W05090

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TOTAL # PAGES IN DOCUMENT 156

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D.L. STEWART

157 pages

Analytical Data Package Prepared For

Pacific Northwest National Lab

Radiochemical Analysis By

STL Richland STLRL

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

Data Package Contains _____ Pages

Report Nbr: 34551

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05090	W07-001	B1LR82	J7A090153-1	JMJ9X1AA	9JMJ9X10	7016430
		B1LR83	J7A090153-2	JMJ951AA	9JMJ9510	7016430
		B1LR88	J7A090153-3	JMKAG1AA	9JMKAG10	7016430
		B1LR91	J7A090153-4	JMKAW1AA	9JMKAW10	7016430
		B1LR95	J7A090153-5	JMKA41AA	9JMKA410	7016430
		B1LR96	J7A090153-6	JMKA71AA	9JMKA710	7016430
		B1LRB1	J7A090153-7	JMKA91AA	9JMKA910	7016430
		B1LRJ6	J7A090191-1	JMKMG1AA	9JMKMG10	7016420
		B1LRJ6	J7A090191-1	JMKMG1AC	9JMKMG10	7016421
		B1LRJ6	J7A090191-1	JMKMG1AD	9JMKMG10	7016423
		B1LRJ6	J7A090191-1	JMKMG1AE	9JMKMG10	7016429
		B1LRJ7	J7A090191-2	JMKML1AA	9JMKML10	7016420
		B1LRJ7	J7A090191-2	JMKML1AC	9JMKML10	7016421
		B1LRJ7	J7A090191-2	JMKML1AD	9JMKML10	7016423
		B1LRJ7	J7A090191-2	JMKML1AE	9JMKML10	7016429

Comments:

Report Nbr: 34551

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05090	G07-012	B1LK21	J7A100160-1	JML5D1AA	9JML5D10	7016419
		B1LK21	J7A100160-1	JML5D1AC	9JML5D10	7016420
		B1LK21	J7A100160-1	JML5D1AD	9JML5D10	7016421
		B1LK21	J7A100160-1	JML5D1AE	9JML5D10	7016424
		B1LK21	J7A100160-1	JML5D1AF	9JML5D10	7016422
		B1LK22	J7A100160-2	JML5G1AA	9JML5G10	7016419
		B1LK22	J7A100160-2	JML5G1AC	9JML5G10	7016420
		B1LK22	J7A100160-2	JML5G1AD	9JML5G10	7016421
		B1LK22	J7A100160-2	JML5G1AE	9JML5G10	7016424
		B1LK22	J7A100160-2	JML5G1AF	9JML5G10	7016422
	S07-001	B1LNK6	J7A100166-1	JML6A1AA	9JML6A10	7016422
		B1LNK7	J7A100166-2	JML6N1AA	9JML6N10	7016422
	W07-012	B1LH77	J7A100315-1	JMND21AA	9JMND210	7016419
		B1LH77	J7A100315-1	JMND21AC	9JMND210	7016425
		B1LH77	J7A100315-1	JMND21AD	9JMND210	7016424
		B1LHK9	J7A100315-2	JMND51AA	9JMND510	7016419
		B1LHK9	J7A100315-2	JMND51AC	9JMND510	7016425
		B1LHK9	J7A100315-2	JMND51AD	9JMND510	7016420
		B1LHK9	J7A100315-2	JMND51AE	9JMND510	7016421
		B1LHK9	J7A100315-2	JMND51AF	9JMND510	7016424
		B1LHK9	J7A100315-2	JMND51AG	9JMND510	7016422
		B1LHK9	J7A100315-2	JMND51AH	9JMND510	7016429
		B1LHL0	J7A100315-3	JMND71AA	9JMND710	7016419
		B1LHL0	J7A100315-3	JMND71AC	9JMND710	7016425
		B1LHL0	J7A100315-3	JMND71AD	9JMND710	7016420
		B1LHL0	J7A100315-3	JMND71AE	9JMND710	7016421

Comments:

Report Nbr: 34551

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05090	W07-012	B1LHL0	J7A100315-3	JMND71AF	9JMND710	7016424
		B1LHL0	J7A100315-3	JMND71AG	9JMND710	7016422
		B1LHL0	J7A100315-3	JMND71AH	9JMND710	7016429
	S07-012	B1LC65	J7A110138-1	JMN051AA	9JMN0510	7016423
		B1LC65	J7A110138-1	JMN051AC	9JMN0510	7016422
		B1LC65	J7A110138-1	JMN051AD	9JMN0510	7016429
		B1LBY7	J7A110201-1	JMPJX1AA	9JMPJX10	7016419
		B1LBY7	J7A110201-1	JMPJX1AC	9JMPJX10	7016423
		B1LC03	J7A110201-2	JMPJ61AA	9JMPJ610	7016419
		B1LC03	J7A110201-2	JMPJ61AC	9JMPJ610	7016423
	I07-009	B1L1Y5	J7A110223-1	JMPL61AA	9JMPL610	7016426
		B1L1Y5	J7A110223-1	JMPL61AC	9JMPL610	7016427
		B1L1Y5	J7A110223-1	JMPL61AD	9JMPL610	7016424
		B1L1Y5	J7A110223-1	JMPL61AE	9JMPL610	7016423
		B1L1Y5	J7A110223-1	JMPL61AF	9JMPL610	7016422
		B1L1Y5	J7A110223-1	JMPL61AG	9JMPL610	7016429

Comments:

SEVERN TRENT STL

STL Richland
2800 George Washington Way
Richland, WA 99354

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

Certificate of Analysis

Pacific Northwest National Laboratories
Sigma V Building
Richland, WA 99352

February 26, 2007

Attention: Dot Stewart

SAF Number	:	W07-001, G07-012, I07-012, S07-001, W07-012, I07-009,S07-012
Date SDG Closed	:	January 10, 2007
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05090
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between January 5, 2007 and January 10, 2007, twenty water samples were received at STL Richland (STLR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Pacific Northwest National Laboratories (PGW) specific IDs:

PGW ID#	STLR ID#	MATRIX	DATE OF RECEIPT
B1LR82	JMJ9X	WATER	1/5/07
B1LR83	JMJ95	WATER	1/5/07
B1LR88	JMKAG	WATER	1/5/07
B1LR91	JMKAW	WATER	1/5/07
B1LR95	JMKA4	WATER	1/5/07
B1LR96	JMKA7	WATER	1/5/07
B1LRB1	JMKA9	WATER	1/5/07
B1LRJ6	JMKMG	WATER	1/5/07
B1LRJ7	JMKML	WATER	1/5/07
B1LK21	JML5D	WATER	1/8/07
B1LK22	JML5G	WATER	1/8/07
B1LNK6	JML6A	WATER	1/8/07
B1LNK7	JML6N	WATER	1/8/07

B1LH77	JMND2	WATER	1/10/07
B1LHK9	JMND5	WATER	1/10/07
B1LHL0	JMND7	WATER	1/10/07
B1LC65	JMN05	WATER	1/10/07
B1LBY7	JMPJX	WATER	1/10/07
B1LC03	JMPJ6	WATER	1/10/07
B1L1Y5	JMPL6	WATER	1/10/07

II. Sample Receipt

The samples were received in good condition and no anomalies were noted during check-in.

III. Analytical Results/Methodology

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

The requested analyses were:

Alpha Spectroscopy
Neptunium-237 by method RICH-RC-5009
Gas Proportional Counting
Gross Alpha by method RICH-RC-5014
Gross Beta by method RICH-RC-5014
Strontium-90 by method RICH-RC-5006
Gamma Spectroscopy
Gamma Spec (LL) by method RICH-RC-5017
Iodine-129 (LL) by method RICH-RC-5025
Liquid Scintillation Counting
Technetium-99 by TEVA method RICH-RC-5065
Tritium by method RICH-RC-5007
Carbon-14 by method RICH-RC-5022
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

Alpha Spectroscopy

Neptunium-237 by method RICH-RC-5009:
The LCS, batch blank, samples and sample duplicate (B1L1Y5) results are within contractual requirements.

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:
Samples B1LK21 and B1LK22 were analyzed with reduced volumes based on an elevated screen results. Except as noted, the LCS, batch blank, samples and sample duplicate (B1LHK9) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:
Samples were analyzed with reduced volumes based on an elevated screen results. The results >MDA>CRDL. Except as noted, the LCS, batch blank, samples and sample duplicate (B1LHL0) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006
Samples were analyzed with a reduced volume based on elevated screen results. The results are greater than the MDA which is greater than the CRDL. Except as noted, the LCS, batch blank, samples and sample duplicate (B1LNK6) results are within contractual requirements.

Gamma Spectroscopy

Gamma Spec (LL) by method RICH-RC-5017:
Samples B1LK22, B1LK21 and B1LK21 DUP do not meet CRDL. Samples were analyzed with reduced volumes based on an elevated screen results. Nothing shows up in the gamma. Except as noted, the LCS, batch blank, samples and sample duplicate (B1LK21) results are within contractual requirements.

Iodine-129 (LL) by method RICH-RC-5025:
The LCS, batch blank, samples and sample duplicate (B1LRJ6) results are within contractual requirements.

Liquid Scintillation Counting

Technetium-99 by TEVA method RICH-RC-5065:
The LCS, batch blank, samples, sample duplicate (B1LRJ6), and sample matrix spike (B1LRJ7) results are within contractual requirements.

Tritium by method RICH-RC-5007:
The LCS, batch blank, samples and sample duplicate (B1LBY7) results are within contractual requirements.

Carbon-14 by method RICH-RC-5022:
The LCS, batch blank, samples and sample duplicate (B1L1Y5) results are within contractual requirements.

Total Uranium
Total Uranium by method RICH-RC-5058:
The LCS, batch blank, samples, sample duplicate (B1LR82), and sample matrix spike (B1LR83) results are within contractual requirements.

Chemical Analysis
Total Coliform by method 9223
The LCS, batch blank, samples and sample duplicate (B1LHL0) results are within contractual requirements.

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

Reviewed and approved:

Sherryl A. Adam
Project Manager

STL RICHLAND ISSUE RESOLUTION FORM
FOR CONTRACT 615 WITH BHI/FH/PNNL

PNNL Tracking Number 07-017
SAF No.: W07-012
Date: January 23, 2007
SDG: W05090
Sample No.(s) B1LH77, B1LHK9, BILHL0

Submitted By: Sherryl Adam

Phone No. 509-375-3131 x164
Fax No. 509-375-5590

Submitted To: **Dot Stewart (PNNL)**

Phone No. **509-376-5056**
Fax No. 509-372-1704

ISSUE	PROPOSED RESOLUTION
All three (3) coliform samples came in at 15 degrees C.	The samples were ran anyway and the results will be reported.

BHI/FH/PNNL COMMENTS -
Accept proposed resolution.

Heidi Hampt for Dot Stewart 1/24/07
Signature and date

Adam, Sherryl

From: Hampt, Heidi [heidi.hampt@pnl.gov]
Sent: Wednesday, January 24, 2007 9:32 AM
To: Adam, Sherryl; Stewart, Dorothy L
Cc: Felmy, Diana
Subject: RE: IRFs
Attachments: 07-017.DOC; 07-016.DOC

Sherryl,

Here are the responses.

Heidi

From: Adam, Sherryl [mailto:SAdam@stl-inc.com]
Sent: Tuesday, January 23, 2007 3:44 PM
To: Stewart, Dorothy L
Cc: Hampt, Heidi; Felmy, Diana
Subject: IRFs

Dot,
Attached are a couple of IRFs for you to look at. Thank you.

<<IRFW05090.DOC>> <<IRFW07-012.DOC>>

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

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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.

2/26/2007 8:52:33 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34551 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.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:
9JMJ9510	B1LR83		MW6-SBB-A1	W07-001	W05090					01/05/2007 12:52

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7016430	Uranium	7440-61-1	5.49E-02	ug/L	6.0E-03	6.0E-03	U	7.97E-02		UTOT_KPA	2.63E-02	ML	02/19/2007 13:36	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:
9JMJ9X10	B1LR82		MW6-SBB-A1	W07-001	W05090					01/05/2007 12:52

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7016430	Uranium	7440-61-1	1.32E-02	ug/L	1.7E-03	1.7E-03	U	8.19E-02		UTOT_KPA	2.56E-02	ML	02/19/2007 13:30	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JMKA410	B1LR95		MW6-SBB-A1	W07-001	W05090					01/05/2007 08:58

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7016430	Uranium	7440-61-1	6.26E+01	ug/L	7.4E+00	7.4E+00		8.19E-02		UTOT_KPA	2.56E-02	ML	02/19/2007 13:44	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:
9JMKA710	B1LR96		MW6-SBB-A1	W07-001	W05090					01/05/2007 07:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7016430	Uranium	7440-61-1	0.00E+00	ug/L	0.0E+00	0.0E+00	U	2.10E-01		UTOT_KPA	2.54E-02	ML	02/19/2007 13:48	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JMKA910	B1LRB1		MW6-SBB-A1	W07-001	W05090					01/05/2007 10:18

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7016430	Uranium	7440-61-1	1.16E-02	ug/L	1.3E-03	1.3E-03	U	8.09E-02		UTOT_KPA	2.59E-02	ML	02/19/2007 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:
9JMKAG10	B1LR88		MW6-SBB-A1	W07-001	W05090					01/05/2007 11:04

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7016430	Uranium	7440-61-1	7.57E+01	ug/L	9.0E+00	9.0E+00		7.85E-02		UTOT_KPA	2.67E-02	ML	02/19/2007 13:40	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:
9JMKAW10	B1LR91		MW6-SBB-A1	W07-001	W05090					01/05/2007 11:36

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7016430	Uranium	7440-61-1	8.57E+00	ug/L	8.8E-01	8.8E-01		7.65E-02		UTOT_KPA	2.74E-02	ML	02/19/2007 13:42	I

STL Richland

rptFeadRadSummaryEdd v3.48

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

2/26/2007 8:52:34 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34551 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.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:
9JMKMG10	B1LRJ6		MW6-SBB-A1	W07-001	W05090					01/05/2007 10:24

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7016420	ALPHA	12587-46-1	3.16E+00	pCi/L	1.8E+00	1.9E+00		2.15E+00	100.0	9310_ALPHABETA	1.632E-01	L	02/08/2007 18:16	I
7016421	BETA	12587-47-2	1.11E+01	pCi/L	2.0E+00	2.4E+00		2.75E+00	100.0	9310_ALPHABETA	2.007E-01	L	02/08/2007 12:41	I
7016423	EU-152	14683-23-9	-5.34E-02	pCi/L	7.7E-02	7.7E-02	U	1.28E-01		I129LL_SEP_LEPS	3.9265E+00	L	02/15/2007 12:18	I
7016423	I-129L	15046-84-1	7.03E-02	pCi/L	1.5E-01	1.5E-01	U	2.93E-01	97.3	I129LL_SEP_LEPS	3.9265E+00	L	02/15/2007 12:18	I
7016429	TC-99	14133-76-7	4.76E+00	pCi/L	4.3E+00	6.2E+00	U	9.86E+00	100.0	TC99_ETVDSK_LS	1.267E-01	L	01/23/2007 23:21	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JMKML10	B1LRJ7		MW6-SBB-A1	W07-001	W05090					01/05/2007 07:55

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7016420	ALPHA	12587-46-1	2.10E-01	pCi/L	4.3E-01	4.3E-01	U	9.76E-01	100.0	9310_ALPHABETA	2.009E-01	L	02/08/2007 18:16	I
7016421	BETA	12587-47-2	1.90E+00	pCi/L	1.3E+00	1.3E+00	U	2.54E+00	100.0	9310_ALPHABETA	2.011E-01	L	02/08/2007 12:41	I
7016423	EU-152	14683-23-9	-2.76E-02	pCi/L	4.8E-02	4.8E-02	U	8.03E-02		I129LL_SEP_LEPS	3.9488E+00	L	02/15/2007 12:17	I
7016423	I-129L	15046-84-1	-3.84E-02	pCi/L	1.2E-01	1.2E-01	U	2.12E-01	96.2	I129LL_SEP_LEPS	3.9488E+00	L	02/15/2007 12:17	I
7016429	TC-99	14133-76-7	3.86E-01	pCi/L	4.2E+00	6.0E+00	U	9.98E+00	100.0	TC99_ETVDSK_LS	1.25E-01	L	01/24/2007 01:26	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JML5D10	B1LK21		MW6-SBB-A1	G07-012	W05090					01/08/2007 10:41

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7016419	H-3	10028-17-8	2.02E+04	pCi/L	4.7E+02	9.1E+02		2.95E+02	100.0	906.0_H3_LSC	5.00E-03	L	01/25/2007 06:48	I
7016420	ALPHA	12587-46-1	4.58E-01	pCi/L	1.5E+00	1.5E+00	U	3.27E+00	100.0	9310_ALPHABETA	3.16E-02	L	02/08/2007 13:37	I
7016421	BETA	12587-47-2	1.64E+04	pCi/L	1.5E+02	2.1E+03		2.57E+01	100.0	9310_ALPHABETA	1.54E-02	L	02/08/2007 13:31	I
7016424	BE-7	13966-02-4	-7.85E+01	pCi/L	4.4E+02	4.4E+02	U	8.09E+02		GAMMALL_GS	9.71E-02	L	02/08/2007 05:11	I
7016424	CO-60	10198-40-0	4.79E+00	pCi/L	4.7E+01	4.7E+01	U	9.53E+01		GAMMALL_GS	9.71E-02	L	02/08/2007 05:11	I
7016424	CS-134	13967-70-9	3.66E+01	pCi/L	5.2E+01	5.2E+01	U	1.06E+02		GAMMALL_GS	9.71E-02	L	02/08/2007 05:11	I
7016424	CS-137	10045-97-3	2.70E+01	pCi/L	5.2E+01	5.2E+01	U	1.02E+02		GAMMALL_GS	9.71E-02	L	02/08/2007 05:11	I
7016424	EU-152	14683-23-9	8.44E+01	pCi/L	1.3E+02	1.3E+02	U	2.42E+02		GAMMALL_GS	9.71E-02	L	02/08/2007 05:11	I
7016424	EU-154	15585-10-1	-1.80E+01	pCi/L	1.4E+02	1.4E+02	U	2.70E+02		GAMMALL_GS	9.71E-02	L	02/08/2007 05:11	I
7016424	EU-155	14391-16-3	6.97E+01	pCi/L	1.1E+02	1.1E+02	U	2.05E+02		GAMMALL_GS	9.71E-02	L	02/08/2007 05:11	I
7016424	K-40	13966-00-2	-3.11E+02	pCi/L	1.1E+03	1.1E+03	U	2.52E+03		GAMMALL_GS	9.71E-02	L	02/08/2007 05:11	I
7016424	RU-106	13967-48-1	1.26E+02	pCi/L	4.1E+02	4.1E+02	U	8.05E+02		GAMMALL_GS	9.71E-02	L	02/08/2007 05:11	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.

