ManisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
9 JNPDK-1-AA J7A310368-4-SAMP		1004.00g,in	srtb14498 02/12/07,pd 09/11/06,r	0.8437 ✓	1.0	24.9	100	4a	1047	2/24/07 r	
						~~02/16/2007 13:22,s1, 02/23/2007~~		4A	0948	2/25/07 r	
01/30/2007 11:10		AmtRec: 20ML,3XLP	#Containers: 4					Scr:	Alpha: 8.49E-05 uCi/Sa	Beta: -3.05E-04 uCi/Sa	
10 JNVTX-1-AA-B J7B020000-406-BLK		1000.70g,in	srtb14499 02/12/07,pd 09/11/06,r	0.5233 ✓	1.0	24.3	100	4b	1047	2/24/07 r	
						~~02/16/2007 13:22,s1, 02/23/2007~~		4b	0948	2/25/07 r	
01/30/2007 10:49		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:	
11 JNVTX-1-AC-C J7B020000-406-LCS		999.70g,in	srsg1316 02/06/07,pd 09/11/06,r	0.6311 ✓	1.0	25	100	4c	1047	2/24/07 r	
						~~02/16/2007 13:22,s1, 02/23/2007~~		4c	0948	2/25/07 r	
01/30/2007 10:49		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:	

Comments: JNN2R-SAMP ""

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

JNNJK1AG-SAMP Constituent List:

2/14/2007 11:56:12 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: DRM

AnalyDueDate: 03/16/2007 W05905

Sep1 DT/Tm Tech: 2/16/07 1:22:16 PM

Batch: 7033406 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech: 2/23/07 9:48:02 AM DRM

SEQ Batch, Test: None

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 JNNJK-1-AG J7A310249-1-SAMP		1005.00g,in	srtb14490 02/06/07,pd 09/11/06,r	1.407 1.9891 0.7074 ✓			100	3"	1810	2/16/07 DD	
YTA16991 Ex:1/3/2008											
01/30/2007 10:09		AmtRec: 20ML,5XLP,3X4LP	#Containers: 9					Scr:	Alpha: 1.28E-03 uCi/Sa		Beta: 3.25E-04 uCi/Sa
2 JNNKC-1-AG J7A310249-3-SAMP		1002.80g,in	srtb14491 02/06/07,pd 09/11/06,r	1.724 1.9968 0.8634 ✓				3"	1843	2/16/07 DD	
YTA16992 Ex:1/3/2008											
01/30/2007 11:59		AmtRec: 20ML,5XLP,3X4LP	#Containers: 9					Scr:	Alpha: 1.23E-03 uCi/Sa		Beta: 1.13E-03 uCi/Sa
3 JNN2J-1-AG J7A310331-2-SAMP		1001.50g,in	srtb14492 02/06/07,pd 09/11/06,r	1.759 2.0162 0.8724 ✓				3"	1916	2/16/07 DD	
YTA16993 Ex:1/3/2008											
01/30/2007 10:49		AmtRec: 20ML,5XLP,3X4LP	#Containers: 9					Scr:	Alpha: 2.68E-03 uCi/Sa		Beta: -8.98E-04 uCi/Sa
4 JNN2J-1-AH-X J7A310331-2-DUP		997.50g,in	srtb14493 02/06/07,pd 09/11/06,r	1.708 2.0123 0.8488 ✓				3"	1950	2/16/07 DD	
YTA16994 Ex:1/3/2008											
01/30/2007 10:49		AmtRec: 20ML,5XLP,3X4LP	#Containers: 9					Scr:	Alpha: 2.68E-03 uCi/Sa		Beta: -8.98E-04 uCi/Sa

2/14/2007 11:56:18 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 03/16/2007

Sep1 DT/Tm Tech:

Batch: 7033406 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	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
5 JNN2R-1-AF J7A310331-3-SAMP YTA16995 Ex:1/3/2008		992.10g,in	srtb14494 02/12/07,pd 09/11/06,r	1.561 2.0399 0.7690			100	3"	2022	2/16/07	
01/30/2007 12:02		AmtRec: 20ML,5XLP,4LP	#Containers: 7					Scr:	Alpha: 9.55E-04 uCi/Sa	Beta: -5.77E-04 uCi/Sa	
6 JNPDG-1-AE J7A310368-1-SAMP YTA16996 Ex:1/3/2008		1005.60g,in	srtb14495 02/12/07,pd 09/11/06,r	1.685 2.0044 0.8392				3"	2056	2/16/07	
01/30/2007 10:16		AmtRec: 20ML,500ML,4XLP,3X4LP	#Containers: 9					Scr:	Alpha: 1.68E-03 uCi/Sa	Beta: -4.68E-03 uCi/Sa	
7 JNPDH-1-AE J7A310368-2-SAMP YTA16997 Ex:1/3/2008		1002.90g,in	srtb14496 02/12/07,pd 09/11/06,r	1.611 1.9789 0.8141				3"	2127	2/16/07	
01/30/2007 11:33		AmtRec: 20ML,500ML,4XLP,3X4LP	#Containers: 9					Scr:	Alpha: 1.30E-03 uCi/Sa	Beta: -3.46E-03 uCi/Sa	
8 JNPDJ-1-AA J7A310368-3-SAMP YTA16998 Ex:1/3/2008		1006.70g,in	srtb14497 02/12/07,pd 09/11/06,r	1.652 2.0008 0.8257				3"	2200	2/16/07	
01/30/2007 11:59		AmtRec: 20ML,3XLP	#Containers: 4					Scr:	Alpha: -1.50E-04 uCi/Sa	Beta: 3.52E-04 uCi/Sa	

2/14/2007 11:56:19 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 03/16/2007

