0076806

W05214

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ICOC 146

TOTAL # PAGES IN DOCUMENT 156

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Analytical Data Package Prepared For

Fluor Hanford

OCT 2007
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Radiochemical Analysis By

TAL Richland STLRL

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

Data Package Contains _____ Pages

Report Nbr: 36803

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05214	W07-006	B1NNT7	J7G190461-1	J27TN1AA	9J27TN10	7218387
		B1NNT7	J7G190461-1	J27TN1AC	9J27TN10	7218380
	I07-053	B1NWT7	J7G200400-1	J3A2J1AA	9J3A2J10	7218382
	S07-006	B1NL55	J7G230182-1	J3ECK1AA	9J3ECK10	7218383
		B1NL55	J7G230182-1	J3ECK1AC	9J3ECK10	7218384
		B1NL55	J7G230182-1	J3ECK1AD	9J3ECK10	7218380
	S07-005	B1N3Y3	J7G230183-1	J3EEA1AA	9J3EEA10	7218377
	S07-004	B1MR09	J7G230185-1	J3EHC1AC	9J3EHC10	7218377
		B1MR09	J7G230185-1	J3EHC2AA	9J3EHC20	7261261
	A07-006	B1NJ09	J7G230186-1	J3EJ51AA	9J3EJ510	7218392
		B1NJ09	J7G230186-1	J3EJ51AC	9J3EJ510	7218377
		B1NJ09	J7G230186-1	J3EJ51AD	9J3EJ510	7218388
		B1NJ09	J7G230186-1	J3EJ51AE	9J3EJ510	7218380
	S07-006	B1NL90	J7G230191-1	J3ELC1AA	9J3ELC10	7218392
		B1NL90	J7G230191-1	J3ELC1AC	9J3ELC10	7218383

Comments:

Report Nbr: 36803

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05214	S07-006	B1NL90	J7G230191-1	J3ELC1AD	9J3ELC10	7218384
		B1NL86	J7G230191-2	J3EMA1AA	9J3EMA10	7218392
		B1NL86	J7G230191-2	J3EMA1AC	9J3EMA10	7218383
		B1NL86	J7G230191-2	J3EMA1AD	9J3EMA10	7218384
		B1NL86	J7G230191-2	J3EMA1AE	9J3EMA10	7218388
		B1NL86	J7G230191-2	J3EMA1AF	9J3EMA10	7218380
	S07-007	B1P1C4	J7G270226-1	J3P0T1AD	9J3P0T10	7218387
		B1P1C4	J7G270226-1	J3P0T1AE	9J3P0T10	7218396
		B1P1C4	J7G270226-1	J3P0T2AA	9J3P0T20	7261261
	A07-007	B1NWJ2	J7G270229-1	J3P1K1AA	9J3P1K10	7218392
		B1NWJ2	J7G270229-1	J3P1K1AD	9J3P1K10	7218388
		B1NWJ3	J7G270229-2	J3P1T1AA	9J3P1T10	7218392
		B1NWJ3	J7G270229-2	J3P1T1AD	9J3P1T10	7218388
		B1NWJ6	J7G270229-3	J3P1W1AA	9J3P1W10	7218392
		B1NWJ6	J7G270229-3	J3P1W1AD	9J3P1W10	7218388
	S07-006	B1NL74	J7G300110-1	J3T4V1AA	9J3T4V10	7218392
		B1NL74	J7G300110-1	J3T4V1AC	9J3T4V10	7218383
		B1NL74	J7G300110-1	J3T4V1AE	9J3T4V10	7218380
		B1NL74	J7G300110-1	J3T4V2AD	9J3T4V20	7218384
	S07-007	B1NXL4	J7G300141-1	J3VG01AA	9J3VG010	7218380
	S07-006	B1NL59	J7G300144-1	J3VHE1AA	9J3VHE10	7218392
		B1NL59	J7G300144-1	J3VHE1AC	9J3VHE10	7218380

Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

September 25, 2007

Attention: Steve Trent

SAF Number	:	W07-006, I07-053, S07-006, S07-005, S07-004, A07-006, I07-049, S07-007, A07-007
Date SDG Closed	:	July 30, 2007
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05214
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between July 18, 2007 and July 30, 2007 twenty water samples were received at TAL Richland (TALR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Fluor Hanford specific IDs:

PGW ID#	STLR ID#	DATE OF RECEIPT	MATRIX
B1NNT7	J27TN	7/18/07	WATER
B1NWT7	J3A2J	7/19/07	WATER
B1NL55	J3ECK	7/20/07	WATER
B1N3Y3	J3EEA	7/20/07	WATER
B1MR09	J3EHC	7/20/07	WATER
B1NJ09	J3EJ5	7/20/07	WATER
B1NL90	J3ELC	7/20/07	WATER
B1NL86	J3EMA	7/20/07	WATER
B1NJY0	J3LQF	7/25/07	WATER
B1N3P6	J3LQP	7/25/07	WATER
B1P1C4	J3POT	7/26/07	WATER
B1NWJ6	J3P1W	7/26/07	WATER
B1NWJ3	J3P1T	7/26/07	WATER

B1NWJ2	J3P1K	7/26/07	WATER
B1NL74	J3T4V	7/26/07	WATER
B1NXF3	J3T5Q	7/26/07	WATER
B1NXD7	J3T5W	7/26/07	WATER
B1NXL4	J3VG0	7/27/07	WATER
B1NL59	J3VHE	7/27/07	WATER
B1NXC5	J3WN1	7/30/07	WATER

II. Sample Receipt

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

III. Analytical Results/Methodology

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

The requested analyses were:

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

IV. Quality Control

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

QC and sample results are reported in the same units.

V. Comments

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:
The LCS, batch blank, samples and sample duplicate (B1NL74) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:
Sample B1NL74 and its' duplicate did not agree. They were recounted with good results. Data is accepted. Except as noted, the LCS, batch blank, samples and sample duplicate (B1NL74) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006
The LCS, batch blank, samples and sample duplicate (B1NWT7) results are within contractual requirements.

Gamma Spectroscopy

Gamma Spec (LL) by method RICH-RC-5017:
In the original analysis and its' recount the LCS had a low recovery for Eu-152. The batch was rerun with good results. Except as noted, the LCS, batch blank, samples and sample duplicate (B1P1C4) results are within contractual requirements.

Iodine-129 (LL) by method RICH-RC-5025:
All of the samples except B1N3Y3, B1MR09 and B1NJ09 were acidified. The client was notified. The technician failed to include a duplicate on the analysis so it was run in a different batch with good results. Except as noted, the LCS, batch blank, samples and sample duplicate (B1N3Y3) results are within contractual requirements.

Liquid Scintillation Counting

Enriched Tritium by method RICH-RC-5024
The LCS, batch blank, samples and sample duplicate (B1P1C4) results are within contractual requirements.

Tritium by method RICH-RC-5007:
The LCS, batch blank, samples and sample duplicate (B1NL74) results are within contractual requirements.

Technetium-99 by TEVA method RICH-RC-5065:
The LCS, batch blank, samples, sample duplicate (B1NWJ2), and sample matrix spike (B1NWJ3) results are within contractual requirements.

Technetium-99 by method RICH-RC-5078:
The LCS, batch blank, samples, sample duplicate (B1NNT7), and sample matrix spike (B1P1C4) results are within contractual requirements.

Fluor Hanford
September 25, 2007

Total Uranium

Total Uranium by method RICH-RC-5058:

The LCS, batch blank, samples, sample duplicate (B1NXL4), and sample matrix spike (B1NL59) 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

Adam, Sherryl

From: Hampt, Heidi [Heidi_Hampt@RL.gov]
Sent: Tuesday, September 11, 2007 2:15 PM
To: Adam, Sherryl
Cc: Seger, Sandra; Trent, Stephen J; Anastos, Heather L
Subject: RE: IRFs
Attachments: 07-087.DOC; 07-084.DOC; 07-085.DOC; 07-086.DOC

Sherryl,

Responses to the IRFs from Friday and today are attached.

Thanks,
Heidi

From: Adam, Sherryl [mailto:Sherryl.Adam@testamericainc.com]
Sent: Tuesday, September 11, 2007 9:46 AM
To: Trent, Stephen J; Hampt, Heidi; Anastos, Heather L
Cc: Seger, Sandra
Subject: IRFs

Steve,
Please see the attached IRFs and advise us as to what you'd like us to do. Thanks.

<<IRFW05216.DOC>> <<IRFW05219.DOC>>

Sherryl A. Adam
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
(formerly STL Richland)

2800 George Washington Way
Richland, WA 99354
Tel 509.375.3131 x164 | Fax 509.375.5590
www.testamericainc.com www.stl-inc.com

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

Tracking Number: 07-084
SAF No.: S07-005, S07-004, A07-006, I07-049, S07-007
Date: September 7, 2007
SDG: W05213
Sample No.(s) B1N3Y3, B1MR09, B1NJ09, B1NJY0, B1N3P6, B1P1C4, B1NWJ6, B1NWJ3, B1NWJ2, B1NXF3, B1NXD7, B1NXC5

Submitted By: Sherryl Adam
Phone No. 509-375-3131 x164
Fax No. 509-375-5590

Submitted To: **Steve Trent (FH)**
Phone No. **509-373-5869**
Fax No. 866-252-5816

ISSUE	PROPOSED RESOLUTION
The above mentioned samples have I-129 (LL) requested. Samples B1N3Y3, B1MR09 and B1NJ09 are the only samples not acidified for the I-129(LL) analysis request.	Run the 3 unacidifed samples and delete the rest.