2/26/2007 8:52:34 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34551 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

7016424	SB-125	14234-35-6	5.38E+01	pCi/L	1.2E+02	1.2E+02	U	2.21E+02		GAMMALL_GS	9.71E-02	L	02/08/2007	05:11	I
7016422	SR-90	10098-97-2	9.45E+03	pCi/L	5.9E+01	1.3E+03		4.83E+00	65.0	SRISO_SEP_PRE	1.659E-01	L	02/09/2007	07:24	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:
9JML5G10	B1LK22		MW6-SBB-A1	G07-012	W05090					01/08/2007 10:41

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7016419	H-3	10028-17-8	2.00E+04	pCi/L	4.7E+02	9.1E+02		2.97E+02	100.0	906.0_H3_LSC	5.00E-03	L	01/25/2007 08:10	I
7016420	ALPHA	12587-46-1	1.58E+00	pCi/L	1.7E+00	1.8E+00	U	3.13E+00	100.0	9310_ALPHABETA	3.03E-02	L	02/08/2007 13:37	I
7016421	BETA	12587-47-2	1.52E+04	pCi/L	1.4E+02	2.0E+03		2.28E+01	100.0	9310_ALPHABETA	1.61E-02	L	02/08/2007 13:31	I
7016424	BE-7	13966-02-4	2.23E+02	pCi/L	4.2E+02	4.2E+02	U	8.35E+02		GAMMALL_GS	9.86E-02	L	02/08/2007 05:12	I
7016424	CO-60	10198-40-0	-1.57E+01	pCi/L	4.0E+01	4.0E+01	U	7.37E+01		GAMMALL_GS	9.86E-02	L	02/08/2007 05:12	I
7016424	CS-134	13967-70-9	1.62E+01	pCi/L	5.6E+01	5.6E+01	U	1.07E+02		GAMMALL_GS	9.86E-02	L	02/08/2007 05:12	I
7016424	CS-137	10045-97-3	7.52E+00	pCi/L	3.8E+01	3.8E+01	U	7.46E+01		GAMMALL_GS	9.86E-02	L	02/08/2007 05:12	I
7016424	EU-152	14683-23-9	5.99E+00	pCi/L	1.2E+02	1.2E+02	U	2.07E+02		GAMMALL_GS	9.86E-02	L	02/08/2007 05:12	I
7016424	EU-154	15585-10-1	-4.59E+01	pCi/L	1.4E+02	1.4E+02	U	2.54E+02		GAMMALL_GS	9.86E-02	L	02/08/2007 05:12	I
7016424	EU-155	14391-16-3	-2.52E+01	pCi/L	8.1E+01	8.1E+01	U	1.40E+02		GAMMALL_GS	9.86E-02	L	02/08/2007 05:12	I
7016424	K-40	13966-00-2	8.24E+02	pCi/L	1.1E+03	1.1E+03	U	1.05E+03		GAMMALL_GS	9.86E-02	L	02/08/2007 05:12	I
7016424	RU-106	13967-48-1	1.24E+02	pCi/L	4.1E+02	4.1E+02	U	7.88E+02		GAMMALL_GS	9.86E-02	L	02/08/2007 05:12	I
7016424	SB-125	14234-35-6	1.37E+01	pCi/L	1.0E+02	1.0E+02	U	1.92E+02		GAMMALL_GS	9.86E-02	L	02/08/2007 05:12	I
7016422	SR-90	10098-97-2	8.34E+03	pCi/L	5.0E+01	1.2E+03		3.86E+00	77.1	SRISO_SEP_PRE	1.726E-01	L	02/09/2007 07:24	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:
9JML6A10	B1LNK6		MW6-SBB-A1	S07-001	W05090					01/09/2007 13:13

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7016422	SR-90	10098-97-2	1.04E-01	pCi/L	2.4E-01	2.4E-01	U	5.16E-01	80.2	SRISO_SEP_PRE	9.97E-01	L	02/09/2007 05:57	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:
9JML6N10	B1LNK7		MW6-SBB-A1	S07-001	W05090					01/09/2007 07:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7016422	SR-90	10098-97-2	2.05E-01	pCi/L	2.6E-01	3.0E-01	U	6.05E-01	72.4	SRISO_SEP_PRE	1.0062E+00	L	02/09/2007 05:57	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:
9JMN0510	B1LC65		MW6-SBB-A1	S07-012	W05090					01/10/2007 11:53

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.

2/26/2007 8:52:34 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34551 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7016423	EU-152	14683-23-9	-1.26E-02	pCi/L	7.4E-02	7.4E-02	U	1.29E-01		I129LL_SEP_LEPS	3.9236E+00	L	02/15/2007 14:11	I
7016423	I-129L	15046-84-1	1.48E+00	pCi/L	3.4E-01	3.4E-01	U	6.08E-01	93.8	I129LL_SEP_LEPS	3.9236E+00	L	02/15/2007 14:11	I
7016422	SR-90	10098-97-2	1.49E-01	pCi/L	1.9E-01	2.0E-01	U	4.16E-01	83.3	SRISO_SEP_PRE	1.0044E+00	L	02/09/2007 05:53	I
7016429	TC-99	14133-76-7	6.74E+01	pCi/L	6.1E+00	9.9E+00		9.99E+00	100.0	TC99_ETVDSK_LS	1.256E-01	L	01/24/2007 05:36	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:
9JMND210	B1LH77		MW6-SBB-A1	W07-012	W05090					01/10/2007 11:53

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7016419	H-3	10028-17-8	7.26E+03	pCi/L	3.0E+02	4.3E+02		2.97E+02	100.0	906.0_H3_LSC	5.00E-03	L	01/25/2007 09:32	I
7016424	BE-7	13966-02-4	3.21E+00	pCi/L	2.3E+01	2.3E+01	U	4.25E+01		GAMMALL_GS	2.0007E+00	L	02/08/2007 05:12	I
7016424	CO-60	10198-40-0	-1.87E+00	pCi/L	2.6E+00	2.6E+00	U	4.18E+00		GAMMALL_GS	2.0007E+00	L	02/08/2007 05:12	I
7016424	CS-134	13967-70-9	-1.03E-02	pCi/L	2.3E+00	2.3E+00	U	4.37E+00		GAMMALL_GS	2.0007E+00	L	02/08/2007 05:12	I
7016424	CS-137	10045-97-3	-1.27E+00	pCi/L	2.4E+00	2.4E+00	U	4.10E+00		GAMMALL_GS	2.0007E+00	L	02/08/2007 05:12	I
7016424	EU-152	14683-23-9	-5.89E+00	pCi/L	5.3E+00	5.3E+00	U	7.98E+00		GAMMALL_GS	2.0007E+00	L	02/08/2007 05:12	I
7016424	EU-154	15585-10-1	7.18E-02	pCi/L	6.4E+00	6.4E+00	U	1.28E+01		GAMMALL_GS	2.0007E+00	L	02/08/2007 05:12	I
7016424	EU-155	14391-16-3	9.25E-01	pCi/L	3.9E+00	3.9E+00	U	7.09E+00		GAMMALL_GS	2.0007E+00	L	02/08/2007 05:12	I
7016424	K-40	13966-00-2	-3.59E+01	pCi/L	3.9E+01	3.9E+01	U	8.48E+01		GAMMALL_GS	2.0007E+00	L	02/08/2007 05:12	I
7016424	RU-106	13967-48-1	-1.12E+01	pCi/L	1.8E+01	1.8E+01	U	3.10E+01		GAMMALL_GS	2.0007E+00	L	02/08/2007 05:12	I
7016424	SB-125	14234-35-6	3.77E-01	pCi/L	4.9E+00	4.9E+00	U	9.15E+00		GAMMALL_GS	2.0007E+00	L	02/08/2007 05:12	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:
9JMND510	B1LHK9		MW6-SBB-A1	W07-012	W05090					01/10/2007 10:24

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7016419	H-3	10028-17-8	3.90E+03	pCi/L	2.3E+02	3.0E+02		2.97E+02	100.0	906.0_H3_LSC	5.00E-03	L	01/25/2007 10:54	I
7016420	ALPHA	12587-46-1	1.18E+00	pCi/L	9.9E-01	1.0E+00	U	1.65E+00	100.0	9310_ALPHABETA	1.439E-01	L	02/08/2007 16:40	I
7016421	BETA	12587-47-2	1.63E+02	pCi/L	6.0E+00	2.2E+01		2.72E+00	100.0	9310_ALPHABETA	2.007E-01	L	02/08/2007 12:41	I
7016424	BE-7	13966-02-4	1.14E+01	pCi/L	1.7E+01	1.7E+01	U	3.59E+01		GAMMALL_GS	2.0002E+00	L	02/08/2007 05:12	I
7016424	CO-60	10198-40-0	-2.06E-01	pCi/L	2.1E+00	2.1E+00	U	4.11E+00		GAMMALL_GS	2.0002E+00	L	02/08/2007 05:12	I
7016424	CS-134	13967-70-9	-1.03E+00	pCi/L	2.2E+00	2.2E+00	U	3.84E+00		GAMMALL_GS	2.0002E+00	L	02/08/2007 05:12	I
7016424	CS-137	10045-97-3	-6.53E-01	pCi/L	1.8E+00	1.8E+00	U	3.13E+00		GAMMALL_GS	2.0002E+00	L	02/08/2007 05:12	I
7016424	EU-152	14683-23-9	4.13E+00	pCi/L	5.0E+00	5.0E+00	U	9.73E+00		GAMMALL_GS	2.0002E+00	L	02/08/2007 05:12	I
7016424	EU-154	15585-10-1	1.60E+00	pCi/L	4.6E+00	4.6E+00	U	1.04E+01		GAMMALL_GS	2.0002E+00	L	02/08/2007 05:12	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.

2/26/2007 8:52:34 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34551 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

7016424	EU-155	14391-16-3	-7.06E-01	pCi/L	3.7E+00	3.7E+00	U	6.44E+00		GAMMALL_GS	2.0002E+00	L	02/08/2007	05:12	I
7016424	K-40	13966-00-2	4.00E-01	pCi/L	3.2E+01	3.2E+01	U	6.61E+01		GAMMALL_GS	2.0002E+00	L	02/08/2007	05:12	I
7016424	RU-106	13967-48-1	-4.51E+00	pCi/L	1.8E+01	1.8E+01	U	3.21E+01		GAMMALL_GS	2.0002E+00	L	02/08/2007	05:12	I
7016424	SB-125	14234-35-6	-2.14E+00	pCi/L	5.0E+00	5.0E+00	U	8.46E+00		GAMMALL_GS	2.0002E+00	L	02/08/2007	05:12	I
7016422	SR-90	10098-97-2	2.91E-01	pCi/L	2.5E-01	2.5E-01	U	4.69E-01	82.1	SRISO_SEP_PRE	1.0075E+00	L	02/09/2007	05:53	I
7016429	TC-99	14133-76-7	6.26E+02	pCi/L	1.4E+01	4.3E+01		9.99E+00	100.0	TC99_ETVDSK_LS	1.25E-01	L	01/24/2007	03:31	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JMND710	B1LHL0		MW6-SBB-A1	W07-012	W05090					01/10/2007 07:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7016419	H-3	10028-17-8	1.94E+02	pCi/L	1.3E+02	1.4E+02	U	3.01E+02	100.0	906.0_H3_LSC	5.00E-03	L	01/25/2007 12:15	I
7016420	ALPHA	12587-46-1	5.86E-01	pCi/L	6.2E-01	6.3E-01	U	1.11E+00	100.0	9310_ALPHABETA	2.01E-01	L	02/08/2007 18:16	I
7016421	BETA	12587-47-2	1.23E+00	pCi/L	1.2E+00	1.2E+00	U	2.41E+00	100.0	9310_ALPHABETA	2.01E-01	L	02/08/2007 12:41	I
7016424	BE-7	13966-02-4	1.88E+01	pCi/L	2.2E+01	2.2E+01	U	4.46E+01		GAMMALL_GS	1.9999E+00	L	02/08/2007 06:54	I
7016424	CO-60	10198-40-0	-6.85E-01	pCi/L	2.8E+00	2.8E+00	U	5.08E+00		GAMMALL_GS	1.9999E+00	L	02/08/2007 06:54	I
7016424	CS-134	13967-70-9	5.17E-02	pCi/L	2.7E+00	2.7E+00	U	4.95E+00		GAMMALL_GS	1.9999E+00	L	02/08/2007 06:54	I
7016424	CS-137	10045-97-3	7.66E-01	pCi/L	2.4E+00	2.4E+00	U	4.64E+00		GAMMALL_GS	1.9999E+00	L	02/08/2007 06:54	I
7016424	EU-152	14683-23-9	-1.45E-01	pCi/L	5.5E+00	5.5E+00	U	9.94E+00		GAMMALL_GS	1.9999E+00	L	02/08/2007 06:54	I
7016424	EU-154	15585-10-1	-1.43E+00	pCi/L	7.8E+00	7.8E+00	U	1.44E+01		GAMMALL_GS	1.9999E+00	L	02/08/2007 06:54	I
7016424	EU-155	14391-16-3	-5.85E-01	pCi/L	4.9E+00	4.9E+00	U	8.68E+00		GAMMALL_GS	1.9999E+00	L	02/08/2007 06:54	I
7016424	K-40	13966-00-2	2.60E+00	pCi/L	5.6E+01	5.6E+01	U	1.26E+02		GAMMALL_GS	1.9999E+00	L	02/08/2007 06:54	I
7016424	RU-106	13967-48-1	-6.60E+00	pCi/L	2.0E+01	2.0E+01	U	3.55E+01		GAMMALL_GS	1.9999E+00	L	02/08/2007 06:54	I
7016424	SB-125	14234-35-6	-4.65E-01	pCi/L	5.3E+00	5.3E+00	U	9.53E+00		GAMMALL_GS	1.9999E+00	L	02/08/2007 06:54	I
7016422	SR-90	10098-97-2	2.75E-01	pCi/L	2.6E-01	2.6E-01	U	5.02E-01	68.5	SRISO_SEP_PRE	1.0049E+00	L	02/09/2007 05:53	I
7016429	TC-99	14133-76-7	-8.22E-01	pCi/L	4.1E+00	6.0E+00	U	9.96E+00	100.0	TC99_ETVDSK_LS	1.253E-01	L	01/24/2007 04:34	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JMPJ610	B1LC03		MW6-SBB-A1	S07-012	W05090					01/10/2007 13:52

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7016419	H-3	10028-17-8	1.14E+04	pCi/L	3.6E+02	5.9E+02		2.97E+02	100.0	906.0_H3_LSC	5.00E-03	L	01/25/2007 16:20	I
7016423	EU-152	14683-23-9	-2.01E-03	pCi/L	5.8E-02	5.8E-02	U	1.06E-01		I129LL_SEP_LEPS	3.8194E+00	L	02/15/2007 14:13	I
7016423	I-129L	15046-84-1	1.00E+00	pCi/L	4.1E-01	4.1E-01	U	5.65E-01	95.1	I129LL_SEP_LEPS	3.8194E+00	L	02/15/2007 14:13	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.

2/26/2007 8:52:34 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34551 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.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:
9JMPJX10	B1LBY7		MW6-SBB-A1	S07-012	W05090					01/10/2007 10:32

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7016419	H-3	10028-17-8	1.15E+04	pCi/L	3.6E+02	5.9E+02		2.97E+02	100.0	906.0_H3_LSC	5.00E-03	L	01/25/2007 13:37	I
7016423	EU-152	14683-23-9	2.39E-02	pCi/L	6.7E-02	6.7E-02	U	1.24E-01		I129LL_SEP_LEPS	3.918E+00	L	02/15/2007 14:12	I
7016423	I-129L	15046-84-1	5.42E-01	pCi/L	3.0E-01	3.0E-01	U	4.77E-01	97.3	I129LL_SEP_LEPS	3.918E+00	L	02/15/2007 14:12	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:
9JMPL610	B1L1Y5		MW6-SBB-A1	I07-009	W05090					01/10/2007 10:42

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7016427	C-14	14762-75-5	9.85E+00	pCi/L	3.8E+00	7.9E+00		8.27E+00	100.0	C14_LSC	2.00E-01	L	01/27/2007 00:34	I
7016424	BE-7	13966-02-4	-8.90E+00	pCi/L	2.4E+01	2.4E+01	U	4.17E+01		GAMMALL_GS	2.0002E+00	L	02/08/2007 06:55	I
7016424	CO-60	10198-40-0	-1.03E+00	pCi/L	2.2E+00	2.2E+00	U	3.90E+00		GAMMALL_GS	2.0002E+00	L	02/08/2007 06:55	I
7016424	CS-134	13967-70-9	4.34E-01	pCi/L	2.6E+00	2.6E+00	U	4.87E+00		GAMMALL_GS	2.0002E+00	L	02/08/2007 06:55	I
7016424	CS-137	10045-97-3	1.11E+00	pCi/L	2.2E+00	2.2E+00	U	4.36E+00		GAMMALL_GS	2.0002E+00	L	02/08/2007 06:55	I
7016424	EU-152	14683-23-9	7.89E-01	pCi/L	5.7E+00	5.7E+00	U	1.03E+01		GAMMALL_GS	2.0002E+00	L	02/08/2007 06:55	I
7016424	EU-154	15585-10-1	2.98E+00	pCi/L	7.7E+00	7.7E+00	U	1.55E+01		GAMMALL_GS	2.0002E+00	L	02/08/2007 06:55	I
7016424	EU-155	14391-16-3	-1.95E+00	pCi/L	3.5E+00	3.5E+00	U	5.95E+00		GAMMALL_GS	2.0002E+00	L	02/08/2007 06:55	I
7016424	K-40	13966-00-2	-3.40E+01	pCi/L	4.5E+01	4.5E+01	U	9.85E+01		GAMMALL_GS	2.0002E+00	L	02/08/2007 06:55	I
7016424	RU-106	13967-48-1	7.72E+00	pCi/L	2.1E+01	2.1E+01	U	4.02E+01		GAMMALL_GS	2.0002E+00	L	02/08/2007 06:55	I
7016424	SB-125	14234-35-6	-3.54E+00	pCi/L	6.1E+00	6.1E+00	U	1.02E+01		GAMMALL_GS	2.0002E+00	L	02/08/2007 06:55	I
7016423	EU-152	14683-23-9	2.05E-03	pCi/L	7.6E-02	7.6E-02	U	1.36E-01		I129LL_SEP_LEPS	3.917E+00	L	02/15/2007 17:04	I
7016423	I-129L	15046-84-1	1.20E+00	pCi/L	3.4E-01	3.4E-01	U	5.42E-01	93.5	I129LL_SEP_LEPS	3.917E+00	L	02/15/2007 17:04	I
7016426	NP-237	13994-20-2	-1.62E-02	pCi/L	8.4E-02	8.4E-02	U	2.29E-01	100.4	NP237_LLE_PLAT	2.004E-01	L	01/24/2007 17:36	I
7016422	SR-90	10098-97-2	3.54E-02	pCi/L	2.0E-01	2.0E-01	U	4.36E-01	85.7	SRISO_SEP_PRE	1.0028E+00	L	02/09/2007 05:53	I
7016429	TC-99	14133-76-7	1.19E+02	pCi/L	7.2E+00	1.3E+01		9.96E+00	100.0	TC99_ETVDSK_LS	1.256E-01	L	01/24/2007 06:38	I

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

Monday, February 26, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JMXGA1AB	**Sdg/Rept Nbr:**	W05090 34551	**Collection Date:**	01/10/2007 10:32
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	01/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016419	H-3	8.67E+01	pCi/L	1.4E+02	U	2.96E+02	100.0		906.0_H3_LSC	5.00E-03	01/25/2007				D
BLK	10028-17-8			1.2E+02						L	04:05				

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

1

Monday, February 26, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id: JMXGA1DX
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05090 34551
Matrix: WATER WATER
QC Type: BLK

Collection Date: 01/10/2007 10:32
Sample On Date:
Received Date: 01/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016419	H-3	1.03E+02	pCi/L	1.4E+02	U	2.99E+02	100.0		906.0_H3_LSC	5.00E-03	01/25/2007				D
BLK	10028-17-8			1.3E+02						L	19:04				

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

Monday, February 26, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JMXGD1AB	Sdg/Rept Nbr:	W05090	34551	Collection Date: 01/10/2007 10:24
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BLK		Received Date: 01/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016420	ALPHA	5.05E-03	pCi/L	2.1E-01	U	4.88E-01	100.0		9310_ALPHAB	2.004E-01	02/08/2007				D
BLK	12587-46-1			2.1E-01						L	13:37				

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

Monday, February 26, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JMXGE1AB	**Sdg/Rept Nbr:**	W05090 34551	**Collection Date:**	01/10/2007 07:30
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	01/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016421	BETA	5.32E-01	pCi/L	9.3E-01	U	1.84E+00	100.0		9310_ALPHAB	2.026E-01	02/08/2007				D
BLK	12587-47-2			9.3E-01						L	13:31				

STL Richland

rptFeadRadEdd v3.68

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

Monday, February 26, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JMXGF1AB	Sdg/Rept Nbr:	W05090 34551	Collection Date:	01/09/2007 13:13
Client Id:	NA	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	BLK	Received Date:	01/09/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016422	SR-90	1.27E-01	pCi/L	2.0E-01	U	4.18E-01	72.5		SRISO_SEP_P	1.0002E+00	02/09/2007				D
BLK	10098-97-2			1.8E-01						L	05:58				

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.

