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: 32923

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W04943	S06-006	B1J995	J6F140356-1	H7EKP1AA	9H7EKP10	6171193
		B1J995	J6F140356-1	H7EKP1AC	9H7EKP10	6171195
		B1J995	J6F140356-1	H7EKP1AD	9H7EKP10	6171196
		B1J995	J6F140356-1	H7EKP1AE	9H7EKP10	6171197
		B1J995	J6F140356-1	H7EKP1AG	9H7EKP10	6171170
		B1J995	J6F140356-1	H7EKP2AF	9H7EKP20	6205510
		B1J8B5	J6F140356-2	H7EKW1AA	9H7EKW10	6171195
		B1J8B5	J6F140356-2	H7EKW1AC	9H7EKW10	6171196
		B1J8B5	J6F140356-2	H7EKW1AD	9H7EKW10	6171197
	W06-006	B1JB40	J6F140359-1	H7EK81AA	9H7EK810	6171196
		B1JB40	J6F140359-1	H7EK81AC	9H7EK810	6171202
		B1JB40	J6F140359-1	H7EK81AD	9H7EK810	6171170
		B1JB40	J6F140359-1	H7EK81AE	9H7EK810	6171200
		B1J9J7	J6F140362-1	H7ELA1AA	9H7ELA10	6171196
		B1J9J7	J6F140362-1	H7ELA1AC	9H7ELA10	6171174

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Comments:

Report Nbr: 32923

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W04943	W06-006	B1J9J7	J6F140362-1	H7ELA1AD	9H7ELA10	6171200
	S06-006	B1J991	J6F140365-1	H7ELJ1AA	9H7ELJ10	6171193
		B1J991	J6F140365-1	H7ELJ1AC	9H7ELJ10	6171195
		B1J991	J6F140365-1	H7ELJ1AD	9H7ELJ10	6171196
		B1J991	J6F140365-1	H7ELJ1AE	9H7ELJ10	6171197
		B1J991	J6F140365-1	H7ELJ2AF	9H7ELJ20	6205510
		B1J987	J6F140365-2	H7ELK1AA	9H7ELK10	6171193
		B1J987	J6F140365-2	H7ELK1AC	9H7ELK10	6171195
		B1J987	J6F140365-2	H7ELK1AD	9H7ELK10	6171196
		B1J987	J6F140365-2	H7ELK1AE	9H7ELK10	6171197
	W06-006	B1J9M9	J6F140367-1	H7EL11AA	9H7EL110	6171276
		B1J9M9	J6F140367-1	H7EL11AC	9H7EL110	6171196
		B1J9M9	J6F140367-1	H7EL11AD	9H7EL110	6171170
		B1J9P0	J6F140367-2	H7EL31AA	9H7EL310	6171276
		B1J9P0	J6F140367-2	H7EL31AC	9H7EL310	6171196
		B1J9L8	J6F140367-3	H7EL41AA	9H7EL410	6171196
		B1J9L8	J6F140367-3	H7EL41AC	9H7EL410	6171170
		B1J9V3	J6F140367-4	H7EL51AA	9H7EL510	6171196
		B1J9V3	J6F140367-4	H7EL51AC	9H7EL510	6171170
		B1JBC1	J6F150336-1	H7HH71AA	9H7HH710	6171170
		B1JB87	J6F150336-2	H7HJD1AA	9H7HJD10	6171193
		B1JB87	J6F150336-2	H7HJD1AC	9H7HJD10	6171195
		B1JB87	J6F150336-2	H7HJD1AD	9H7HJD10	6171196
		B1JB87	J6F150336-2	H7HJD1AE	9H7HJD10	6171170
		B1JB87	J6F150336-2	H7HJD1AF	9H7HJD10	6171200
		B1JB88	J6F150336-3	H7HJW1AA	9H7HJW10	6171193

Comments:

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SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W04943	W06-006	B1JB88	J6F150336-3	H7HJW1AC	9H7HJW10	6171195
		B1JB88	J6F150336-3	H7HJW1AD	9H7HJW10	6171196
		B1JB88	J6F150336-3	H7HJW1AE	9H7HJW10	6171170
		B1JB88	J6F150336-3	H7HJW1AF	9H7HJW10	6171200
		B1JBB3	J6F150336-4	H7HJ21AA	9H7HJ210	6171170
		B1JB99	J6F150336-5	H7HJ51AA	9H7HJ510	6171170
		B1JB95	J6F150336-6	H7HJ71AA	9H7HJ710	6171170
		B1J9X7	J6F150336-7	H7HJ91AA	9H7HJ910	6171170
		B1JLF8	J6F150336-9	H7HK01AA	9H7HK010	6171170
		B1JB84	J6F150343-1	H7HLG1AA	9H7HLG10	6171196
		B1JB84	J6F150343-1	H7HLG1AC	9H7HLG10	6171202
		B1JB84	J6F150343-1	H7HLG1AD	9H7HLG10	6171170
		B1JB84	J6F150343-1	H7HLG1AE	9H7HLG10	6171200

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

August 8, 2006

Attention: Dot Stewart

SAF Number	:	S06-006, W06-006
Date SDG Closed	:	June 15, 2006
Number of Samples	:	Nineteen (19)
Sample Type	:	Water
SDG Number	:	W04943
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between June 14, 2006 and June 15, 2006, nineteen 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
B1J995	H7EKP	WATER	6/14/06
B1J8B5	H7EKW	WATER	6/14/06
B1JB40	H7EK8	WATER	6/14/06
B1J9J7	H7ELA	WATER	6/14/06
B1J991	H7ELJ	WATER	6/14/06
B1J987	H7ELK	WATER	6/14/06
B1J9V3	H7EL5	WATER	6/14/06
B1J9M9	H7EL1	WATER	6/14/06
B1J9P0	H7EL3	WATER	6/14/06
B1J9L8	H7EL4	WATER	6/14/06
B1JLF8	H7HK0	WATER	6/15/06
B1JBC1	H7HH7	WATER	6/15/06
B1JB87	H7HJD	WATER	6/15/06

B1JB88	H7HJW	WATER	6/15/06
B1JBB3	H7HJ2	WATER	6/15/06
B1JB99	H7HJ5	WATER	6/15/06
B1JB95	H7HJ7	WATER	6/15/06
B1J9X7	H7HJ9	WATER	6/15/06
B1JB84	H7HLG	WATER	6/15/06

II. Sample Receipt

On COC W06-006-153 the Activity Scan ID was listed as B1JBB7 and the TC99_ETVDSK_LSC: Tc-99 sample ID was listed as B1JLF8. The actual sample containers had B1JBB7 as the sample ID. The client instructed us to the new sample ID. Other than noted the samples were received in good condition and no anomalies were noted during check-in.

III. Analytical Results/Methodology

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

The requested analyses were:

Gas Proportional Counting
Gross Alpha by method RICH-RC-5014
Gross Beta by method RICH-RC-5014
Strontium-90 by method RICH-RC-5006
Gamma Spectroscopy
Gamma Spec (LL) by method RICH-RC-5017
Iodine-129 (LL) by method RICH-RC-5025
Liquid Scintillation Counting
Enriched Tritium by method RICH-RC-5024
Technetium-99 by TEVA method RICH-RC-5065
Technetium-99 by method RICH-RC-5078
Tritium by method RICH-RC-5007
Laser Induced Phosphorimetry
Total Uranium by method RICH-RC-5058
Chemical Analysis
Total Coliform by method 9223

IV. Quality Control

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

V. Comments

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:
Due to high weight screens the aliquot sizes on the following samples were reduced: B1J995, B1J8B5, B1J8B5 DUP, B1J991, B1J987, B1JB87 and B1JB88. The CRDLs on all samples except B1J995 were achieved. The MDC for sample B1J995 was just above the CRDL of 3 at 3.07 pCi/l. The LCS, batch blank, samples and sample duplicate (B1J8B5) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:
Samples B1J9J7 and B1JB84 do not meet the CRDL; smaller aliquots were taken due to high screening results. The results of these samples are greater than the MDA which is greater than the CRDL. The LCS, batch blank, samples and sample duplicate (B1J987) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006
The LCS had a low yield on the first analysis. The reanalysis is acceptable. Other than noted, the LCS, batch blank, samples and sample duplicate (B1J991) results are within contractual requirements.

Gamma Spectroscopy

Gamma Spec (LL) by method RICH-RC-5017:
The LCS, batch blank, samples and sample duplicate (B1JB84) results are within contractual requirements.

Iodine-129 (LL) by method RICH-RC-5025:
The LCS, batch blank, samples and sample duplicate (B1J991) results are within contractual requirements.

Liquid Scintillation Counting

Technetium-99 by TEVA method RICH-RC-5065:
The LCS, batch blank, samples, sample duplicate (B1JBB3), and sample matrix spike (B1JB99) results are within contractual requirements.

Technetium-99 by method RICH-RC-5078:
The LCS, batch blank, samples, sample duplicate (B1J9J7), and sample matrix spike (B1J9J7) results are within contractual requirements.

Tritium by method RICH-RC-5007:
The LCS, batch blank, samples and sample duplicate (B1JB88) results are within contractual requirements.

Enriched Tritium by method RICH-RC-5024
The enriched tritium analysis was not completed at the time of reporting.

Pacific Northwest National Laboratories
August 8, 2006

Total Uranium

Total Uranium by method RICH-RC-5058:

The LCS, batch blank, samples, sample duplicate (B1JB87), and sample matrix spike (B1JB84) results are within contractual requirements.

Chemical Analysis

Total Coliform by method 9223

The LCS, batch blank, samples and sample duplicate (B1J9M9) 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:

Sandra Seger

for 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: 32923 File Name: h:\Reportdb\edd\FeadIV\Rad\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.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:
9H7EK810	B1JB40		MW6-SBB-A1	W06-006	W04943					06/14/2006 09:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6171196	BETA	12587-47-2	1.80E+02	pCi/L	6.2E+00	3.1E+01		2.63E+00	100.0	9310_ALPHABETA	1.957E-01	L	07/25/200 16:14	I
6171202	BE-7	13966-02-4	7.72E+00	pCi/L	2.4E+01	2.4E+01	U	4.75E+01		GAMMALL_GS	1.999E+00	L	07/25/200 08:38	I
6171202	CO-60	10198-40-0	1.78E+00	pCi/L	2.0E+00	2.0E+00	U	4.88E+00		GAMMALL_GS	1.999E+00	L	07/25/200 08:38	I
6171202	CS-134	13967-70-9	1.49E+00	pCi/L	2.7E+00	2.7E+00	U	5.37E+00		GAMMALL_GS	1.999E+00	L	07/25/200 08:38	I
6171202	CS-137	10045-97-3	-2.10E+00	pCi/L	2.3E+00	2.3E+00	U	3.63E+00		GAMMALL_GS	1.999E+00	L	07/25/200 08:38	I
6171202	EU-152	14683-23-9	-2.52E+00	pCi/L	5.4E+00	5.4E+00	U	9.29E+00		GAMMALL_GS	1.999E+00	L	07/25/200 08:38	I
6171202	EU-154	15585-10-1	-1.89E+00	pCi/L	6.5E+00	6.5E+00	U	1.18E+01		GAMMALL_GS	1.999E+00	L	07/25/200 08:38	I
6171202	EU-155	14391-16-3	-6.94E-01	pCi/L	5.0E+00	5.0E+00	U	8.91E+00		GAMMALL_GS	1.999E+00	L	07/25/200 08:38	I
6171202	K-40	13966-00-2	3.38E+01	pCi/L	6.1E+01	6.1E+01	U	4.03E+01		GAMMALL_GS	1.999E+00	L	07/25/200 08:38	I
6171202	RU-106	13967-48-1	4.75E+00	pCi/L	1.9E+01	1.9E+01	U	3.71E+01		GAMMALL_GS	1.999E+00	L	07/25/200 08:38	I
6171202	SB-125	14234-35-6	6.17E-01	pCi/L	5.7E+00	5.7E+00	U	1.06E+01		GAMMALL_GS	1.999E+00	L	07/25/200 08:38	I
6171170	TC-99	14133-76-7	7.04E+02	pCi/L	1.5E+01	5.3E+01		9.44E+00	100.0	TC99_ETVDSK_LS	1.25E-01	L	07/21/200 18:40	I
6171200	Uranium	7440-61-1	2.11E+00	ug/L	2.2E-01	2.2E-01		8.25E-02		UTOT_KPA	2.54E-02	ML	07/25/200 13:52	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9H7EKP10	B1J995		MW6-SBB-A1	S06-006	W04943					06/14/2006 10:54

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6171193	H-3	10028-17-8	9.55E+03	pCi/L	3.4E+02	5.5E+02		3.19E+02	100.0	906.0_H3_LSC	5.00E-03	L	07/13/200 23:27	I
6171195	ALPHA	12587-46-1	3.40E+00	pCi/L	2.3E+00	2.4E+00		3.07E+00	100.0	9310_ALPHABETA	7.67E-02	L	07/26/200 08:44	I
6171196	BETA	12587-47-2	2.22E+01	pCi/L	3.0E+00	4.1E+00		3.66E+00	100.0	9310_ALPHABETA	1.553E-01	L	07/25/200 16:14	I
6171197	I-129L	15046-84-1	4.02E+00	pCi/L	6.5E-01	6.5E-01		2.95E-01	82.2	I129LL_SEP_LEPS	3.9204E+00	L	07/24/200 12:56	I
6171170	TC-99	14133-76-7	2.73E+01	pCi/L	4.9E+00	7.3E+00		9.57E+00	100.0	TC99_ETVDSK_LS	1.241E-01	L	07/21/200 18:40	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9H7EKP20	B1J995		MW6-SBB-A1	S06-006	W04943					06/14/2006 10:54

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6205510	SR-90	10098-97-2	-5.44E-02	pCi/L	1.7E-01	1.7E-01	U	4.04E-01	74.6	SRISO_SEP_PRE	1.0031E+00	L	08/06/200 09:15	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9H7EKW10	B1J8B5		MW6-SBB-A1	S06-006	W04943					06/14/2006 12:17

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: 32923 File Name: h:\Reportdb\edd\FeadIV\Rad\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6171195	ALPHA	12587-46-1	1.84E+00	pCi/L	1.5E+00	1.5E+00		1.76E+00	100.0	9310_ALPHABETA	9.99E-02	L	07/26/200 08:44	I
6171196	BETA	12587-47-2	1.41E+01	pCi/L	2.1E+00	2.8E+00		2.78E+00	100.0	9310_ALPHABETA	2.003E-01	L	07/25/200 16:14	I
6171197	I-129L	15046-84-1	-1.32E-01	pCi/L	1.4E-01	1.4E-01	U	2.21E-01	99.5	I129LL_SEP_LEPS	3.8984E+00	L	07/24/200 12:57	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9H7EL110	B1J9M9		MW6-SBB-A1	W06-006	W04943					06/14/2006 11:50

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6171196	BETA	12587-47-2	5.43E+01	pCi/L	3.6E+00	7.7E+00		2.82E+00	100.0	9310_ALPHABETA	2.006E-01	L	07/25/200 18:20	I
6171170	TC-99	14133-76-7	1.80E+02	pCi/L	8.2E+00	1.8E+01		9.45E+00	100.0	TC99_ETVDSK_LS	1.251E-01	L	07/21/200 18:40	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9H7EL310	B1J9P0		MW6-SBB-A1	W06-006	W04943					06/14/2006 12:36