Sep1 DT/Tm Tech:

Batch: 7033406 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	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
9 JNPDK-1-AA J7A310368-4-SAMP		1004.00g,in	srtb14498 02/12/07,pd 09/11/06,r	1.688 2.0008 0.8437			100	3"	2233	2/16/07 DD	
01/30/2007 11:10		AmtRec: 20ML,3XLP		#Containers: 4				Scr:	Alpha: 8.49E-05 uCi/Sa	Beta: -3.05E-04 uCi/Sa	
10 JNVTX-1-AA-B J7B020000-406-BLK		1000.70g,in	srtb14499 02/12/07,pd 09/11/06,r	1.049 2.0044 0.5233				9"	2233	2/16/07 DD	
01/30/2007 10:49		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:	
11 JNVTX-1-AC-C J7B020000-406-LCS		999.70g,in	srsg1316 02/06/07,pd 09/11/06,r	1.892 2.0442 0.6311				3"	2309	2/16/07 DD	
01/30/2007 10:49		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:	

YTA16999 Ex:1/3/2008

YTA17000 Ex:1/3/2008

YTA17001 Ex:1/3/2008

Comments: ~~JNN2R-SAMP~~ ""

pH <2.0 §32-14-07

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

JNNJK1AG-SAMP Constituent List:

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,E32905

Pipet #: _____

AnalyDueDate: 03/16/2007

Sep1 DT/Tm Tech: 02/16/2007 13:22,ManisD

Batch: 7033406 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech: 02/23/2007 09:48,ManisD

Prep Tech: ManisD

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

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

JNVTX1AA-BLK:
 Sr-85      RDL:          pCi/L    LCL:20     UCL:105    RPD:20     Sr-90     RDL:2     pCi/L    LCL:       UCL:       RPD:

JNVTX1AC-LCS:
 Sr-85      RDL:          pCi/L    LCL:20     UCL:105    RPD:20     Sr-90     RDL:2     pCi/L    LCL:70     UCL:130    RPD:20

JNNJK1AG-SAMP Calc Info:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
JNVTX1AA-BLK:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
JNVTX1AC-LCS:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

Approved By _____ Date: _____

2/15/2007 7:26:35 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: 03/16/2007 W05105

Sep1 DT/Tm Tech:

Batch: 7033403 WATER pCi/L **PM, Quote: SA , 57671**

SEQ Batch, Test: None

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 JNNJK-1-AE J7A310249-1-SAMP 01/30/2007 10:09		1993.80g,in AmtRec: 20ML,5XLP,3X4LP	#Containers: 9		100 mL	100	G6	1937 Scr: Alpha: 1.28E-03 uCi/Sa	2/22/0810 Beta: 3.25E-04 uCi/Sa	
2 JNNJK-1-AH-X J7A310249-1-DUP 01/30/2007 10:09		1969.40g,in AmtRec: 20ML,5XLP,3X4LP	#Containers: 9				G7	1938 Scr: Alpha: 1.28E-03 uCi/Sa	Beta: 3.25E-04 uCi/Sa	
3 JNNKC-1-AE J7A310249-3-SAMP 01/30/2007 11:59		2000.60g,in AmtRec: 20ML,5XLP,3X4LP	#Containers: 9				G4	1938 Scr: Alpha: 1.23E-03 uCi/Sa	Beta: 1.13E-03 uCi/Sa	
4 JNN2J-1-AE J7A310331-2-SAMP 01/30/2007 10:49		2005.30g,in AmtRec: 20ML,5XLP,3X4LP	#Containers: 9				G5	1936 Scr: Alpha: 2.68E-03 uCi/Sa	Beta: -8.98E-04 uCi/Sa	
5 JNN2R-1-AE J7A310331-3-SAMP 01/30/2007 12:02		1999.40g,in AmtRec: 20ML,5XLP,4LP	#Containers: 7				G6	2121 Scr: Alpha: 9.55E-04 uCi/Sa	Beta: -5.77E-04 uCi/Sa	
6 JNPDG-1-AA J7A310368-1-SAMP 01/30/2007 10:16		1997.60g,in AmtRec: 20ML,500ML,4XLP,3X4LP	#Containers: 9				G7	2122 Scr: Alpha: 1.68E-03 uCi/Sa	Beta: -4.68E-03 uCi/Sa	
7 JNPDH-1-AA J7A310368-2-SAMP 01/30/2007 11:33		1998.50g,in AmtRec: 20ML,500ML,4XLP,3X4LP	#Containers: 9				G4	2122 Scr: Alpha: 1.30E-03 uCi/Sa	Beta: -3.46E-03 uCi/Sa	

2/15/2007 7:26:38 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 03/16/2007

Sep1 DT/Tm Tech:

Batch: 7033403 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:
8 JNVTL-1-AA-B J7B020000-403-BLK 01/30/2007 10:09		1998.50g,in AmtRec:	#Containers: 1		100 ml	100	G5	2120	2/22/07	
9 JNVTL-1-AC-C J7B020000-403-LCS 01/30/2007 10:09		1999.60g,in AmtRec:	qcag1335 01/23/07,pd 03/07/05,r #Containers: 1				G8	0648	2/23/07	

Scr: Alpha: Beta:

Comments: ~~JNN2R-SAMP~~ ""

PH <2.0 2-15-07

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

JNNJK1AE-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:

JNVTL1AA-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:

JNVTL1AC-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						

JNNJK1AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

2/22/2007 5:26:09 PM

Sample Preparation/Analysis

Balance Id:206113

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 03/16/2007

Sep1 DT/Tm Tech:

Batch: 7033400 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7033381 AZS7, 7033385 BCS8, 7033386 ARS6, 7033400 BNTB, 7033402 FPS5, 7033403 AWTA, 7033406 CLTL,