Monday, February 26, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id: JMXGG1AB **Sdg/Rept Nbr:** W05090 34551 **Collection Date:** 01/05/2007 10:24

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 01/05/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016423	EU-152	1.33E-02	pCi/L	6.7E-02	U	1.22E-01			I129LL_SEP_L	4.0034E+00	02/15/2007				D
BLK	14683-23-9			6.7E-02						L	17:05				
7016423	I-129L	-6.69E-02	pCi/L	1.1E-01	U	1.94E-01	95.9		I129LL SEP_L	4.0034E+00	02/15/2007				D
BLK	15046-84-1			1.1E-01						L	17:05				

STL Richland

rptFeadRadEdd v3.68

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

Monday, February 26, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id: JMXGH1AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05090 34551
Matrix: WATER WATER
QC Type: BLK

Collection Date: 01/08/2007 10:41
Sample On Date:
Received Date: 01/08/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016424	BE-7	2.69E+00	pCi/L	1.9E+01	U	3.68E+01			GAMMALL_GS	2.0003E+00	02/08/2007				D
BLK	13966-02-4			1.9E+01						L	06:55				
7016424	CO-60	3.72E-01	pCi/L	2.9E+00	U	5.70E+00			GAMMALL_GS	2.0003E+00	02/08/2007				D
BLK	10198-40-0			2.9E+00						L	06:55				
7016424	CS-134	4.71E-01	pCi/L	2.3E+00	U	4.54E+00			GAMMALL_GS	2.0003E+00	02/08/2007				D
BLK	13967-70-9			2.3E+00						L	06:55				
7016424	CS-137	-1.07E+00	pCi/L	2.3E+00	U	4.00E+00			GAMMALL_GS	2.0003E+00	02/08/2007				D
BLK	10045-97-3			2.3E+00						L	06:55				
7016424	EU-152	3.42E+00	pCi/L	5.9E+00	U	1.11E+01			GAMMALL_GS	2.0003E+00	02/08/2007				D
BLK	14683-23-9			5.9E+00						L	06:55				
7016424	EU-154	-1.26E-01	pCi/L	7.1E+00	U	1.39E+01			GAMMALL_GS	2.0003E+00	02/08/2007				D
BLK	15585-10-1			7.1E+00						L	06:55				
7016424	EU-155	1.96E+00	pCi/L	4.2E+00	U	7.76E+00			GAMMALL_GS	2.0003E+00	02/08/2007				D
BLK	14391-16-3			4.2E+00						L	06:55				
7016424	K-40	-2.33E+01	pCi/L	4.2E+01	U	9.11E+01			GAMMALL_GS	2.0003E+00	02/08/2007				D
BLK	13966-00-2			4.2E+01						L	06:55				
7016424	RU-106	-1.85E+00	pCi/L	1.8E+01	U	3.39E+01			GAMMALL_GS	2.0003E+00	02/08/2007				D
BLK	13967-48-1			1.8E+01						L	06:55				
7016424	SB-125	1.02E+00	pCi/L	4.7E+00	U	9.10E+00			GAMMALL_GS	2.0003E+00	02/08/2007				D
BLK	14234-35-6			4.7E+00						L	06:55				

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

Monday, February 26, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JMXGK1AB	**Sdg/Rept Nbr:**	W05090 34551	**Collection Date:**	01/10/2007 10:42
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	01/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016426	NP-237	-8.38E-03	pCi/L	8.5E-02	U	2.01E-01	96.7		NP237_LLE_P	2.053E-01	01/24/2007				D
BLK	13994-20-2			8.5E-02						L	17:37				

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

Monday, February 26, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JMXGL1AB	**Sdg/Rept Nbr:**	W05090 34551	**Collection Date:**	01/10/2007 10:42
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	01/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016427	C-14	-1.08E+00	pCi/L	6.8E+00	U	8.27E+00	100.0		C14_LSC	2.00E-01	01/26/2007				D
BLK	14762-75-5			3.4E+00						L	23:09				

STL Richland
rptFeadRadEdd v3.68

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

Monday, February 26, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id: JMXGM1AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05090 34551
Matrix: WATER WATER
QC Type: BLK

Collection Date: 01/05/2007 10:24
Sample On Date:
Received Date: 01/05/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016429	TC-99	-1.45E+00	pCi/L	5.9E+00	U	9.98E+00	100.0		TC99_ETVDSK	1.257E-01	01/24/2007				
BLK	14133-76-7			4.1E+00						L	07:41				D

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

Monday, February 26, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JMXGN1AB	**Sdg/Rept Nbr:**	W05090	34551	**Collection Date:** 01/05/2007 12:52
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 01/05/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016430	Uranium	0.00E+00	ug/L	0.0E+00	U	2.10E-01			UTOT_KPA	2.57E-02	02/19/2007				D
BLK	7440-61-1			0.0E+00						ML	13:19				

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

Monday, February 26, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id: JMXGA1CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05090 34551
Matrix: WATER WATER
QC Type: BS

Collection Date: 01/10/2007 10:32
Sample On Date:
Received Date: 01/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016419	H-3	2.70E+03	pCi/L	2.5E+02		2.96E+02	100.0	2.71E+03	906.0_H3_LSC	5.00E-03	01/25/2007			70	D
BS	10028-17-8			2.1E+02				99.5		L	05:27			130	

STL Richland
rptFeadRadEdd v3.68

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

Monday, February 26, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id: JMXGA1EM **Sdg/Rept Nbr:** W05090 34551 **Collection Date:** 01/10/2007 10:32

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 01/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016419	H-3	2.56E+03	pCi/L	2.4E+02		2.99E+02	100.0	2.71E+03	906.0_H3_LSC	5.00E-03	01/25/2007			70	D
BS	10028-17-8			2.0E+02				94.4		L	20:26			130	

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

Monday, February 26, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id: JMXGD1CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05090 34551
Matrix: WATER WATER
QC Type: BS

Collection Date: 01/10/2007 10:24
Sample On Date:
Received Date: 01/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016420	ALPHA	1.97E+01	pCi/L	4.8E+00		4.77E-01	100.0	2.26E+01	9310_ALPHAB	2.004E-01	02/08/2007			70	D
BS	12587-46-1			1.4E+00				87.1		L	13:37			130	

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

Monday, February 26, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JMXGE1CS	**Sdg/Rept Nbr:**	W05090 34551	**Collection Date:**	01/10/2007 07:30
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	01/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016421	BETA	2.24E+01	pCi/L	3.3E+00		1.75E+00	100.0	2.28E+01	9310_ALPHAB	2.004E-01	02/08/2007			70	D
BS	12587-47-2			1.7E+00				98.0		L	13:31			130	

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

Monday, February 26, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JMXGF1CS	**Sdg/Rept Nbr:**	W05090 34551	**Collection Date:**	01/09/2007 13:13
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	01/09/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016422	SR-90	1.34E+01	pCi/L	2.1E+00		3.64E-01	76.7	1.35E+01	SRISO_SEP_P	1.0007E+00	02/09/2007			70	D
BS	10098-97-2			7.7E-01				99.0		L	05:58			130	

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

Monday, February 26, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JMXGG1CS	**Sdg/Rept Nbr:**	W05090 34551	**Collection Date:**	01/05/2007 10:24
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	01/05/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016423	EU-152	-1.58E-02	pCi/L	5.1E-02	U	8.97E-02			I129LL_SEP_L	4.0001E+00	02/15/2007				D
BS	14683-23-9			5.1E-02						L	17:06				
7016423	I-129L	7.89E+00	pCi/L	1.0E+00		5.07E-01	94.8	9.63E+00	I129LL_SEP_L	4.0001E+00	02/15/2007			70	D
BS	15046-84-1			1.0E+00				81.9		L	17:06			130	

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

Monday, February 26, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id: JMXGH1CS **Sdg/Rept Nbr:** W05090 34551 **Collection Date:** 01/08/2007 10:41

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 01/08/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016424	CO-60	3.29E+01	pCi/L	7.5E+00		4.01E+00		3.83E+01	GAMMALL_GS	2.0019E+00	02/08/2007			70	D
BS	10198-40-0			7.5E+00				86.1		L	06:55			130	
7016424	CS-137	2.70E+01	pCi/L	6.3E+00		3.66E+00		2.48E+01	GAMMALL_GS	2.0019E+00	02/08/2007			70	D
BS	10045-97-3			6.3E+00				109.0		L	06:55			130	
7016424	EU-152	8.10E+01	pCi/L	1.9E+01		1.09E+01		7.65E+01	GAMMALL_GS	2.0019E+00	02/08/2007			70	D
BS	14683-23-9			1.9E+01				105.9		L	06:55			130	

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

Monday, February 26, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JMXGK1CS	**Sdg/Rept Nbr:**	W05090	34551	**Collection Date:** 01/10/2007 10:42
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 01/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016426	NP-237	8.67E+00	pCi/L	1.8E+00		2.15E-01	95.6	9.14E+00	NP237_LLE_P	2.005E-01	01/24/2007			70	D
BS	13994-20-2			1.2E+00				94.9		L	17:37			130	

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

Monday, February 26, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JMXGL1CS	**Sdg/Rept Nbr:**	W05090 34551	**Collection Date:**	01/10/2007 10:42
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	01/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016427	C-14	4.32E+01	pCi/L	1.1E+01		8.27E+00	100.0	4.62E+01	C14_LSC	2.00E-01	01/26/2007			70	D
BS	14762-75-5			4.7E+00				93.6		L	23:51			130	

STL Richland

rptFeadRadEdd v3.68

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

Monday, February 26, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JMXGM1CS	**Sdg/Rept Nbr:**	W05090	34551	**Collection Date:** 01/05/2007 10:24
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 01/05/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016429	TC-99	5.02E+02	pCi/L	3.6E+01		9.81E+00	100.0	5.33E+02	TC99_ETVDSK	1.273E-01	01/24/2007			70	D
BS	14133-76-7			1.3E+01				94.1		L	08:43			130	

STL Richland

rptFeadRadEdd v3.68

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

Monday, February 26, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id: JMXGN1CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05090 34551
Matrix: WATER WATER
QC Type: BS

Collection Date: 01/05/2007 12:52
Sample On Date:
Received Date: 01/05/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016430	Uranium	3.57E+01	ug/L	4.2E+00		8.35E-02		3.62E+01	UTOT_KPA	2.51E-02	02/19/2007			70	D
BS	7440-61-1			4.2E+00				98.5		ML	13:25			130	

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

Monday, February 26, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JMXGN1DS	**Sdg/Rept Nbr:**	W05090 34551	**Collection Date:**	01/05/2007 12:52
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	01/05/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016430	Uranium	3.66E+00	ug/L	3.7E-01		8.32E-02		3.60E+00	UTOT_KPA	2.52E-02	02/19/2007			70	D
BS	7440-61-1			3.7E-01				101.7		ML	13:27			130	

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

Monday, March 05, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JMJ9X1CR	**Sdg/Rept Nbr:**	W05090	34551	**Collection Date:** 01/05/2007 12:52
Client Id:	B1LR82	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**DUP**		**Received Date:** 01/05/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-001	MW6-SBB-A19981								AV	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016430	Uranium	2.78E-02	ug/L	3.0E-03	U	7.91E-02			UTOT_KPA	2.65E-02	02/19/2007	71.5	6.9		D
DUP	7440-61-1	1.32E-02		3.0E-03						ML	13:34	20.0	3		

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

Monday, February 26, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JMJ9X1CR	**Sdg/Rept Nbr:**	W05090 34551	**Collection Date:**	01/05/2007 12:52
Client Id:	B1LR82	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	01/05/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-001	MW6-SBB-A19981								AV	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016430	Uranium	2.78E-02	ug/L	3.0E-03	U	7.91E-02			UTOT_KPA	2.65E-02	02/19/2007				D
DUP	7440-61-1			3.0E-03						ML	13:34				

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MAR. 1 1992 2007

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
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B Qual- Analyte was found in the associated laboratory blank above the MDC.

Monday, March 05, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JMKMG1FR	**Sdg/Rept Nbr:**	W05090 34551	**Collection Date:**	01/05/2007 10:24
Client Id:	B1LRJ6	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	01/05/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-001	MW6-SBB-A19981								AW	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016423	I-129L	-7.76E-02	pCi/L	1.5E-01	U	2.65E-01	95.4		I129LL_SEP_L	3.9346E+00	02/15/2007	0.0	1.4		D
DUP	15046-84-1	7.03E-02		1.5E-01						L	12:16	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
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Monday, February 26, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JMKMG1FR	**Sdg/Rept Nbr:**	W05090	34551	**Collection Date:** 01/05/2007 10:24
Client Id:	B1LRJ6	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 01/05/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-001	MW6-SBB-A19981								AW	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016423	EU-152	2.23E-03	pCi/L	7.4E-02	U	1.32E-01			I129LL_SEP_L	3.9346E+00	02/15/2007				D
DUP	14683-23-9			7.4E-02						L	12:16				
7016423	I-129L	-7.76E-02	pCi/L	1.5E-01	U	2.65E-01	95.4		I129LL_SEP_L	3.9346E+00	02/15/2007				D
DUP	15046-84-1			1.5E-01						L	12:16				

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rptFeadRadEdd v3.68

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
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B Qual- Analyte was found in the associated laboratory blank above the MDC.

Monday, March 05, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id: JMKMG1GR
Client Id: B1LRJ6
Moisture/Solids%*:

Sdg/Rept Nbr: W05090 34551
Matrix: WATER WATER
QC Type: DUP

Collection Date: 01/05/2007 10:24
Sample On Date:
Received Date: 01/05/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-001	MW6-SBB-A19981								AX	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016429	TC-99	4.67E+00	pCi/L	6.2E+00	U	9.91E+00	100.0		TC99_ETVDSK	1.26E-01	01/24/2007	1.9	0.		D
DUP	14133-76-7	4.76E+00		4.3E+00						L	00:24	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
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Monday, February 26, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JMKMG1GR	**Sdg/Rept Nbr:**	W05090 34551	**Collection Date:**	01/05/2007 10:24
Client Id:	B1LRJ6	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	01/05/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-001	MW6-SBB-A19981								AX	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016429	TC-99	4.67E+00	pCi/L	6.2E+00	U	9.91E+00	100.0		TC99_ETVDSK	1.26E-01	01/24/2007				
DUP	14133-76-7			4.3E+00						L	00:24				D

SUPERSEDED
MAR 1 ~~1992~~ 2007

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Monday, March 05, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JML5D1GR	**Sdg/Rept Nbr:**	W05090 34551	**Collection Date:**	01/08/2007 10:41
Client Id:	B1LK21	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	01/08/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
G07-012	MW6-SBB-A19981								AZ	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016424	BE-7	-2.14E+02	pCi/L	4.5E+02	U	7.64E+02			GAMMALL_GS	1.041E-01	02/08/2007	0.0	0.4		D
DUP	13966-02-4	-7.85E+01		4.5E+02						L	05:11	20.0	3		
7016424	CO-60	-1.73E+01	pCi/L	3.6E+01	U	6.31E+01			GAMMALL_GS	1.041E-01	02/08/2007	0.0	0.9		D
DUP	10198-40-0	4.79E+00		3.6E+01						L	05:11	20.0	3		
7016424	CS-134	2.68E+01	pCi/L	4.3E+01	U	8.96E+01			GAMMALL_GS	1.041E-01	02/08/2007	31.0	0.3		D
DUP	13967-70-9	3.66E+01		4.3E+01						L	05:11	20.0	3		
7016424	CS-137	-2.38E+01	pCi/L	4.8E+01	U	8.40E+01			GAMMALL_GS	1.041E-01	02/08/2007	3082.7	1.5		D
DUP	10045-97-3	2.70E+01		4.8E+01						L	05:11	20.0	3		
7016424	EU-152	-3.17E+01	pCi/L	9.5E+01	U	1.68E+02			GAMMALL_GS	1.041E-01	02/08/2007	441.0	1.7		D
DUP	14683-23-9	8.44E+01		9.5E+01						L	05:11	20.0	3		
7016424	EU-154	-5.05E+01	pCi/L	1.2E+02	U	2.17E+02			GAMMALL_GS	1.041E-01	02/08/2007	0.0	0.4		D
DUP	15585-10-1	-1.80E+01		1.2E+02						L	05:11	20.0	3		
7016424	EU-155	-8.04E+00	pCi/L	9.7E+01	U	1.67E+02			GAMMALL_GS	1.041E-01	02/08/2007	252.2	1.1		D
DUP	14391-16-3	6.97E+01		9.7E+01						L	05:11	20.0	3		
7016424	K-40	-4.06E+01	pCi/L	9.6E+02	U	2.06E+03			GAMMALL_GS	1.041E-01	02/08/2007	0.0	0.4		D
DUP	13966-00-2	-3.11E+02		9.6E+02						L	05:11	20.0	3		
7016424	RU-106	-1.60E+02	pCi/L	3.5E+02	U	6.16E+02			GAMMALL_GS	1.041E-01	02/08/2007	0.0	1.2		D
DUP	13967-48-1	1.26E+02		3.5E+02						L	05:11	20.0	3		
7016424	SB-125	-8.13E+00	pCi/L	1.0E+02	U	1.85E+02			GAMMALL_GS	1.041E-01	02/08/2007	271.1	0.9		D
DUP	14234-35-6	5.38E+01		1.0E+02						L	05:11	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
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B Qual- Analyte was found in the associated laboratory blank above the MDC.