BHI/FH/PNNL COMMENTS -
Please run samples B1N3Y3, B1MR09, and B1NJ09. Cancel the I-129 analysis for the other samples.

Heidi Hampt 9/11/07
Signature and date

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 00-02	Gross Alpha (Coprecipitation)	RICH-RC-5021
EPA 903.0	Total Alpha Radium (Ra-226)	RICH-RC-5027
EPA 903.1	Ra-226	RICH-RC-5005
EPA 904.0	Ra-228	RICH-RC-5005
EPA 905.0	Sr-89/90	RICH-RC-5006
ASTM D5174	Uranium	RICH-RC-5058
EPA 906.0	Tritium	RICH-RC-5007

Uncertainty Estimation

Test America 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 ($S/\sqrt{n}$), 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.

9/25/2007 9:52:44 AM

TAL Richland Report

Lab Code: STLRL

. FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 36803 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.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:
9J27TN10	B1NNT7		MW6-SBB-A1	W07-006	W05214					07/18/2007 12:51

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7218387	TC-99	14133-76-7	3.83E+01	pCi/L	5.9E+00	8.8E+00		1.22E+01	100.0	TC99_SEP_LSC	1.279E-01	L	08/30/2007 02:56	I
7218380	Uranium	7440-61-1	7.53E+00	ug/L	8.9E-01	8.9E-01		7.54E-02		UTOT_KPA	2.78E-02	ML	09/12/2007 10:22	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:
9J3A2J10	B1NWT7		MW6-SBB-A1	I07-053	W05214					07/19/2007 09:41

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7218382	SR-90	10098-97-2	1.45E-01	pCi/L	2.6E-01	2.7E-01	U	5.52E-01	82.6	SRISO_SEP_PRE	9.96E-01	L	09/06/2007 11:21	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:
9J3ECK10	B1NL55		MW6-SBB-A1	S07-006	W05214					07/20/2007 12:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7218383	ALPHA	12587-46-1	3.67E+00	pCi/L	1.7E+00	1.9E+00		1.71E+00	100.0	9310_ALPHABETA	2.009E-01	L	09/07/2007 15:29	I
7218384	BETA	12587-47-2	1.11E+01	pCi/L	2.1E+00	2.5E+00		3.05E+00	100.0	9310_ALPHABETA	2.035E-01	L	09/07/2007 09:30	I
7218380	Uranium	7440-61-1	8.77E+00	ug/L	1.0E+00	1.0E+00		7.62E-02		UTOT_KPA	2.75E-02	ML	09/12/2007 10:23	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:
9J3EEA10	B1N3Y3		MW6-SBB-A1	S07-005	W05214					07/20/2007 09:51

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7218377	I-129L	15046-84-1	4.08E+00	pCi/L	6.6E-01	6.6E-01		4.30E-01	85.1	I129LL_SEP_LEPS	3.9314E+00	L	09/12/2007 12:50	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J3EHC10	B1MR09		MW6-SBB-A1	S07-004	W05214					07/20/2007 11:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7218377	I-129L	15046-84-1	1.65E+00	pCi/L	4.4E-01	4.4E-01		2.95E-01	91.9	I129LL_SEP_LEPS	3.908E+00	L	09/12/2007 12:50	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J3EHC20	B1MR09		MW6-SBB-A1	S07-004	W05214					07/20/2007 11:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7261261	BE-7	13966-02-4	-2.34E+01	pCi/L	2.8E+01	2.8E+01	U	4.52E+01		GAMMALL_GS	1.9394E+00	L	09/21/2007 06:17	I
7261261	CO-60	10198-40-0	1.30E-01	pCi/L	1.7E+00	1.7E+00	U	3.29E+00		GAMMALL_GS	1.9394E+00	L	09/21/2007 06:17	I
7261261	CS-134	13967-70-9	-3.11E-01	pCi/L	1.9E+00	1.9E+00	U	3.32E+00		GAMMALL_GS	1.9394E+00	L	09/21/2007 06:17	I