Prep Tech: ,BostedD /SJL

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 JNNJK-1-AF J7A310249-1-SAMP 01/30/2007 10:09	AmtRec: 20ML,5XLP,3X4LP	3910.90g,in	ITA6047 02/20/07	#Containers: 9	37.2	100	L2	1522	2/24/07 R	Scr: Alpha: 1.28E-03 uCi/Sa Beta: 3.25E-04 uCi/Sa
2 JNNKC-1-AF J7A310249-3-SAMP 01/30/2007 11:59	AmtRec: 20ML,5XLP,3X4LP	3879.40g,in	ITA6048 02/20/07	#Containers: 9	36.4		L4	1523	2/24/07 R	Scr: Alpha: 1.23E-03 uCi/Sa Beta: 1.13E-03 uCi/Sa
3 JNN2F-1-AC J7A310331-1-SAMP 01/30/2007 09:12	AmtRec: 20ML,LP,2X4LP	3904.20g,in	ITA6049 02/20/07	#Containers: 4	37.7		L5	1525	2/24/07 R	Scr: Alpha: 4.63E-04 uCi/Sa Beta: 1.69E-04 uCi/Sa
4 JNN2J-1-AF J7A310331-2-SAMP 01/30/2007 10:49	AmtRec: 20ML,5XLP,3X4LP	3940.40g,in	ITA6050 02/20/07	#Containers: 9	36.8		L4	0713	2/26/07	Scr: Alpha: 2.68E-03 uCi/Sa Beta: -8.98E-04 uCi/Sa
5 JNPDG-1-AC J7A310368-1-SAMP 01/30/2007 10:16	AmtRec: 20ML,500ML,4XLP,3X4LP	3828.00g,in	ITA6046 02/20/07	#Containers: 9	37.6		L5	0714		Scr: Alpha: 1.68E-03 uCi/Sa Beta: -4.68E-03 uCi/Sa
6 JNPDH-1-AC J7A310368-2-SAMP 01/30/2007 11:33	AmtRec: 20ML,500ML,4XLP,3X4LP	3749.80g,in	ITA6051 02/20/07	#Containers: 9	34.8		L2	0714		Scr: Alpha: 1.30E-03 uCi/Sa Beta: -3.46E-03 uCi/Sa
7 JNPDW-1-AA J7A310371-1-SAMP 01/31/2007 12:16	AmtRec: 20ML,2X4LP	3927.30g,in	ITA6042 02/20/07	#Containers: 3	36.6		L2	0900	2/26/07	Scr: Alpha: 8.41E-04 uCi/Sa Beta: -1.35E-04 uCi/Sa

2/22/2007 5:26:51 PM

Sample Preparation/Analysis

Balance Id:206113

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 03/16/2007

Sep1 DT/Tm Tech:

Batch: 7033400 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

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:
8 B1LC51 DUP J7A310371-1-DUP 01/31/2007 12:16	AmtRec: 20ML,2X4LP	3929.90g,in	ITA6043 02/20/07	#Containers: 3	36.6	100	L4	0900	2/26/07	Scr: Alpha: 8.41E-04 uCi/Sa Beta: -1.35E-04 uCi/Sa
9 B1LP96 J7A310373-1-SAMP 01/31/2007 11:07	AmtRec: 20ML,LP,2X4LP	3932.30g,in	ITA6044 02/20/07	#Containers: 4	36.1		L5	0901		Scr: Alpha: 4.49E-04 uCi/Sa Beta: 6.13E-04 uCi/Sa
10 B1LN33 J7A310374-1-SAMP 01/31/2007 11:34	AmtRec: 20ML,LP,2X4LP	3854.70g,in	ITA6045 02/20/07	#Containers: 4	35.7		L2	1045	2/26/07	Scr: Alpha: -8.93E-04 uCi/Sa Beta: 1.46E-03 uCi/Sa
11 INTRA-LAB BLANK J7B020000-400-BLK 01/31/2007 12:16	AmtRec:	3725.80g,in	ITA6052 02/20/07	#Containers: 1	36.4		L4	1045		Scr: Alpha: Beta:
12 INTRA-LAB CHECK J7B020000-400-LCS 01/31/2007 12:16	AmtRec:	3924.40g,in	ISD0739 12/20/06	#Containers: 1	40.0		L5	1045		Scr: Alpha: Beta:

Comments:

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

JNNJK1AF-SAMP Constituent List:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:

2/26/2007 10:56:34 AM

Sample Preparation/Analysis

Balance Id:206113

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 03/16/2007

Sep1 DT/Tm Tech:

Batch: 7033400 WATER pCi/L **PM, Quote: SA , 57671**

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

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:
8 JNPDW-1-AC-X J7A310371-1-DUP 01/31/2007 12:16		3929.90g,in AmtRec: 20ML,2X4LP	ITA6043 02/20/07 #Containers: 3					Scr:	Alpha: 8.41E-04 uCi/Sa	Beta: -1.35E-04 uCi/Sa
9 JNPD3-1-AC J7A310373-1-SAMP 01/31/2007 11:07		3932.30g,in AmtRec: 20ML,LP,2X4LP	ITA6044 02/20/07 #Containers: 4					Scr:	Alpha: 4.49E-04 uCi/Sa	Beta: 6.13E-04 uCi/Sa
10 JNPEC-1-AC J7A310374-1-SAMP 01/31/2007 11:34		3854.70g,in AmtRec: 20ML,LP,2X4LP	ITA6045 02/20/07 #Containers: 4					Scr:	Alpha: -8.93E-04 uCi/Sa	Beta: 1.46E-03 uCi/Sa
11 JNVR4-1-AA-B J7B020000-400-BLK 01/31/2007 12:16		3725.80g,in AmtRec:	ITA6052 02/20/07 #Containers: 1					Scr:	Alpha:	Beta:
12 JNVR4-1-AC-C J7B020000-400-LCS 01/31/2007 12:16		3924.40g,in AmtRec:	ISD0739 12/20/06 #Containers: 1					Scr:	Alpha:	Beta:

Comments:

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

JNNJK1AF-SAMP Constituent List:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:

2/14/2007 8:18:44 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 03/16/2007 W05105

Sep1 DT/Tm Tech:

Batch: 7033402 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7033381 AZS7, 7033385 BCS8, 7033386 ARS6, 7033400 BNTB, 7033402 FPS5, 7033403 AWTA, 7033406 CLTL,

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 JNNJ6-1-AA J7A310249-2-SAMP 01/30/2007 10:09			125.40g,in	125.40g		60				
			AmtRec: 20ML,500MLP	#Containers: 2				Scr:	Alpha: 1.61E-05 uCi/Sa	Beta: 5.14E-05 uCi/Sa
2 JNNKP-1-AA J7A310249-4-SAMP 01/30/2007 11:59			125.40g,in	125.40g						
			AmtRec: 20ML,500MLP	#Containers: 2				Scr:	Alpha: -6.16E-05 uCi/Sa	Beta: 5.15E-05 uCi/Sa
3 JNPDG-1-AF J7A310368-1-SAMP 01/30/2007 10:16			126.20g,in	126.20g						
			AmtRec: 20ML,500ML,4XLP,3X4LP	#Containers: 9				Scr:	Alpha: 1.68E-03 uCi/Sa	Beta: -4.68E-03 uCi/Sa
4 JNPDH-1-AF J7A310368-2-SAMP 01/30/2007 11:33			125.00g,in	125.00g						
			AmtRec: 20ML,500ML,4XLP,3X4LP	#Containers: 9				Scr:	Alpha: 1.30E-03 uCi/Sa	Beta: -3.46E-03 uCi/Sa
5 JNPDL-1-AA J7A310369-1-SAMP 01/31/2007 11:24			125.40g,in	125.40g						
			AmtRec: 20ML,500MLP	#Containers: 2				Scr:	Alpha: 3.92E-05 uCi/Sa	Beta: -4.43E-05 uCi/Sa
6 JNPDL-1-AC-X J7A310369-1-DUP 01/31/2007 11:24			125.80g,in	125.80g						
			AmtRec: 20ML,500MLP	#Containers: 2				Scr:	Alpha: 3.92E-05 uCi/Sa	Beta: -4.43E-05 uCi/Sa
7 JNPDM-1-AE J7A310370-1-SAMP 01/31/2007 11:38			124.80g,in	124.80g						
			AmtRec: 20ML,2X500ML,3XLP	#Containers: 6				Scr:	Alpha: 5.25E-04 uCi/Sa	Beta: -1.90E-05 uCi/Sa

2/14/2007 8:18:53 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: 03/16/2007

Sep1 DT/Tm Tech:

Batch: 7033402 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JNPDN-1-AE J7A310370-2-SAMP 01/31/2007 10:18			125.10g,in	125.10g		60				
	AmtRec: 20ML,2X500ML,3XLP		#Containers: 6				Scr:	Alpha: -5.88E-04 uCi/Sa	Beta: -6.70E-05 uCi/Sa	
9 JNPDR-1-AE J7A310370-3-SAMP 01/31/2007 11:38			125.90g,in	125.90g						
	AmtRec: 20ML,2X500ML,3XLP		#Containers: 6				Scr:	Alpha: -8.08E-04 uCi/Sa	Beta: 5.60E-04 uCi/Sa	
10 JNPDT-1-AC J7A310370-4-SAMP 01/31/2007 12:33			125.80g,in	125.80g						
	AmtRec: 20ML,2X500ML,LP		#Containers: 4				Scr:	Alpha: 1.19E-05 uCi/Sa	Beta: 1.83E-04 uCi/Sa	
11 JNPDT-1-AE-S J7A310370-4-MS 01/31/2007 12:33			126.20g,in	126.20g	tcsg1768 01/03/07,pd 01/10/06,r					
	AmtRec: 20ML,2X500ML,LP		#Containers: 4				Scr:	Alpha: 1.19E-05 uCi/Sa	Beta: 1.83E-04 uCi/Sa	
12 JNVTD-1-AA-B J7B020000-402-BLK 01/31/2007 11:24			125.00g,in	125.00g						
	AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:	
13 JNVTD-1-AC-C J7B020000-402-LCS 01/31/2007 11:24			126.90g,in	126.90g	tcse2070 01/24/07,pd 01/10/06,r					
	AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:	
14 JNVTD-1-AD-BN J7B020000-402-IBLK 01/31/2007 11:24										
	AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:	

2/14/2007 8:19:00 AM

Sample Preparation/Analysis

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

AnalyDueDate: 03/16/2007

Batch: 7033402 **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:
15 JNVTD-1-AE-BN J7B020000-402-IBLK 01/31/2007 11:24	AmtRec:	#Containers: 1						Scr:	Alpha:	Beta:

Comments: pH <2.0 JB 2-14-07

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

JNNJ61AA-SAMP Constituent List:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
JNPDT1AE-MS:

JNVTD1AA-BLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
JNVTD1AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
JNVTD1AD-IBLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
JNVTD1AE-IBLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:

JNNJ61AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JNPDT1AE-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JNVTD1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JNVTD1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JNVTD1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JNVTD1AE-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

2/2/2007 1:42:15 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: 03/16/2007 W05105