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6171196	BETA	12587-47-2	2.32E+02	pCi/L	7.7E+00	3.0E+01		3.16E+00	100.0	9310_ALPHABETA	1.706E-01	L	07/25/200 18:20	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:
9H7EL410	B1J9L8		MW6-SBB-A1	W06-006	W04943					06/14/2006 11:01

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6171196	BETA	12587-47-2	2.86E+01	pCi/L	2.8E+00	4.6E+00		2.82E+00	100.0	9310_ALPHABETA	1.932E-01	L	07/25/200 18:20	I
6171170	TC-99	14133-76-7	5.70E+01	pCi/L	5.6E+00	9.2E+00		9.38E+00	100.0	TC99_ETVDSK_LS	1.258E-01	L	07/21/200 18:40	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9H7EL510	B1J9V3		MW6-SBB-A1	W06-006	W04943					06/14/2006 10:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6171196	BETA	12587-47-2	1.18E+02	pCi/L	5.9E+00	1.7E+01		3.65E+00	100.0	9310_ALPHABETA	1.526E-01	L	07/25/200 18:20	I
6171170	TC-99	14133-76-7	4.45E+02	pCi/L	1.2E+01	3.5E+01		9.57E+00	100.0	TC99_ETVDSK_LS	1.252E-01	L	07/21/200 18:40	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9H7ELA10	B1J9J7		MW6-SBB-A1	W06-006	W04943					06/14/2006 13:31

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6171196	BETA	12587-47-2	1.75E+01	pCi/L	4.1E+00	4.7E+00		6.55E+00	100.0	9310_ALPHABETA	9.12E-02	L	07/25/200 16:14	I
6171174	TC-99	14133-76-7	1.66E+01	pCi/L	3.7E+00	6.2E+00		7.90E+00	100.0	TC99_SEP_LSC	1.252E-01	L	07/18/200 01:14	I
6171200	Uranium	7440-61-1	8.35E+00	ug/L	8.6E-01	8.6E-01		8.42E-02		UTOT_KPA	2.49E-02	ML	07/25/200 13:54	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: 32923 File Name: h:\Reportdb\edd\FeadIV\Rad\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.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:
9H7ELJ10	B1J991		MW6-SBB-A1	S06-006	W04943					06/14/2006 11:26

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6171193	H-3	10028-17-8	1.65E+03	pCi/L	1.9E+02	2.2E+02		3.22E+02	100.0	906.0_H3_LSC	5.00E-03	L	07/14/200 00:50	I
6171195	ALPHA	12587-46-1	4.21E-01	pCi/L	9.2E-01	9.3E-01	U	2.13E+00	100.0	9310_ALPHABETA	1.209E-01	L	07/26/200 08:44	I
6171196	BETA	12587-47-2	5.67E+00	pCi/L	1.7E+00	1.9E+00		2.98E+00	100.0	9310_ALPHABETA	2.011E-01	L	07/25/200 18:20	I
6171197	I-129L	15046-84-1	1.11E+00	pCi/L	3.6E-01	3.6E-01	U	5.38E-01	97.6	I129LL_SEP_LEPS	3.9256E+00	L	07/24/200 12:57	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9H7ELJ20	B1J991		MW6-SBB-A1	S06-006	W04943					06/14/2006 11:26

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6205510	SR-90	10098-97-2	4.61E-02	pCi/L	1.9E-01	1.9E-01	U	4.23E-01	75.6	SRISO_SEP_PRE	1.0036E+00	L	08/06/200 09:15	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9H7ELK10	B1J987		MW6-SBB-A1	S06-006	W04943					06/14/2006 10:01

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6171193	H-3	10028-17-8	-3.82E+01	pCi/L	1.3E+02	1.5E+02	U	3.22E+02	100.0	906.0_H3_LSC	5.00E-03	L	07/14/200 02:12	I
6171195	ALPHA	12587-46-1	2.84E-01	pCi/L	7.5E-01	7.5E-01	U	1.84E+00	100.0	9310_ALPHABETA	1.099E-01	L	07/26/200 08:44	I
6171196	BETA	12587-47-2	9.37E+00	pCi/L	2.3E+00	2.6E+00		3.77E+00	100.0	9310_ALPHABETA	1.557E-01	L	07/25/200 18:20	I
6171197	I-129L	15046-84-1	-2.69E-02	pCi/L	1.4E-01	1.4E-01	U	2.27E-01	98.6	I129LL_SEP_LEPS	3.9421E+00	L	07/24/200 14:44	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9H7HH710	B1JBC1		MW6-SBB-A1	W06-006	W04943					06/15/2006 08:41

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6171170	TC-99	14133-76-7	7.47E+02	pCi/L	1.5E+01	5.6E+01		9.37E+00	100.0	TC99_ETVDSK_LS	1.261E-01	L	07/21/200 18:40	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9H7HJ210	B1JBB3		MW6-SBB-A1	W06-006	W04943					06/15/2006 10:19

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6171170	TC-99	14133-76-7	1.74E+04	pCi/L	7.2E+01	1.2E+03		9.49E+00	100.0	TC99_ETVDSK_LS	1.248E-01	L	07/21/200 18:40	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9H7HJ510	B1JB99		MW6-SBB-A1	W06-006	W04943					06/15/2006 11:00

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: 32923 File Name: h:\Reportdb\edd\FeadIV\Rad\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6171170	TC-99	14133-76-7	1.21E+02	pCi/L	7.1E+00	1.4E+01		9.45E+00	100.0	TC99_ETVDSK_LS	1.254E-01	L	07/21/200 18:40	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9H7HJ710	B1JB95		MW6-SBB-A1	W06-006	W04943					06/15/2006 12:01

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6171170	TC-99	14133-76-7	1.23E+03	pCi/L	1.9E+01	8.8E+01		9.41E+00	100.0	TC99_ETVDSK_LS	1.259E-01	L	07/21/200 18:40	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9H7HJ910	B1J9X7		MW6-SBB-A1	W06-006	W04943					06/15/2006 09:14

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6171170	TC-99	14133-76-7	1.62E+02	pCi/L	7.9E+00	1.6E+01		9.41E+00	100.0	TC99_ETVDSK_LS	1.259E-01	L	07/21/200 18:40	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9H7HJD10	B1JB87		MW6-SBB-A1	W06-006	W04943					06/15/2006 12:07

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6171193	H-3	10028-17-8	4.87E+02	pCi/L	1.5E+02	1.7E+02		3.21E+02	100.0	906.0_H3_LSC	5.00E-03	L	07/14/200 03:34	I
6171195	ALPHA	12587-46-1	1.52E+00	pCi/L	1.4E+00	1.5E+00	U	2.27E+00	100.0	9310_ALPHABETA	1.02E-01	L	07/26/200 09:48	I
6171196	BETA	12587-47-2	3.99E+02	pCi/L	9.0E+00	6.5E+01		2.44E+00	100.0	9310_ALPHABETA	1.996E-01	L	07/25/200 18:20	I
6171170	TC-99	14133-76-7	1.38E+03	pCi/L	2.0E+01	9.8E+01		9.42E+00	100.0	TC99_ETVDSK_LS	1.255E-01	L	07/21/200 18:40	I
6171200	Uranium	7440-61-1	7.54E-01	ug/L	7.7E-02	7.7E-02		8.12E-02		UTOT_KPA	2.58E-02	ML	07/25/200 13:56	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:
9H7HJW10	B1JB88		MW6-SBB-A1	W06-006	W04943					06/15/2006 12:07

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6171193	H-3	10028-17-8	2.49E+02	pCi/L	1.4E+02	1.6E+02	U	3.20E+02	100.0	906.0_H3_LSC	5.00E-03	L	07/14/200 04:56	I
6171195	ALPHA	12587-46-1	2.98E-01	pCi/L	7.2E-01	7.2E-01	U	1.71E+00	100.0	9310_ALPHABETA	9.73E-02	L	07/26/200 09:48	I
6171196	BETA	12587-47-2	3.33E+02	pCi/L	8.4E+00	4.2E+01		2.75E+00	100.0	9310_ALPHABETA	2.007E-01	L	07/25/200 18:20	I
6171170	TC-99	14133-76-7	1.39E+03	pCi/L	2.1E+01	9.9E+01		9.56E+00	100.0	TC99_ETVDSK_LS	1.252E-01	L	07/21/200 18:40	I
6171200	Uranium	7440-61-1	7.24E-01	ug/L	7.4E-02	7.4E-02		8.09E-02		UTOT_KPA	2.59E-02	ML	07/25/200 14:00	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:
9H7HK010	B1JLF8		MW6-SBB-A1	W06-006	W04943					06/15/2006 10:14

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

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 32923 File Name: h:\Reportdb\edd\FeadIV\Rad\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6171170	TC-99	14133-76-7	1.21E+03	pCi/L	1.9E+01	8.7E+01		9.45E+00	100.0	TC99_ETVDSK_LS	1.252E-01	L	07/21/200 18:41	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9H7HLG10	B1JB84		MW6-SBB-A1	W06-006	W04943					06/15/2006 08:38

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6171196	BETA	12587-47-2	4.02E+01	pCi/L	5.3E+00	7.4E+00		6.63E+00	100.0	9310_ALPHABETA	8.74E-02	L	07/25/200 18:20	I
6171202	BE-7	13966-02-4	-1.48E+01	pCi/L	2.8E+01	2.8E+01	U	4.78E+01		GAMMALL_GS	1.9992E+00	L	07/25/200 08:38	I
6171202	CO-60	10198-40-0	5.03E+00	pCi/L	3.3E+00	3.3E+00	U	7.45E+00		GAMMALL_GS	1.9992E+00	L	07/25/200 08:38	I
6171202	CS-134	13967-70-9	1.69E+00	pCi/L	2.4E+00	2.4E+00	U	5.10E+00		GAMMALL_GS	1.9992E+00	L	07/25/200 08:38	I
6171202	CS-137	10045-97-3	-6.43E-01	pCi/L	2.1E+00	2.1E+00	U	3.77E+00		GAMMALL_GS	1.9992E+00	L	07/25/200 08:38	I
6171202	EU-152	14683-23-9	-5.16E+00	pCi/L	5.4E+00	5.4E+00	U	8.36E+00		GAMMALL_GS	1.9992E+00	L	07/25/200 08:38	I
6171202	EU-154	15585-10-1	-3.36E-02	pCi/L	5.6E+00	5.6E+00	U	1.13E+01		GAMMALL_GS	1.9992E+00	L	07/25/200 08:38	I
6171202	EU-155	14391-16-3	8.99E-01	pCi/L	3.7E+00	3.7E+00	U	6.79E+00		GAMMALL_GS	1.9992E+00	L	07/25/200 08:38	I
6171202	K-40	13966-00-2	1.46E+01	pCi/L	4.3E+01	4.3E+01	U	3.98E+01		GAMMALL_GS	1.9992E+00	L	07/25/200 08:38	I
6171202	RU-106	13967-48-1	1.10E+01	pCi/L	1.9E+01	1.9E+01	U	3.77E+01		GAMMALL_GS	1.9992E+00	L	07/25/200 08:38	I
6171202	SB-125	14234-35-6	-2.39E+00	pCi/L	5.0E+00	5.0E+00	U	8.64E+00		GAMMALL_GS	1.9992E+00	L	07/25/200 08:38	I
6171170	TC-99	14133-76-7	1.14E+02	pCi/L	7.0E+00	1.3E+01		9.49E+00	100.0	TC99_ETVDSK_LS	1.246E-01	L	07/21/200 18:41	I
6171200	Uranium	7440-61-1	3.09E+00	ug/L	3.2E-01	3.2E-01		8.62E-02		UTOT_KPA	2.43E-02	ML	07/25/200 14:02	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.

Tuesday, August 08, 2006

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id:	H7QGM1AB	**Sdg/Rept Nbr:**	W04943	32923	**Collection Date:**	06/15/2006 10:19
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	**BLK**		**Received Date:**	06/15/2006

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
6171170	TC-99	7.56E+00	pCi/L	5.9E+00	U	9.45E+00	100.0		TC99_ETVDSK	1.257E-01	07/21/2006				D
BLK	14133-76-7			4.2E+00						L	18:41				

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\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id:	H7QGT1AB	**Sdg/Rept Nbr:**	W04943	32923	**Collection Date:**	06/14/2006 13:31
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	**BLK**		**Received Date:**	06/14/2006

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
6171174	TC-99	-2.60E+00	pCi/L	5.2E+00	U	7.89E+00	100.0		TC99_SEP_LS	1.254E-01	07/18/2006				D
BLK	14133-76-7			3.2E+00						L	06:22				

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\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id:	H7QJ21AB	**Sdg/Rept Nbr:**	W04943	32923	**Collection Date:** 06/15/2006 12:07
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**BLK**		**Received Date:** 06/15/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6171193	H-3	2.42E+01	pCi/L	1.5E+02	U	3.23E+02	100.0		906.0_H3_LSC	5.00E-03	07/13/2006				D
BLK	10028-17-8			1.3E+02						L	17:58				

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.

Tuesday, August 08, 2006

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id:	H7QJ21DX	**Sdg/Rept Nbr:**	W04943	32923	**Collection Date:**	06/15/2006 12:07
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	**BLK**		**Received Date:**	06/15/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6171193	H-3	-1.49E+02	pCi/L	1.4E+02	U	3.16E+02	100.0		906.0_H3_LSC	5.00E-03	07/13/2006				D
BLK	10028-17-8			1.3E+02						L	20:42				

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\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id:	H7QK31AB	**Sdg/Rept Nbr:**	W04943	32923	**Collection Date:** 06/14/2006 11:26
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**BLK**		**Received Date:** 06/14/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6171197	I-129L	-1.32E-01	pCi/L	1.1E-01	U	1.67E-01	101.6		I129LL_SEP_L	3.9302E+00	07/24/2006				D
BLK	15046-84-1			1.1E-01						L	14:44				

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\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id:	H7QKK1AB	**Sdg/Rept Nbr:**	W04943 32923	**Collection Date:**	06/14/2006 12:17
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	**BLK**	**Received Date:**	06/14/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6171195	ALPHA	4.61E-02	pCi/L	3.4E-01	U	9.91E-01	100.0		9310_ALPHAB	2.01E-01	07/26/2006				D
BLK	12587-46-1			3.4E-01						L	09:48				

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

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id:	H7QKV1AB	**Sdg/Rept Nbr:**	W04943 32923	**Collection Date:**	06/14/2006 10:01
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	**BLK**	**Received Date:**	06/14/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6171196	BETA	1.47E-01	pCi/L	1.3E+00	U	2.77E+00	100.0		9310_ALPHAB	1.993E-01	07/25/2006				D
BLK	12587-47-2			1.3E+00						L	18:20				

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\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id:	H7QLA1AB	**Sdg/Rept Nbr:**	W04943	32923	**Collection Date:** 06/15/2006 12:07
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**BLK**		**Received Date:** 06/15/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6171200	Uranium	4.23E-02	ug/L	4.4E-03	U	8.22E-02			UTOT_KPA	2.55E-02	07/25/2006				D
BLK	7440-61-1			4.4E-03						ML	13:45				