TAL Richland

rptFeadRadSummaryEdd v3.48

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

TAL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 36803 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

7261261	CS-137	10045-97-3	3.83E-01	pCi/L	1.6E+00	1.6E+00	U	2.94E+00	GAMMALL_GS	1.9394E+00	L	09/21/2007	06:17	I
7261261	EU-152	14683-23-9	1.27E+00	pCi/L	4.2E+00	4.2E+00	U	7.52E+00	GAMMALL_GS	1.9394E+00	L	09/21/2007	06:17	I
7261261	EU-154	15585-10-1	-7.39E-01	pCi/L	5.6E+00	5.6E+00	U	1.01E+01	GAMMALL_GS	1.9394E+00	L	09/21/2007	06:17	I
7261261	EU-155	14391-16-3	7.80E-01	pCi/L	3.9E+00	3.9E+00	U	6.70E+00	GAMMALL_GS	1.9394E+00	L	09/21/2007	06:17	I
7261261	K-40	13966-00-2	-6.02E+01	pCi/L	4.3E+01	4.3E+01	U	8.65E+01	GAMMALL_GS	1.9394E+00	L	09/21/2007	06:17	I
7261261	RU-106	13967-48-1	-7.26E+00	pCi/L	1.5E+01	1.5E+01	U	2.59E+01	GAMMALL_GS	1.9394E+00	L	09/21/2007	06:17	I
7261261	SB-125	14234-35-6	-5.86E-02	pCi/L	4.1E+00	4.1E+00	U	7.39E+00	GAMMALL_GS	1.9394E+00	L	09/21/2007	06:17	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J3EJ510	B1NJ09		MW6-SBB-A1	A07-006	W05214					07/20/2007 08:27

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7218392	H-3	10028-17-8	9.47E+03	pCi/L	3.6E+02	5.3E+02		3.48E+02	100.0	906.0_H3_LSC	5.00E-03	L	08/17/2007 18:00	I
7218377	I-129L	15046-84-1	2.92E+00	pCi/L	4.6E-01	4.6E-01		2.84E-01	91.9	I129LL_SEP_LEPS	4.00E+00	L	09/12/2007 12:50	I
7218388	TC-99	14133-76-7	4.26E+01	pCi/L	5.3E+00	8.2E+00		9.81E+00	100.0	TC99_ETVDSK_LS	1.256E-01	L	08/30/2007 23:03	I
7218380	Uranium	7440-61-1	6.40E+00	ug/L	7.6E-01	7.6E-01		7.76E-02		UTOT_KPA	2.70E-02	ML	09/12/2007 10:25	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:
9J3ELC10	B1NL90		MW6-SBB-A1	S07-006	W05214					07/20/2007 11:49

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7218392	H-3	10028-17-8	5.46E+04	pCi/L	8.1E+02	2.2E+03		3.48E+02	100.0	906.0_H3_LSC	5.00E-03	L	08/17/2007 19:23	I
7218383	ALPHA	12587-46-1	1.98E+00	pCi/L	1.3E+00	1.4E+00		1.43E+00	100.0	9310_ALPHABETA	2.015E-01	L	09/07/2007 15:29	I
7218384	BETA	12587-47-2	9.78E+00	pCi/L	2.0E+00	2.3E+00		2.92E+00	100.0	9310_ALPHABETA	1.993E-01	L	09/07/2007 09:30	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:
9J3EMA10	B1NL86		MW6-SBB-A1	S07-006	W05214					07/20/2007 12:32

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7218392	H-3	10028-17-8	2.94E+05	pCi/L	1.8E+03	1.1E+04		3.48E+02	100.0	906.0_H3_LSC	5.00E-03	L	08/17/2007 20:45	I
7218383	ALPHA	12587-46-1	3.54E+00	pCi/L	1.8E+00	2.0E+00		2.23E+00	100.0	9310_ALPHABETA	2.014E-01	L	09/07/2007 15:29	I
7218384	BETA	12587-47-2	5.92E+01	pCi/L	3.9E+00	8.4E+00		2.91E+00	100.0	9310_ALPHABETA	2.003E-01	L	09/07/2007 09:30	I
7218388	TC-99	14133-76-7	2.16E+02	pCi/L	8.9E+00	1.8E+01		9.85E+00	100.0	TC99_ETVDSK_LS	1.248E-01	L	08/30/2007 23:03	I
7218380	Uranium	7440-61-1	9.10E+00	ug/L	1.1E+00	1.1E+00		7.91E-02		UTOT_KPA	2.65E-02	ML	09/12/2007 10:27	I

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

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.