Batch: 7033386 **WATER** **pCi/L** **PM, Quote: SA , 57671**
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 2-9-07 Tom
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 JNNJK-1-AA J7A310249-1-SAMP 01/30/2007 10:09	AmtRec: 20ML,5XLP,3X4LP	#Containers: 9				Scr:	Alpha:	Beta:
2 JNNKC-1-AA J7A310249-3-SAMP 01/30/2007 11:59	AmtRec: 20ML,5XLP,3X4LP	#Containers: 9				Scr:	Alpha:	Beta:
3 JNN2F-1-AA J7A310331-1-SAMP 01/30/2007 09:12	AmtRec: 20ML,LP,2X4LP	#Containers: 4				Scr:	Alpha:	Beta:
4 JNN2J-1-AA J7A310331-2-SAMP 01/30/2007 10:49	AmtRec: 20ML,5XLP,3X4LP	#Containers: 9				Scr:	Alpha:	Beta:
5 JNN2R-1-AA J7A310331-3-SAMP 01/30/2007 12:02	AmtRec: 20ML,5XLP,4LP	#Containers: 7				Scr:	Alpha:	Beta:
6 JNPDM-1-AA J7A310370-1-SAMP 01/31/2007 11:38	AmtRec: 20ML,2X500ML,3XLP	#Containers: 6				Scr:	Alpha:	Beta:
7 JNPDN-1-AA J7A310370-2-SAMP 01/31/2007 10:18	AmtRec: 20ML,2X500ML,3XLP	#Containers: 6				Scr:	Alpha:	Beta:

2/2/2007 1:42:16 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: 03/16/2007

Batch: 7033386 **WATER** **pCi/L** **PM, Quote: SA , 57671**
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 29-07 Sm
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 JNPDR-1-AA J7A310370-3-SAMP 01/31/2007 11:38	AmtRec: 20ML,2X500ML,3XLP	#Containers: 6				Scr:	Alpha:	Beta:
9 JNPDT-1-AA J7A310370-4-SAMP 01/31/2007 12:33	AmtRec: 20ML,2X500ML,LP	#Containers: 4				Scr:	Alpha:	Beta:
10 JNPD3-1-AA J7A310373-1-SAMP 01/31/2007 11:07	AmtRec: 20ML,LP,2X4LP	#Containers: 4				Scr:	Alpha:	Beta:
11 JNPD3-1-AD-X J7A310373-1-DUP 01/31/2007 11:07	AmtRec: 20ML,LP,2X4LP	#Containers: 4				Scr:	Alpha:	Beta:
12 JNPEC-1-AA J7A310374-1-SAMP 01/31/2007 11:34	AmtRec: 20ML,LP,2X4LP	#Containers: 4				Scr:	Alpha:	Beta:
13 JNVN2-1-AA-B J7B020000-386-BLK 01/31/2007 11:07	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
14 JNVN2-1-AC-C J7B020000-386-LCS 01/31/2007 11:07	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

2/2/2007 1:42:19 PM

Sample Preparation/Analysis

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

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 2-9-07 Tam
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 03/16/2007

Batch: 7033386 **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:
15 JNVN2-1-AD-BX J7B020000-386-MBLK 01/31/2007 11:07	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
16 JNVN2-1-AE-CM J7B020000-386-MLCS 01/31/2007 11:07	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
17 JNVN2-1-AF-BN J7B020000-386-IBLK 01/31/2007 11:07	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
18 JNVN2-1-AG-BN J7B020000-386-IBLK 01/31/2007 11:07	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
19 JNVN2-1-AH-BN J7B020000-386-IBLK 01/31/2007 11:07	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Comments:

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

JNNJK1AA-SAMP Constituent List:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20

2/2/2007 1:42:27 PM

Sample Preparation/Analysis

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

Balance Id: 12945
Pipet #:
Sep1 DT/Tm Tech: 2905 Bm
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 03/16/2007