Monday, February 26, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id: JML5D1GR **Sdg/Rept Nbr:** W05090 34551 **Collection Date:** 01/08/2007 10:41

Client Id: B1LK21 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 01/08/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
G07-012	MW6-SBB-A19981								AZ	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016424	BE-7	-2.14E+02	pCi/L	4.5E+02	U	7.64E+02			GAMMALL_GS	1.041E-01	02/08/2007				
DUP	13966-02-4			4.5E+02						L	05:11				D
7016424	CO-60	-1.73E+01	pCi/L	3.6E+01	U	6.31E+01			GAMMALL_GS	1.041E-01	02/08/2007				
DUP	10198-40-0			3.6E+01						L	05:11				D
7016424	CS-134	2.68E+01	pCi/L	4.3E+01	U	8.96E+01			GAMMALL_GS	1.041E-01	02/08/2007				
DUP	13967-70-9			4.3E+01						L	05:11				D
7016424	CS-137	-2.38E+01	pCi/L	4.8E+01	U	8.40E+01			GAMMALL_GS	1.041E-01	02/08/2007				
DUP	10045-97-3			4.8E+01						L	05:11				D
7016424	EU-152	-3.17E+01	pCi/L	9.5E+01	U	1.68E+02			GAMMALL_GS	1.041E-01	02/08/2007				
DUP	14683-23-9			9.5E+01						L	05:11				D
7016424	EU-154	-5.05E+01	pCi/L	1.2E+02	U	2.17E+02			GAMMALL_GS	1.041E-01	02/08/2007				
DUP	15585-10-1			1.2E+02						L	05:11				D
7016424	EU-155	-8.04E+00	pCi/L	9.7E+01	U	1.67E+02			GAMMALL_GS	1.041E-01	02/08/2007				
DUP	14391-16-3			9.7E+01						L	05:11				D
7016424	K-40	-4.06E+01	pCi/L	9.6E+02	U	2.06E+03			GAMMALL_GS	1.041E-01	02/08/2007				
DUP	13966-00-2			9.6E+02						L	05:11				D
7016424	RU-106	-1.60E+02	pCi/L	3.5E+02	U	6.16E+02			GAMMALL_GS	1.041E-01	02/08/2007				
DUP	13967-48-1			3.5E+02						L	05:11				D
7016424	SB-125	-8.13E+00	pCi/L	1.0E+02	U	1.85E+02			GAMMALL_GS	1.041E-01	02/08/2007				
DUP	14234-35-6			1.0E+02						L	05:11				D

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MAR 1 ~~1992~~ 2007

STL Richland

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U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
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Monday, March 05, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JML6A1CR	**Sdg/Rept Nbr:**	W05090	34551	**Collection Date:** 01/09/2007 13:13
Client Id:	B1LNK6	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 01/09/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-001	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
7016422	SR-90	2.14E-01	pCi/L	2.4E-01	U	4.92E-01	79.9		SRISO_SEP_P	9.935E-01 L	02/09/2007 05:57	69.2 20.0	0.6 3		D
DUP	10098-97-2	1.04E-01		2.1E-01											

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Monday, February 26, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JML6A1CR	**Sdg/Rept Nbr:**	W05090 34551	**Collection Date:**	01/09/2007 13:13
Client Id:	B1LNK6	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	01/09/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-001	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
7016422	SR-90	2.14E-01	pCi/L	2.4E-01	U	4.92E-01	79.9		SRISO_SEP_P	9.935E-01	02/09/2007				D
DUP	10098-97-2			2.1E-01						L	05:57				

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STL Richland

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Monday, March 05, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JMND51JR	**Sdg/Rept Nbr:**	W05090 34551	**Collection Date:**	01/10/2007 10:24
Client Id:	B1LHK9	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	01/10/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-012	MW6-SBB-A19981								BB	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016420	ALPHA	3.70E-01	pCi/L	6.9E-01	U	1.48E+00	100.0		9310_ALPHAB	1.44E-01	02/08/2007	104.3	1.6		D
DUP	12587-46-1	1.18E+00		6.9E-01						L	16:40	20.0	3		

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Monday, February 26, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JMND51JR	**Sdg/Rept Nbr:**	W05090 34551	**Collection Date:**	01/10/2007 10:24
Client Id:	B1LHK9	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	01/10/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-012	MW6-SBB-A19981								BB	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016420	ALPHA	3.70E-01	pCi/L	6.9E-01	U	1.48E+00	100.0		9310_ALPHAB	1.44E-01	02/08/2007				
DUP	12587-46-1			6.9E-01						L	16:40				D

SUPERSEDED
MAR, 1 ~~1992~~ 2007

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Monday, March 05, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JMND71JR	Sdg/Rept Nbr:	W05090 34551	Collection Date:	01/10/2007 07:30
Client Id:	B1LHL0	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	DUP	Received Date:	01/10/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-012	MW6-SBB-A19981								BC	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016421	BETA	8.06E-02	pCi/L	1.1E+00	U	2.43E+00	100.0		9310_ALPHAB	2.004E-01	02/08/2007	175.5	1.5		D
DUP	12587-47-2	1.23E+00		1.1E+00						L	12:41	20.0	3		

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

Monday, February 26, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JMND71JR	**Sdg/Rept Nbr:**	W05090 34551	**Collection Date:**	01/10/2007 07:30
Client Id:	B1LHL0	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	01/10/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-012	MW6-SBB-A19981								BC	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016421	BETA	8.06E-02	pCi/L	1.1E+00	U	2.43E+00	100.0		9310_ALPHAB	2.004E-01	02/08/2007				D
DUP	12587-47-2			1.1E+00						L	12:41				

SUPERSEDED
MAR 1 1992 2007

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Monday, March 05, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JMPJX1DR	Sdg/Rept Nbr:	W05090	34551	Collection Date: 01/10/2007 10:32
Client Id:	B1LBY7	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	DUP		Received Date: 01/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016419	H-3	1.14E+04	pCi/L	5.8E+02		2.96E+02	100.0		906.0_H3_LSC	5.00E-03	01/25/2007	.6	0.2		D
DUP	10028-17-8	1.15E+04		3.6E+02						L	14:59	20.0	3		

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Monday, February 26, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JMPJX1DR	**Sdg/Rept Nbr:**	W05090 34551	**Collection Date:**	01/10/2007 10:32
Client Id:	B1LBY7	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	01/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016419	H-3	1.14E+04	pCi/L	5.8E+02		2.96E+02	100.0		906.0_H3_LSC	5.00E-03	01/25/2007				D
DUP	10028-17-8			3.6E+02						L	14:59				

SUPERSEDED

MAR 1 ~~1992~~ 2007

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Monday, March 05, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JMPL61HR	Sdg/Rept Nbr:	W05090	34551	Collection Date: 01/10/2007 10:42
Client Id:	B1L1Y5	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	DUP		Received Date: 01/10/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I07-009	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
7016426	NP-237	-2.50E-02	pCi/L	8.8E-02	U	2.63E-01	106.3		NP237_LLE_P	2.00E-01	01/24/2007	0.0	0.1		D
DUP	13994-20-2	-1.62E-02		8.8E-02						L	17:37	20.0	3		

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Monday, February 26, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JMPL61HR	**Sdg/Rept Nbr:**	W05090 34551	**Collection Date:**	01/10/2007 10:42
Client Id:	B1L1Y5	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	01/10/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I07-009	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
7016426	NP-237	-2.50E-02	pCi/L	8.8E-02	U	2.63E-01	106.3		NP237_LLE_P	2.00E-01	01/24/2007				D
DUP	13994-20-2			8.8E-02						L	17:37				

SUPERSEDED

MAR 1 ~~1992~~ 2007

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Monday, March 05, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JMPL61JR	Sdg/Rept Nbr:	W05090 34551	Collection Date:	01/10/2007 10:42
Client Id:	B1L1Y5	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	DUP	Received Date:	01/10/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I07-009	MW6-SBB-A19981								BF	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016427	C-14	6.38E+00	pCi/L	7.5E+00	U	8.27E+00	100.0		C14_LSC	2.00E-01	01/27/2007	42.7	0.7		D
DUP	14762-75-5	9.85E+00		3.6E+00						L	01:16	20.0	3		

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Monday, February 26, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id:	JMPL61JR	Sdg/Rept Nbr:	W05090 34551	Collection Date:	01/10/2007 10:42
Client Id:	B1L1Y5	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	DUP	Received Date:	01/10/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I07-009	MW6-SBB-A19981								BF	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016427	C-14	6.38E+00	pCi/L	7.5E+00	U	8.27E+00	100.0		C14_LSC	2.00E-01	01/27/2007				
DUP	14762-75-5			3.6E+00						L	01:16				D

SUPERCEDED
MAR 1 1992 2007

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rptFeadRadEdd v3.68

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Monday, February 26, 2007

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id: JMJ951CW
Client Id: B1LR83
Moisture/Solids%*:

Sdg/Rept Nbr: W05090 34551
Matrix: WATER WATER
QC Type: MS

Collection Date: 01/05/2007 12:52
Sample On Date:
Received Date: 01/05/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-001	MW6-SBB-A19981								AU	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016430	Uranium	3.47E+01	ug/L	4.1E+00		8.25E-02		3.57E+01	UTOT_KPA	2.54E-02	02/19/2007			60	D
MS	7440-61-1			4.1E+00				97.2		ML	13:38			140	

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Monday, February 26, 2007

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05090.Edd, h:\Reportdb\edd\FeadIV\Rad\34551.Edd

Lab Sample Id: JMKML1FW
Client Id: B1LRJ7
Moisture/Solids%*:

Sdg/Rept Nbr: W05090 34551
Matrix: WATER WATER
QC Type: MS

Collection Date: 01/05/2007 07:55
Sample On Date:
Received Date: 01/05/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-001	MW6-SBB-A19981								AY	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7016429	TC-99	3.35E+03	pCi/L	2.1E+02		9.95E+00	100.0	3.60E+03	TC99_ETVDSK	1.253E-01	01/24/2007			60	D
MS	14133-76-7			3.1E+01				93.0		L	02:28			140	

STL Richland
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FormNI	FormS	Recd	FormatTy	Versid	SampleNbr	Contract	LabCode	LabC	CaseI	SAS	SDGNbr
W	AA	H	FEAD	05	B1LH77	MW6-SBB-A19981	STLRL				W05090
W	AB	H	FEAD	05	B1LHK9	MW6-SBB-A19981	STLRL				W05090
W	AC	H	FEAD	05	B1LHL0	MW6-SBB-A19981	STLRL				W05090
W	AD	H	FEAD	05	B1LHL0 DUP	MW6-SBB-A19981	STLRL				W05090
W	AE	H	FEAD	05	NA	MW6-SBB-A19981	STLRL				W05090
W	AF	H	FEAD	05	NA	MW6-SBB-A19981	STLRL				W05090

AnalyticalMatrix	LabReceivedDate	CollectedDate	PercentSo	Decante	LabSampleId	LabFileI	SafNbr
WATER	01/10/2007	01/10/2007			9JMND210		
WATER	01/10/2007	01/10/2007			9JMND510		
WATER	01/10/2007	01/10/2007			9JMND710		
WATER	01/10/2007	01/10/2007			JMND71JR		
WATER	01/10/2007				JMXGJ1AB		
WATER	01/10/2007				JMXGJ1CS		

CollectedTime	PercentM	Filename	SpecificMat
11:53		h:\Reportdb\edd\FeadIV\Wet\W0509	
10:24		h:\Reportdb\edd\FeadIV\Wet\W0509	
07:30		h:\Reportdb\edd\FeadIV\Wet\W0509	
07:30		h:\Reportdb\edd\FeadIV\Wet\W0509	
		h:\Reportdb\edd\FeadIV\Wet\W0509	
		h:\Reportdb\edd\FeadIV\Wet\W0509	

FormNbr	FormSuffix	RecordType	CASNbr	Isotope	Result
W	AA	D	COLIFORM	COLIFORM	+1.00E+00
W	AB	D	COLIFORM	COLIFORM	+1.00E+00
W	AC	D	COLIFORM	COLIFORM	+1.00E+00
W	AD	D	COLIFORM	COLIFORM	+1.00E+00
W	AE	D	COLIFORM	COLIFORM	+1.00E+00
W	AF	D	COLIFORM	COLIFORM	+2.00E+00

OrigResult	ConcentrationUr	ActionCode	AnalysisMethod	SampleAliquotS	SampleAliquotU
	Col/100ml	I	9223 COLIFO	+1.00E+02	Ml
	Col/100ml	I	9223 COLIFO	+1.00E+02	Ml
	Col/100ml	I	9223 COLIFO	+1.00E+02	Ml
	Col/100ml	I	9223 COLIFO	+1.00E+02	Ml
	Col/100ml	I	9223 Coliform	+1.00E+02	Ml
	Col/100ml	I	9223 Coliform	+1.00E+02	Ml

LabQualifier	DilutionFactor	DateAnalyzed	TimeAnalyzed	BatchNbr	QcType
U	1	01/10/2007	15:51	7016425	
U	1	01/07/2007	15:55	7016425	
U	1	01/07/2007	15:51	7016425	
U	1	01/10/2007	15:55	7016425	DUP
U	1	01/10/2007	00:00	7016425	BLK
	1	01/10/2007	00:00	7016425	BS

SpikeConc	PercentRecover	Rpd	RpdMaximum	Rpd_UCL	LCSMS_LCL
		0.0			

LCS_UCL	TracerYield	DetectionLimit	RL	RLType	CommentCode
		1.00E+00	1.00E+00	RDI	
		1.00E+00	1.00E+00	RDI	
		1.00E+00	1.00E+00	RDI	
		1.00E+00	1.00E+00	RDI	
		1.00E+00	1.00E+00	RDI	
		1.00E+00	1.00E+00	RDI	

RQC050

Severn Trent Laboratories, Inc.
WET CHEM BATCHSHEET

Run Date: 2/09/07
Time: 12:15:57

STL Richland

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: IZ COLIFORM BY METHOD 9223
QC BATCH #: **7016425**
PREP DATE: 1/16/07
COMP DATE: 1/16/07
USER: KENITZEP

INITIALS:
PREP vl by PA
ANAL JMN by PA

DATA ENTRY:
INITIALS
DATE

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:	#col
JMND2-1-AC	J-7A100315-001	XX I 88 IZ 5I	E	1-12-07	B1LH77	0
JMND5-1-AC	J-7A100315-002	XX I 88 IZ 5I	E		B1LHK9	0
JMND7-1-AC	J-7A100315-003	XX I 88 IZ 5I	E		B1LHL0	0
JMND7-1-AK	J-7A100315-003-X	XX I 88 IZ 5I	E		B1LHL0 DUP	0
JMXGJ-1-AA	J-7A160000-425-B	XX I 88 IZ 5I			INTRA-LAB BLANK	0
JMXGJ-1-AC	J-7A160000-425-C	XX I 88 IZ 5I			INTRA-LAB CHECK	4.1

Control Limits

(0-0)

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

1/29/2007 9:25:52 AM

Lot No., Due Date: J7A110223; 02/23/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7016426; RNP237 Np-237 w/tracer

SDG, Matrix: W05090; WATER

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

6.0 Comments on any No response:

First Level Review [signature] Pam Lindsey 1-29-07 **Date** 1/29/07 EJM

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7016426
W05090

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: Sherry L A Adkins Date: 1-29-07

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/9/2007 9:27:55 AM

Lot No., Due Date: J7A090191,J7A100160,J7A100315; 02/19/2007,02/22/2007,02/23/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7016420; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05090; 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 => JMKMG1AA 163.20<200.00 JML5D1AC 31.60<200.00 JML5G1AC 30.30<200.00 JMND51AD 143.90<200.00 Q:VB		✓	
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. RPD > UCL : 20.0=> JMND51AJ ALPHA 100.0 (RPD)		✓	
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK	✓		
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	✓		
8.19 Sample Specific MDC <= CRDL. MDC/MDA > CRDL => JML5D1AC ALPHA 3.3E+00>3.0E+00 JML5G1AC ALPHA 3.1E+00>3.0E+00 Q:C1		✓	
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => JMKMG1AA ALPHA 3.2E+00 L:2.1E+00		✓	
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => ALPHA OK; No Callin Level Found => ALPHA	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		

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 2-9-07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7016420
W05090

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: 2-9-07

Clouseau
Nonconformance Memo

SEVERN TRENT SERVICES

NCM #: 10-09419
NCM Initiated By: Pam Anderson
Date Opened: 02/09/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Sep
Tests: Alpha by GPC-Am
Lot #'s (Sample #'s): J7A100160 (1,2),
QC Batches: 7016420

Nonconformance: MDA not met
Subcategory: Matrix effect

Problem Description / Root Cause

Name	Date	Description
Pam Anderson	02/09/2007	Samples JML5D1AC and JML5G1AC are just above CRDL. They had a very high beta screen and a smaller aliquot was taken.

Corrective Action

Name	Date	Corrective Action
Pam Anderson	02/09/2007	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

Date Printed: 2/9/2007

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/9/2007 9:28:21 AM

Lot No., Due Date:	J7A090191,J7A100160,J7A100315; 02/19/2007,02/22/2007,02/23/2007
Client, Site:	384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test:	7016421; RBETA-SR Beta by GPC-Sr/Y
SDG, Matrix:	W05090; 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 => JML5D1AD 15.40<200.00 JML5G1AD 16.10<200.00 Q:VB		✓	
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. RPD > UCL : 20.0=> JMND71AJ BETA 180.0 (RPD)		✓	
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK	✓		
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	✓		
8.19 Sample Specific MDC <= CRDL. MDC/MDA > CRDL => JML5D1AD BETA 2.6E+01>4.0E+00 JML5G1AD BETA 2.3E+01>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 => JMKMG1AC BETA 1.1E+01 L:2.8E+00 JML5D1AD BETA 1.6E+04 L:2.6E+01 JML5G1AD BETA 1.5E+04 L:2.3E+01 JMND51AE BETA 1.6E+02 L:2.7E+00		✓	
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => BETA OK; No Callin Level Found => BETA	✓		

NCM # 10-09420

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 2-9-07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7016421
W05090

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

Comments on any "No" response: See NCM

Second Level Review: Sheryl R Allen Date: 2-9-07

Clouseau
Nonconformance Memo

SEVERN TRENT SERVICES

NCM #: 10-09420
NCM Initiated By: Pam Anderson
Date Opened: 02/09/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Sep
Tests: Beta by GPC-Sr/Y
Lot #'s (Sample #'s): J7A100160 (1,2),
QC Batches: 7016421

Nonconformance: MDA not met
Subcategory: Matrix effect

Problem Description / Root Cause

Name	Date	Description
Pam Anderson	02/09/2007	Beta samples in water did not meet CRDL. They had a very high rad screen. The results >MDA>CRDL.

Corrective Action

Name	Date	Corrective Action
Pam Anderson	02/09/2007	Note in case narrative.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 2/9/2007

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/12/2007 10:16:11 AM

Lot No., Due Date:	J7A100160,J7A100166,J7A110138,J7A100315,J7A110223; 02/22/2007,02/23/2007
Client, Site:	384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test:	7016422; RSR85907 Sr-85/90 by GPC-7
SDG, Matrix:	W05090; WATER

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

6.0 Comments on any No response:
See NCM. 10-09435

First Level Review Pam Anderson Date 2-13-07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7016422
W05090

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

Comments on any "No" response: See NCM

Second Level Review: Sheryl R Adam Date: 2-13-07

Clouseau
Nonconformance Memo

SEVERN TRENT SERVICES

NCM #: 10-09425
NCM Initiated By: Pam Anderson
Date Opened: 02/12/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Sr-85/90 by GPC-7
Lot #'s (Sample #'s): J7A100160 (1,2),
QC Batches: 7016422

Nonconformance: MDA not met
Subcategory: Matrix effect

Problem Description / Root Cause

Name	Date	Description
Pam Anderson	02/12/2007	Sr90 in water samples do not meet CRDL due to high rad screen. The results of these sample are much greater than the MDA>CRDL.