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\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id:	H7QLF1AB	**Sdg/Rept Nbr:**	W04943	32923	**Collection Date:**	06/15/2006 08:38
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	**BLK**		**Received Date:**	06/15/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6171202	BE-7	2.04E+01	pCi/L	2.2E+01	U	4.35E+01			GAMMALL_GS	2.0008E+00	07/25/2006				D
BLK	13966-02-4			2.2E+01						L	08:38				
6171202	CO-60	1.24E+00	pCi/L	1.9E+00	U	4.07E+00			GAMMALL_GS	2.0008E+00	07/25/2006				D
BLK	10198-40-0			1.9E+00						L	08:38				
6171202	CS-134	5.12E-01	pCi/L	1.7E+00	U	3.31E+00			GAMMALL_GS	2.0008E+00	07/25/2006				D
BLK	13967-70-9			1.7E+00						L	08:38				
6171202	CS-137	-9.98E-01	pCi/L	1.5E+00	U	2.53E+00			GAMMALL_GS	2.0008E+00	07/25/2006				D
BLK	10045-97-3			1.5E+00						L	08:38				
6171202	EU-152	3.15E+00	pCi/L	4.2E+00	U	8.18E+00			GAMMALL_GS	2.0008E+00	07/25/2006				D
BLK	14683-23-9			4.2E+00						L	08:38				
6171202	EU-154	-2.10E+00	pCi/L	4.7E+00	U	8.34E+00			GAMMALL_GS	2.0008E+00	07/25/2006				D
BLK	15585-10-1			4.7E+00						L	08:38				
6171202	EU-155	-3.38E+00	pCi/L	3.6E+00	U	5.95E+00			GAMMALL_GS	2.0008E+00	07/25/2006				D
BLK	14391-16-3			3.6E+00						L	08:38				
6171202	K-40	2.45E+00	pCi/L	2.5E+01	U	5.31E+01			GAMMALL_GS	2.0008E+00	07/25/2006				D
BLK	13966-00-2			2.5E+01						L	08:38				
6171202	RU-106	-7.99E+00	pCi/L	1.6E+01	U	2.75E+01			GAMMALL_GS	2.0008E+00	07/25/2006				D
BLK	13967-48-1			1.6E+01						L	08:38				
6171202	SB-125	-4.93E+00	pCi/L	4.4E+00	U	6.87E+00			GAMMALL_GS	2.0008E+00	07/25/2006				D
BLK	14234-35-6			4.4E+00						L	08:38				

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

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id:	H9WP21AB	**Sdg/Rept Nbr:**	W04943 32923	**Collection Date:**	06/14/2006 10:54
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	06/14/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6205510	SR-90	3.19E-01	pCi/L	2.7E-01	U	5.24E-01	63.7		SRISO_SEP_P	1.0014E+00	08/06/2006				D
BLK	10098-97-2			2.7E-01						L	09:17				

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\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id:	H7QGM1CS	**Sdg/Rept Nbr:**	W04943	32923	**Collection Date:**	06/15/2006 10:19
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	**BS**		**Received Date:**	06/15/2006

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
6171170	TC-99	3.37E+03	pCi/L	2.3E+02		9.51E+00	100.0	3.63E+03	TC99_ETVDSK	1.243E-01	07/21/2006			70	D
BS	14133-76-7			3.2E+01				92.8		L	18:41			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\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id:	H7QGT1CS	**Sdg/Rept Nbr:**	W04943	32923	**Collection Date:** 06/14/2006 13:31
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 06/14/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6171174	TC-99	4.70E+02	pCi/L	3.3E+01		7.92E+00	100.0	5.45E+02	TC99_SEP_LS	1.25E-01	07/18/2006			70	D
BS	14133-76-7			9.7E+00				86.2		L	08:04			130	

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

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id:	H7QJ21CS	**Sdg/Rept Nbr:**	W04943	32923	**Collection Date:** 06/15/2006 12:07
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**BS**		**Received Date:** 06/15/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6171193	H-3	2.38E+03	pCi/L	2.5E+02		3.21E+02	100.0	2.72E+03	906.0_H3_LSC	5.00E-03	07/13/2006			70	D
BS	10028-17-8			2.1E+02				87.5		L	19:20			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\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id: H7QJ21EM **Sdg/Rept Nbr:** W04943 32923 **Collection Date:** 06/15/2006 12:07

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 06/15/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6171193	H-3	2.42E+03	pCi/L	2.5E+02		3.23E+02	100.0	2.72E+03	906.0_H3_LSC	5.00E-03	07/13/2006			70	D
BS	10028-17-8			2.1E+02				88.9		L	22:05			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\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id:	H7QK31CS	**Sdg/Rept Nbr:**	W04943	32923	**Collection Date:**	06/14/2006 11:26
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:**	06/14/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6171197	I-129L	8.74E+00	pCi/L	1.1E+00		3.58E-01	96.8		I129LL_SEP_L	3.9987E+00	07/24/2006			70 130	D
BS	15046-84-1			1.1E+00						L	16:28				

SKS 8/8/06

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

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id:	H7QKK1CS	**Sdg/Rept Nbr:**	W04943 32923	**Collection Date:**	06/14/2006 12:17
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	**BS**	**Received Date:**	06/14/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6171195	ALPHA	1.64E+01	pCi/L	4.2E+00		1.15E+00	100.0	2.28E+01	9310_ALPHAB	2.008E-01	07/26/2006			70	D
BS	12587-46-1			2.7E+00				71.7		L	09:48			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\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id:	H7QKV1CS	**Sdg/Rept Nbr:**	W04943	32923	**Collection Date:** 06/14/2006 10:01
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 06/14/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6171196	BETA	2.45E+01	pCi/L	4.0E+00		2.63E+00	100.0	2.28E+01	9310_ALPHAB	2.001E-01	07/25/2006			70	D
BS	12587-47-2			2.5E+00				107.6		L	18:20			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\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id:	H7QLA1CS	**Sdg/Rept Nbr:**	W04943	32923	**Collection Date:** 06/15/2006 12:07
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 06/15/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6171200	Uranium	3.49E+00	ug/L	3.6E-01		8.22E-02		3.60E+00	UTOT_KPA	2.55E-02	07/25/2006			70	D
BS	7440-61-1			3.6E-01				97.1		ML	13:48			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\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id:	H7QLA1DS	**Sdg/Rept Nbr:**	W04943	32923	**Collection Date:** 06/15/2006 12:07
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**BS**		**Received Date:** 06/15/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6171200	Uranium	3.48E+00	ug/L	3.6E-01		8.35E-02		3.60E+00	UTOT_KPA	2.51E-02	07/25/2006			70	D
BS	7440-61-1			3.6E-01				96.8		ML	13:50			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\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id: H7QLF1CS **Sdg/Rept Nbr:** W04943 32923 **Collection Date:** 06/15/2006 08:38

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 06/15/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6171202	CO-60	3.72E+01	pCi/L	8.2E+00		2.51E+00		3.89E+01	GAMMALL_GS	2.0002E+00	07/25/2006			70	D
BS	10198-40-0			8.2E+00				95.6		L	08:39			130	
6171202	CS-137	3.00E+01	pCi/L	6.0E+00		3.38E+00		2.52E+01	GAMMALL_GS	2.0002E+00	07/25/2006			70	D
BS	10045-97-3			6.0E+00				119.3		L	08:39			130	
6171202	EU-152	7.10E+01	pCi/L	1.5E+01		8.76E+00		7.71E+01	GAMMALL_GS	2.0002E+00	07/25/2006			70	D
BS	14683-23-9			1.5E+01				92.0		L	08:39			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\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id: H9WP21CS **Sdg/Rept Nbr:** W04943 32923 **Collection Date:** 06/14/2006 10:54

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 06/14/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6205510	SR-90	1.30E+01	pCi/L	2.0E+00		4.80E-01	69.4	1.36E+01	SRISO_SEP_P	1.0001E+00	08/06/2006			70	D
BS	10098-97-2			8.3E-01				95.6		L	09:17			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\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id:	H7EKW1GR	**Sdg/Rept Nbr:**	W04943	32923	**Collection Date:** 06/14/2006 12:17
Client Id:	B1J8B5	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**DUP**		**Received Date:** 06/14/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S06-006	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
6171195	ALPHA	1.18E+00	pCi/L	1.3E+00	U	2.30E+00	100.0		9310_ALPHAB	9.96E-02	07/26/2006	43.9	0.7		D
DUP	12587-46-1	1.84E+00		1.3E+00						L	08:44	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 Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id:	H7ELA1FR	**Sdg/Rept Nbr:**	W04943	32923	**Collection Date:**	06/14/2006 13:31
Client Id:	B1J9J7	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:**	06/14/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W06-006	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
6171174	TC-99	1.90E+01	pCi/L	6.4E+00		7.97E+00	100.0		TC99_SEP_LS	1.242E-01	07/18/2006	14.0	0.6		D
DUP	14133-76-7	1.66E+01		3.8E+00						L	04:39	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\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id:	H7ELJ1GR	**Sdg/Rept Nbr:**	W04943	32923	**Collection Date:**	06/14/2006 11:26
Client Id:	B1J991	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:**	06/14/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S06-006	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
6171197	I-129L	8.15E-01	pCi/L	2.6E-01	U	4.53E-01	97.0		I129LL_SEP_L	3.9235E+00	07/24/2006	30.4	1.6		D
DUP	15046-84-1	1.11E+00		2.6E-01						L	14:43	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\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id:	H7ELJ2HR	**Sdg/Rept Nbr:**	W04943 32923	**Collection Date:**	06/14/2006 11:26
Client Id:	B1J991	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	06/14/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S06-006	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
6205510	SR-90	-3.92E-02	pCi/L	1.9E-01	U	4.35E-01	66.9		SRISO_SEP_P	1.0039E+00	08/06/2006	2454.1	0.6		D
DUP	10098-97-2	4.61E-02		1.2E-01						L	09:15	20.0	3		

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

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id:	H7ELK1FR	**Sdg/Rept Nbr:**	W04943 32923	**Collection Date:**	06/14/2006 10:01
Client Id:	B1J987	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	06/14/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S06-006	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
6171196	BETA	8.64E+00	pCi/L	2.5E+00		3.63E+00	100.0		9310_ALPHAB	1.56E-01	07/25/2006	8.1	0.4		D
DUP	12587-47-2	9.37E+00		2.3E+00						L	18:20	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\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id:	H7HJ21CR	**Sdg/Rept Nbr:**	W04943	32923	**Collection Date:**	06/15/2006 10:19
Client Id:	B1JBB3	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:**	06/15/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W06-006	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
6171170	TC-99	1.85E+04	pCi/L	1.3E+03		9.53E+00	100.0		TC99_ETVDSK	1.242E-01	07/21/2006	5.9	1.2		D
DUP	14133-76-7	1.74E+04		7.4E+01						L	18:40	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.

Tuesday, August 08, 2006

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id:	H7HJD1GR	**Sdg/Rept Nbr:**	W04943	32923	**Collection Date:**	06/15/2006 12:07
Client Id:	B1JB87	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:**	06/15/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W06-006	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
6171200	Uranium	7.53E-01	ug/L	7.7E-02		8.09E-02			UTOT_KPA	2.59E-02	07/25/2006	.1	0.		D
DUP	7440-61-1	7.54E-01		7.7E-02						ML	13:58	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.

Tuesday, August 08, 2006

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id:	H7HJW1GR	**Sdg/Rept Nbr:**	W04943	32923	**Collection Date:**	06/15/2006 12:07
Client Id:	B1JB88	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:**	06/15/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W06-006	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
6171193	H-3	3.96E+02	pCi/L	1.7E+02		3.21E+02	100.0		906.0_H3_LSC	5.00E-03	07/14/2006	45.6	1.2		D
DUP	10028-17-8	2.49E+02		1.5E+02						L	06:19	20.0	3		

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

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id: H7HLG1GR **Sdg/Rept Nbr:** W04943 32923 **Collection Date:** 06/15/2006 08:38
Client Id: B1JB84 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **Received Date:** 06/15/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W06-006	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
6171202	BE-7	1.93E+01	pCi/L	2.9E+01	U	5.77E+01			GAMMALL_GS	2.0023E+00	07/25/2006	1518.2	1.6		D
DUP	13966-02-4	-1.48E+01		2.9E+01						L	08:38	20.0	3		
6171202	CO-60	3.88E+00	pCi/L	3.2E+00	U	7.06E+00			GAMMALL_GS	2.0023E+00	07/25/2006	25.8	0.5		D
DUP	10198-40-0	5.03E+00		3.2E+00						L	08:38	20.0	3		
6171202	CS-134	-2.96E-01	pCi/L	2.0E+00	U	3.76E+00			GAMMALL_GS	2.0023E+00	07/25/2006	284.7	1.4		D
DUP	13967-70-9	1.69E+00		2.0E+00						L	08:38	20.0	3		
6171202	CS-137	-1.96E-01	pCi/L	2.2E+00	U	4.11E+00			GAMMALL_GS	2.0023E+00	07/25/2006	0.0	0.3		D
DUP	10045-97-3	-6.43E-01		2.2E+00						L	08:38	20.0	3		
6171202	EU-152	-2.80E+00	pCi/L	6.0E+00	U	1.03E+01			GAMMALL_GS	2.0023E+00	07/25/2006	0.0	0.6		D
DUP	14683-23-9	-5.16E+00		6.0E+00						L	08:38	20.0	3		
6171202	EU-154	-3.83E+00	pCi/L	7.8E+00	U	1.36E+01			GAMMALL_GS	2.0023E+00	07/25/2006	0.0	0.7		D
DUP	15585-10-1	-3.36E-02		7.8E+00						L	08:38	20.0	3		
6171202	EU-155	-1.59E+00	pCi/L	4.7E+00	U	8.25E+00			GAMMALL_GS	2.0023E+00	07/25/2006	0.0	0.7		D
DUP	14391-16-3	8.99E-01		4.7E+00						L	08:38	20.0	3		
6171202	K-40	-6.93E+00	pCi/L	4.6E+01	U	1.02E+02			GAMMALL_GS	2.0023E+00	07/25/2006	559.2	0.7		D
DUP	13966-00-2	1.46E+01		4.6E+01						L	08:38	20.0	3		
6171202	RU-106	1.16E+01	pCi/L	2.2E+01	U	4.36E+01			GAMMALL_GS	2.0023E+00	07/25/2006	5.7	0.		D
DUP	13967-48-1	1.10E+01		2.2E+01						L	08:38	20.0	3		
6171202	SB-125	-8.69E-01	pCi/L	5.2E+00	U	9.33E+00			GAMMALL_GS	2.0023E+00	07/25/2006	0.0	0.4		D
DUP	14234-35-6	-2.39E+00		5.2E+00						L	08:38	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\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id: H7ELA1EW **Sdg/Rept Nbr:** W04943 32923 **Collection Date:** 06/14/2006 13:31
Client Id: B1J9J7 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** MS **Received Date:** 06/14/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W06-006	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
6171174	TC-99	3.00E+03	pCi/L	1.8E+02		7.98E+00	100.0	3.66E+03	TC99_SEP_LS	1.24E-01	07/18/2006			60	D
MS	14133-76-7			2.3E+01				82.0		L	02:56			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\W04943.Edd, h:\Reportdb\edd\FeadIV\Rad\32923.Edd

Lab Sample Id:	H7HJ51CW	**Sdg/Rept Nbr:**	W04943	32923	**Collection Date:**	06/15/2006 11:00
Client Id:	B1JB99	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	**MS**		**Received Date:**	06/15/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W06-006	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
6171170	TC-99	3.26E+03	pCi/L	2.3E+02		9.45E+00	100.0	3.61E+03	TC99_ETVDSK	1.258E-01	07/21/2006			60	D
MS	14133-76-7			3.2E+01				90.5		L	18:40			140	

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/26/2006 4:47:25 PM

Lot No., Due Date: J6F140356,J6F140365; 07/31/2006

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6171197; RGAMLEPS Gamma by LEPS

SDG, Matrix: W04943; 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 Pam Anderson **Date** 7-27-06

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6171197
W049423

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: 7-27-06

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/26/2006 12:08:06 PM

Lot No., Due Date: J6F140359,J6F150343; 07/31/2006

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6171202; RGAMMA Gamma by GER

SDG, Matrix: W04943; WATER

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

6.0 Comments on any No response:

First Level Review Pam Anderson **Date** 7-26-06

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6171202

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 R Adam Date: 7-26-06

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/26/2006 11:30:20 AM

Lot No., Due Date: J6F140356,J6F140365,J6F150336; 07/31/2006

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6171195; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W04943; 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:

See NCM #10-08394 for response to Item 3.5.