Batch: 7033386 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:

```
JNVN21AA-BLK:
  H-3          RDL:400          pCi/L     LCL:        UCL:        RPD:
JNVN21AC-LCS:
  H-3          RDL:400          pCi/L     LCL:70      UCL:130     RPD:20
JNVN21AD-MBLK:
  H-3          RDL:400          pCi/L     LCL:        UCL:        RPD:
JNVN21AE-MLCS:
  H-3          RDL:400          pCi/L     LCL:70      UCL:130     RPD:20
JNVN21AF-IBLK:
  H-3          RDL:400          pCi/L     LCL:        UCL:        RPD:
JNVN21AG-IBLK:
  H-3          RDL:400          pCi/L     LCL:        UCL:        RPD:
JNVN21AH-IBLK:
  H-3          RDL:400          pCi/L     LCL:        UCL:        RPD:
JNNJK1AA-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JNVN21AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JNVN21AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JNVN21AD-MBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JNVN21AE-MLCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JNVN21AF-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JNVN21AG-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JNVN21AH-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

2/15/2007 7:10:16 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 03/16/2007

Sep1 DT/Tm Tech:

Batch: 7033401 WATER ug/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7033381 AZS7, 7033385 BCS8, 7033386 ARS6, 7033401 DHSS, 7033402 FPS5, 7033404 7YSR,

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 **JNPDM-1-AG** J7A310370-1-SAMP 01/31/2007 11:38		25.20g,in				AmtRec: 20ML,2X500ML,3XLP #Containers: 6	Scr:	Alpha: 5.25E-04 uCi/Sa Beta: -1.90E-05 uCi/Sa
2 **JNPDN-1-AG** J7A310370-2-SAMP 01/31/2007 10:18		25.10g,in				AmtRec: 20ML,2X500ML,3XLP #Containers: 6	Scr:	Alpha: -5.88E-04 uCi/Sa Beta: -6.70E-05 uCi/Sa
3 **JNPDN-1-AH-X** J7A310370-2-DUP 01/31/2007 10:18		25.50g,in				AmtRec: 20ML,2X500ML,3XLP #Containers: 6	Scr:	Alpha: -5.88E-04 uCi/Sa Beta: -6.70E-05 uCi/Sa
4 **JNPDR-1-AG** J7A310370-3-SAMP 01/31/2007 11:38		25.00g,in				AmtRec: 20ML,2X500ML,3XLP #Containers: 6	Scr:	Alpha: -8.08E-04 uCi/Sa Beta: 5.60E-04 uCi/Sa
5 **JNPDR-1-AJ-S** J7A310370-3-MS 01/31/2007 11:38		25.30g,in	unsf3595 02/05/07,pd 01/23/07,r			AmtRec: 20ML,2X500ML,3XLP #Containers: 6	Scr:	Alpha: -8.08E-04 uCi/Sa Beta: 5.60E-04 uCi/Sa
6 **JNPDT-1-AD** J7A310370-4-SAMP 01/31/2007 12:33		25.50g,in				AmtRec: 20ML,2X500ML,LP #Containers: 4	Scr:	Alpha: 1.19E-05 uCi/Sa Beta: 1.83E-04 uCi/Sa
7 **JNVTA-1-AA-B** J7B020000-401-BLK 01/31/2007 10:18		24.90g,in				AmtRec: #Containers: 1	Scr:	Alpha: Beta:

2/15/2007 7:10:22 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 03/16/2007

Sep1 DT/Tm Tech:

Batch: 7033401 ug/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JNVTA-1-AC-C J7B020000-401-LCS 01/31/2007 10:18		25.20g,in AmtRec:	unsf3596 02/05/07,pd 01/23/07,r #Containers: 1			Scr:	Alpha:	Beta:
9 JNVTA-1-AD-C J7B020000-401-LCS 01/31/2007 10:18		25.50g,in AmtRec:	unsc1491 01/23/07,pd 04/28/06,r #Containers: 1			Scr:	Alpha:	Beta:

Comments: PH < 2.0 JB 2-15-07

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

JNPDM1AG-SAMP Constituent List:

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

JNPDR1AJ-MS:

JNVTA1AA-BLK:

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

JNVTA1AC-LCS:

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

JNVTA1AD-LCS:

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

JNPDM1AG-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JNPDR1AJ-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JNVTA1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JNVTA1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JNVTA1AD-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

2/19/2007 4:49:44 PM

ICOC Fraction Transfer/Status Report

ByDate: 2/19/2006, 2/24/2007, Batch: '7033405', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7033405						
AC		**CalcC**	**BockJ**	2/13/2007 2:09:06 PM		
SC			wagarr	IsBatched	2/2/2007 1:44:08 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	2/13/2007 2:09:06 PM	RICH-RC-5014 Revision 6
SC			BockJ	Prep1C	2/13/2007 2:22:16 PM	RICH-RC-5016 REVISION 6
SC			FABREM	Sep1C	2/15/2007 5:49:12 PM	RICH-RC-5010 REVISION 4
SC			FABREM	Sep2C	2/16/2007 11:43:50 AM	RICH-RC-5039 REV 5
SC			StringerR	InCnt1	2/16/2007 11:51:56 AM	RICH-RD-0008 REVISION 4
SC			DAWKINSO	CalcC	2/16/2007 4:38:04 PM	RICH-RD-0008 REVISION 4