Corrective Action

Name	Date	Corrective Action
Pam Anderson	02/12/2007	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

Date Printed: 2/12/2007

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/8/2007 1:56:51 PM

Lot No., Due Date:	J7A100160,J7A100315,J7A110223; 02/22/2007,02/23/2007
Client, Site:	384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test:	7016424; RGAMMA Gamma by GER
SDG, Matrix:	W05090; WATER

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

6.0 Comments on any No response:
See NCM. 07-09413

First Level Review Pam Anderson Date 2-8-07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7016424
W0509

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

Comments on any "No" response: See NCR

Second Level Review: Sherryl A. Adam Date: 2-9-07

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

Clouseau
Nonconformance Memo

SEVERN TRENT SERVICES

NCM #: 10-09413
NCM Initiated By: Pam Anderson
Date Opened: 02/08/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Gamma by GER
Lot #'s (Sample #'s): J7A100160 (1,2),
QC Batches: 7016424

Nonconformance: MDA not met
Subcategory: Matrix effect

Problem Description / Root Cause

Name	Date	Description
Pam Anderson	02/08/2007	The CRDL is not met on the listed samples. The screening indicated very warm samples and that small aliquots be taken. Nothing shows up on the gamma.
Pam Anderson	02/08/2007	The samples are gamma: JML5D1AE JML5D1AG JML5G1AE.

Corrective Action

Name	Date	Corrective Action
Pam Anderson	02/08/2007	Note in case narrative.
Pam Anderson	02/08/2007	

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 2/8/2007

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/16/2007 11:37:58 AM

Lot No., Due Date:	J7A090191,J7A110138,J7A110201,J7A110223; 02/19/2007,02/23/2007
Client, Site:	384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test:	7016423; RGAMLEPS Gamma by LEPS
SDG, Matrix:	W05090; WATER

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

OK

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

Method Differs => JMKMG1AF LEP<>TB
JMKMG1AD LEP<>TB
JMKML1AD LEP<>TB
JMN051AA LEP<>TB
JMPJX1AC LEP<>TB
JMPJ61AC LEP<>TB
JMPL61AE LEP<>TB
JMXGG1AA LEP<>TB
JMXGG1AC LEP<>TB Q:V6

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

OK

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

OK

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

OK

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

OK

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

Analysis Volume => JMKMG1AD 3.926<4000.00
JMKML1AD 3.949<4000.00
JMN051AA 3.924<4000.00 MC 2-16-07
JMPJX1AC 3.918<4000.00
JMPJ61AC 3.819<4000.00
JMPL61AE 3.917<4000.00 Q:VB

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

Count Geometry => JMKMG1AF I_FA<>IFA
JMKMG1AF I_FA<>IFA
JMKMG1AD I_FA<>IFA OK
JMKMG1AD I_FA<>IFA PA
JMKML1AD I_FA<>IFA 2-16-07
JMKML1AD I_FA<>IFA
JMN051AA I_FA<>IFA
JMN051AA I_FA<>IFA
JMPJX1AC I_FA<>IFA
JMPJX1AC I_FA<>IFA
JMPJ61AC I_FA<>IFA
JMPJ61AC I_FA<>IFA
JMPL61AE I_FA<>IFA
JMPL61AE I_FA<>IFA
JMXGG1AA I_FA<>IFA
JMXGG1AA I_FA<>IFA
JMXGG1AC I_FA<>IFA
JMXGG1AC I_FA<>IFA Q:VC

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

OK

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

OK; No CRDL Found => EU-152

8.1 Comments:

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

No Matrix Blanks (MBlks) found in Batch!

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

OK

8.13 QAS Specified Duplicate Equation Value within Control Limits. — Yes ✓ No N/A

OK (RPD)

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

LCS Exceeds Control Limit => JMXGG1AC EU-152 0 L:70|130 Q:S0

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

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

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

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

8.19 Sample Specific MDC <= CRDL. Yes ✓ No N/A
OK; No CRDL Found => EU-152

8.2 Comments:

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

8.22 Result < Mdc, Activity Not Detected, U Flag. Yes No ✓ N/A
Batch Positive Result =>
JMN051AA I-129L 1.5E+00 L:6.1E-01
JMPJX1AC I-129L 5.4E-01 L:4.8E-01
JMPJ61AC I-129L 1.0E+00 L:5.7E-01
JMPL61AE I-129L 1.2E+00 L:5.4E-01

8.23 Result <= Action Level, when Defined. Yes ✓ No N/A
OK; No Action Level Found => EU-152
I-129L

OK; No Callin Level Found => EU-152
I-129L

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

8.25 Counting Spectrum are within FWHM Limits. Yes No ✓ N/A
FWHM > maxFWHM => JMXGG1AC I-129L 19>0 Q:V1

8.26 Instruments have Current Calibrations. Yes No N/A

8.27 Correct Count Library Used. Yes No N/A
Library Not Specified => JMKMG1AF I:[NUC_LIBR]LEPS.NLB Q:
JMKMG1AD I:[NUC_LIBR]LEPS.NLB Q:
JMKML1AD I:[NUC_LIBR]LEPS.NLB Q:
JMN051AA I:[NUC_LIBR]LEPS.NLB Q:
JMPJX1AC I:[NUC_LIBR]LEPS.NLB Q:
JMPJ61AC I:[NUC_LIBR]LEPS.NLB Q:
JMPL61AE I:[NUC_LIBR]LEPS.NLB Q:
JMXGG1AA I:[NUC_LIBR]LEPS.NLB Q:
JMXGG1AC I:[NUC_LIBR]LEPS.NLB Q:

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

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

8.3 Comments:

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

First Level Review Pam Anderson Date 2-16-07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7016423
W05090

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

Comments on any "No" response:

Second Level Review: Sheryl A Adam Date: 2-20-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

1/30/2007 11:15:27 AM

Lot No., Due Date:	J7A090191,J7A110138,J7A100315,J7A110223; 02/19/2007,02/23/2007
Client, Site:	384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test:	7016429; RTC99 Tc-99 by LSC
SDG, Matrix:	W05090; 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 => JMKML1AF TCSG<>TCSE Q:V9		✓	
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used OK	✓		
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. RPD > UCL : 20.0=> JMKMG1AG TC-99 24.0 (RPD)		✓	
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. OK	✓		
8.17 Tracer within Control Limits. No Tracers found in Batch!			✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!			✓
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK Calc. IDL Not Calculated	✓		
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => TC-99 OK; No Callin Level Found => TC-99	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

8.26 Instruments have Current Calibrations. Yes No N/A

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

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

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

8.3 Comments:

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

First Level Review Pam Anderson Date 1-30-07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7016429
W05090

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. Adams Date: 1-30-07

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

1/26/2007 3:14:54 PM

Lot No., Due Date: J7A100160,J7A100315,J7A110201; 02/22/2007,02/23/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7016419; RTRITIUM H-3 by LSC

SDG, Matrix: W05090; WATER

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

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

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

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

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

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

8.06 At Least the Minimum Sample Volume Was Used — Yes No N/A
Analysis Volume => JML5D1AA 5.00<10.00 — ✓
JML5G1AA 5.00<10.00
JMND21AA 5.00<10.00
JMND51AA 5.00<10.00
JMND71AA 5.00<10.00
JMPJX1AA 5.00<10.00
JMPJ61AA 5.00<10.00 Q:VB

OK
AL 1/26/07

8.07 The Correct Count Geometry was Used. — Yes No N/A
Count Geometry => JMXGA1AF SVP15/5<>SVP10/10 — ✓
JMXGA1AG SVP15/5<>SVP10/10
JMXGA1AA SVP15/5<>SVP10/10
JMXGA1AC SVP15/5<>SVP10/10
JML5D1AA SVP15/5<>SVP10/10
JML5G1AA SVP15/5<>SVP10/10
JMND21AA SVP15/5<>SVP10/10
JMND51AA SVP15/5<>SVP10/10
JMND71AA SVP15/5<>SVP10/10
JMPJX1AA SVP15/5<>SVP10/10
JMPJX1AD SVP15/5<>SVP10/10
JMPJ61AA SVP15/5<>SVP10/10
JMXGA1AH SVP15/5<>SVP10/10
JMXGA1AD SVP15/5<>SVP10/10
JMXGA1AE SVP15/5<>SVP10/10 Q:VC

OK
AL 1/26/07

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

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

8.1 Comments:

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

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

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

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

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

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

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

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

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

8.2 Comments:

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

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

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

OK; No Callin Level Found => H-3

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

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

8.26 Instruments have Current Calibrations.
Yes No N/A

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

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

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

8.3 Comments:

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

First Level Review Angela Long Pam Anderson **Date** 1/26/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7016419
W05090

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

Comments on any "No" response:

Second Level Review: Sheryl A Adam Date: 1-27-07

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

1/29/2007 10:48:13 AM

Lot No., Due Date: J7A110223; 02/23/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7016427; RC14 C-14 by LSC

SDG, Matrix: W05090; 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=> JMPL61AJ C-14 59.0 (RPD) Dups ok <CRDL AL 1/29/07		✓	
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. No Tracers found in Batch!			✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!			✓
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK Calc_IDL Not Calculated	✓		
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => C-14 OK; No Callin Level Found => C-14	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

8.26 Instruments have Current Calibrations. Yes No N/A

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

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

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

8.3 Comments:

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

First Level Review Angela Long Pam Anderson Date 1-29-07
1/29/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7016427
W0J090

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

Comments on any "No" response:

Second Level Review: Sheryl A Adam Date: 1-29-07

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/19/2007 3:17:56 PM

Lot No., Due Date: J7A090153; 02/19/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7016430; RUNAT UNat by KPA

SDG, Matrix: W05090; WATER

1.0 COC

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

2.0 QC Batch

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

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

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

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

3.0 QC & Samples

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

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

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

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

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

4.0 Raw Data

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

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

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

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

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

5.0 Other

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

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

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

5.4 Was transcription checked? Yes ✓ No N/A

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

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 2/19/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7016430
W05090

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

Comments on any "No" response:

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

STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/9/2007 11:21:23 AM

Lot No., Due Date: J7A100315; 02/23/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7016425;

SDG, Matrix: W05090; 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 Paul Anderson Date 2-9-07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7014425
W05090

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 R. Adam Date: 2-20-07

PNNL J7A090153
W05090
Due 02-19-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W07-001-135

Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W07-001	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, JANUARY 2007	HNF-N-506 4	Ice Chest No.: GWO-06-11 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LR82		W	1-5-07	1252	1x20-mL P	Activity Scan	None
B1LR82		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JMJ9X	

Relinquished By	Date/Time	Received By	Date/Time
Print: Fluor Hanford R. T. SICKLE Sign:	1330 JAN 05 2007	Print: Sign: S. Smith S. Smith	1330 JAN 05 2007
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

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

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

STL RICHLAND

94

PNNL J7A090153
W05090
Due 02-19-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-001-136**

Page 1 of 1

Collector Fluor Hanford R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, JANUARY 2007	HNF-N-506 4	**Ice Chest No.** GW0-06-11 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LR83		W	1-5-07	1252	1x20-mL P	Activity Scan	None
B1LR83		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

JMJ95

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Fluor Hanford R. T. SICKLE		1330 JAN 05 2007				1330 JAN 05 2007
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

95

PNNL J7AU90153
W05090
due 02-19-07

STL RICHLAND

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W07-001-141

Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W07-001	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, JANUARY 2007	HNF-N-5064	Ice Chest No.: OWO-06-11 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LR88		W	1-5-07	1104	1x20-mL P	Activity Scan	None
B1LR88		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

JMKAG

Relinquished By	Received By
Print: Fluor Hanford R. T. SICKLE Sign: Date/Time: 1330 JAN 05 2007	Print: S. Smith Sign: S. Smith Date/Time: 1330 JAN 05 2007
Relinquished By Date/Time	Received By Date/Time
Relinquished By Date/Time	Received By Date/Time
Relinquished By Date/Time	Received By Date/Time

Matrix *

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

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

PNNL J7A090153
W05090
Due 02-19-07

STL RICHLAND

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-001-147**

Page 1 of 1

Collector Fluor Hanford R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, JANUARY 2007	HNF-N-506 4	**Ice Chest No.** GW0-06-11 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LR91		W	1-5-07	1136	1x20-mL P	Activity Scan	None
B1LR91		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

JMKAW
~~JMKAW~~ SAK 1-29-07
SAK 1-29-07 ~~JMKAW~~

Relinquished By Fluor Hanford R. T. SICKLE Print Sign	Date/Time 1330 JAN 05 2007	Received By S. Smith Print S. Smith Sign	Date/Time 1330 JAN 05 2007
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

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

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

PNNL J7A090153
W05090
Due 02-19-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-001-153**

Page 1 of 1

Collector Fluor Hanford R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, JANUARY 2007	HNF-N-506 4	**Ice Chest No.** C-LOO-06-11 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LR95		W	1-5-07	0858	1x20-mL P	Activity Scan	None
B1LR95		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

~~JMKAW~~ SAA 1-29-07
JMKA4

Relinquished By Fluor Hanford R. T. SICKLE Print Sign	Date/Time 1330 JAN 05 2007	Received By J. Smith Print J. Smith Sign	Date/Time 1330 JAN 05 2007
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

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

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

SIL RICHLAND

98

PNNL J7A090153
W05090
Due 02/19/07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-001-154**

Page 1 of 1

Collector Fluor Hanford ~~R. T. SICKLE~~	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, JANUARY 2007	HNF-N-506 4	**Ice Chest No.** C-WC-06-11 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LR96		W	1-5-07	0730	1x20-mL P	Activity Scan	None
B1LR96		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

JMKA7

Relinquished By Print ~~Fluor Hanford~~ ~~R. T. SICKLE~~ Sign	Date/Time 1330 1-5-07	Received By Print S. Smith Sign S. Smith	Date/Time 1330 1-5-07
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

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

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

STL RICHLAND

99

PNNL J7A090153
W05090
Due 02-19-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-001-159**

Page 1 of 1

Collector Fluor Hanford R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, JANUARY 2007	HNF-N-506 41	**Ice Chest No.** W0-06-11 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LRB1		W	1-5-07	1018	1x20-mL P	Activity Scan	None
B1LRB1		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JMKA9	

Relinquished By	Received By
Print: Fluor Hanford R. T. SICKLE Sign: Date/Time: JAN 05 2007 1330	Print: A. Smith Sign: S. Smith Date/Time: JAN 05 2007 1330
Relinquished By Date/Time	Received By Date/Time
Relinquished By Date/Time	Received By Date/Time
Relinquished By Date/Time	Received By Date/Time

Matrix *

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

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

STL RICHLAND

100

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 01-05-07 1330

Client: PGW SDG #: W05090 NA [ ] SAF #: W07-001 NA [ ]

Work Order Number: J7A090153 Chain of Custody #: W07-001-135, 136, 154, 155, 159, 147, 141

Shipping Container ID: _____ Air Bill # _____

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

Sample Custodian: S. Smith Date: 01-05-07 1330

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023 9/03, Rev. 5

PNNL J7A090191
W05090
Due 02 19 07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W07-001-17

Page 1 of 1

Collector Fluor Hanford K. B. HULSE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, JANUARY 2007	HNF-N-502-2 p.51	**Ice Chest No.** SAWS-115 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.** N/A

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LRJ6		W	01-05-07	1024	1x20-mL P	Activity Scan	None
B1LRJ6		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1LRJ6		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LRJ6		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

JMKMG

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	K.B Hulse	K.B Hulse	1455 01-05-07		S. Smith	S. Smith	1455 1-5-07
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

102

STL RICHLAND

PNNL J9A090191
W05090
Due 02-19-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-001-18**

Page 1 of 1

Collector	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, JANUARY 2007	HNF-N-506-2 p. 51	**Ice Chest No.** SAWS-115 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.** N/A

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LRJ7		W	01-05-07	0755	1x20-mL P	Activity Scan	None
B1LRJ7		W	01-05-07	0755	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1LRJ7		W	01-05-07	0755	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LRJ7		W	01-05-07	0755	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JMKML	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
KB Hulse	KB Hulse	KB Hulse	1455 01-05-07	S. Smith	S. Smith	S. Smith	1455 1-5-07
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

103

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 01-05-07 14:55

Client: PGW SDG #: W05090 NA [ ] SAF #: WC7-001 NA [ ]

Work Order Number: JTA090191 Chain of Custody #: WC7-001-17, 18

Shipping Container ID: _____ Air Bill # _____

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

Sample Custodian: L. Smith Date: 01-05-07 1455

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

SITE RICHLAND

PNNL J7A100160
W05090
Due 02.22.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # G07-012-62

Page 1 of 1

Collector: Fluor Hanford D. P. CONNOLLY	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: G07-012	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 1NR2-RB, DECEMBER 2006	HNF-N-506-2	Ice Chest No.: AFS-04-~~022~~ 005 CD Temp.: 01-08-07
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LK21 (F)		W	1-8-07	1041	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1LK21 (F)		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1LK21 (F)		W			1x20-mL P	Activity Scan	None
B1LK21 (F)		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LK21 (F)		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						JML 5D	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Fluor Hanford D. P. CONNOLLY		JAN 08 2007 1448		Eric Darby		JAN 08 2007 1448
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

105

STL RICHLAND

PNNL J7A100160
W05090
due 02-22-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # G07-012-63

Page 1 of 1

Collector: Fluor Hanford D. P. CONNOLLY	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: G07-012	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 1NR2-RB, DECEMBER 2006	HNF-N-506-2	Ice Chest No.: AFS-04-005 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LK22 (F)		W	1-8-07	1041	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1LK22 (F)		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1LK22 (F)		W			1x20-mL P	Activity Scan	None
B1LK22 (F)		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LK22 (F)		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						JML 5G	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. P. CONNOLLY			1448 JAN 08 2007		ERIC DAILY		1448 JAN 08 2007
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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SEVERN TRENT STL

Sample Check-in List

Date/Time Received 01 08 07 1448

Client: PGW SDG # W05090 NA [ ] SAF # G07-012 NA

Work Order Number: J7A100160 Chain of Custody # G07-012-62, 63

Shipping Container ID: _____ Air Bill # _____

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

Sample Custodian: L. Smith Date: 01 08 07 1448

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL J7A100166
W05090
Due 02-23-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-001-8

Page 1 of 1

Collector: E. PARCHER	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: S07-001	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JANUARY 2007	HNF-N-506-4	Ice Chest No.: 06-11 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS

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

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

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LNK6		W	1-9-07	1313	1x20-mL P	Activity Scan	None
B1LNK6		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						JML6A	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
E. PARCHER			JAN 0 9 2007 1530	S. Smith		S. Smith	JAN 0 9 2007 1530
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

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PNNL J7A100166
W05090
Due 02-23-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-9**

Page 1 of 1

Collector: Fluor Hanford B. T. SICKLE	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: S07-001	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JANUARY 2007	HNF-N-506.4	Ice Chest No.: 06 11 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LNK7		W	1-9-07	1:73	1x20-mL P	Activity Scan	None
B1LNK7		W	"	"	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						JMLGN	

Relinquished By: Fluor Hanford B. T. SICKLE Print Sign JAN 09 2007 Date/Time 1550	Received By: S. Smith Print Sign JAN 09 2007 Date/Time 1550	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 = Wine; 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

STL RICHLAND

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SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 07.09.07 1530

Client: PGW SDG #: W05090 NA [ ] SAF #: 507-001

Work Order Number: J7A100166 Chain of Custody #: 507-001-8, 9

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing material is: NA [✓] Yes [ ] No [ ]
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 headspace)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed Yes [✓] No [ ]
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers) _____

Sample Custodian: S. Smith Date: 07.09.07 1530

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL J7A100315
W05090
Due 02-23-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-012-32**