First Level Review Matt Landy **Date** 7-26-06

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6171195
W04943

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: 7-26-06

Clouseau
Nonconformance Memo

SEVERN TRENT SERVICES

NCM #: **10-08394**
NCM Initiated By: Matt Lardy
Date Opened: 07/26/2006
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Alpha by GPC-Am
Lot #'s (Sample #'s): J6F140356 (1,2), J6F140365 (1,2), J6F150336 (2,3), J6F200000 (195),
QC Batches: 6171195

Nonconformance: MDA not met
Subcategory: Data accepted

Problem Description / Root Cause

Name	Date	Description
Matt Lardy	07/26/2006	Due to high weight screens the aliquot sizes on the following samples were reduced: H7EKP1AC, H7EKW1AA, H7EKW1AG, H7ELJ1AC, H7ELK1AC, H7HJD1AC, H7HJW1AC. The CRDLs on all samples except sample H7EKP1AC, were achieved. The MDC for sample H7EKP1AC was just above the CRDL of 3 at 3.07 pCi/l.

Corrective Action

Name	Date	Corrective Action
Matt Lardy	07/26/2006	Report the sample results.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/26/2006 5:02:16 PM

Lot No., Due Date: J6F140359,J6F140356,J6F140367,J6F140362,J6F140365,J6F150336,J6F150343; 07/31/2006

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6171196; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W04943; 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 => H7EKP1AD 155.30<200.00 H7ELA1AA 91.20<200.00 H7ELK1AD 155.70<200.00 H7EL31AC 170.60<200.00 H7EL51AA 152.60<200.00 H7HLG1AA 87.40<200.00 Q:VB OK PA 7.27.06		✓	
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. MDC/MDA > CRDL => H7ELA1AA BETA 6.5E+00>4.0E+00 H7HLG1AA BETA 6.6E+00>4.0E+00 Q:C1		✓	
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => H7EKP1AD BETA 2.2E+01 L:3.7E+00 H7EKW1AC BETA 1.4E+01 L:2.8E+00 H7EK81AA BETA 1.8E+02 L:2.6E+00 H7ELA1AA BETA 1.7E+01 L:6.5E+00 H7ELJ1AD BETA 5.7E+00 L:3.0E+00 H7ELK1AD BETA 9.4E+00 L:3.8E+00		✓	

NCM # 10-08401

H7EL11AC BETA 5.4E+01 L:2.8E+00
H7EL31AC BETA 2.3E+02 L:3.2E+00
H7EL41AA BETA 2.9E+01 L:2.8E+00
H7EL51AA BETA 1.2E+02 L:3.7E+00
H7HJD1AD BETA 4.0E+02 L:2.4E+00
H7HJW1AD BETA 3.3E+02 L:2.7E+00
H7HLG1AA BETA 4.0E+01 L:6.6E+00

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

First Level Review Pam Anderson **Date** 7-27-04

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6171194

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

Comments on any "No" response: See NCM

Second Level Review: Sherryl A Adam Date: 7-27-06

Clouseau
Nonconformance Memo

SEVERN TRENT SERVICES

NCM #: **10-08401**
NCM Initiated By: Pam Anderson
Date Opened: 07/27/2006
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Sep
Tests: Beta by GPC-Sr/Y
Lot #'s (Sample #'s): J6F140362 (1), J6F150343 (1),
QC Batches: 6171196

Nonconformance: MDA not met
Subcategory: Data accepted

Problem Description / Root Cause

Name	Date	Description
Pam Anderson	07/27/2006	Samples H7ELA1AA and H7HLG1AA do not meet CRDL due to high rad screens. A smaller aliquot is taken to prevent contamination in the labs. The results of these samples are >MDA>CRDL.

Corrective Action

Name	Date	Corrective Action
Pam Anderson	07/27/2006	None at this time.

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

8/7/2006 12:15:14 PM

Lot No., Due Date: J6F140356,J6F140365; 07/31/2006

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6205510; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W04943; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	✓		
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used OK	✓		
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. RPD > UCL : 20.0=> H7ELJ2AH SR-90 200.0 (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. No Positive Results OK	✓		
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => SR-90 OK; No Callin Level Found => SR-90	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

10-08448

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** 8-7-04

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6205510

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: 8-7-06

Clouseau
Nonconformance Memo

SEVERN TRENT SERVICES

NCM #: **10-08448**
NCM Initiated By: Pam Anderson
Date Opened: 08/07/2006
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Sep
Tests: Sr-85/90 by GPC-7
Lot #'s (Sample #'s): J6F140356 (1), J6F140365 (1), J6G240000 (510),
QC Batches: 6205510

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

Problem Description / Root Cause

Name	Date	Description
Pam Anderson	08/07/2006	The Sr 90 batch was reanalyzed when the LCS had a low yield. The tech noted the first analysis LCS spattered when it was fllamed.

Corrective Action

Name	Date	Corrective Action
Pam Anderson	08/07/2006	The reanalysis is acceptable.

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

Lot No., Due Date: J6F140359,J6F140356,J6F140367,J6F150336,J6F150343; 07/31/2006

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6171170; RTC99 Tc-99 by LSC

SDG, Matrix: W04943; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples Incorrect Tracer/Vial => H7HJ51AC TCSG<>TCSE H7QGM1AC TCSG<>TCSE Q:V9		✓	
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used OK	✓		
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. OK	✓		
8.17 Tracer within Control Limits. No Tracers found in Batch!			✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!			✓
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK Calc_IDL Not Calculated	✓		
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => TC-99 OK; No Callin Level Found => TC-99	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

8.26 Instruments have Current Calibrations.	Yes	No	N/A
8.27 Correct Count Library Used. 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** 7-25-04

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6171170
W04943

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: 7-25-06

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/18/2006 3:01:07 PM

Lot No., Due Date: J6F140362; 07/31/2006

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6171174; RTC99 Tc-99 by LSC

SDG, Matrix: W04943; 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 Thomas E. Wheeland **Date** 7/18/06

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6171174
W04943

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

Comments on any "No" response: _____

Second Level Review: Sheryl A. Adam Date: 7-19-06

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/17/2006 3:37:49 PM

Lot No., Due Date: J6F140356,J6F140365,J6F150336; 07/31/2006

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6171193; RTRITIUM H-3 by LSC

SDG, Matrix: W04943; WATER

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** 7/17/06

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6171193
W04943

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

Comments on any "No" response: _____

Second Level Review: Sheryl A Adam Date: 7-17-06

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/26/2006 11:37:44 AM

Lot No., Due Date: J6F140359,J6F140362,J6F150336,J6F150343; 07/31/2006

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6171200; RUNAT UNat by KPA

SDG, Matrix: W04943; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples Incorrect Tracer/Vial => H7QLA1AC UNSC<>UNSF H7QLA1AD UNSC<>UNSF Q:V9		✓	
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used No Count Analysis Size found in Batch Data!			✓
8.07 The Correct Count Geometry was Used. No Count Geometry found in Batch Data!			✓
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. No Count Duration Field Found in Batch Data!			✓
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. OK	✓		
8.17 Tracer within Control Limits. No Tracers found in Batch!			✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!			✓
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => H7EK81AE Uranium 2.1E+00 L:8.3E-02 H7ELA1AD Uranium 8.4E+00 L:8.4E-02 H7HJD1AF Uranium 7.5E-01 L:8.1E-02 H7HJW1AF Uranium 7.2E-01 L:8.1E-02 H7HLG1AE Uranium 3.1E+00 L:8.6E-02		✓	
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => Uranium OK; No Callin Level Found => Uranium	✓		

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

First Level Review Pam Anderson **Date** 7-26-06

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6171200
W04943

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: 7-24-06

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/26/2006 2:36:04 PM

Lot No., Due Date: J6F140367; 07/31/2006

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6171276;

SDG, Matrix: W04943; WATER

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

6.0 Comments on any No response:

First Level Review Pam Anderson **Date** 7.26.06

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 617276
W04943

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 R Adam Date: 9-26-06

PNNL J6F140356
W04943
Due 7.28.06

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S06-006-21

Collector DURATEK K.J.YOUNG	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S06-006	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JUNE 2006	DTS - SAWS H 1054	**Ice Chest No.** TJ-9 **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
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1J995		W	6-14-06	1054	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1J995		W			1x20-mL P	Activity Scan H7EKP	None
B1J995		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1J995		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1J995		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1J995		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

Relinquished By	Received By
Print DURATEK K.J.YOUNG Sign [signature] Date/Time 15:05 JUN 14 2006	Print S. Welch Sign S. Welch Date/Time 15:05 JUN 14 2006
Relinquished By Date/Time	Received By Date/Time
Relinquished By Date/Time	Received By Date/Time
Relinquished By Date/Time	Received By Date/Time

Matrix *

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

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

PNNL JGF140356 W04943	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S06-006-24 Page 1 of 1

Collector DURATEK K.J YOUNG	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S06-006	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JUNE 2006	DTS - SAW B 14 104	**Ice Chest No.** TJ-9 **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
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1J8B5		W	6-14-06	1217	1x20-mL P	Activity Scan	None
B1J8B5		W			3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1) HTEKW	None
B1J8B5		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1J8B5		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By	Received By
Print DURATEK K.J YOUNG Sign Date/Time 1500 JUN 14 2006	Print S. Welch Sign S. Welch Date/Time 1505 JUN 14 2006
Relinquished By Date/Time	Received By Date/Time
Relinquished By Date/Time	Received By Date/Time
Relinquished By Date/Time	Received By Date/Time

Matrix *

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

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 6·14·06 15:05

Client: PGW SDG #: W04943 NA [ ] SAF #: 506-006 NA [ ]

Work Order Number: J6F140356 Chain of Custody # 506-006-21, 24

Shipping Container ID: TJ-9 Air Bill # N/A

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

Sample Custodian: S. Welch Date: 6·14·06 15:05

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, 12/05, Rev. 6

PNNL J6F140359
W04943
Due 7.28.06

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W06-006-53

Page 1 of 1

Collector DURATEK K.J. YOUNG	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W06-006	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, JUNE 2006	DTS- SAWS H104	**Ice Chest No.** TJ-9 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1JB40		W	6-14-06	0945	1x20-mL P	Activity Scan	None
B1JB40		W			1x500-mL G/P	UTOT_KPA: Uranium (1) H7EK8	HNO3 to pH <2
B1JB40		W			1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
B1JB40		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1JB40		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK K.J. YOUNG			15:05 JUN 14 2006		S. Welch	S. Welch	15:05 JUN 14 2006
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 6-14-06 15:05

Client: PGW SDG #: W04943 NA [ ] SAF #: W06-006 NA [ ]

Work Order Number: J6F140359 Chain of Custody # W06-006-53

Shipping Container ID: TJ-9 Air Bill # N/A

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

Sample Custodian: S. Wilk Date: 6-14-06 15:05

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, 12/05, Rev. 6

PNNL J6F140362
W04943
Due 7-28-06

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W06-006-14

Collector DURATEK F. M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W06-006	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, JUNE 2006	Logbook: DTS-SAWS-H105	**Ice Chest No.** 6RP-03-021 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "T", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1J9J7		W	6/14/06	1331	1x20-mL P	Activity Scan	None
B1J9J7		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1) H7ELA	HNO3 to pH <2
B1J9J7		W			1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
B1J9J7		W			3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2

L. Wall 6/14/06

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK F. M. HALL			JUN 14 2006 1455		S. Welch	S. Welch	JUN 14 2006 1455
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: 6-14-06 14:55

Client: PGW SDG #: W04943 NA [ ] SAF #: W06-006 NA [ ]

Work Order Number: J6F 140362 Chain of Custody # W06-006-14

Shipping Container ID: GRP-03-021 Air Bill # N/A

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

Sample Custodian: S. Welch Date: 6-14-06 14:55

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, 12/05, Rev. 6

PNNL JGF140365 W04943 Due 7-28-06

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S06-006-18

Collector DURATEK F. M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S06-006	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV. JUNE 2006	Logbook: DTS-SAWS-H105	**Ice Chest No.** GRP-03-021 **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
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1J991		W	6/14/06	1126	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1J991		W			1x20-mL P	Activity Scan	None
B1J991		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2) HTELJ	HNO3 to pH <2
B1J991		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1J991		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

R Wall 6/14/06

Relinquished By DURATEK F. M. HALL	Print Sign JUN 14 2006 Date/Time 1455	Received By S. Welch	Print Sign S. Welch JUN 14 2006 Date/Time 1455
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 JCF140365 W04943

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S06-006-15

Collector DURATEK F. M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S06-006	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JUNE 2006	Logbook: DTS-SAWS-H10S	**Ice Chest No.** GRP-03-021 **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
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1J987		W	6/14/06	1001	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1J987		W	↓	↓	1x20-mL P	Activity Scan H7ELK	None
B1J987		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1J987		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
			L. Wall 6/14/06				

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK F. M. HALL			JUN 14 2006 1455	S. Welch		S. Welch	JUN 14 2006 1455
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: 6-14-06 14:55

Client: PGW SDG #: W04943 NA [ ] SAF #: S06-006 NA [ ]

Work Order Number: J6F140365 Chain of Custody # S06-006-18, 15

Shipping Container ID: GRP-03-021 Air Bill # N/A

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

Sample Custodian: S. Wilk Date: 6-14-06 14:55

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, 12/05, Rev. 6

PNNL J6F140367
W04943
Due 7/28/06

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W06-006-32

Collector: DURATEK R. T. SICKLE	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W06-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, JUNE 2006	DTS-SAWS-H103B	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: RCRA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1J9V3		W	6-14-06	1000	1x20-mL P	Activity Scan	None
B1J9V3		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1) HTELS	HNO3 to pH <2
B1J9V3		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK R. T. SICKLE			1451 JUN 14 2006	S. Welch		S Welch	1451 JUN 14 2006
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

PNNL U6F140267
W04943
Due 7-28-06

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W06-006-20

Collector: DURATEK R. T. SICKLE	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W06-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, JUNE 2006	DTS-SHWS-H1031B	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: RCRA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "T", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1J9M9		W	6-14-06	1150	1x20-mL P	Activity Scan H7ELI	None
B1J9M9		W			1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
B1J9M9		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1J9M9		W			1x500-mL P	9223_COLIFORM: Coliform (1)	Na2S2O3 Cool 4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK R. T. SICKLE			JUN 14 2006 1451	S. Welch	S. Welch		JUN 14 2006 1451
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 J6F140367 W07943 Due 7-28-06