9/25/2007 9:52:44 AM

TAL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 36803 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.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:
9J3P0T10	B1P1C4		MW6-SBB-A1	S07-007	W05214					07/26/2007 09:07

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7218387	TC-99	14133-76-7	6.92E+00	pCi/L	4.7E+00	6.9E+00	U	1.10E+01	100.0	TC99_SEP_LSC	1.272E-01	L	08/30/2007 05:01	I
7218396	H-3	10028-17-8	6.64E+00	pCi/L	4.1E+00	6.1E+00		5.64E+00	100.0	TRITIUM_ELECT_L	1.5001E-01	L	09/12/2007 18:21	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:
9J3P0T20	B1P1C4		MW6-SBB-A1	S07-007	W05214					07/26/2007 09:07

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7261261	BE-7	13966-02-4	-5.00E+00	pCi/L	2.5E+01	2.5E+01	U	4.43E+01		GAMMALL_GS	2.002E+00	L	09/21/2007 06:18	I
7261261	CO-60	10198-40-0	2.23E-01	pCi/L	1.6E+00	1.6E+00	U	3.03E+00		GAMMALL_GS	2.002E+00	L	09/21/2007 06:18	I
7261261	CS-134	13967-70-9	3.50E-01	pCi/L	1.7E+00	1.7E+00	U	3.23E+00		GAMMALL_GS	2.002E+00	L	09/21/2007 06:18	I
7261261	CS-137	10045-97-3	9.29E-01	pCi/L	1.6E+00	1.6E+00	U	3.12E+00		GAMMALL_GS	2.002E+00	L	09/21/2007 06:18	I
7261261	EU-152	14683-23-9	1.01E-01	pCi/L	4.5E+00	4.5E+00	U	7.75E+00		GAMMALL_GS	2.002E+00	L	09/21/2007 06:18	I
7261261	EU-154	15585-10-1	-2.56E+00	pCi/L	4.9E+00	4.9E+00	U	8.44E+00		GAMMALL_GS	2.002E+00	L	09/21/2007 06:18	I
7261261	EU-155	14391-16-3	-1.04E+00	pCi/L	3.2E+00	3.2E+00	U	5.39E+00		GAMMALL_GS	2.002E+00	L	09/21/2007 06:18	I
7261261	K-40	13966-00-2	-1.16E+01	pCi/L	3.9E+01	3.9E+01	U	7.84E+01		GAMMALL_GS	2.002E+00	L	09/21/2007 06:18	I
7261261	RU-106	13967-48-1	-1.22E+01	pCi/L	1.5E+01	1.5E+01	U	2.38E+01		GAMMALL_GS	2.002E+00	L	09/21/2007 06:18	I
7261261	SB-125	14234-35-6	8.49E-01	pCi/L	4.2E+00	4.2E+00	U	7.59E+00		GAMMALL_GS	2.002E+00	L	09/21/2007 06:18	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J3P1K10	B1NWJ2		MW6-SBB-A1	A07-007	W05214					07/26/2007 12.55

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7218392	H-3	10028-17-8	8.87E+01	pCi/L	1.5E+02	1.6E+02	U	3.49E+02	100.0	906.0_H3_LSC	5.00E-03	L	08/17/2007 22:07	I
7218388	TC-99	14133-76-7	8.32E+00	pCi/L	4.3E+00	6.2E+00	U	9.80E+00	100.0	TC99_ETVDSK_LS	1.253E-01	L	08/30/2007 23:03	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J3P1T10	B1NWJ3		MW6-SBB-A1	A07-007	W05214					07/26/2007 12:55

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7218392	H-3	10028-17-8	-7.12E+01	pCi/L	1.4E+02	1.5E+02	U	3.45E+02	100.0	906.0_H3_LSC	5.00E-03	L	08/17/2007 23:30	I
7218388	TC-99	14133-76-7	7.71E+00	pCi/L	4.3E+00	6.1E+00	U	9.71E+00	100.0	TC99_ETVDSK_LS	1.271E-01	L	08/30/2007 23:04	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:
9J3P1W10	B1NWJ6		MW6-SBB-A1	A07-007	W05214					07/26/2007 11:30

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.