Page 1 of 1

Collector D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-012	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, DECEMBER 2006	HNF-N-506 4	**Ice Chest No.** SMIL 442 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LH77		W	1-10-07	1153	1x20-mL P	Activity Scan	None
B1LH77		W	↓	↓	1x500-mL P	9223_COLIFORM: Coliform (1)	Na2S2O3 Cool 4C
B1LH77		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1LH77		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

JMND2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	D. E. PARCHEN		JAN 10 2007 1510		S. Smith	S. Smith	JAN 10 2007 1510
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

SIL RICHLAND

111

PNNL J7A100315
W05290
Due 2-23-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-012-88**

Page 1 of 1

Collector [redacted]	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-012	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, DECEMBER 2006	HNF-N-506 4	**Ice Chest No** SNIL 442 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LHK9		W	1-10-07	1024	1x20-mL P	Activity Scan	None
B1LHK9		W			1x500-mL P	9223_COLIFORM: Coliform (1)	Na2S2O3 Cool 4C
B1LHK9		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1LHK9		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1LHK9		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1LHK9		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LHK9		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JMND5	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
[redacted]			JAN 10 2007 1510		S. Smith	S. Smith	JAN 10 2007 1510
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

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PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W07-012-89

Page 1 of 1

Collector: D. E. PARCHEN	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W07-012	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, DECEMBER 2006	HNF-N-506 4	Ice Chest No.: SML 442 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LHL0		W	1-10-07	0730	1x20-mL P	Activity Scan	None
B1LHL0		W			1x500-mL P	9223_COLIFORM: Coliform (1)	Na2S2O3 Cool 4C
B1LHL0		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1LHL0		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1LHL0		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1LHL0		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LHL0		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JMND7	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. E. PARCHEN			JAN 10 2007 1510		S. Smith	S. Smith	JAN 10 2007 1510
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

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SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 07.10.07 1510

Client: PGW SDG #: W05090 NA [ ] SAF # W07-012 NA [ ]

Work Order Number: J7A100315 Chain of Custody # W07-012-89, 88, 32

Shipping Container ID: _____ Air Bill # _____

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

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

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

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

6. Number of samples in shipping container: 3

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

8. Samples have:
   ____ tape
   ____ custody seals
   ____ hazard labels
   ✓ appropriate samples labels

9. Samples are:
   ✓ in good condition
   ____ broken
   ____ leaking
   ____ have air bubbles
   (Only for samples requiring head space)

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

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

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

13. Description of anomalies (include sample numbers):
    ALL 3 COLIFORM SAMPLES CAME @ 15°C

Sample Custodian: A. Smith Date: 07 10 07 1510
RW 7/11/07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

STL RICHLAND

PNNL JTA110138
W05090
Due 02-23-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-012-24

Page 1 of 1

Collector: D. E. PARCHEN	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: S07-012	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, DECEMBER 2006	HNF-N-506 4	Ice Chest No.: SML 442 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LC65		W	1-10-07	1153	1x20-mL P	Activity Scan	None
B1LC65		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LC65		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1LC65		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

JMN05

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
D. E. PARCHEN / DEP	JAN 1 0 2007 1570	S. Smith / S. Smith	JAN 1 0 2007 1570
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

115

STAVERN TRENT STL

Sample Check-in List

Date/Time Received: 01-10-07 1510

Client: PGW SDG #: W05090 NA [ ] SAF # S07-012 NA [ ]

Work Order Number: J7A110138 Chain of Custody # S07-012-24

Shipping Container ID: _____ Air Bill # _____

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

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

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

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

6 Number of samples in shipping container: 1

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

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

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

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

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

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

13 Description of anomalies (include sample numbers): _____

Sample Custodian: L. Smith Date: 01-10-07 1510

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary: process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev 5

PNNL J1A110201
W05090
Due 02-23-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-012-124**

Page 1 of 1

Collector ~~Fluor Hanford~~ D. R. BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-012	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, DECEMBER 2006	Logbook: HNF-N-506-3	**Ice Chest No.** SMC-438 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LBY7		W	1/10/07	1032	1x20-mL P	Activity Scan	None
B1LBY7		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LBY7		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						JMPJX	

R. Wall 1/10/07

Relinquished By Fluor Hanford D. R. BREWINGTON Print Sign	Date/Time 1541 JAN 10 2007	Received By D. Smith Print S. Smith Sign	Date/Time 1541 JAN 10 2007
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

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

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

STL RICHLAND

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PNNL J7A110201
W05090
Due 02-23-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-012-112

Page 1 of 1

Collector Fluor Hanford D. R. BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-012	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, DECEMBER 2006	logbook: HNF-N-506-3	**Ice Chest No.** SML-438 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LC03		W	1/10/07	1352	1x20-mL P	Activity Scan	None
B1LC03		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LC03		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None

JMPJ6

L. Wall 1/10/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON			JAN 10 2007 54	S. Smith ERIC DARBY	S. Smith	Eric Darby	JAN 10 2007 54
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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STL

Sample Check-in List

Date/Time Received 1/10/07 15:45

Client PGW SDG # W05090 NA [ ] SAF # 507-012 NA [ ]

Work Order Number J7A110201 Chain of Custody # 507-012-112, 124

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: ~~26~~ 2
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   _____ tape
   _____ custody seals
   _____ hazard labels
   ✓ appropriate samples labels
9. Samples are:
   ✓ in good condition
   _____ broken
   _____ leaking
   _____ have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 1/10/07 15:45

Client Sample ID	Analysis Requested	Condition	Comments, Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL J7A110223
W05090
Due 02-23-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I07-009-43

Page 1 of 1

Collector Fluor Hanford F. M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I07-009	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2UP1-LOL NOVEMBER 2006	HNF-N-506-2	**Ice Chest No.** FS-001 **Temp.**
Shipped To (Lab) Severn Trent Incomorated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1L1Y5		W	1/10/7	1042	1x20-mL P	Activity Scan	None
B1L1Y5		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1L1Y5		W			2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1L1Y5		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1L1Y5		W			1x1000-mL G/P	NP237_LLE_PLATE_AEA:Np-237(1)	HNO3 to pH <2
B1L1Y5		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1L1Y5		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JMPL4	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Fluor Hanford F. M. HALL		JAN 10 2007 1400		S. Smith	S. Smith	JAN 10 2007 1400
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S	= Soil	DS	= Drum Solid
SE	= Sediment	DL	= Drum Liqui
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= 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

STH RICHLAND

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SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 01.10.07 1400

Client: PGW SDG #: W05090 NA [ ] SAF # I07-009 NA [ ]

Work Order Number: J7A110233 Chain of Custody # I07-009-43

Shipping Container ID: _____ Air Bill # _____

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

Sample Custodian: S. Smith Date: 01.10.07 1400

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

CS-023, 9/03, Rev 5

STL RICHLAND

1/23/2007 10:00:53 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

KO Np-237 PrpRC5086, SepRC5064(5003)
XW Neptunium-237 with tracer by alpha spec
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 02/23/2007 W05090

Sep1 DT/Tm Tech: 1-24-07 11:16 AM

Batch: 7016426 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: BockJ

Work Ord, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	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 JMPL6-1-AA J7A110223-1-SAMP 01/10/2007 10:42			200.40g,in	200.40g	NPTA6547 12/26/06,pd 06/01/01,r			200				
			AmtRec: 20ML,500ML,6XLP,3X4LP		#Containers: 11				Scr:	Alpha: 4.66E-03 uCi/Sa		Beta: -8.68E-04 uCi/Sa
2 JMPL6-1-AH-X J7A110223-1-DUP 01/10/2007 10:42			200.00g,in	200.00g	NPTA6548 12/26/06,pd 06/01/01,r							
			AmtRec: 20ML,500ML,6XLP,3X4LP		#Containers: 11				Scr:	Alpha: 4.66E-03 uCi/Sa		Beta: -8.68E-04 uCi/Sa
3 JMXGK-1-AA-B J7A160000-426-BLK 01/10/2007 10:42			205.30g,in	205.30g	NPTA6549 12/26/06,pd 06/01/01,r							
			AmtRec:		#Containers: 1				Scr:	Alpha:		Beta:
4 JMXGK-1-AC-C J7A160000-426-LCS 01/10/2007 10:42			200.50g,in	200.50g	NPSE0409 12/06/06,pd 06/01/01,r							
			AmtRec:		#Containers: 1				Scr:	Alpha:		Beta:

39 40 41 42

Comments: PH <2.0 SB 1-23-07

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

JMPL61AA-SAMP Constituent List:
Np-237 RDL:0.6 pCi/L LCL: UCL: RPD:
JMXGK1AA-BLK:
Np-237 RDL:0.6 pCi/L LCL: UCL: RPD:
JMXGK1AC-LCS:

JMPL61AA-SAMP Calc Info:

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STL RICHLAND

1/24/2007 11:26:49 AM

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 02/19/2007 WD5090

Batch: 7016420 WATER pCi/L
SEQ Batch, Test: None

Sample Preparation/Analysis

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

PM, Quote: SA , 57671

Balance Id:1120482733

Pipet #: 235

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ / APA

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JMKMG-1-AA J7A090191-1-SAMP 01/05/2007 10:24		163.20g,in AmtRec: 20ML,500ML,LP,2X4LP #Containers: 5		1.5	35.7	.50	10A	1842	2/8/07 OD Scr: Alpha: 8.29E-04 uCi/Sa Beta: -4.49E-04 uCi/Sa	
2 JMKML-1-AA J7A090191-2-SAMP 01/05/2007 07:55		200.90g,in AmtRec: 20ML,500ML,LP,2X4LP #Containers: 5			0.3	.50	10B		Scr: Alpha: -8.30E-04 uCi/Sa Beta: -1.12E-04 uCi/Sa	
3 JML5D-1-AC J7A100160-1-SAMP 01/08/2007 10:41		31.60g,in AmtRec: 20ML,5XLP,4LP #Containers: 7			10.5	200	10A	1517	2/8/07 Scr: Alpha: 1.66E-02 uCi/Sa 9.8E-02L Beta: 5.39E-02 uCi/Sa 1.5E-02L	
4 JML5G-1-AC J7A100160-2-SAMP 01/08/2007 10:41		30.30g,in AmtRec: 20ML,5XLP,4LP #Containers: 7			8.7	200	10B		Scr: Alpha: 2.15E-02 uCi/Sa 7.5E-02L Beta: 5.19E-02 uCi/Sa 1.6E-02L	
5 JMND5-1-AD J7A100315-2-SAMP 01/10/2007 10:24		143.90g,in AmtRec: 20ML,2X500ML,5XLP,4LP #Containers: 9			38.5	100	10A	1731	2/8/07 OD Scr: Alpha: 1.94E-04 uCi/Sa Beta: 1.06E-03 uCi/Sa	
6 JMND5-1-AJ-X J7A100315-2-DUP 01/10/2007 10:24		144.00g,in AmtRec: 20ML,2X500ML,5XLP,4LP #Containers: 9			34.6	100	10B		Scr: Alpha: 1.94E-04 uCi/Sa Beta: 1.06E-03 uCi/Sa	
7 JMND7-1-AD J7A100315-3-SAMP 01/10/2007 07:30		201.00g,in AmtRec: 20ML,2X500ML,5XLP,4LP #Containers: 9			0.6	.50	10C	1842	Scr: Alpha: 1.89E-04 uCi/Sa Beta: -1.18E-04 uCi/Sa	

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

STL RICHLAND

1/24/2007 11:26:50 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 02/19/2007

Batch: 7016420
SEQ Batch, Test: None

pCi/L

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 JMXGD-1-AA-B J7A160000-420-BLK 01/10/2007 10:24		200.40g,in AmtRec:	#Containers: 1	1.5	0.4	200	10c Scr:	157 Alpha:	2/8/07 Beta:	
9 JMXGD-1-AC-C J7A160000-420-LCS 01/10/2007 10:24		200.40g,in AmtRec:	ASD4112 01/18/07,pd 02/09/06,r #Containers: 1	↓	0.7	200	10d Scr:	/ Alpha:	/ Beta:	

Comments: JML5D-SAMP "Comments. Aliquot reduced due to screening results. JB 01/24/07"
JML5G-SAMP "Comments Aliquot reduced due to screening results. JB 01/24/07"
JMND5-SAMP "Comments. Aliquots reduced due to weight screen activity. JB 01/24/07"
pH <2.0 @1-24-07

1% collodion added to eu. samp. 2/8/07 ASA

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

JMKMG1AA-SAMP Constituent List:

ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
JMXGD1AA-BLK:					
ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
JMXGD1AC-LCS:					
Am-241	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

JMKMG1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JMXGD1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JMXGD1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

STL RICHLAND

1/24/2007 11:12:18 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: 235

AnalyDueDate: 02/19/2007 W05090

Sep1 DT/Tm Tech:

Batch: 7016421 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ / A PA

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JMKMG-1-AC J7A090191-1-SAMP 01/05/2007 10:24	200.70g,in	AmtRec: 20ML,500ML,LP,2X4LP #Containers: 5		1.5	77.9	100	27A	1330	2/8/07 R	Scr: Alpha: 8.29E-04 uCi/Sa Beta: -4.49E-04 uCi/Sa
2 JMKML-1-AC J7A090191-2-SAMP 01/05/2007 07:55	201.10g,in	AmtRec: 20ML,500ML,LP,2X4LP #Containers: 5			0.4	100	27B			Scr: Alpha: -8.30E-04 uCi/Sa Beta: -1.12E-04 uCi/Sa
3 JML5D-1-AD J7A100160-1-SAMP 01/08/2007 10:41	15.40g,in	AmtRec: 20ML,5XLP,4LP #Containers: 7			8.3	200	26A	1510	2/8/07 R	Scr: Alpha: 1.66E-02 uCi/Sa 9.8E-02L Beta: 5.39E-02 uCi/Sa 1.5E-02L
4 JML5G-1-AD J7A100160-2-SAMP 01/08/2007 10:41	16.10g,in	AmtRec: 20ML,5XLP,4LP #Containers: 7			7.9	200	26B			Scr: Alpha: 2.15E-02 uCi/Sa 7.5E-02L Beta: 5.19E-02 uCi/Sa 1.6E-02L
5 JMND5-1-AE J7A100315-2-SAMP 01/10/2007 10:24	200.70g,in	AmtRec: 20ML,2X500ML,5XLP,4LP #Containers: 9			71.9	100	27C	1330	2/8/07 R	Scr: Alpha: 1.94E-04 uCi/Sa Beta: 1.06E-03 uCi/Sa
6 JMND7-1-AE J7A100315-3-SAMP 01/10/2007 07:30	201.00g,in	AmtRec: 20ML,2X500ML,5XLP,4LP #Containers: 9			0.1		27d			Scr: Alpha: 1.89E-04 uCi/Sa Beta: -1.18E-04 uCi/Sa
7 JMND7-1-AJ-X J7A100315-3-DUP 01/10/2007 07:30	200.40g,in	AmtRec: 20ML,2X500ML,5XLP,4LP #Containers: 9			0.1		31A			Scr: Alpha: 1.89E-04 uCi/Sa Beta: -1.18E-04 uCi/Sa

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STL RICHLAND

1/24/2007 11:12:20 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 02/19/2007

Batch: 7016421 pCi/L
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JMXGE-1-AA-B J7A160000-421-BLK 01/10/2007 07:30	AmtRec:	202.60g,in	#Containers: 1	1.5	0.3	200	26c	Scr:	1510 Alpha:	2/8/07 M Beta:
9 JMXGE-1-AC-C J7A160000-421-LCS 01/10/2007 07:30	AmtRec:	200.40g,in	BESB3014 01/23/07,pd 08/08/06,r #Containers: 1		0.3	200	26d	Scr:	Alpha:	Beta:

Comments: JML5D-SAMP "Comments. Aliquot reduced due to screening results. JB 01/23/07"
JML5G-SAMP "Comments Aliquot reduced due to screening results. JB 01/23/07"

pH <2.0 JB 1-24-07

10% collodion added to eq. samp. 2/8/07 APA

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

JMKMG1AC-SAMP Constituent List:

BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
JMXGE1AA-BLK:					
BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
JMXGE1AC-LCS:					
Sr-90	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

JMKMG1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JMXGE1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JMXGE1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

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STL RICHLAND

2/7/2007 4:52:39 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 02/22/2007

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

Balance Id:1120482733

Pipet #: _____

Batch: 7016422 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep1 DT/Tm Tech: 01/30/2007 15:00,ManisD

Sep2 DT/Tm Tech: 02/07/2007 09:00,ManisD

Prep Tech: BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JML5D-1-AF J7A100160-1-SAMP		165.90g,in	SRTB14436 01/18/07,pd 09/11/06,r	0.7084	1.0	23.3	100	7A	70 ~~0644~~ 0800	2/8/07	
						~~01/30/2007 15:00,s1, 02/07/2007~~		7A	0759	2/9/07	
01/08/2007 10:41		AmtRec: 20ML,5XLP,4LP	#Containers: 7					Scr: Alpha: 1.66E-02 uCi/Sa 9.8E-02L Beta: 5.39E-02 uCi/Sa 1.5E-02L			
2 JML5G-1-AF J7A100160-2-SAMP		172.60g,in	SRTB14437 01/18/07,pd 09/11/06,r	0.8089	1.0	24.2	100	7B	70 ~~0644~~ 0800	2/8/07	
						~~01/30/2007 15:00,s1, 02/07/2007~~		7B	0759	2/9/07	
01/08/2007 10:41		AmtRec: 20ML,5XLP,4LP	#Containers: 7					Scr: Alpha: 2.15E-02 uCi/Sa 7.5E-02L Beta: 5.19E-02 uCi/Sa 1.6E-02L			
3 JML6A-1-AA J7A100166-1-SAMP		997.00g,in	SRTB14438 01/18/07,pd 09/11/06,r	0.8457	1.0	24.1	100	1A	0644	2/8/07	
						~~01/30/2007 15:00,s1, 02/07/2007~~		1A	0643	2/9/07	
01/09/2007 13:13		AmtRec: 20ML,3XLP	#Containers: 4					Scr: Alpha: 4.19E-04 uCi/Sa		Beta: 7.11E-05 uCi/Sa	
4 JML6A-1-AC-X J7A100166-1-DUP		993.50g,in	SRTB14439 01/18/07,pd 09/11/06,r	0.9265	1.0	21.9	100	1B	0644	2/8/07	
						~~01/30/2007 15:00,s1, 02/07/2007~~		7B	0643	2/9/07	
01/09/2007 13:13		AmtRec: 20ML,3XLP	#Containers: 4					Scr: Alpha: 4.19E-04 uCi/Sa		Beta: 7.11E-05 uCi/Sa	

STL RICHLAND

2/7/2007 4:52:41 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 02/22/2007

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

Batch: 7016422 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Balance Id:1120482733