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W06-006-23

Collector DURATEK R.T. SICKLE	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. W06-006	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA, JUNE 2006	DTS-SHWS-H103B	Ice Chest No. SMC-595 Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol RCRA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1J9P0		W	6-14-06	1236	1x20-mL P	Activity Scan	None
B1J9P0		W			1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1) H7EL3	HNO3 to pH <2
B1J9P0		W			1x500-mL P	9223_COLIFORM: Coliform (1)	Na2S2O3 Cool 4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK R.T. SICKLE			JUN 14 2006 1450	S. Welch	S. Welch		JUN 14 2006 1450
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

PNNL J6F140367 W04943 Due 1.28.06

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W06-006-17

Collector: DURATEK R. T. SICKLE	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W06-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, JUNE 2006	DTS-SAWS-H103B	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: RCRA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1J9L8		W	6/14/0	1101	1x20-mL P	Activity Scan	None
B1J9L8		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1) H7EL4	HNO3 to pH <2
B1J9L8		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

Relinquished By	Received By
Print: DURATEK R. T. SICKLE Sign: [signature] Date/Time: 1451 JUN 14 2006	Print: S. Welch Sign: S. Welch Date/Time: 1451 JUN 14 2006
Relinquished By Date/Time	Received By Date/Time
Relinquished By Date/Time	Received By Date/Time
Relinquished By Date/Time	Received By Date/Time

Matrix *

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

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 6-14-06 14:55

Client: PGW SDG #: W04943 NA [ ] SAF #: W06-006 NA [ ]

Work Order Number: J6F140367 Chain of Custody # W06-006-32, 20, 23, 17

Shipping Container ID: SML-595 Air Bill # N/A

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 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 [✓] adjusted pH [ ]
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): N/A

Sample Custodian: _____ Date: _____

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, 12/05, Rev. 6

PNNL J6F150336 W04943

Due 7-31-06

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W06-006-153

Collector DURATEK D.P. CONNOLLY	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W06-006	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, JUNE 2006	DTS-SAWS-H105	**Ice Chest No.** SAWS 370 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
~~B1JBB7~~ B15BB7 ~~B13LFB~~		W	6-15-06	1014	1x20-mL P	Activity Scan	None
~~B1JBB7~~ (F) B15LFB		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1) H7HK0	HCl to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	DURATEK D.P. CONNOLLY	D.P.	JUN 15 2006 14:30	S. Welch	S. Welch	S. Welch	JUN 15 2006 14:30
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 J6F150336
W04943
Due 7.31.06

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W06-006-159

Collector DURATEK B.P. CONNOLLY	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W06-006	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, JUNE 2006	DTS-SAMS-H105	**Ice Chest No.** SAMS-370 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1JBC1		W	6-15-06	0941	1x20-mL P	Activity Scan H7HH7	None
B1JBC1		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

Relinquished By DURATEK B.P. CONNOLLY Print Sign Date/Time 14:30 JUN 15 2006	Received By S. Welch Print S. Welch Sign Date/Time 14:30 JUN 15 2006	Matrix *	
Relinquished By Date/Time	Received By Date/Time	S = Soil	DS = Drum Solid
		SE = Sediment	DL = Drum Liqui
		SO = Solid	T = Tissue
		SL = Sludge	WI = Wipe
		W = Water	L = Liquid
Relinquished By Date/Time	Received By Date/Time	O = Oil	V = Vegetation
		A = Air	X = Other
Relinquished By Date/Time	Received By Date/Time		

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

PNNL J6F150336 W04943

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W06-006-129

Collector DURATEK D.P. CONNOLLY	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W06-006	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, JUNE 2006	DTS-SAWS-K105	**Ice Chest No.** SAWS-370 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1JB87		W	6-15-06	1207	1x20-mL P	Activity Scan	None
B1JB87		W			1x500-mL G/P	UTOT_KPA: Uranium (1) H7H5D	HNO3 to pH <2
B1JB87		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1JB87		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1JB87		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK D.P. CONNOLLY			JUN 15 2006 14:30		S. Welch	S. Welch	JUN 15 2006 14:30
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 J6F150336 W04943

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W06-006-130

Collector DURATEK D. P. CONNOLLY	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W06-006	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, JUNE 2006	DTS SAWS H105	**Ice Chest No.** SAW-370 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1JB88		W	6-15-06	1207	1x20-mL P	Activity Scan	None
B1JB88		W			1x500-mL G/P	UTOT_KPA: Uranium (1) H7HJW	HNO3 to pH <2
B1JB88		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1JB88		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1JB88		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2

Relinquished By DURATEK D. P. CONNOLLY Print Sign Date/Time 14:30 JUN 15 2006	Received By S. Welch Print S Welch Sign Date/Time 14:30 JUN 15 2006		Matrix *
Relinquished By Date/Time	Received By Date/Time		S = Soil, SE = Sediment, SO = Solid, SL = Sludge, W = Water, O = Oil, A = Air, DS = Drum Solid, DL = Drum Liqui, T = Tissue, WI = Wipe, L = Liquid, V = Vegetation, X = Other
Relinquished By Date/Time	Received By Date/Time		
Relinquished By Date/Time	Received By Date/Time		

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

PNNL J6F150336 W04943

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W06-006-147

Page 1 of 1

Collector DURATEK K. J. YOUNG	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W06-006	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, JUNE 2006	DTS - SMWS H 104	**Ice Chest No.** TJ-9 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1JBB3		W	6-15-06	1019	1x20-mL P	Activity Scan H7HJ2	None
B1JBB3		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

Relinquished By DURATEK K. J. YOUNG Print Sign JUN 15 2006 Date/Time 1430	Received By S. Welch Print S. Welch Sign JUN 15 2006 Date/Time 1430	Matrix *	
Relinquished By Date/Time	Received By Date/Time	S = Soil	DS = Drum Solid
Relinquished By Date/Time	Received By Date/Time	SE = Sediment	DL = Drum Liqui
Relinquished By Date/Time	Received By Date/Time	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 J6F150336 W04943

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W06-006-141

Page 1 of 1

Collector DURATEK K. J. YOUNG	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W06-006	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, JUNE 2006	DTS - SAWS H 104	**Ice Chest No.** TJ-9 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1JB99		W	6-15-06	1100	1x20-mL P	Activity Scan	None
B1JB99		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1) HTHJ5	HCl to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK K. J. YOUNG			JUN 15 2006 14:30	S. Welch		S. Welch	JUN 15 2006 14:30
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 J6F150336 W04943

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W06-006-135

Page 1 of 1

Collector DURATEK K. J. YOUNG	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W06-006	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, JUNE 2006	DTS-SAWS H104	**Ice Chest No.** TJ-9 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1JB95		W	6-15-06	1201	1x20-mL P	Activity Scan	None
B1JB95		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1) H7H57	HCl to pH <2

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
DURATEK K. J. YOUNG	K. J. Young	JUN 15 2006 14:30	S. Welch	S. Welch	JUN 15 2006 14:30
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

PNNL J6F150334 W04943

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W06-006-123

Page 1 of 1

Collector DURATEK K. J. YOUNG	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W06-006	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, JUNE 2006	DTS - SAWS H 104	**Ice Chest No.** TJ-9 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1J9X7		W	6-15-06	0914	1x20-mL P	Activity Scan	None
B1J9X7		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1) H7HJ9	HCl to pH <2

Relinquished By Print DURATEK K. J. YOUNG Sign Date/Time 14:30 JUN 15 2006	Received By Print S. Welch Sign S. Welch Date/Time 1450 JUN 15 2006	Matrix *	
Relinquished By Date/Time	Received By Date/Time	S = Soil	DS = Drum Solid
Relinquished By Date/Time	Received By Date/Time	SE = Sediment	DL = Drum Liqui
Relinquished By Date/Time	Received By Date/Time	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: 6.15.06 14:30

Client: PGW SDG #: W04943 NA [ ] SAF #: W06-006 NA [ ]

Work Order Number: J6F150336 Chain of Custody #: W06-006-153, 159, 129, 130, 147, 141, 135, 123

Shipping Container ID: SAW S-370 IJ-9 Air Bill # N/A

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 9
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   _____ tape
   _____ custody seals
   _____ hazard labels
   ✓ appropriate samples labels
9. Samples are:
   ✓ in good condition
   _____ broken
   _____ leaking
   _____ have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] adjusted pH [ ]
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): COC W06-006-153 Sample IDs were listed as BIJBB7 & BIJLF8 while the bottom was labeled as BIJBB7. Client instructed us to use sample IDs listed on COC.

Sample Custodian: S. Welch Date: 6.15.06 14:30

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

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Welch, Summer

From: Adam, Sherryl
Sent: Friday, June 16, 2006 1:50 PM
To: Seger, Sandra
Cc: Welch, Summer
Subject: FW: COC W06-006-153

Importance: High

FYI

-----Original Message-----
From: Stewart, Dorothy L [mailto:dot.stewart@pnl.gov]
Sent: Friday, June 16, 2006 1:48 PM
To: Adam, Sherryl
Cc: Seger, Sandra
Subject: RE: COC W06-006-153
Importance: High

Sheryl,

Please use the new sample number. We had to assign a new sample number in the field. Please do not use the old sample number. Thanks, Dot

---

From: Adam, Sherryl [mailto:SAdam@stl-inc.com]
Sent: Friday, June 16, 2006 9:00 AM
To: Stewart, Dorothy L
Cc: Seger, Sandra
Subject: COC W06-006-153

Dot,
We received the above referenced COC and the sample id (B1JLF8-new) was changed on it. The bottle still has the previous id (B1JBB7-old) on it. Can you please tell us which one is correct and/or how to proceed?
Thank you.

Sherryl A. Adam
Project Manager
Severn Trent Laboratories Richland
(509) 375 - 3131 ext. 164

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If you have received this communication in error, please notify the sender immediately.

PNNL J6F150343 W04943

due 7-31-06

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W06-006-65

Page 1 of 1

Collector: DURATEK	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: R. T. SICKLE W06-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, JUNE 2006	DTS-SAWS-H103B	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: RCRA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1JB84		W	6-15-06	0838	1x20-mL P	Activity Scan	None
B1JB84		W			1x500-mL G/P	UTOT_KPA: Uranium (1) H 7HLG	HNO3 to pH <2
B1JB84		W			1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
B1JB84		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1JB84		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK R. T. SICKLE			1450 JUN 15 2006		S. Welch	S. Welch	1450 JUN 15 2006
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 6·15·06 14:50

Client: PGW SDG #: _____ NA [ ] SAF #: W06-006 NA [ ]

Work Order Number: J6F 150343 Chain of Custody # W06-006-65

Shipping Container ID: SML-595 Air Bill # N/A

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

Sample Custodian: S. Welch Date: 6·15·06 14:50

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, 12/05, Rev. 6

7/17/2006 2:52:30 PM

Sample Preparation/Analysis

Balance Id:2113224201

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 07/28/2006 WO4943

Sep1 DT/Tm Tech:

Batch: 6171197 **WATER** **pCi/L** **PM, Quote: HC , 57671**

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 6171170 FPS5, 6171193 ARS6, 6171194 ASU3, 6171195 AZS7, 6171196 BCS8, 6171197 BNTB, 6171198
CLTL,

Prep Tech: NortonJ

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 H7EKP-1-AE J6F140356-1-SAMP		3920.40g,in	ITA5571 07/05/06	IFA	30.4	100	L2	1436	7/24/06	
06/14/2006 10:54	AmtRec: 20ML,500ML,5XLP,2X4LP		#Containers: 9			Scr:		Alpha: -9.52E-04 uCi/Sa		Beta: 1.09E-03 uCi/Sa
2 H7EKW-1-AD J6F140356-2-SAMP		3898.40g,in	ITA5572 07/05/06		36.8	100	L4	1437		
06/14/2006 12:17	AmtRec: 20ML,4XLP,2X4LP		#Containers: 7			Scr:		Alpha: 9.24E-04 uCi/Sa		Beta: -1.49E-03 uCi/Sa
3 H7ELJ-1-AE J6F140365-1-SAMP		3925.60g,in	ITA5573 07/05/06		36.1	100	L5	1437		
06/14/2006 11:26	AmtRec: 20ML,5XLP,2X4LP		#Containers: 8			Scr:		Alpha: 3.37E-04 uCi/Sa		Beta: 6.78E-04 uCi/Sa
4 H7ELJ-1-AG-X J6F140365-1-DUP		3923.50g,in	ITA5574 07/05/06		35.9	100	L2	1623	7/24/06 MA	
06/14/2006 11:26	AmtRec: 20ML,5XLP,2X4LP		#Containers: 8			Scr:		Alpha: 3.37E-04 uCi/Sa		Beta: 6.78E-04 uCi/Sa
5 H7ELK-1-AE J6F140365-2-SAMP		3942.10g,in	ITA5575 07/05/06		36.5	100	L4	1624		
06/14/2006 10:01	AmtRec: 20ML,2XLP,2X4LP		#Containers: 5			Scr:		Alpha: 9.07E-05 uCi/Sa		Beta: -1.01E-03 uCi/Sa
6 H7QK3-1-AA-B J6F200000-197-BLK		3930.20g,in	ITA5576 07/05/06		37.6	100	L5	1624		
06/14/2006 11:26	AmtRec:		#Containers: 1			Scr:		Alpha:		Beta:
7 H7QK3-1-AC-C J6F200000-197-LCS		3998.70g,in	ISD0669 06/16/06		38.6	100	L2	1808		
06/14/2006 11:26	AmtRec:		#Containers: 1			Scr:		Alpha:		Beta:

7/17/2006 2:52:32 PM

Sample Preparation/Analysis

Balance Id:2113224201

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

Pipet #: _____

AnalyDueDate: 07/28/2006

Sep1 DT/Tm Tech:

Batch: 6171197 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,NortonJ

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

Comments: Ph APPX 7

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

H7EKP1AE-SAMP Constituent List:

I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:

H7QK31AA-BLK:

I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:

H7QK31AC-LCS:

I-129	RDL:5	pCi/L	LCL:70	UCL:130	RPD:20

H7EKP1AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

H7QK31AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

H7QK31AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

7/26/2006 4:37:25 PM

ICOC Fraction Transfer/Status Report

ByDate: 7/26/2005, 7/31/2006, Batch: '6171197', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6171197						
AC		**InCnt1**	**NortonJ**	7/17/2006 2:08:05 PM		
SC			wagarr	IsBatched	6/20/2006 9:43:20 AM	ICOC_RADCALC v4.8.24
SC			NortonJ	InPrep	7/17/2006 2:08:05 PM	RICHRC5025 REV3
SC			NortonJ	InSep1	7/17/2006 2:51:41 PM	richrc5025 rev3
SC			NortonJ	Sep1C	7/24/2006 12:10:33 PM	RICHRC5025 REV3
SC			BlackCL	InCnt1	7/24/2006 12:48:45 PM	RICH-RD-0007 REVISION 5
SC			DAWKINSO	InCnt1	7/24/2006 9:31:29 PM	RICH-RD-0007 REVISION 5
AC			**NortonJ**	7/17/2006 2:51:41 PM		
AC			**NortonJ**	7/24/2006 12:10:33		
AC			**BlackCL**	7/24/2006 12:48:45		
AC			**DAWKINSO**	7/24/2006 9:31:29 PM		

AC: Accepting Entry; SC: Status Change

7/19/2006 4:23:36 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 07/28/2006 W04943

Sep1 DT/Tm Tech:

Batch: 6171202 **WATER** **pCi/L** **PM, Quote: HC , 57671**
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: RutherfordJ Scott