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 36803 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7218392	H-3	10028-17-8	1.36E+03	pCi/L	1.9E+02	2.2E+02		3.47E+02	100.0	906.0_H3_LSC	5.00E-03	L	08/18/2007 00:52	I
7218388	TC-99	14133-76-7	1.44E+02	pCi/L	7.6E+00	1.4E+01		9.77E+00	100.0	TC99_ETVDSK_LS	1.262E-01	L	08/30/2007 23:04	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:
9J3T4V10	B1NL74		MW6-SBB-A1	S07-006	W05214					07/26/2007 10:11

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7218392	H-3	10028-17-8	1.26E+04	pCi/L	4.0E+02	6.5E+02		3.45E+02	100.0	906.0_H3_LSC	5.00E-03	L	08/18/2007 03:37	I
7218383	ALPHA	12587-46-1	5.97E+00	pCi/L	2.3E+00	2.7E+00		1.82E+00	100.0	9310_ALPHABETA	2.007E-01	L	09/07/2007 16:42	I
7218380	Uranium	7440-61-1	1.25E+01	ug/L	1.5E+00	1.5E+00		7.54E-02		UTOT_KPA	2.78E-02	ML	09/12/2007 10:28	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J3T4V20	B1NL74		MW6-SBB-A1	S07-006	W05214					07/26/2007 10.11

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7218384	BETA	12587-47-2	1.54E+01	pCi/L	2.2E+00	3.0E+00		2.85E+00	100.0	9310_ALPHABETA	1.99E-01	L	09/07/2007 19:23	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:
9J3VG010	B1NXL4		MW6-SBB-A1	S07-007	W05214					07/27/2007 13:21

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7218380	Uranium	7440-61-1	7.95E+00	ug/L	9.4E-01	9.4E-01		7.68E-02		UTOT_KPA	2.73E-02	ML	09/12/2007 10:30	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:
9J3VHE10	B1NL59		MW6-SBB-A1	S07-006	W05214					07/27/2007 10:43

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7218392	H-3	10028-17-8	4.40E+01	pCi/L	1.4E+02	1.6E+02	U	3.47E+02	100.0	906.0_H3_LSC	5.00E-03	L	08/18/2007 06:21	I
7218380	Uranium	7440-61-1	2.23E+00	ug/L	2.3E-01	2.3E-01		8.28E-02		UTOT_KPA	2.53E-02	ML	09/12/2007 10:34	I

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

Tuesday, September 25, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id: J39021AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05214 36803
Matrix: WATER WATER
QC Type: BLK

Collection Date: 07/27/2007 13:21
Sample On Date:
Received Date: 07/27/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								AT	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
7218380	Uranium	0.00E+00	ug/L	0.0E+00	U	8.19E-02			UTOT_KPA	2.56E-02	09/12/2007				D
BLK	7440-61-1			0.0E+00						ML	10:13				

TAL Richland
rptFeadRadEdd v3.68

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

Tuesday, September 25, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id: J39031AB **Sdg/Rept Nbr:** W05214 36803 **Collection Date:** 07/19/2007 09:41

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 07/19/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7218382	SR-90	3.18E-01	pCi/L	4.9E-01	U	9.59E-01	50.1		SRISO_SEP_P	9.955E-01	09/06/2007				D
BLK	10098-97-2			4.9E-01						L	11:21				

TAL Richland
rptFeadRadEdd v3.68

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

Tuesday, September 25, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id:	J39051AB	**Sdg/Rept Nbr:**	W05214 36803	**Collection Date:**	07/26/2007 10:11
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	07/26/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7218383	ALPHA	0.00E+00	pCi/L	3.0E-01	U	9.43E-01	100.0		9310_ALPHAB	2.001E-01	09/07/2007				D
BLK	12587-46-1			3.0E-01						L	16:42				

TAL Richland
rptFeadRadEdd v3.68

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

3

Tuesday, September 25, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id:	J39061AB	**Sdg/Rept Nbr:**	W05214 36803	**Collection Date:**	07/26/2007 10:11
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	07/26/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7218384	BETA	7.57E-01	pCi/L	1.2E+00	U	2.58E+00	100.0		9310_ALPHAB	1.993E-01	09/07/2007				D
BLK	12587-47-2			1.2E+00						L	09:30				

TAL Richland

rptFeadRadEdd v3.68

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

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803 Edd

Lab Sample Id:	J39071AB	**Sdg/Rept Nbr:**	W05214 36803	**Collection Date:**	07/18/2007 12:51
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	07/18/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7218387	TC-99	6.62E+00	pCi/L	6.9E+00	U	1.11E+01	100.0		TC99_SEP_LS	1.262E-01	08/30/2007				D
BLK	14133-76-7			4.7E+00						L	07:06				

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

Tuesday, September 25, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id:	J390V1AB	**Sdg/Rept Nbr:**	W05214	36803	**Collection Date:** 07/26/2007 13:34
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 07/26/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7218377	I-129L	3.43E-02	pCi/L	1.6E-01	U	2.99E-01	87.6		I129LL_SEP_L	4.00E+00	09/12/2007				D
BLK	15046-84-1			1.6E-01						L	14:33				