AC			**BockJ**	2/13/2007 2:22:16 PM		
AC			**FABREM**	2/15/2007 5:49:12 PM		
AC			**FABREM**	2/16/2007 11:43:50		
AC			**StringerR**	2/16/2007 11:51:56		
AC			**DAWKINSO**	2/16/2007 4:38:04 PM		

AC: Accepting Entry; SC: Status Change

2/19/2007 4:52:38 PM

ICOC Fraction Transfer/Status Report

ByDate: 2/19/2006, 2/24/2007, Batch: '7033404', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7033404						
AC		**CalcC**	**BockJ**	2/13/2007 1:50:47 PM		
SC			wagarr	IsBatched	2/2/2007 1:44:08 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	2/13/2007 1:50:47 PM	RICH-RC-5014 Revision 6
SC			BockJ	Prep1C	2/13/2007 2:03:56 PM	RICH-RC-5016 REVISION 6
SC			HarveyK	InPrep2	2/14/2007 1:04:48 PM	RICH-RC-5086 REV2
SC			HarveyK	Prep2C	2/15/2007 4:24:26 PM	RICH-RC-5086 REV2
SC			HarveyK	InSep1	2/15/2007 4:25:04 PM	RICH-RC-5067 REV6
SC			HarveyK	Sep1C	2/15/2007 4:25:22 PM	RICH-RC-5067 REV6
SC			FABREM	Sep2C	2/16/2007 11:42:58 AM	RICH-RC-5039 REV 5
SC			StringerR	InCnt1	2/16/2007 11:51:46 AM	RICH-RD-0008 REVISION 4
SC			DAWKINSO	CalcC	2/16/2007 4:38:08 PM	RICH-RD-0008 REVISION 4
AC			**BockJ**	2/13/2007 2:03:56 PM		
AC			**HarveyK**	2/14/2007 1:04:48 PM		
AC			**HarveyK**	2/15/2007 4:24:26 PM		
AC			**HarveyK**	2/15/2007 4:25:04 PM		
AC			**HarveyK**	2/15/2007 4:25:22 PM		
AC			**FABREM**	2/16/2007 11:42:58		
AC			**StringerR**	2/16/2007 11:51:46		
AC			**DAWKINSO**	2/16/2007 4:38:08 PM		

AC: Accepting Entry; SC: Status Change

2/26/2007 3:45:54 PM

ICOC Fraction Transfer/Status Report

ByDate: 2/26/2006, 3/3/2007, Batch: '7033381', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7033381						
AC		**CalcC**	**BockJ**	2/13/2007 8:03:02		
SC			wagarr	IsBatched	2/2/2007 1:44:08 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	2/13/2007 8:03:02 AM	RICH-RC-5014 Revision 6
SC			BockJ	Prep1C	2/13/2007 8:14:47 AM	RICH-RC-5014 REVISION 6
SC			AshworthA	InPrep2	2/22/2007 10:05:59 AM	RICH-RC-5014 REVISION 6
SC			AshworthA	Prep2C	2/23/2007 10:17:41 AM	RICH-RC-5014 REVISION 6
SC			BlackCL	InCnt1	2/23/2007 10:34:30 AM	RICH-RD-0003 REVISION 4
SC			DAWKINSO	CalcC	2/23/2007 8:17:38 PM	RICH-RD-0003 REVISION 4
SC			BlackCL	InCnt1	2/26/2007 10:32:32 AM	RICH-RD-0003 REVISION 4
SC			BlackCL	CalcC	2/26/2007 12:47:17 PM	RICH-RD-0003 REVISION 4
AC			**BockJ**	2/13/2007 8:14:47		
AC			**AshworthA**	2/22/2007 10:05:59		
AC			**AshworthA**	2/23/2007 10:17:41		
AC			**BlackCL**	2/23/2007 10:34:30		
AC			**DAWKINSO**	2/23/2007 8:17:38 PM		
AC			**BlackCL**	2/26/2007 10:32:32		
AC			**BlackCL**	2/26/2007 12:47:17		

AC: Accepting Entry; SC: Status Change

2/26/2007 12:08:05 PM

ICOC Fraction Transfer/Status Report

ByDate: 2/26/2006, 3/3/2007, Batch: '7033385', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
7033385							
AC			**CalcC**	**BockJ**	2/13/2007 7:51:08		
SC				wagarr	IsBatched	2/2/2007 1:44:08 PM	ICOC_RADCALC v4.8.26
SC				BockJ	InPrep	2/13/2007 7:51:08 AM	RICH-RC-5014 Revision 6
SC				BockJ	Prep1C	2/13/2007 8:00:06 AM	RICH-RC-5014 REVISION 6
SC				AshworthA	InPrep2	2/22/2007 10:06:06 AM	RICH-RC-5014 REVISION 6
SC				AshworthA	Prep2C	2/23/2007 10:17:49 AM	RICH-RC-5014 REVISION 6
SC				BlackCL	InCnt1	2/23/2007 10:34:35 AM	RICH-RD-0003 REVISION 4
SC				StringerR	CalcC	2/23/2007 1:15:38 PM	RICH-RD-0003 REVISION 4
AC				**BockJ**	2/13/2007 8:00:06		
AC				**AshworthA**	2/22/2007 10:06:06		
AC				**AshworthA**	2/23/2007 10:17:49		
AC				**BlackCL**	2/23/2007 10:34:35		
AC				**StringerR**	2/23/2007 1:15:38 PM		

AC: Accepting Entry; SC: Status Change

2/28/2007 2:25:50 PM

ICOC Fraction Transfer/Status Report

ByDate: 2/28/2006, 3/5/2007, Batch: '7033406', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7033406						
AC		**Sep2C**	**BockJ**	2/14/2007 11:40:04		
SC			wagarr	IsBatched	2/2/2007 1:44:08 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	2/14/2007 11:40:04 AM	RICH-RC-5016 Revision 6
SC			BockJ	Prep1C	2/14/2007 11:57:30 AM	RICH-RC-5016 REVISION 6
SC			ManisD	InSep1	2/14/2007 2:38:18 PM	RICH-RC-5006 REV 6
SC			ManisD	Sep1C	2/16/2007 2:44:33 PM	RICH-RC-5006 REV 6
SC			StringerR	InCnt1	2/16/2007 2:46:18 PM	RICH-RD-0007 REVISION 5
SC			DAWKINSO	Cnt1C	2/16/2007 10:12:22 PM	RICH-RD-0007 REVISION 5
SC			ManisD	Sep2C	2/23/2007 3:00:33 PM	RICH-RC-5071 REV 4
AC			**BockJ**	2/14/2007 11:57:30		
AC			**ManisD**	2/14/2007 2:38:18 PM		
AC			**ManisD**	2/16/2007 2:44:33 PM		
AC			**StringerR**	2/16/2007 2:46:18 PM		
AC			**StringerR**	2/16/2007 2:46:35 PM		