Pipet #: _____

Sep1 DT/Tm Tech: 01/30/2007 15:00,ManisD

Sep2 DT/Tm Tech: 02/07/2007 09:00,ManisD

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
5 JML6N-1-AA J7A100166-2-SAMP		1006.20g,in	SRTB14440 01/18/07,pd 09/11/06,r	0.7476 ~~0.7684~~	1.0	24.6	100	1C 7C	Dey4 Dey3	2/8/07 2/9/07	
						~~01/30/2007 15:00,s1, 02/07/2007~~					
01/09/2007 07:30		AmtRec: 20ML,3XLP	#Containers: 4					Scr:	Alpha: -4.75E-04 uCi/Sa	Beta: 1.42E-04 uCi/Sa	
6 JMND5-1-AG J7A100315-2-SAMP		1007.50g,in	SRTB14441 01/18/07,pd 09/11/06,r	0.8513 ~~0.8089~~	1.0	24.5	100	1D 1A	Dey4 Dey3	2/8/07 2/9/07	
						~~01/30/2007 15:00,s1, 02/07/2007~~					
01/10/2007 10:24		AmtRec: 20ML,2X500ML,5XLP,4LP	#Containers: 9					Scr:	Alpha: 1.94E-04 uCi/Sa	Beta: 1.06E-03 uCi/Sa	
7 JMND7-1-AG J7A100315-3-SAMP		1004.90g,in	SRTB14442 01/18/07,pd 09/11/06,r	0.7049 ~~0.8407~~	1.0	24.7	100	2A 1B	Dey4 Dey3	2/8/07 2/9/07	
						~~01/30/2007 15:00,s1, 02/07/2007~~					
01/10/2007 07:30		AmtRec: 20ML,2X500ML,5XLP,4LP	#Containers: 9					Scr:	Alpha: 1.89E-04 uCi/Sa	Beta: -1.18E-04 uCi/Sa	
8 JMN05-1-AC J7A110138-1-SAMP		1004.40g,in	SRTB14443 01/18/07,pd 09/11/06,r	0.8850 ~~0.9269~~	1.0	23.9	100	2B 1C	Dey4 Dey3	2/8/07 2/9/07	
						~~01/30/2007 15:00,s1, 02/07/2007~~					
01/10/2007 11:53		AmtRec: 20ML,500ML,3XLP,2X4LP	#Containers: 7					Scr:	Alpha: -1.63E-03 uCi/Sa	Beta: 2.05E-03 uCi/Sa	

1.28

STL RICHLAND

2/7/2007 4:52:41 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 02/22/2007

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

Balance Id:1120482733

Pipet #: _____

Sep1 DT/Tm Tech: 01/30/2007 15:00,ManisD

Sep2 DT/Tm Tech: 02/07/2007 09:00,ManisD

Prep Tech: BockJ

Batch: 7016422 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
9 JMPL6-1-AF J7A110223-1-SAMP		1002.80g,in	SRTB14444 01/18/07,pd 09/11/06,r	0.8810 ~~0.7470~~	1.0	24.7	100	2C 1D	0644 0643	2/8/07 2/9/07	
							~~01/30/2007 15:00,s1, 02/07/2007~~				
01/10/2007 10:42		AmtRec: 20ML,500ML,6XLP,3X4LP	#Containers: 11					Scr:	Alpha: 4.66E-03 uCi/Sa		Beta: -8.68E-04 uCi/Sa
10 JMXGF-1-AA-B J7A160000-422-BLK		1000.20g,in	SRTB14445 01/18/07,pd 09/11/06,r	0.7676 ~~0.8513~~	1.0	24	100	2D 2A	0644 0643	2/8/07 2/9/07	
							~~01/30/2007 15:00,s1, 02/07/2007~~				
01/09/2007 13:13		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:
11 JMXGF-1-AC-C J7A160000-422-LCS		1000.70g,in	SRSG1307 12/20/06,pd 09/11/06,r	0.8813	1.0	24	100	3A 2D	0644 0643	2/8/07 2/9/07	
							~~01/30/2007 15:00,s1, 02/07/2007~~				
01/09/2007 13:13		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:

Comments: JML5D-SAMP "Comments. Aliquots reduced due to screening results. JB 01/24/07"
JML5G-SAMP "Comments Aliquot reduced due to screening results. JB 01/24/07"
JMND5-SAMP "Comments. "

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

STL RICHLAND

1/24/2007 1:56:48 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #:

AnalyDueDate: 02/22/2007 W05090

Batch: 7016424 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

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

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JML5D-1-AE J7A100160-1-SAMP 01/08/2007 10:41		97.10g,in AmtRec: 20ML,5XLP,4LP #Containers: 7			100 mL	100	64	0657	2/8/07	Scr: Alpha: 1.66E-02 uCi/Sa 9.8E-02L Beta: 5.39E-02 uCi/Sa 1.5E-02L
2 JML5D-1-AG-X J7A100160-1-DUP 01/08/2007 10:41		104.10g,in AmtRec: 20ML,5XLP,4LP #Containers: 7					65	0651		Scr: Alpha: 1.66E-02 uCi/Sa 9.8E-02L Beta: 5.39E-02 uCi/Sa 1.5E-02L
3 JML5G-1-AE J7A100160-2-SAMP 01/08/2007 10:41		98.60g,in AmtRec: 20ML,5XLP,4LP #Containers: 7					66	0652		Scr: Alpha: 2.15E-02 uCi/Sa 7.5E-02L Beta: 5.19E-02 uCi/Sa 1.6E-02L
4 JMND2-1-AD J7A100315-1-SAMP 01/10/2007 11:53		2000.70g,in AmtRec: 20ML,500ML,LP,4LP #Containers: 4					67	0652		Scr: Alpha: 1.30E-04 uCi/Sa Beta: 5.16E-08 uCi/Sa
5 JMND5-1-AF J7A100315-2-SAMP 01/10/2007 10:24		2000.20g,in AmtRec: 20ML,2X500ML,5XLP,4LP #Containers: 9					68	0652		Scr: Alpha: 1.94E-04 uCi/Sa Beta: 1.06E-03 uCi/Sa
6 JMND7-1-AF J7A100315-3-SAMP 01/10/2007 07:30		1999.90g,in AmtRec: 20ML,2X500ML,5XLP,4LP #Containers: 9					64	0834	2/8/07	Scr: Alpha: 1.89E-04 uCi/Sa Beta: -1.18E-04 uCi/Sa
7 JMPL6-1-AD J7A110223-1-SAMP 01/10/2007 10:42		2000.20g,in AmtRec: 20ML,500ML,6XLP,3X4LP #Containers: 11					66	0835		Scr: Alpha: 4.66E-03 uCi/Sa Beta: -8.68E-04 uCi/Sa

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

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STL RICHLAND

1/24/2007 1:56:50 PM

Sample Preparation/Analysis

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

Balance Id:1120482733
Pipet #:

AnalyDueDate: 02/22/2007

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

Batch: 7016424 pCi/L
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JMXGH-1-AA-B J7A160000-424-BLK 01/08/2007 10:41	AmtRec:	2000.30g,in	#Containers: 1		100 mL	100	67	0835	1/8/07	Scr: Alpha: Beta:
9 JMXGH-1-AC-C J7A160000-424-LCS 01/08/2007 10:41	AmtRec:	2001.90g,in	QCAG1328 01/09/07,pd 03/07/05,r #Containers: 1				68	0835		Scr: Alpha: Beta:

Comments: JML5D-SAMP "Comments. Aliquots reduced due to screening results. JB 01/24/07"
JML5G-SAMP "Comments Aliquot reduced due to screening results. JB 01/24/07"
~~JMND5-SAMP "Comments. "~~

pH <2.0 JB 1-24-07

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

JML5D1AE-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:

JMXGH1AA-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:

JMXGH1AC-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						

STL RICHLAND

2/2/2007 11:12:59 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #:

AnalyDueDate: 02/19/2007 W05090

Sep1 DT/Tm Tech:

Batch: 7016423 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JMKMG-1-AD J7A090191-1-SAMP 01/05/2007 10:24		3926.50g,in	ITA5999 01/17/07		36.0	100	L2	1358	2/15/07 r	
		AmtRec: 20ML,500ML,LP,2X4LP	#Containers: 5				Scr:	Alpha: 8.29E-04 uCi/Sa	Beta: -4.49E-04 uCi/Sa	
2 JMKMG-1-AF-X J7A090191-1-DUP 01/05/2007 10:24		3934.60g,in	ITA6000 01/17/07		35.3		L4	1356	2/15/07 r	
		AmtRec: 20ML,500ML,LP,2X4LP	#Containers: 5				Scr:	Alpha: 8.29E-04 uCi/Sa	Beta: -4.49E-04 uCi/Sa	
3 JMKML-1-AD J7A090191-2-SAMP 01/05/2007 07:55		3948.80g,in	ITA6001 01/17/07		35.6		L5	1357	2/15/07 r	
		AmtRec: 20ML,500ML,LP,2X4LP	#Containers: 5				Scr:	Alpha: -8.30E-04 uCi/Sa	Beta: -1.12E-04 uCi/Sa	
4 JMN05-1-AA J7A110138-1-SAMP 01/10/2007 11:53		3923.60g,in	ITA6002 01/17/07		34.7		L2	1551	2/15/07 r	
		AmtRec: 20ML,500ML,3XLP,2X4LP	#Containers: 7				Scr:	Alpha: -1.63E-03 uCi/Sa	Beta: 2.05E-03 uCi/Sa	
5 JMPJX-1-AC J7A110201-1-SAMP 01/10/2007 10:32		3918.00g,in	ITA6003 01/17/07		36.0		L4	1552	2/15/07 r	
		AmtRec: 20ML,LP,2X4LP	#Containers: 4				Scr:	Alpha: 9.57E-04 uCi/Sa	Beta: 5.32E-04 uCi/Sa	
6 JMPJ6-1-AC J7A110201-2-SAMP 01/10/2007 13:52		3819.40g,in	ITA6004 01/17/07		35.2		L5	1553	2/15/07	
		AmtRec: 20ML,LP,2X4LP	#Containers: 4				Scr:	Alpha: -7.17E-04 uCi/Sa	Beta: 8.47E-04 uCi/Sa	
7 JMPL6-1-AE J7A110223-1-SAMP 01/10/2007 10:42		3917.00g,in	ITA6005 01/17/07		34.6		L2	1844	2/15/07 r	
		AmtRec: 20ML,500ML,6XLP,3X4LP	#Containers: 11				Scr:	Alpha: 4.66E-03 uCi/Sa	Beta: -8.68E-04 uCi/Sa	

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

STL RICHLAND

2/2/2007 11:13:01 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 02/19/2007

Batch: 7016423 pCi/L
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JMXGG-1-AA-B J7A160000-423-BLK 01/05/2007 10:24	AmtRec:	4003.40g,in	ITA6006 01/17/07	#Containers: 1	35.5	100	L4	1845	2/15/07 010 Scr: Alpha:	Beta:
9 JMXGG-1-AC-C J7A160000-423-LCS 01/05/2007 10:24	AmtRec:	4000.10g,in	ISD0724 12/20/06	#Containers: 1	38.3	1	L5	1846	Scr: Alpha:	Beta:

Comments: PH - neutral JB 2-2-07

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

JMKMG1AD-SAMP Constituent List:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:
JMXGG1AA-BLK:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:
JMXGG1AC-LCS:
I-129 RDL:5 pCi/L LCL:70 UCL:130 RPD:20

JMKMG1AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JMXGG1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JMXGG1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

STL RICHLAND

1/23/2007 9:47:15 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 02/19/2007 W05090

Batch: 7016429 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JMKMG-1-AE J7A090191-1-SAMP 01/05/2007 10:24			126.70g,in	126.70g		60				
	AmtRec: 20ML,500ML,LP,2X4LP	#Containers: 5						Scr:	Alpha: 8.29E-04 uCi/Sa	Beta: -4.49E-04 uCi/Sa
2 JMKMG-1-AG-X J7A090191-1-DUP 01/05/2007 10:24			126.00g,in	126.00g						
	AmtRec: 20ML,500ML,LP,2X4LP	#Containers: 5						Scr:	Alpha: 8.29E-04 uCi/Sa	Beta: -4.49E-04 uCi/Sa
3 JMKML-1-AE J7A090191-2-SAMP 01/05/2007 07:55			125.00g,in	125.00g						
	AmtRec: 20ML,500ML,LP,2X4LP	#Containers: 5						Scr:	Alpha: -8.30E-04 uCi/Sa	Beta: -1.12E-04 uCi/Sa
4 JMKML-1-AF-S J7A090191-2-MS 01/05/2007 07:55			125.30g,in	125.30g	TCSG1759 01/03/07,pd 01/10/06,r					
	AmtRec: 20ML,500ML,LP,2X4LP	#Containers: 5						Scr:	Alpha: -8.30E-04 uCi/Sa	Beta: -1.12E-04 uCi/Sa
5 JMND5-1-AH J7A100315-2-SAMP 01/10/2007 10:24			125.00g,in	125.00g						
	AmtRec: 20ML,2X500ML,5XLP,4LP	#Containers: 9						Scr:	Alpha: 1.94E-04 uCi/Sa	Beta: 1.06E-03 uCi/Sa
6 JMND7-1-AH J7A100315-3-SAMP 01/10/2007 07:30			125.30g,in	125.30g						
	AmtRec: 20ML,2X500ML,5XLP,4LP	#Containers: 9						Scr:	Alpha: 1.89E-04 uCi/Sa	Beta: -1.18E-04 uCi/Sa
7 JMN05-1-AD J7A110138-1-SAMP 01/10/2007 11:53			125.60g,in	125.60g						
	AmtRec: 20ML,500ML,3XLP,2X4LP	#Containers: 7						Scr:	Alpha: -1.63E-03 uCi/Sa	Beta: 2.05E-03 uCi/Sa

STL RICHLAND

1/23/2007 9:47:16 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: _____

AnalyDueDate: 02/19/2007

Batch: 7016429 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

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

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JMPL6-1-AG J7A110223-1-SAMP 01/10/2007 10:42			125.60g,in	125.60g		60				
	AmtRec: 20ML,500ML,6XLP,3X4LP		#Containers: 11					Scr:	Alpha: 4.66E-03 uCi/Sa	Beta: -8.68E-04 uCi/Sa
9 JMXGM-1-AA-B J7A160000-429-BLK 01/05/2007 10:24			125.70g,in	125.70g						
	AmtRec:		#Containers: 1					Scr:	Alpha:	Beta:
10 JMXGM-1-AC-C J7A160000-429-LCS 01/05/2007 10:24			127.30g,in	127.30g	TCSE2059 12/20/06,pd 01/10/06,r					
	AmtRec:		#Containers: 1					Scr:	Alpha:	Beta:
11 JMXGM-1-AD-BN J7A160000-429-IBLK 01/05/2007 10:24										
	AmtRec:		#Containers: 1					Scr:	Alpha:	Beta:

Comments: PH <2-0 JB 1-23-07

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

JMKMG1AE-SAMP Constituent List:

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

JMKML1AF-MS:

JMXGM1AA-BLK:

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

JMXGM1AC-LCS:

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

STL RICHLAND

1/16/2007 3:35:43 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id: 12445
Pipet #:

AnalyDueDate: 02/22/2007 W05090

Sep1 DT/Tm Tech: 1-22-07 am

Batch: 7016419 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

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 JML5D-1-AA J7A100160-1-SAMP 01/08/2007 10:41	AmtRec: 20ML,5XLP,4LP	#Containers: 7				Scr:	Alpha:	Beta:
2 JML5G-1-AA J7A100160-2-SAMP 01/08/2007 10:41	AmtRec: 20ML,5XLP,4LP	#Containers: 7				Scr:	Alpha:	Beta:
3 JMND2-1-AA J7A100315-1-SAMP 01/10/2007 11:53	AmtRec: 20ML,500ML,LP,4LP	#Containers: 4				Scr:	Alpha:	Beta:
4 JMND5-1-AA J7A100315-2-SAMP 01/10/2007 10:24	AmtRec: 20ML,2X500ML,5XLP,4LP	#Containers: 9				Scr:	Alpha:	Beta:
5 JMND7-1-AA J7A100315-3-SAMP 01/10/2007 07:30	AmtRec: 20ML,2X500ML,5XLP,4LP	#Containers: 9				Scr:	Alpha:	Beta:
6 JMPJX-1-AA J7A110201-1-SAMP 01/10/2007 10:32	AmtRec: 20ML,LP,2X4LP	#Containers: 4				Scr:	Alpha:	Beta:
7 JMPJX-1-AD-X J7A110201-1-DUP 01/10/2007 10:32	AmtRec: 20ML,LP,2X4LP	#Containers: 4				Scr:	Alpha:	Beta:

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STL RICHLAND

1/16/2007 3:35:45 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 02/22/2007

Batch: 7016419 **WATER** **pCi/L** **PM, Quote: SA , 57671**
SEQ Batch, Test: None

Balance Id: 12425
Pipet #:
Sep1 DT/Tm Tech: 1-22 0 Bm
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 JMPJ6-1-AA J7A110201-2-SAMP 01/10/2007 13:52		AmtRec: 20ML,LP,2X4LP	#Containers: 4			Scr:	Alpha:	Beta:
9 JMXGA-1-AA-B J7A160000-419-BLK 01/10/2007 10:32		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
10 JMXGA-1-AC-C J7A160000-419-LCS 01/10/2007 10:32		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
11 JMXGA-1-AD-BX J7A160000-419-MBLK 01/10/2007 10:32		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
12 JMXGA-1-AE-CM J7A160000-419-MLCS 01/10/2007 10:32		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
13 JMXGA-1-AF-BN J7A160000-419-IBLK 01/10/2007 10:32		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
14 JMXGA-1-AG-BN J7A160000-419-IBLK 01/10/2007 10:32		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

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STL RICHLAND

1/16/2007 3:35:54 PM

Sample Preparation/Analysis

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

AnalyDueDate: 02/22/2007

Batch: 7016419
SEQ Batch, Test: None

pCi/L

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 1-22 07 tm
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 JMXGA-1-AH-BN								
J7A160000-419-IBLK								
01/10/2007 10:32	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Comments:

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

JML5D1AA-SAMP Constituent List:

H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20
JMXGA1AA-BLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:
JMXGA1AC-LCS:					
H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20
JMXGA1AD-MBLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:
JMXGA1AE-MLCS:					
H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20
JMXGA1AF-IBLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:
JMXGA1AG-IBLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:
JMXGA1AH-IBLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:

JML5D1AA-SAMP Calc Info:

Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
JMXGA1AA-BLK:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
JMXGA1AC-LCS:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
JMXGA1AD-MBLK:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
JMXGA1AE-MLCS:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B

1/16/2007 3:35:55 PM

Sample Preparation/Analysis

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

AnalyDueDate: 02/22/2007

Batch: 7016419
SEQ Batch, Test: None

pCi/L

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:

```
JMXGA1AF-IBLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JMXGA1AG-IBLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JMXGA1AH-IBLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

STL RICHLAND

1/16/2007 3:36:29 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 02/23/2007 WO5390

5S C-14 Prp/SepRC5022
S3 Carbon-14 by Liquid Scint
5I CLIENT: HANFORD

Balance Id: N/A
Pipet #:
Sep1 DT/Tm Tech: 1-16 0 7pm
Sep2 DT/Tm Tech:
Prep Tech:

Batch: 7016427 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

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 JMPL6-1-AC J7A110223-1-SAMP 01/10/2007 10:42	AmtRec: 20ML,500ML,6XLP,3X4LP	#Containers: 11				Scr:	Alpha:	Beta:
2 JMPL6-1-AJ-X J7A110223-1-DUP 01/10/2007 10:42	AmtRec: 20ML,500ML,6XLP,3X4LP	#Containers: 11				Scr:	Alpha:	Beta:
3 JMXGL-1-AA-B J7A160000-427-BLK 01/10/2007 10:42	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
4 JMXGL-1-AC-C J7A160000-427-LCS 01/10/2007 10:42	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
5 JMXGL-1-AD-BN J7A160000-427-IBLK 01/10/2007 10:42	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Comments:

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

JMPL61AC-SAMP Constituent List:
C-14 RDL:2.00E+02 pCi/L LCL:70 UCL:130 RPD:20

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

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1/16/2007 3:36:35 PM

Sample Preparation/Analysis

5S C-14 Prp/SepRC5022
S3 Carbon-14 by Liquid Scint
5I CLIENT: HANFORD

AnalyDueDate: 02/23/2007

Batch: 7016427 pCi/L
SEQ Batch, Test: None

Balance Id: N/A
Pipet #:
Sep1 DT/Tm Tech: 1-26 0 Tam
Sep2 DT/Tm Tech:
Prep Tech:

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