TAL Richland
rptFeadRadEdd v3.68

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

Tuesday, September 25, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id:	J391A1AB	**Sdg/Rept Nbr:**	W05214 36803	**Collection Date:**	07/26/2007 12:55
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	07/26/2007

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
7218388	TC-99	-1.14E+00	pCi/L	5.6E+00	U	9.69E+00	100.0		TC99_ETVDSK	1.27E-01	08/30/2007				D
BLK	14133-76-7			4.0E+00						L	23:04				

TAL Richland

rptFeadRadEdd v3.68

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

Tuesday, September 25, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id:	J391E2AB	**Sdg/Rept Nbr:**	W05214	36803	**Collection Date:** 07/26/2007 09:07
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 07/26/2007

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
7261261	BE-7	1.43E+01	pCi/L	2.5E+01	U	4.67E+01			GAMMALL_GS	2.0006E+00	09/21/2007				D
BLK	13966-02-4			2.5E+01						L	09:50				
7261261	CO-60	2.57E-01	pCi/L	1.8E+00	U	3.42E+00			GAMMALL_GS	2.0006E+00	09/21/2007				D
BLK	10198-40-0			1.8E+00						L	09:50				
7261261	CS-134	1.42E+00	pCi/L	1.8E+00	U	3.54E+00			GAMMALL_GS	2.0006E+00	09/21/2007				D
BLK	13967-70-9			1.8E+00						L	09:50				
7261261	CS-137	1.68E+00	pCi/L	1.6E+00	U	3.12E+00			GAMMALL_GS	2.0006E+00	09/21/2007				D
BLK	10045-97-3			1.6E+00						L	09:50				
7261261	EU-152	1.41E+00	pCi/L	4.0E+00	U	7.33E+00			GAMMALL_GS	2.0006E+00	09/21/2007				D
BLK	14683-23-9			4.0E+00						L	09:50				
7261261	EU-154	4.43E+00	pCi/L	4.5E+00	U	9.62E+00			GAMMALL_GS	2.0006E+00	09/21/2007				D
BLK	15585-10-1			4.5E+00						L	09:50				
7261261	EU-155	-4.55E-01	pCi/L	3.7E+00	U	6.29E+00			GAMMALL_GS	2.0006E+00	09/21/2007				D
BLK	14391-16-3			3.7E+00						L	09:50				
7261261	K-40	-4.25E+01	pCi/L	4.3E+01	U	8.78E+01			GAMMALL_GS	2.0006E+00	09/21/2007				D
BLK	13966-00-2			4.3E+01						L	09:50				
7261261	RU-106	2.06E+00	pCi/L	1.6E+01	U	2.99E+01			GAMMALL_GS	2.0006E+00	09/21/2007				D
BLK	13967-48-1			1.6E+01						L	09:50				
7261261	SB-125	-1.72E-02	pCi/L	4.0E+00	U	7.26E+00			GAMMALL_GS	2.0006E+00	09/21/2007				D
BLK	14234-35-6			4.0E+00						L	09:50				

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

Tuesday, September 25, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id: J391G1AB **Sdg/Rept Nbr:** W05214 36803 **Collection Date:** 07/26/2007 10:11

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 07/26/2007

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
7218392	H-3	-1.07E+02	pCi/L	1.5E+02	U	3.45E+02	100.0		906.0_H3_LSC	5.00E-03	08/17/2007				D
BLK	10028-17-8			1.4E+02						L	12:31				

TAL Richland

rptFeadRadEdd v3.68

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

Tuesday, September 25, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id:	J391G1DX	**Sdg/Rept Nbr:**	W05214 36803	**Collection Date:**	07/26/2007 10:11
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	07/26/2007

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
7218392	H-3	5.72E+01	pCi/L	1.6E+02	U	3.47E+02	100.0		906.0_H3_LSC	5.00E-03	08/17/2007				D
BLK	10028-17-8			1.4E+02						L	15:15				

TAL Richland

rptFeadRadEdd v3.68

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

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Tuesday, September 25, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id:	J391H1AB	**Sdg/Rept Nbr:**	W05214 36803	**Collection Date:**	07/26/2007 09:07
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	07/26/2007

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
7218396	H-3	4.52E+00	pCi/L	5.9E+00	U	5.53E+00	100.0		TRITIUM_ELE	1.50E-01	09/12/2007				D
BLK	10028-17-8			4.0E+00						L	18:21				