AC			**DAWKINSO**	2/16/2007 10:12:22		
AC			**ManisD**	2/23/2007 3:00:33 PM		

AC: Accepting Entry; SC: Status Change

2/23/2007 4:13:07 PM

ICOC Fraction Transfer/Status Report

ByDate: 2/23/2006, 2/28/2007, Batch: '7033403', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7033403						
AC		**InCnt1**	**BockJ**	2/15/2007 7:12:43		
SC			wagarr	IsBatched	2/2/2007 1:44:08 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	2/15/2007 7:12:43 AM	rich-rc-5017 rEVISION 5
SC			BockJ	Prep1C	2/15/2007 7:26:42 AM	RICH-RC-5017 REVISION 5
SC			AshworthA	InPrep2	2/22/2007 6:53:21 AM	RICH-RC-5017 REVISION 4
SC			AshworthA	Prep2C	2/22/2007 5:24:38 PM	RICH-RC-5017 REVISION 4
SC			DAWKINSO	InCnt1	2/22/2007 5:52:46 PM	RICH-RD-0007 REVISION 5
SC			StringerR	CalcC	2/23/2007 8:39:04 AM	RICH-RD-0007 REVISION 5
SC			DAWKINSO	InCnt1	2/23/2007 3:53:06 PM	RICH-RD-0007 REVISION 5
AC			**BockJ**	2/15/2007 7:26:42		
AC			**AshworthA**	2/22/2007 6:53:21		
AC			**AshworthA**	2/22/2007 5:24:38 PM		
AC			**DAWKINSO**	2/22/2007 5:52:46 PM		
AC			**StringerR**	2/23/2007 8:39:04		
AC			**DAWKINSO**	2/23/2007 3:53:06 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.26

2/28/2007 11:26:54 AM

ICOC Fraction Transfer/Status Report

ByDate: 2/28/2006, 3/5/2007, Batch: '7033400', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7033400						
AC		**CalcC**	**BostedD**	2/23/2007 10:54:49		
SC			wagarr	IsBatched	2/2/2007 1:44:08 PM	ICOC_RADCALC v4.8.26
SC			BostedD	InSep1	2/23/2007 10:54:49 AM	RICHRC5025 REV3
SC			HoganS	Prep2C	2/24/2007 11:17:13 AM	RICHRC5025 REV3
SC			StringerR	InCnt1	2/24/2007 1:31:23 PM	RICH-RD-0007 REVISION 5
SC			BlackCL	CalcC	2/26/2007 11:04:49 AM	RICH-RD-0007 REVISION 5
AC			**HoganS**	2/24/2007 11:17:13		
AC			**StringerR**	2/24/2007 1:31:23 PM		
AC			**BlackCL**	2/26/2007 11:04:49		

AC: Accepting Entry; SC: Status Change

2/16/2007 11:49:42 AM

ICOC Fraction Transfer/Status Report

ByDate: 2/16/2006, 2/21/2007, Batch: '7033402', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7033402						
AC		CalcC	BockJ	2/14/2007 7:28:25		
SC			antonsonl	IsBatched	2/8/2007 3:27:36 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	2/14/2007 7:28:25 AM	RICH-RC-5016 Revision 6
SC			BockJ	Prep1C	2/14/2007 8:18:48 AM	RICH-RC-5016 REVISION 6
SC			HarveyK	InSep1	2/14/2007 1:05:30 PM	RICH-RC-5065 REV5
SC			HarveyK	Sep1C	2/14/2007 4:30:58 PM	RICH-RC-5065 REV5
SC			DAWKINSO	InCnt1	2/14/2007 5:33:57 PM	RICH-RD-0001 REVISION 3
SC			DAWKINSO	CalcC	2/15/2007 7:27:15 PM	RICH-RD-0001 REVISION 3
AC			BockJ	2/14/2007 8:18:48		
AC			HarveyK	2/14/2007 1:05:30 PM		
AC			HarveyK	2/14/2007 4:30:58 PM		
AC			DAWKINSO	2/14/2007 5:33:57 PM		
AC			DAWKINSO	2/15/2007 7:27:15 PM		

AC: Accepting Entry; SC: Status Change

2/12/2007 9:29:38 AM

ICOC Fraction Transfer/Status Report

ByDate: 2/12/2006, 2/17/2007, Batch: '7033386', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7033386						
AC		**CalcC**	**McDowellD**	2/8/2007 4:14:35 PM		
SC			wagarr	IsBatched	2/2/2007 1:44:08 PM	ICOC_RADCALC v4.8.26
SC			McDowellD	InSep1	2/8/2007 4:14:35 PM	RICH-RC-5007 REVISION 6
SC			McDowellD	Sep1C	2/9/2007 2:31:28 PM	RICH-RC-5007 REVISION 6
SC			StringerR	InCnt1	2/9/2007 2:43:19 PM	RICH-RD-0001 REVISION 3
SC			StringerR	CalcC	2/11/2007 12:22:20 PM	RICH-RD-0001 REVISION 3
AC			**McDowellD**	2/9/2007 2:31:28 PM		
AC			**StringerR**	2/9/2007 2:43:19 PM		
AC			**StringerR**	2/11/2007 12:22:20		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.26

2/28/2007 3:33:22 PM

ICOC Fraction Transfer/Status Report

ByDate: 2/28/2006, 3/5/2007, Batch: '7033401', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
7033401							
AC			**Cnt1C**	**BockJ**	2/15/2007 7:00:03		
SC				wagarr	IsBatched	2/2/2007 1:44:08 PM	ICOC_RADCALC v4.8.26
SC				BockJ	InPrep	2/15/2007 7:00:03 AM	rich-rc-5015 rEVISION 4
SC				BockJ	Prep1C	2/15/2007 7:10:46 AM	RICH-RC-5015 REVISION 4
SC				AshworthA	InPrep2	2/23/2007 10:45:57 AM	RICH-RC-5015 REVISION 4
SC				AntonsonL	InPrep2	2/23/2007 10:46:06 AM	RICH-RC-5015 REVISION 4
SC				AshworthA	Prep2C	2/26/2007 6:44:15 PM	RICH-RC-5015 REVISION 4
SC				NelsonT	Cnt1C	2/28/2007 2:55:14 PM	RICH-RC-5058 REV 7
AC				**BockJ**	2/15/2007 7:10:46		
AC				**AshworthA**	2/23/2007 10:45:57		
AC				**AntonsonL**	2/23/2007 10:46:06		
AC				**AshworthA**	2/26/2007 6:44:15 PM		
AC				**NelsonT**	2/28/2007 2:55:14 PM		

AC: Accepting Entry; SC: Status Change