```
JMXGL1AA-BLK:
  C-14        RDL:2.00E+02   pCi/L   LCL:      UCL:      RPD:
JMXGL1AC-LCS:
  C-14        RDL:200        pCi/L   LCL:70    UCL:130   RPD:20
JMXGL1AD-IBLK:
  C-14        RDL:2.00E+02   pCi/L   LCL:      UCL:      RPD:
JMPL61AC-SAMP Calc Info:
     Uncert Level (#s).: 2   Decay to SaDt: Y   Blk Subt.: N   Sci.Not.: Y   ODRs: B
JMXGL1AA-BLK:
     Uncert Level (#s).: 2   Decay to SaDt: Y   Blk Subt.: N   Sci.Not.: Y   ODRs: B
JMXGL1AC-LCS:
     Uncert Level (#s).: 2   Decay to SaDt: Y   Blk Subt.: N   Sci.Not.: Y   ODRs: B
JMXGL1AD-IBLK:
     Uncert Level (#s).: 2   Decay to SaDt: Y   Blk Subt.: N   Sci.Not.: Y   ODRs: B
```

Approved By _____ Date: _____

STL RICHLAND

1/25/2007 8:33:07 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 02/19/2007 W05090

Sep1 DT/Tm Tech:

Batch: 7016430 WATER ug/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JMJ9X-1-AA J7A090153-1-SAMP 01/05/2007 12:52		25.60g,in AmtRec: 20ML,500MLP	#Containers: 2				Scr: Alpha: 8.99E-05 uCi/Sa	Beta: -1.18E-05 uCi/Sa
2 JMJ9X-1-AC-X J7A090153-1-DUP 01/05/2007 12:52		26.50g,in AmtRec: 20ML,500MLP	#Containers: 2				Scr: Alpha: 8.99E-05 uCi/Sa	Beta: -1.18E-05 uCi/Sa
3 JMJ95-1-AA J7A090153-2-SAMP 01/05/2007 12:52		26.30g,in AmtRec: 20ML,500MLP	#Containers: 2				Scr: Alpha: 5.67E-05 uCi/Sa	Beta: -3.55E-05 uCi/Sa
4 JMJ95-1-AC-S J7A090153-2-MS 01/05/2007 12:52		25.40g,in AmtRec: 20ML,500MLP	unsf3565 01/23/07,pd 03/22/05,r #Containers: 2				Scr: Alpha: 5.67E-05 uCi/Sa	Beta: -3.55E-05 uCi/Sa
5 JMKAG-1-AA J7A090153-3-SAMP 01/05/2007 11:04		26.70g,in AmtRec: 20ML,500MLP	#Containers: 2				Scr: Alpha: 1.25E-04 uCi/Sa	Beta: -4.14E-05 uCi/Sa
6 JMKAW-1-AA J7A090153-4-SAMP 01/05/2007 11:36		27.40g,in AmtRec: 20ML,500MLP	#Containers: 2				Scr: Alpha: 3.42E-05 uCi/Sa	Beta: 1.18E-05 uCi/Sa
7 JMKA4-1-AA J7A090153-5-SAMP 01/05/2007 08:58		25.60g,in AmtRec: 20ML,500MLP	#Containers: 2				Scr: Alpha: 1.66E-04 uCi/Sa	Beta: -2.97E-05 uCi/Sa

STL RICHLAND

1/25/2007 8:33:09 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 02/19/2007

Sep1 DT/Tm Tech:

Batch: 7016430 WATER ug/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JMKA7-1-AA J7A090153-6-SAMP 01/05/2007 07:30		25.40g,in AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: -1.24E-06 uCi/Sa	Beta: -1.77E-05 uCi/Sa
9 JMKA9-1-AA J7A090153-7-SAMP 01/05/2007 10:18		25.90g,in AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: 2.98E-05 uCi/Sa	Beta: 2.97E-05 uCi/Sa
10 JMXGN-1-AA-B J7A160000-430-BLK 01/05/2007 12:52		25.70g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
11 JMXGN-1-AC-C J7A160000-430-LCS 01/05/2007 12:52		25.10g,in AmtRec:	unsf3566 01/23/07,pd 03/22/05,r #Containers: 1			Scr:	Alpha:	Beta:
12 JMXGN-1-AD-C J7A160000-430-LCS 01/05/2007 12:52		25.20g,in AmtRec:	unsc1474 12/18/06,pd 04/28/06,r #Containers: 1			Scr:	Alpha:	Beta:

Comments: PH <2.0 JB 1-25-07

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

JMJ9X1AA-SAMP Constituent List:

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

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

2/9/2007 11:15:26 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 02/23/2007 1150290

Batch: 7016425 WATER
SEQ Batch, Test: None

PM, Quote: SA , 57671

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

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JMND2-1-AC J7A100315-1-SAMP 01/10/2007 11:53	AmtRec: 20ML,500ML,LP,4LP	#Containers: 4				Scr:	Alpha: 1.30E-04 uCi/Sa	Beta: 5.16E-08 uCi/Sa
2 JMND5-1-AC J7A100315-2-SAMP 01/10/2007 10:24	AmtRec: 20ML,2X500ML,5XLP,4LP	#Containers: 9				Scr:	Alpha: 1.94E-04 uCi/Sa	Beta: 1.06E-03 uCi/Sa
3 JMND7-1-AC J7A100315-3-SAMP 01/10/2007 07:30	AmtRec: 20ML,2X500ML,5XLP,4LP	#Containers: 9				Scr:	Alpha: 1.89E-04 uCi/Sa	Beta: -1.18E-04 uCi/Sa
4 JMND7-1-AK-X J7A100315-3-DUP 01/10/2007 07:30	AmtRec: 20ML,2X500ML,5XLP,4LP	#Containers: 9				Scr:	Alpha: 1.89E-04 uCi/Sa	Beta: -1.18E-04 uCi/Sa
5 JMXGJ-1-AA-B J7A160000-425-BLK 01/10/2007 11:53	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
6 JMXGJ-1-AC-C J7A160000-425-LCS 01/10/2007 11:53	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

STL RICHLAND

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SEVERN TRENT STL

Coliform Data Log

Sample Received 1-10-07

Sample ID	Workorder	Incubation Date/Time	End Growth Date/Time	Color Y/N	Float Y/N	#Wells Large	#Wells Small	MPN
BILHR9		1-10-07 1551	1-11-07 1500	N		0	0	
BILH77		1551		N		0	0	
BIL HLO		1555		N		0	0	
BILHLO-X		1555		N		0	0	
BIK		1557		N		0	0	
SPK		1557		Y		2	2	

DM 1-11-07

	Value	Initials	Date	Comments
Refrigerator Temperature	5°C	DM	1-10-07	Sample recieved 15°C !
Incubator Temp	35.3			
Volume	100ml			

GC-221, 3/05, Rev. 0

005

2/9/2007 11:15:31 AM

Sample Preparation/Analysis

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

AnalyDueDate: 02/23/2007

Batch: 7016425
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: JMND5-SAMP "Comments. "

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

JMND21AC-SAMP Constituent List:

JMXGJ1AA-BLK:

JMXGJ1AC-LCS:

JMND21AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JMXGJ1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JMXGJ1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

1/29/2007 9:25:05 AM

ICOC Fraction Transfer/Status Report

ByDate: 1/29/2006, 2/3/2007, Batch: '7016426', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7016426						
AC		CalcC	BockJ	1/23/2007 9:55:37		
SC			wagarr	IsBatched	1/16/2007 3:40:15 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	1/23/2007 9:55:37 AM	RICH-RC-5016 Revision 6
SC			BockJ	Prep1C	1/23/2007 10:01:04 AM	RICH-RC-5016 REVISION 6
SC			FABREM	Sep1C	1/24/2007 12:52:58 PM	RICH-RC-5064 REVISION 5
SC			FABREM	Sep2C	1/24/2007 2:33:48 PM	RICH-RC-5003 REV 5
SC			DAWKINSO	InCnt1	1/24/2007 3:40:18 PM	RICH-RD-0008 REVISION 4
SC			DAWKINSO	CalcC	1/24/2007 8:36:35 PM	RICH-RD-0008 REVISION 4
AC			BockJ	1/23/2007 10:01:04		
AC			FABREM	1/24/2007 12:52:58		
AC			FABREM	1/24/2007 2:33:48 PM		
AC			DAWKINSO	1/24/2007 3:40:18 PM		
AC			DAWKINSO	1/24/2007 8:36:35 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.26

2/9/2007 9:25:02 AM

ICOC Fraction Transfer/Status Report

ByDate: 2/9/2006, 2/14/2007, Batch: '7016420', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7016420						
AC		CalcC	BockJ	1/24/2007 11:13:16		
SC			wagarr	IsBatched	1/16/2007 3:40:15 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	1/24/2007 11:13:16 AM	rich-rc-5014 rEVISION 6
SC			BockJ	Prep1C	1/24/2007 11:27:02 AM	RICH-RC-5014 REVISION 6
SC			AshworthA	InPrep2	1/31/2007 1:06:06 PM	RICH-RC-5014 REVISION 6
SC			AshworthA	Prep2C	2/8/2007 11:35:05 AM	RICH-RC-5014 REVISION 6
SC			StringerR	InCnt1	2/8/2007 11:41:31 AM	RICH-RD-0003 REVISION 4
SC			DAWKINSO	CalcC	2/8/2007 8:46:10 PM	RICH-RD-0003 REVISION 4
AC			BockJ	1/24/2007 11:27:02		
AC			AshworthA	1/31/2007 1:06:06 PM		
AC			AshworthA	2/8/2007 11:35:05		
AC			StringerR	2/8/2007 11:41:31		
AC			DAWKINSO	2/8/2007 8:46:10 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.26

2/9/2007 9:25:23 AM

ICOC Fraction Transfer/Status Report

ByDate: 2/9/2006, 2/14/2007, Batch: '7016421', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7016421						
AC		CalcC	BockJ	1/24/2007 11:00:25		
SC			wagarr	IsBatched	1/16/2007 3:40:15 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	1/24/2007 11:00:25 AM	rich-rc-5014 rEVISION 6
SC			BockJ	Prep1C	1/24/2007 11:12:33 AM	RICH-RC-5014 REVISION 6
SC			AshworthA	InPrep2	1/31/2007 1:05:58 PM	RICH-RC-5014 REVISION 6
SC			AshworthA	Prep2C	2/8/2007 11:35:15 AM	RICH-RC-5014 REVISION 6
SC			StringerR	InCnt1	2/8/2007 11:41:41 AM	RICH-RD-0003 REVISION 4
SC			DAWKINSO	CalcC	2/8/2007 8:46:05 PM	RICH-RD-0003 REVISION 4
AC			BockJ	1/24/2007 11:12:33		
AC			AshworthA	1/31/2007 1:05:58 PM		
AC			AshworthA	2/8/2007 11:35:15		
AC			StringerR	2/8/2007 11:41:41		
AC			DAWKINSO	2/8/2007 8:46:05 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.26

2/12/2007 9:07:39 AM

ICOC Fraction Transfer/Status Report

ByDate: 2/12/2006, 2/17/2007, Batch: '7016422', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7016422						
AC		CalcC	BockJ	1/23/2007 3:17:40 PM		
SC			wagarr	IsBatched	1/16/2007 3:40:15 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	1/23/2007 3:17:40 PM	RICH-RC-5016 Revision 6
SC			BockJ	Prep1C	1/23/2007 3:38:23 PM	RICH-RC-5016 REVISION 6
SC			ManisD	InSep1	1/24/2007 8:07:38 AM	RICH-RC-5006 REV 6
SC			ManisD	Sep1C	1/30/2007 4:36:22 PM	RICH-RC-5006 REV 6
SC			DAWKINSO	InCnt1	1/30/2007 4:43:08 PM	RICH-RD-0007 REVISION 5
SC			BlackCL	Cnt1C	1/31/2007 6:19:15 AM	RICH-RD-0007 REVISION 5
SC			ManisD	Sep2C	2/7/2007 4:54:26 PM	RICH-RC-5071 REV 4
SC			DAWKINSO	InCnt2	2/7/2007 5:05:18 PM	RICH-RD-0003 REVISION 4
SC			BlackCL	CalcC	2/9/2007 8:19:10 AM	RICH-RD-0003 REVISION 4
SC			BlackCL	CalcC	2/9/2007 8:22:57 AM	RICH-RD-0003 REVISION 4
AC			BockJ	1/23/2007 3:38:23 PM		
AC			ManisD	1/24/2007 8:07:38		
AC			ManisD	1/30/2007 4:36:22 PM		
AC			DAWKINSO	1/30/2007 4:43:08 PM		
AC			BlackCL	1/31/2007 6:19:15		
AC			ManisD	2/7/2007 4:54:26 PM		
AC			DAWKINSO	2/7/2007 5:05:18 PM		
AC			BlackCL	2/9/2007 8:19:10 AM		
AC			BlackCL	2/9/2007 8:22:57 AM		

AC: Accepting Entry; SC: Status Change

2/8/2007 2:00:50 PM

ICOC Fraction Transfer/Status Report

ByDate: 2/8/2006, 2/13/2007, Batch: '7016424', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7016424						
AC		CalcC	BockJ	1/24/2007 1:36:10 PM		
SC			wagarr	IsBatched	1/16/2007 3:40:15 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	1/24/2007 1:36:10 PM	rich-rc-5014 rEVISION 6
SC			BockJ	Prep1C	1/24/2007 1:56:54 PM	RICH-RC-5017 REVISION 5
SC			AshworthA	Prep2C	2/7/2007 1:03:59 PM	RICH-RC-5017 REVISION 4
SC			StringerR	InCnt1	2/7/2007 1:08:41 PM	RICH-RD-0007 REVISION 5
SC			BlackCL	Cnt1C	2/8/2007 9:07:11 AM	RICH-RD-0007 REVISION 5
SC			BlackCL	CalcC	2/8/2007 9:07:26 AM	RICH-RD-0007 REVISION 5
AC			BockJ	1/24/2007 1:56:54 PM		
AC			AshworthA	2/7/2007 1:03:59 PM		
AC			StringerR	2/7/2007 1:08:41 PM		
AC			BlackCL	2/8/2007 9:07:11 AM		
AC			BlackCL	2/8/2007 9:07:26 AM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.26

2/16/2007 10:59:17 AM

ICOC Fraction Transfer/Status Report

ByDate: 2/16/2006, 2/21/2007, Batch: '7016423', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7016423						
AC		CalcC	BockJ	2/2/2007 10:34:05		
SC			wagarr	IsBatched	1/16/2007 3:40:15 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	2/2/2007 10:34:05 AM	RICH-RC-5014 Revision 6
SC			BostedD	Prep2C	2/15/2007 12:00:17 PM	RICHRC5025 REV3
SC			StringerR	InCnt1	2/15/2007 12:16:25 PM	RICH-RD-0007 REVISION 5
SC			DAWKINSO	CalcC	2/15/2007 7:23:06 PM	RICH-RD-0007 REVISION 5
AC			BostedD	2/15/2007 12:00:17		
AC			StringerR	2/15/2007 12:16:25		
AC			DAWKINSO	2/15/2007 7:23:06 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.26

1/30/2007 11:09:47 AM

ICOC Fraction Transfer/Status Report

ByDate: 1/30/2006, 2/4/2007, Batch: '7016429', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7016429						
AC		CalcC	BockJ	1/23/2007 9:48:00		
SC			wagarr	IsBatched	1/16/2007 3:40:15 PM	ICOC_RADCALC v4.8.26
SC			BockJ	Prep1C	1/23/2007 9:48:00 AM	RICH-RC-5016 REVISION 6
SC			FABREM	Sep1C	1/23/2007 4:04:40 PM	RICH-RC-5065 REVISION 5
SC			DAWKINSO	InCnt1	1/23/2007 4:35:40 PM	RICH-RD-0001 REVISION 3
SC			StringerR	CalcC	1/24/2007 11:24:18 AM	RICH-RD-0001 REVISION 3
AC			BockJ	1/23/2007 9:48:07		
AC			FABREM	1/23/2007 4:04:40 PM		
AC			DAWKINSO	1/23/2007 4:35:40 PM		
AC			StringerR	1/24/2007 11:24:18		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.26

1/26/2007 3:14:20 PM

ICOC Fraction Transfer/Status Report

ByDate: 1/26/2006, 1/31/2007, Batch: '7016419', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7016419						
AC		CalcC	McDowellD	1/22/2007 9:13:21		
SC			wagarr	IsBatched	1/16/2007 3:40:15 PM	ICOC_RADCALC v4.8.26
SC			McDowellD	InSep1	1/22/2007 9:13:21 AM	RICH-RC-5007 REVISION 6
SC			McDowellD	Sep1C	1/22/2007 2:22:16 PM	RICH-RC-5007 REVISION 6
SC			DAWKINSO	InCnt1	1/22/2007 5:09:54 PM	RICH-RD-0001 REVISION 3
SC			BlackCL	CalcC	1/26/2007 6:00:58 AM	RICH-RD-0001 REVISION 3
AC			McDowellD	1/22/2007 2:22:16 PM		
AC			DAWKINSO	1/22/2007 5:09:54 PM		
AC			BlackCL	1/26/2007 6:00:58		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt:4

ICOCFractions v4.8.26

1/29/2007 10:47:55 AM

ICOC Fraction Transfer/Status Report

ByDate: 1/29/2006, 2/3/2007, Batch: '7016427', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7016427						
AC		CalcC	McDowellD	1/26/2007 1:15:08 PM		
SC			wagarr	IsBatched	1/16/2007 3:40:15 PM	ICOC_RADCALC v4.8.26
SC			McDowellD	Sep1C	1/26/2007 1:15:08 PM	RICH-RC-5022 REVISION 3
SC			StringerR	InCnt1	1/26/2007 1:21:57 PM	RICH-RD-0001 REVISION 3
SC			StringerR	CalcC	1/27/2007 12:08:51 PM	RICH-RD-0001 REVISION 3
AC			StringerR	1/26/2007 1:21:57 PM		
AC			StringerR	1/27/2007 12:08:51		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 3

ICOCFractions v4.8.26

2/19/2007 3:17:19 PM

ICOC Fraction Transfer/Status Report

ByDate: 2/19/2006, 2/24/2007, Batch: '7016430', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7016430						
AC		Cnt1C	BockJ	1/25/2007 8:21:35		
SC			wagarr	IsBatched	1/16/2007 3:40:15 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	1/25/2007 8:21:35 AM	rich-rc-5015 rEVISION 4
SC			BockJ	Prep1C	1/25/2007 8:33:12 AM	RICH-RC-5015 REVISION 4
SC			AshworthA	InPrep2	2/12/2007 10:55:08 AM	RICH-RC-5015 REVISION 4
SC			AntonsonL	Prep2C	2/13/2007 1:58:18 PM	RICH-RC-5015 REVISION 4
SC			NelsonT	Cnt1C	2/19/2007 2:03:31 PM	RICH-RC-5058 REV 7
AC			BockJ	1/25/2007 8:33:12		
AC			AshworthA	2/12/2007 10:55:08		
AC			AntonsonL	2/13/2007 1:58:18 PM		
AC			NelsonT	2/19/2007 2:03:31 PM		

AC: Accepting Entry; SC: Status Change