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 H7EK8-1-AC J6F140359-1-SAMP		1999.00g,in			100	100	64	1018	7/25/06	
06/14/2006 09:45		AmtRec: 20ML,2X500ML,LP,4LP	#Containers: 5				Scr:	Alpha: -1.43E-03 uCi/Sa		Beta: 1.30E-03 uCi/Sa
2 H7HLG-1-AC J6F150343-1-SAMP		1999.20g,in				100	65	1014		
06/15/2006 08:38		AmtRec: 20ML,2X500ML,LP,4LP	#Containers: 5				Scr:	Alpha: -1.10E-03 uCi/Sa		Beta: 4.55E-04 uCi/Sa
3 H7HLG-1-AG-X J6F150343-1-DUP		2002.30g,in				100	67	1014		
06/15/2006 08:38		AmtRec: 20ML,2X500ML,LP,4LP	#Containers: 5				Scr:	Alpha: -1.10E-03 uCi/Sa		Beta: 4.55E-04 uCi/Sa
4 H7QLF-1-AA-B J6F200000-202-BLK		2000.80g,in				100	610	1014		
06/15/2006 08:38		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:
5 H7QLF-1-AC-C J6F200000-202-LCS		2000.20g,in	qcag1239 07/17/06,pd 03/07/05,r		✓	100	612	1014		
06/15/2006 08:38		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:

Comments: H7EK8-SAMP ""
H7HLG-SAMP "" pH < 2.0 JHR 7/19/06

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

7/19/2006 4:23:38 PM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 07/28/2006

Sep1 DT/Tm Tech:

Batch: 6171202 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,RutherfordJ

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:

```
H7EK81AC-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:

H7QLF1AA-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:

H7QLF1AC-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

H7EK81AC-SAMP Calc Info:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
H7QLF1AA-BLK:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
H7QLF1AC-LCS:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

Approved By _____ Date: _____

7/26/2006 11:27:47 AM

ICOC Fraction Transfer/Status Report

ByDate: 7/26/2005, 7/31/2006, Batch: '6171202', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6171202						
AC		**CalcC**	**RutherfordJ**	7/18/2006 2:39:03 PM		
SC			wagarr	IsBatched	6/20/2006 9:43:20 AM	ICOC_RADCALC v4.8.24
SC			RutherfordJ	InPrep	7/18/2006 2:39:03 PM	RICH-RC-5017 REVISION 5
SC			RutherfordJ	InPrep	7/19/2006 3:56:54 PM	RICH-RC-5017 REVISION 5
SC			ScottM	Prep2C	7/24/2006 8:34:43 AM	RICH-RC-5017 REVISION 4
SC			BlackCL	InCnt1	7/24/2006 8:44:15 AM	RICH-RD-0007 REVISION 5
SC			BlackCL	CalcC	7/25/2006 10:42:33 AM	RICH-RD-0007 REVISION 5
AC			**RutherfordJ**	7/19/2006 3:56:54 PM		
AC			**ScottM**	7/24/2006 8:34:43		
AC			**BlackCL**	7/24/2006 8:44:15		
AC			**BlackCL**	7/25/2006 10:42:33		

AC: Accepting Entry; SC: Status Change

7/19/2006 1:04:46 PM

Sample Preparation/Analysis

Balance Id:2113224201,1120482733

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 #: 229

AnalyDueDate: 07/28/2006 W04943

Sep1 DT/Tm Tech: McDo

Batch: 6171195 WATER pCi/L PM, Quote: HC , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: RutherfordJ Scott

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 H7EKP-1-AC J6F140356-1-SAMP 06/14/2006 10:54		76.70g,in AmtRec: 20ML,500ML,5XLP,2X4LP #Containers: 9			1.5	160 50	NA	0910	7/26/06	Scr: Alpha: -9.52E-04 uCi/Sa Beta: 1.09E-03 uCi/Sa
2 H7EKW-1-AA J6F140356-2-SAMP 06/14/2006 12:17		99.90g,in AmtRec: 20ML,4XLP,2X4LP #Containers: 7				17.3	NB			Scr: Alpha: 9.24E-04 uCi/Sa Beta: -1.49E-03 uCi/Sa
3 H7EKW-1-AG-X J6F140356-2-DUP 06/14/2006 12:17		99.60g,in AmtRec: 20ML,4XLP,2X4LP #Containers: 7				18.0	NC			Scr: Alpha: 9.24E-04 uCi/Sa Beta: -1.49E-03 uCi/Sa
4 H7ELJ-1-AC J6F140365-1-SAMP 06/14/2006 11:26		120.90g,in AmtRec: 20ML,5XLP,2X4LP #Containers: 8				15.4	ND			Scr: Alpha: 3.37E-04 uCi/Sa Beta: 6.78E-04 uCi/Sa
5 H7ELK-1-AC J6F140365-2-SAMP 06/14/2006 10:01		109.90g,in AmtRec: 20ML,2XLP,2X4LP #Containers: 5				22.6	NE			Scr: Alpha: 9.07E-05 uCi/Sa Beta: -1.01E-03 uCi/Sa
6 H7HJD-1-AC J6F150336-2-SAMP 06/15/2006 12:07		102.00g,in AmtRec: 20ML,2X500ML,2XLP #Containers: 5				14.7	NA	NA		Scr: Alpha: -4.07E-04 uCi/Sa Beta: -5.60E-05 uCi/Sa
7 H7HJW-1-AC J6F150336-3-SAMP 06/15/2006 12:07		97.30g,in AmtRec: 20ML,2X500ML,2XLP #Containers: 5				11.7	NB			Scr: Alpha: 2.45E-04 uCi/Sa Beta: 5.13E-05 uCi/Sa

7/19/2006 1:04:47 PM

Sample Preparation/Analysis

Balance Id:2113224201,1120482733

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

Pipet #:

AnalyDueDate: 07/28/2006

Sep1 DT/Tm Tech:

Batch: 6171195 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: RutherfordJ

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 H7QKK-1-AA-B J6F200000-195-BLK 06/14/2006 12:17	AmtRec:	201.00g,in	#Containers: 1	1.5	01	50	10C	1014	7/26/06	
9 H7QKK-1-AC-C J6F200000-195-LCS 06/14/2006 12:17	AmtRec:	200.80g,in	ASD3921 07/18/06,pd 02/09/06,r #Containers: 1	↓	0.2	↓	10D			

Scr: Alpha: Beta:

Comments: H7EKP-SAMP "Comments: Reduced aliquots on sample H7EKP due to wt. screen activity. jhr 07/19/06"
H7EKW-SAMP "Comments: Reduced aliquots on sample H7EKW due to wt. screen activity. jhr 07/19/06"
H7ELJ-SAMP "Comments: Reduced aliquots on sample H7ELJ due to wt. screen activity. jhr 07/19/06"
H7ELK-SAMP "Comments: Reduced aliquots on sample H7ELK due to wt. screen activity. jhr 07/19/06"
H7HJD-SAMP "Comments: Reduced aliquots on sample H7HJD due to wt. screen activity. jhr 07/19/06"
H7HJW-SAMP "Comments: Reduced aliquots on sample H7HJW due to wt. screen activity. jhr 07/19/06"
H7QKK-BLK "Comments: " pH < 2.0 JHR 7/19/06

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

H7EKP1AC-SAMP Constituent List:

ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
H7QKK1AA-BLK:					
ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
H7QKK1AC-LCS:					
Am-241	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

H7EKP1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H7QKK1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H7QKK1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

7/19/2006 1:04:48 PM

Sample Preparation/Analysis

Balance Id:2113224201,1120482733

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

Pipet #: _____

AnalyDueDate: 07/28/2006

Sep1 DT/Tm Tech:

Batch: 6171195 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: RutherfordJ

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

Approved By _____ Date: _____

7/26/2006 11:21:22 AM

ICOC Fraction Transfer/Status Report

ByDate: 7/26/2005, 7/31/2006, Batch: '6171195', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6171195						
AC		CalcC	RutherfordJ	7/19/2006 11:18:33		
SC			wagarr	IsBatched	6/20/2006 9:43:20 AM	ICOC_RADCALC v4.8.24
SC			RutherfordJ	InPrep	7/19/2006 11:18:33 AM	RICH-RC-5014 REVISION 6
SC			RutherfordJ	Prep1C	7/19/2006 1:07:38 PM	RICH-RC-5014 REVISION 6
SC			ScottM	InPrep2	7/24/2006 11:17:08 AM	RICH-RC-5014 REVISION 6
SC			ScottM	Prep2C	7/26/2006 6:46:56 AM	RICH-RC-5014 REVISION 6
SC			BlackCL	InCnt1	7/26/2006 6:56:09 AM	RICH-RD-0003 REVISION 4
SC			BlackCL	CalcC	7/26/2006 10:24:57 AM	RICH-RD-0003 REVISION 4
AC			RutherfordJ	7/19/2006 1:07:38 PM		
AC			ScottM	7/24/2006 11:17:08		
AC			ScottM	7/26/2006 6:46:56		
AC			BlackCL	7/26/2006 6:56:09		
AC			BlackCL	7/26/2006 10:24:57		

AC: Accepting Entry; SC: Status Change

7/19/2006 1:04:49 PM

Sample Preparation/Analysis

Balance Id:2113224201,1120482733

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 #: 229

AnalyDueDate: 07/28/2006 W04943

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Batch: 6171196 WATER pCi/L PM, Quote: HC , 57671

SEQ Batch, Test: None

Prep Tech: RutherfordJ

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 H7EKP-1-AD J6F140356-1-SAMP 06/14/2006 10:54		155.30g,in AmtRec: 20ML,500ML,5XLP,2X4LP #Containers: 9			1.5	35.0	100 32A	1704	7/25/06 DR Scr: Alpha: -9.52E-04 uCi/Sa	Beta: 1.09E-03 uCi/Sa
2 H7EKW-1-AC J6F140356-2-SAMP 06/14/2006 12:17		200.30g,in AmtRec: 20ML,4XLP,2X4LP #Containers: 7				41.0	32B		Scr: Alpha: 9.24E-04 uCi/Sa	Beta: -1.49E-03 uCi/Sa
3 H7EK8-1-AA J6F140359-1-SAMP 06/14/2006 09:45		195.70g,in AmtRec: 20ML,2X500ML,LP,4LP #Containers: 5				41.7	32C		Scr: Alpha: -1.43E-03 uCi/Sa	Beta: 1.30E-03 uCi/Sa
4 H7ELA-1-AA J6F140362-1-SAMP 06/14/2006 13:31		91.20g,in AmtRec: 20ML,500ML,4XLP #Containers: 6				30.0 ~~[illegible]~~	no 7/25/06 32D		Scr: Alpha: 5.66E-04 uCi/Sa	Beta: -5.08E-04 uCi/Sa
5 H7ELJ-1-AD J6F140365-1-SAMP 06/14/2006 11:26		201.10g,in AmtRec: 20ML,5XLP,2X4LP #Containers: 8				20.7	26A	1904	Scr: Alpha: 3.37E-04 uCi/Sa	Beta: 6.78E-04 uCi/Sa
6 H7ELK-1-AD J6F140365-2-SAMP 06/14/2006 10:01		155.70g,in AmtRec: 20ML,2XLP,2X4LP #Containers: 5				36.2	26B		Scr: Alpha: 9.07E-05 uCi/Sa	Beta: -1.01E-03 uCi/Sa
7 H7ELK-1-AF-X J6F140365-2-DUP 06/14/2006 10:01		156.00g,in AmtRec: 20ML,2XLP,2X4LP #Containers: 5				27.4	26C		Scr: Alpha: 9.07E-05 uCi/Sa	Beta: -1.01E-03 uCi/Sa

7/19/2006 1:04:50 PM

Sample Preparation/Analysis

Balance Id:2113224201,1120482733

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: 07/28/2006

Sep1 DT/Tm Tech:

Batch: 6171196 WATER pCi/L PM, Quote: HC , 57671

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: RutherfordJ

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 H7EL1-1-AC J6F140367-1-SAMP 06/14/2006 11:50		200.60g,in AmtRec: 20ML,2X500MLP,LP #Containers: 4		1.5	49.3	100	27A Scr:	1909 Alpha: -2.79E-04 uCi/Sa	7/25/06000 Beta: -1.31E-04 uCi/Sa	
9 H7EL3-1-AC J6F140367-2-SAMP 06/14/2006 12:36		170.60g,in AmtRec: 20ML,500MLP,LP #Containers: 3			35.4		27C Scr:	Alpha: 1.66E-04 uCi/Sa	Beta: -2.04E-04 uCi/Sa	
10 H7EL4-1-AA J6F140367-3-SAMP 06/14/2006 11:01		193.20g,in AmtRec: 20ML,500MLP,LP #Containers: 3			37.2		27D Scr:	Alpha: 8.65E-05 uCi/Sa	Beta: -2.93E-04 uCi/Sa	
11 H7EL5-1-AA J6F140367-4-SAMP 06/14/2006 10:00		152.60g,in AmtRec: 20ML,500MLP,LP #Containers: 3			47.8		31A Scr:	1909 Alpha: -5.53E-05 uCi/Sa	Beta: 2.53E-05 uCi/Sa	
12 H7HJD-1-AD J6F150336-2-SAMP 06/15/2006 12:07		199.60g,in AmtRec: 20ML,2X500ML,2XLP #Containers: 5			31.1		31B Scr:	Alpha: -4.07E-04 uCi/Sa	Beta: -5.60E-05 uCi/Sa	
13 H7HJW-1-AD J6F150336-3-SAMP 06/15/2006 12:07		200.70g,in AmtRec: 20ML,2X500ML,2XLP #Containers: 5			26.6		31C Scr:	Alpha: 2.45E-04 uCi/Sa	Beta: 5.13E-05 uCi/Sa	
14 H7HLG-1-AA J6F150343-1-SAMP 06/15/2006 08:38		87.40g,in AmtRec: 20ML,2X500ML,LP,4LP #Containers: 5			35.3		31D Scr:	6 Alpha: -1.10E-03 uCi/Sa	Beta: 4.55E-04 uCi/Sa	

7/19/2006 1:04:50 PM

Sample Preparation/Analysis

Balance Id:2113224201,1120482733

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

Pipet #:

AnalyDueDate: 07/28/2006

Sep1 DT/Tm Tech:

Batch: 6171196 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,RutherfordJ

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, Int/Date	Comments:
15H7QKV-1-AA-B J6F200000-196-BLK 06/14/2006 10:01	AmtRec:	199.30g,in	#Containers: 1	1.5	0.4	100	32A	1909	7/25/06	Scr: Alpha: Beta:
16H7QKV-1-AC-C J6F200000-196-LCS 06/14/2006 10:01	AmtRec:	200.10g,in	BESB2866 07/06/06,pd 12/28/05,r #Containers: 1		0.4		32B			Scr: Alpha: Beta:

Comments:
H7EKP-SAMP "Comments: Reduced aliquots on sample H7EKP due to wt. screen activity. jhr 07/19/06"
H7EKW-SAMP "Comments: Reduced aliquots on sample H7EKW due to wt. screen activity. jhr 07/19/06"
H7ELJ-SAMP "Comments: Reduced aliquots on sample H7ELJ due to wt. screen activity. jhr 07/19/06"
H7ELK-SAMP "Comments: Reduced aliquots on sample H7ELK due to wt. screen activity. jhr 07/19/06"
H7HJD-SAMP "Comments: Reduced aliquots on sample H7HJD due to wt. screen activity. jhr 07/19/06"
H7HJW-SAMP "Comments: Reduced aliquots on sample H7HJW due to wt. screen activity. jhr 07/19/06"
H7QKK-BLK "Comments: "
H7EK8-SAMP "Comments: Reduced aliquots on sample H7EK8 due to wt. screen activity. jhr 07/19/06"
H7ELA-SAMP "Comments: Reduced aliquots on sample H7ELA due to wt. screen activity. jhr 07/19/06"
All Clients fc H7EL1-SAMP "Comments: "
384868, Pa H7EL3-SAMP "Comments: Reduced aliquots on sample H7EL3 due to wt. screen activity. jhr 07/19/06" 7671
H7EL4-SAMP "Comments: Reduced aliquots on sample H7EL4 due to wt. screen activity. jhr 07/19/06"
H7EL5-SAMP "Comments: Reduced aliquots on sample H7EL5 due to wt. screen activity. jhr 07/19/06"
H7HLG-SAMP "Comments: Reduced aliquots on sample H7HLG due to wt. screen activity. jhr 07/19/06"
pH < 2.0 JHR 7/19/06

H7EKP1AD-SAMP Constituent List:

BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
H7QKV1AA-BLK:					
BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
H7QKV1AC-LCS:					
Sr-90	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

7/26/2006 4:42:36 PM

ICOC Fraction Transfer/Status Report

ByDate: 7/26/2005, 7/31/2006, Batch: '6171196', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6171196						
AC		**CalcC**	**RutherfordJ**	7/19/2006 11:18:41		
SC			wagarr	IsBatched	6/20/2006 9:43:20 AM	ICOC_RADCALC v4.8.24
SC			RutherfordJ	InPrep	7/19/2006 11:18:41 AM	RICH-RC-5014 REVISION 6
SC			RutherfordJ	Prep1C	7/19/2006 1:07:45 PM	RICH-RC-5014 REVISION 6
SC			ScottM	InPrep2	7/24/2006 11:17:13 AM	RICH-RC-5014 REVISION 6
SC			BlackCL	InCnt1	7/25/2006 12:53:24 PM	RICH-RD-0003 REVISION 4
SC			DAWKINSO	CalcC	7/25/2006 9:46:59 PM	RICH-RD-0003 REVISION 4
AC			**RutherfordJ**	7/19/2006 1:07:45 PM		
AC			**ScottM**	7/24/2006 11:17:13		
AC			**BlackCL**	7/25/2006 12:53:24		
AC			**DAWKINSO**	7/25/2006 9:46:59 PM		

AC: Accepting Entry; SC: Status Change

7/25/2006 1:40:16 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 07/28/2006 W04943

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

Balance Id:1120482733

Pipet #:

Sep1 DT/Tm Tech: 24Jul06 2:30 PM

Sep2 DT/Tm Tech: 04Aug06 9:15 AM DRM

Prep Tech: RutherfordJ

Batch: 6205510 WATER pCi/L **PM, Quote: HC , 57671**
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 H7EKP-2-AF J6F140356-1-SAMP		1003.10g,in	SRTB13833 07/06/06,pd 06/21/06,r	1.849 / 2.0093 / 0.9202	1"	20.6	100	3"	1912	7/27/06 DP	
									3B 1006	8/5/06 R	
									3B 1007	8/6/06 R	
06/14/2006 10:54		AmtRec: 20ML,500ML,5...	YTA16015 Ex:3/28/2007				containers: 9	Scr:	Alpha: -9.52E-04 uCi/Sa	Beta: 1.09E-03 uCi/Sa	
2 H7ELJ-2-AF J6F140365-1-SAMP		1003.60g,in	SRTB13834 07/06/06,pd 06/21/06,r	1.851 / 2.0048 / 0.9233		20.8	100	3"	1957	7/27/06 DP	
									3C 1006	8/5/06 R	
									3C 1007	8/6/06 R	
06/14/2006 11:26		AmtRec: 20ML,5XLP,2...	YTA16016 Ex:3/28/2007				ntainers: 8	Scr:	Alpha: 3.37E-04 uCi/Sa	Beta: 6.78E-04 uCi/Sa	
3 H7ELJ-2-AH-X J6F140365-1-DUP		1003.90g,in	SRTB13835 07/06/06,pd 06/21/06,r	1.659 / 2.0307 / 0.8210		20.7	100	9"	2031	7/27/06 DP	
									3d 1006	8/5/06 R	
									3d 1007	8/6/06 R	
06/14/2006 11:26		AmtRec: 20ML,5XLP,2...	YTA16017 Ex:3/28/2007				ntainers: 8	Scr:	Alpha: 3.37E-04 uCi/Sa	Beta: 6.78E-04 uCi/Sa	
4 H9WP2-1-AA-B J6G240000-510-BLK		1001.40g,in	SRTB13836 07/06/06,pd 06/21/06,r	1.498 / 2.0003 / 0.8189		18.0	100	3"	2031	7/27/06 DP	
									4A 1006	8/5/06 R	
									4A 1007	8/6/06 R	
06/14/2006 10:54		AmtRec:	YTA16018 Ex:3/28/2007					Scr:	Alpha:	Beta:	

7/25/2006 1:40:17 PM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 07/28/2006

Sep1 DT/Tm Tech:

Batch: 6205510 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,RutherfordJ

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 H9WP2-1-AC-C J6G240000-510-LCS		1000.10g,in	SRSG1241 07/06/06,pd 06/21/06,r	1.421 2.0121 0.8553	1"	80.6	100	3"	2107	7/27/06	
									4B 1006	8/5/06	
									4B 1007	8/6/06	
				YTA16019 Ex:3/28/2007							
06/14/2006 10:54		AmtRec:						Scr:	Alpha:		Beta:

Comments: H7EKP-SAMP "Comments: "
H7ELJ-SAMP "Comments: "

pH<2.0 JHR 7/25/06

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

H7EKP2AF-SAMP Constituent List:

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

H9WP21AA-BLK:

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

H9WP21AC-LCS:

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

H7EKP2AF-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H9WP21AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H9WP21AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

8/7/2006 12:14:41 PM

ICOC Fraction Transfer/Status Report

ByDate: 8/7/2005, 8/12/2006, Batch: '6205510', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6205510						
AC		**CalcC**	**RutherfordJ**	7/25/2006 1:01:46 PM		
SC			andersonp	IsBatched	7/24/2006 2:46:17 PM	ICOC_RADCALC v4.8.24
SC			RutherfordJ	InPrep	7/25/2006 1:01:46 PM	RICH-RC-5016 REVISION 6
SC			ManisD	Sep1C	7/27/2006 3:12:04 PM	RICH-RC-5006 REV 6
SC			DAWKINSO	InCnt1	7/27/2006 4:12:11 PM	RICH-RD-0007 REVISION 5
SC			DAWKINSO	Cnt1C	7/27/2006 9:21:34 PM	RICH-RD-0007 REVISION 5
SC			DAWKINSO	InCnt2	8/4/2006 5:18:50 PM	RICH-RD-0003 REVISION 4
SC			StringerR	CalcC	8/6/2006 10:34:07 AM	RICH-RD-0003 REVISION 4
AC			**ManisD**	7/27/2006 3:12:04 PM		
AC			**DAWKINSO**	7/27/2006 4:12:11 PM		
AC			**DAWKINSO**	7/27/2006 9:21:34 PM		
AC			**DAWKINSO**	8/4/2006 5:18:50 PM		
AC			**StringerR**	8/6/2006 10:34:07		

AC: Accepting Entry; SC: Status Change

7/3/2006 2:41:55 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 07/28/2006 W04943

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

Batch: 6171170 **WATER** **pCi/L**
SEQ Batch, Test: None

PM, Quote: HC , 57671

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

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 H7EKP-1-AG J6F140356-1-SAMP 06/14/2006 10:54			124.10g,in	124.10g		60				
AmtRec: 20ML,500ML,5XLP,2X4LP #Containers: 9							Scr:	Alpha: -9.52E-04 uCi/Sa		Beta: 1.09E-03 uCi/Sa
2 H7EK8-1-AD J6F140359-1-SAMP 06/14/2006 09:45			125.00g,in	125.00g		60				
AmtRec: 20ML,2X500ML,LP,4LP #Containers: 5							Scr:	Alpha: -1.43E-03 uCi/Sa		Beta: 1.30E-03 uCi/Sa
3 H7EL1-1-AD J6F140367-1-SAMP 06/14/2006 11:50			125.10g,in	125.10g		60				
AmtRec: 20ML,2X500MLP,LP #Containers: 4							Scr:	Alpha: -2.79E-04 uCi/Sa		Beta: -1.31E-04 uCi/Sa
4 H7EL4-1-AC J6F140367-3-SAMP 06/14/2006 11:01			125.80g,in	125.80g		60				
AmtRec: 20ML,500MLP,LP #Containers: 3							Scr:	Alpha: 8.65E-05 uCi/Sa		Beta: -2.93E-04 uCi/Sa
5 H7EL5-1-AC J6F140367-4-SAMP 06/14/2006 10:00			125.20g,in	125.20g		60				
AmtRec: 20ML,500MLP,LP #Containers: 3							Scr:	Alpha: -5.53E-05 uCi/Sa		Beta: 2.53E-05 uCi/Sa
6 H7HH7-1-AA J6F150336-1-SAMP 06/15/2006 08:41			126.10g,in	126.10g		60				
AmtRec: 20ML,500ML #Containers: 2							Scr:	Alpha: 3.59E-05 uCi/Sa		Beta: 2.02E-05 uCi/Sa
7 H7HJD-1-AE J6F150336-2-SAMP 06/15/2006 12:07			125.50g,in	125.50g		60				
AmtRec: 20ML,2X500ML,2XLP #Containers: 5							Scr:	Alpha: -4.07E-04 uCi/Sa		Beta: -5.60E-05 uCi/Sa

7/3/2006 2:41:56 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 07/28/2006

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

Balance Id:

Pipet #: _____

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,RutherfordJ

Batch: 6171170 WATER pCi/L PM, Quote: HC , 57671
SEQ Batch, Test: None

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 H7HJW-1-AE J6F150336-3-SAMP			125.20g,in	125.20g		60				
06/15/2006 12:07			AmtRec: 20ML,2X500ML,2XLP	#Containers: 5			Scr:	Alpha: 2.45E-04 uCi/Sa		Beta: 5.13E-05 uCi/Sa
9 H7HJ2-1-AA J6F150336-4-SAMP			124.80g,in	124.80g		60				
06/15/2006 10:19			AmtRec: 20ML,500ML	#Containers: 2			Scr:	Alpha: 2.46E-04 uCi/Sa		Beta: -9.32E-06 uCi/Sa
10 H7HJ2-1-AC-X J6F150336-4-DUP			124.20g,in	124.20g		60				
06/15/2006 10:19			AmtRec: 20ML,500ML	#Containers: 2			Scr:	Alpha: 2.46E-04 uCi/Sa		Beta: -9.32E-06 uCi/Sa
11 H7HJ5-1-AA J6F150336-5-SAMP			125.40g,in	125.40g		60				
06/15/2006 11:00			AmtRec: 20ML,500ML	#Containers: 2			Scr:	Alpha: 1.90E-06 uCi/Sa		Beta: -2.11E-05 uCi/Sa
12 H7HJ5-1-AC-S J6F150336-5-MS			125.80g,in	125.80g	TCSG1639 06/01/06,pd 01/10/06,r	60				
06/15/2006 11:00			AmtRec: 20ML,500ML	#Containers: 2			Scr:	Alpha: 1.90E-06 uCi/Sa		Beta: -2.11E-05 uCi/Sa
13 H7HJ7-1-AA J6F150336-6-SAMP			125.90g,in	125.90g		60				
06/15/2006 12:01			AmtRec: 20ML,500ML	#Containers: 2			Scr:	Alpha: 2.62E-05 uCi/Sa		Beta: -1.52E-05 uCi/Sa
14 H7HJ9-1-AA J6F150336-7-SAMP			125.90g,in	125.90g		60				
06/15/2006 09:14			AmtRec: 20ML,500ML	#Containers: 2			Scr:	Alpha: -3.95E-08 uCi/Sa		Beta: -7.42E-07 uCi/Sa

7/3/2006 2:41:58 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 07/28/2006

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

Balance Id:

Pipet #: _____

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,RutherfordJ

Batch: 6171170 **WATER** **pCi/L** **PM, Quote: HC , 57671**
SEQ Batch, Test: None

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15H7HK0-1-AA J6F150336-9-SAMP 06/15/2006 10:14			125.20g,in	125.20g		60				
		AmtRec: 20ML,500ML		#Containers: 2			Scr:	Alpha: 4.57E-05 uCi/Sa		Beta: 4.46E-06 uCi/Sa
16H7HLG-1-AD J6F150343-1-SAMP 06/15/2006 08:38			124.60g,in	124.60g		60				
		AmtRec: 20ML,2X500ML,LP,4LP		#Containers: 5			Scr:	Alpha: -1.10E-03 uCi/Sa		Beta: 4.55E-04 uCi/Sa
17H7QGM-1-AA-B J6F200000-170-BLK 06/15/2006 10:19			125.70g,in	125.70g		60				
		AmtRec:		#Containers: 1			Scr:	Alpha:		Beta:
18H7QGM-1-AC-C J6F200000-170-LCS 06/15/2006 10:19			124.30g,in	124.30g	TCSG1640 06/01/06,pd 01/10/06,r	60				
		AmtRec:		#Containers: 1			Scr:	Alpha:		Beta:
19H7QGM-1-AD-BN J6F200000-170-IBLK 06/15/2006 10:19						60				
		AmtRec:		#Containers: 1			Scr:	Alpha:		Beta:
20H7QGM-1-AE-BN J6F200000-170-IBLK 06/15/2006 10:19						60				
		AmtRec:		#Containers: 1			Scr:	Alpha:		Beta:

7/3/2006 2:41:59 PM

Sample Preparation/Analysis

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

AnalyDueDate: 07/28/2006

Batch: 6171170 pCi/L
SEQ Batch, Test: None

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

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

Comments: pH < 2.0 JHR 7/3/06

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

H7EKP1AG-SAMP Constituent List:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
H7HJ51AC-MS:

H7QGM1AA-BLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
H7QGM1AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
H7QGM1AD-IBLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
H7QGM1AE-IBLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:

H7EKP1AG-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H7HJ51AC-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H7QGM1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H7QGM1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H7QGM1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H7QGM1AE-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

7/25/2006 7:59:02 AM

ICOC Fraction Transfer/Status Report

ByDate: 7/25/2005, 7/30/2006, Batch: '6171170', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6171170						
AC		CalcC	RutherfordJ	7/3/2006 2:26:45 PM		
SC			wagarr	IsBatched	6/20/2006 9:43:20 AM	ICOC_RADCALC v4.8.24
SC			RutherfordJ	InPrep	7/3/2006 2:26:45 PM	RICH-RC-5016 REVISION 6
SC			RutherfordJ	Prep1C	7/3/2006 2:53:37 PM	RICH-RC-5016 REVISION 6
SC			AndersonE	InPrep	7/20/2006 2:19:14 PM	RICH-RC-5065 Revision 5
SC			AndersonE	Sep1C	7/20/2006 3:18:18 PM	RICH-RC-5065 REV5
SC			DAWKINSO	InCnt1	7/20/2006 3:31:16 PM	RICH-RD-0001 REVISION 3
SC			BlackCL	CalcC	7/22/2006 6:55:31 AM	RICH-RD-0001 REVISION 3
AC			RutherfordJ	7/3/2006 2:53:37 PM		
AC			AndersonE	7/20/2006 2:19:14 PM		
AC			AndersonE	7/20/2006 3:18:18 PM		
AC			DAWKINSO	7/20/2006 3:31:16 PM		
AC			BlackCL	7/22/2006 6:55:31		

AC: Accepting Entry; SC: Status Change

7/3/2006 10:54:30 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 07/28/2006 W04943

Sep1 DT/Tm Tech:

Batch: 6171174 **WATER** **pCi/L** **PM, Quote: HC , 57671**

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,RutherfordJ

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 H7ELA-1-AC J6F140362-1-SAMP 06/14/2006 13:31		125.20g,in AmtRec: 20ML,500ML,4XLP	#Containers: 6	60		Scr:	Alpha: 5.66E-04 uCi/Sa	Beta: -5.08E-04 uCi/Sa
2 H7ELA-1-AE-S J6F140362-1-MS 06/14/2006 13:31		124.00g,in AmtRec: 20ML,500ML,4XLP	TCSG1633 06/01/06,pd 01/10/06,r #Containers: 6	60		Scr:	Alpha: 5.66E-04 uCi/Sa	Beta: -5.08E-04 uCi/Sa
3 H7ELA-1-AF-X J6F140362-1-DUP 06/14/2006 13:31		124.20g,in AmtRec: 20ML,500ML,4XLP	#Containers: 6	60		Scr:	Alpha: 5.66E-04 uCi/Sa	Beta: -5.08E-04 uCi/Sa
4 H7QGT-1-AA-B J6F200000-174-BLK 06/14/2006 13:31		125.40g,in AmtRec:	#Containers: 1	60		Scr:	Alpha:	Beta:
5 H7QGT-1-AC-C J6F200000-174-LCS 06/14/2006 13:31		125.00g,in AmtRec:	TCSE1969 06/02/06,pd 01/10/06,r #Containers: 1	60		Scr:	Alpha:	Beta:
6 H7QGT-1-AD-BN J6F200000-174-IBLK 06/14/2006 13:31		AmtRec:	#Containers: 1	60		Scr:	Alpha:	Beta:

7/3/2006 10:54:32 AM

Sample Preparation/Analysis

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

AnalyDueDate: 07/28/2006

Batch: 6171174 pCi/L
SEQ Batch, Test: None

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

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

Comments: pH <2.0 JHR 7/3/06

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

H7ELA1AC-SAMP Constituent List:
Tc-99 RDL:1.50E+01 pCi/L LCL:70 UCL:130 RPD:20
H7ELA1AE-MS Constituent List:

H7QGT1AA-BLK:
Tc-99 RDL:1.50E+01 pCi/L LCL: UCL: RPD:
H7QGT1AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
H7QGT1AD-IBLK:
Tc-99 RDL:1.50E+01 pCi/L LCL: UCL: RPD:

H7ELA1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H7ELA1AE-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H7QGT1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H7QGT1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H7QGT1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

7/18/2006 3:00:25 PM

ICOC Fraction Transfer/Status Report

ByDate: 7/18/2005, 7/23/2006, Batch: '6171174', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6171174						
AC		**CalcC**	**RutherfordJ**	7/3/2006 10:40:46		
SC			wagarr	IsBatched	6/20/2006 9:43:20 AM	ICOC_RADCALC v4.8.24
SC			RutherfordJ	InPrep	7/3/2006 10:40:46 AM	RICH-RC-5016 REVISION 6
SC			RutherfordJ	Prep1C	7/3/2006 11:02:13 AM	RICH-RC-5016 REVISION 6
SC			ManisD	InPrep	7/17/2006 5:06:33 PM	RICH-RC-5078 REV3
SC			DAWKINSO	InCnt1	7/17/2006 5:17:07 PM	RICH-RD-0001 REVISION 3
SC			BlackCL	CalcC	7/18/2006 10:51:39 AM	RICH-RD-0001 REVISION 3
AC			**RutherfordJ**	7/3/2006 11:02:13		
AC			**ManisD**	7/17/2006 5:06:33 PM		
AC			**DAWKINSO**	7/17/2006 5:17:07 PM		
AC			**BlackCL**	7/18/2006 10:51:39		

AC: Accepting Entry; SC: Status Change

6/20/2006 9:41:16 AM

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: 07/28/2006 W04943

Batch: 6171193 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: HC , 57671

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 7-11-06 DM
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 H7EKP-1-AA J6F140356-1-SAMP 06/14/2006 10:54	AmtRec: 20ML,500ML,5XLP,2X4LP	#Containers: 9				Scr:	Alpha:	Beta:
2 H7ELJ-1-AA J6F140365-1-SAMP 06/14/2006 11:26	AmtRec: 20ML,5XLP,2X4LP	#Containers: 8				Scr:	Alpha:	Beta:
3 H7ELK-1-AA J6F140365-2-SAMP 06/14/2006 10:01	AmtRec: 20ML,2XLP,2X4LP	#Containers: 5				Scr:	Alpha:	Beta:
4 H7HJD-1-AA J6F150336-2-SAMP 06/15/2006 12:07	AmtRec: 20ML,2X500ML,2XLP	#Containers: 5				Scr:	Alpha:	Beta:
5 H7HJW-1-AA J6F150336-3-SAMP 06/15/2006 12:07	AmtRec: 20ML,2X500ML,2XLP	#Containers: 5				Scr:	Alpha:	Beta:
6 H7HJW-1-AG-X J6F150336-3-DUP 06/15/2006 12:07	AmtRec: 20ML,2X500ML,2XLP	#Containers: 5				Scr:	Alpha:	Beta:
7 H7QJ2-1-AA-B J6F200000-193-BLK 06/15/2006 12:07	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

6/20/2006 9:41:17 AM

Sample Preparation/Analysis

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

AnalyDueDate: 07/28/2006

Batch: 6171193 pCi/L
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 7-11-06 am
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 H7QJ2-1-AC-C J6F200000-193-LCS 06/15/2006 12:07		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
9 H7QJ2-1-AD-BX J6F200000-193-MBLK 06/15/2006 12:07		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
10 H7QJ2-1-AE-CM J6F200000-193-MLCS 06/15/2006 12:07		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
11 H7QJ2-1-AF-BN J6F200000-193-IBLK 06/15/2006 12:07		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
12 H7QJ2-1-AG-BN J6F200000-193-IBLK 06/15/2006 12:07		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

H7EKP1AA-SAMP Constituent List:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20

6/20/2006 9:41:18 AM

Sample Preparation/Analysis

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

AnalyDueDate: 07/28/2006

Batch: 6171193 pCi/L
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 7-11-06 BW
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:

```
H7QJ21AA-BLK:
  H-3          RDL:400          pCi/L     LCL:        UCL:        RPD:
H7QJ21AC-LCS:
  H-3          RDL:400          pCi/L     LCL:70      UCL:130     RPD:20
H7QJ21AD-MBLK:
  H-3          RDL:400          pCi/L     LCL:        UCL:        RPD:
H7QJ21AE-MLCS:
  H-3          RDL:400          pCi/L     LCL:70      UCL:130     RPD:20
H7QJ21AF-IBLK:
  H-3          RDL:400          pCi/L     LCL:        UCL:        RPD:
H7QJ21AG-IBLK:
  H-3          RDL:400          pCi/L     LCL:        UCL:        RPD:
H7EKP1AA-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
H7QJ21AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
H7QJ21AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
H7QJ21AD-MBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
H7QJ21AE-MLCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
H7QJ21AF-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
H7QJ21AG-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

7/17/2006 3:37:04 PM

ICOC Fraction Transfer/Status Report

ByDate: 7/17/2005, 7/22/2006, Batch: '6171193', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6171193						
AC		**CalcC**	**McDowellD**	7/11/2006 1:28:24 PM		
SC			wagarr	IsBatched	6/20/2006 9:43:20 AM	ICOC_RADCALC v4.8.24
SC			McDowellD	InSep1	7/11/2006 1:28:24 PM	RICH-RC-5007 REVISION 6
SC			McDowellD	Sep1C	7/12/2006 1:11:28 PM	RICH-RC-5007 REVISION 6
SC			BlackCL	InCnt1	7/12/2006 1:16:09 PM	RICH-RD-0001 REVISION 3
SC			StringerR	CalcC	7/14/2006 10:11:50 AM	RICH-RD-0001 REVISION 3
AC			**McDowellD**	7/12/2006 1:11:28 PM		
AC			**BlackCL**	7/12/2006 1:16:09 PM		
AC			**StringerR**	7/14/2006 10:11:50		

AC: Accepting Entry; SC: Status Change

7/18/2006 10:18:26 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 #: 242

AnalyDueDate: 07/28/2006 W04943

Sep1 DT/Tm Tech:

Batch: 6171200 **WATER** **ug/L** **PM, Quote: HC , 57671**
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,RutherfordJ

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 H7EK8-1-AE J6F140359-1-SAMP 06/14/2006 09:45	Final Vol 10.0mL	25.40g,in AmtRec: 20ML,2X500ML,LP,4LP #Containers: 5				Scr:	Alpha: -1.43E-03 uCi/Sa	Beta: 1.30E-03 uCi/Sa
2 H7ELA-1-AD J6F140362-1-SAMP 06/14/2006 13:31		24.90g,in AmtRec: 20ML,500ML,4XLP #Containers: 6				Scr:	Alpha: 5.66E-04 uCi/Sa	Beta: -5.08E-04 uCi/Sa
3 H7HJD-1-AF J6F150336-2-SAMP 06/15/2006 12:07		25.80g,in AmtRec: 20ML,2X500ML,2XLP #Containers: 5				Scr:	Alpha: -4.07E-04 uCi/Sa	Beta: -5.60E-05 uCi/Sa
4 H7HJD-1-AG-X J6F150336-2-DUP 06/15/2006 12:07		25.90g,in AmtRec: 20ML,2X500ML,2XLP #Containers: 5				Scr:	Alpha: -4.07E-04 uCi/Sa	Beta: -5.60E-05 uCi/Sa
5 H7HJW-1-AF J6F150336-3-SAMP 06/15/2006 12:07		25.90g,in AmtRec: 20ML,2X500ML,2XLP #Containers: 5				Scr:	Alpha: 2.45E-04 uCi/Sa	Beta: 5.13E-05 uCi/Sa
6 H7HLG-1-AE J6F150343-1-SAMP 06/15/2006 08:38		24.30g,in AmtRec: 20ML,2X500ML,LP,4LP #Containers: 5				Scr:	Alpha: -1.10E-03 uCi/Sa	Beta: 4.55E-04 uCi/Sa
7 H7HLG-1-AF-S J6F150343-1-MS 06/15/2006 08:38		26.40g,in AmtRec: 20ML,2X500ML,LP,4LP #Containers: 5	UNSF3226 06/27/06,pd 03/22/05,r			Scr:	Alpha: -1.10E-03 uCi/Sa	Beta: 4.55E-04 uCi/Sa

7/18/2006 10:18:29 AM

Sample Preparation/Analysis

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

Balance Id:1120482733
Pipet #: 2213

AnalyDueDate: 07/28/2006

Sep1 DT/Tm Tech:

Batch: 6171200 ug/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,RutherfordJ Scott

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 H7QLA-1-AA-B J6F200000-200-BLK 06/15/2006 12:07	FU 10.0 ml	25.50g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
9 H7QLA-1-AC-C J6F200000-200-LCS 06/15/2006 12:07		25.50g,in AmtRec:	UNSC1230 06/26/06,pd 04/28/06,r #Containers: 1			Scr:	Alpha:	Beta:
10 H7QLA-1-AD-C J6F200000-200-LCS 06/15/2006 12:07		25.10g,in AmtRec:	UNSC1231 06/26/06,pd 04/28/06,r #Containers: 1			Scr:	Alpha:	Beta:

Comments: pH < 2.0 JHR 7/18/06

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

H7EK81AE-SAMP Constituent List:

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

H7HLG1AF-MS:

H7QLA1AA-BLK:

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

H7QLA1AC-LCS:

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

H7QLA1AD-LCS:

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

H7EK81AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

H7HLG1AF-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

7/18/2006 10:18:30 AM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 07/28/2006

Sep1 DT/Tm Tech:

Batch: 6171200 ug/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,RutherfordJ

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:

```
H7QLA1AA-BLK:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
H7QLA1AC-LCS:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
H7QLA1AD-LCS:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

Approved By _____ Date: _____

7/26/2006 11:14:02 AM

ICOC Fraction Transfer/Status Report

ByDate: 7/26/2005, 7/31/2006, Batch: '6171200', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6171200						
AC		**Cnt1C**	**RutherfordJ**	7/17/2006 11:15:48		
SC			wagarr	IsBatched	6/20/2006 9:43:20 AM	ICOC_RADCALC v4.8.24
SC			RutherfordJ	InPrep	7/17/2006 11:15:48 AM	RICH-RC-5015 REVISION 4
SC			RutherfordJ	Prep1C	7/18/2006 10:19:12 AM	RICH-RC-5015 REVISION 4
SC			ScottM	InPrep2	7/20/2006 6:40:02 AM	RICH-RC-5015 REVISION 4
SC			ScottM	Prep2C	7/21/2006 9:15:15 AM	RICH-RC-5015 REVISION 4
SC			BarbosaH	Cnt1C	7/25/2006 2:31:14 PM	RICH-RC-5058 REVISION 7
AC			**RutherfordJ**	7/18/2006 10:19:12		
AC			**ScottM**	7/20/2006 6:40:02		
AC			**ScottM**	7/21/2006 9:15:15		
AC			**BarbosaH**	7/25/2006 2:31:14 PM		

AC: Accepting Entry; SC: Status Change

6/20/2006 10:17:37 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 07/28/2006 WO-943

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
IZ COLIFORM BY METHOD 9223
5I CLIENT: HANFORD

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

Batch: 6171276 **WATER** **PM, Quote: HC , 57671**
SEQ Batch, Test: None All Tests: 88IZ, BCS8, FPS5, 6171170 FPS5, 6171196 BCS8, 6171276 88IZ,

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 H7EL1-1-AA J6F140367-1-SAMP 06/14/2006 11:50 BIJ9M9		AmtRec: 20ML,2X500MLP,LP	#Containers: 4			Scr:	Alpha:	Beta:
2 H7EL1-1-AE-X J6F140367-1-DUP 06/14/2006 11:50		AmtRec: 20ML,2X500MLP,LP	#Containers: 4			Scr:	Alpha:	Beta:
3 H7EL3-1-AA J6F140367-2-SAMP 06/14/2006 12:36 BIJ9P0		AmtRec: 20ML,500MLP,LP	#Containers: 3			Scr:	Alpha:	Beta:
4 H7QXQ-1-AA-B J6F200000-276-BLK 06/14/2006 11:50		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
5 H7QXQ-1-AC-C J6F200000-276-LCS 06/14/2006 11:50		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

H7EL11AA-SAMP Constituent List:

6/20/2006 10:17:38 AM

Sample Preparation/Analysis

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
IZ COLIFORM BY METHOD 9223
5I CLIENT: HANFORD

AnalyDueDate: 07/28/2006

Batch: 6171276
SEQ Batch, Test: None

Balance Id:

Pipet #: _____

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

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

H7QXQ1AA-BLK:

H7QXQ1AC-LCS:

H7EL11AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H7QXQ1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H7QXQ1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____