TAL Richland

rptFeadRadEdd v3.68

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

Tuesday, September 25, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id:	J6TLR1AB	**Sdg/Rept Nbr:**	W05214 36803	**Collection Date:**	07/20/2007 09:51
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	07/20/2007

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
7257139	I-129L	-2.38E-02	pCi/L	1.5E-01	U	2.66E-01	90.5		I129LL_SEP_L	4.0008E+00	09/18/2007				D
BLK	15046-84-1			1.5E-01						L	13:15				

TAL Richland

rptFeadRadEdd v3.68

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

Tuesday, September 25, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd. h:\Reportdb\edd\FeadIV\Rad\36803 Edd

Lab Sample Id: J39021CS **Sdg/Rept Nbr:** W05214 36803 **Collection Date:** 07/27/2007 13:21

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 07/27/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7218380	Uranium	3.64E+01	ug/L	4.3E+00		8.32E-02		3.60E+01	UTOT_KPA	2.52E-02	09/12/2007			75	D
BS	7440-61-1			4.3E+00				101.1		ML	10:17			125	

TAL Richland

rptFeadRadEdd v3.68

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

Tuesday, September 25, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id: J39021DS **Sdg/Rept Nbr:** W05214 36803 **Collection Date:** 07/27/2007 13:21

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 07/27/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7218380	Uranium	3.48E+00	ug/L	3.6E-01		8.15E-02		3.54E+00	UTOT_KPA	2.57E-02	09/12/2007			75	D
BS	7440-61-1			3.6E-01				98.2		ML	10:19			125	

TAL Richland

rptFeadRadEdd v3.68

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

Tuesday, September 25, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id:	J39031CS	**Sdg/Rept Nbr:**	W05214	36803	**Collection Date:** 07/19/2007 09:41
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 07/19/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7218382	SR-90	1.46E+01	pCi/L	2.3E+00		5.85E-01	75.0	1.39E+01	SRISO_SEP_P	9.997E-01	09/06/2007			70	D
BS	10098-97-2			8.0E-01				105.3		L	11:21			130	

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

Tuesday, September 25, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd. h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id:	J39051CS	**Sdg/Rept Nbr:**	W05214 36803	**Collection Date:**	07/26/2007 10:11
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	07/26/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7218383	ALPHA	1.89E+01	pCi/L	5.2E+00		8.21E-01	100.0	2.25E+01	9310_ALPHAB	2.009E-01	09/07/2007			70	D
BS	12587-46-1			2.8E+00				84.2		L	16:42			130	

TAL Richland

rptFeadRadEdd v3.68

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

Tuesday, September 25, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edrl, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id:	J39061CS	**Sdg/Rept Nbr:**	W05214 36803	**Collection Date:**	07/26/2007 10:11
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	07/26/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7218384	BETA	2.20E+01	pCi/L	3.7E+00		2.54E+00	100.0	2.29E+01	9310_ALPHAB	1.99E-01	09/07/2007			70	D
BS	12587-47-2			2.4E+00				96.1		L	09:30			130	

TAL Richland

rptFeadRadEdd v3.68

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

Tuesday, September 25, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 06 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id:	J39071CS	**Sdg/Rept Nbr:**	W05214 36803	**Collection Date:**	07/18/2007 12:51
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	07/18/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7218387	TC-99	4.86E+02	pCi/L	3.5E+01		1.17E+01	100.0	5.38E+02	TC99_SEP_LS	1.25E-01	08/30/2007			70	D
BS	14133-76-7			1.3E+01				90.2		L	08:08			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.

! *Tuesday, September 25, 2007*

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id:	J390V1CS	**Sdg/Rept Nbr:**	W05214 36803	**Collection Date:**	07/26/2007 13:34
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	07/26/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7218377	I-129L	9.65E+00	pCi/L	1.2E+00		4.85E-01	89.5	9.58E+00	I129LL_SEP_L	4.0002E+00	09/12/2007			70	D
BS	15046-84-1			1.2E+00				100.7		L	14:33			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.

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id:	J391A1CS	**Sdg/Rept Nbr:**	W05214	36803	**Collection Date:** 07/26/2007 12:55
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 07/26/2007

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
7218388	TC-99	4.93E+02	pCi/L	3.4E+01		9.65E+00	100.0	5.28E+02	TC99_ETVDSK	1.276E-01	08/30/2007			75	D
BS	14133-76-7			1.2E+01				93.4		L	23:04			125	

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

Tuesday, September 25, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id:	J391E3CS	**Sdg/Rept Nbr:**	W05214 36803	**Collection Date:**	07/26/2007 09:07
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	07/26/2007

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
7261261	CO-60	4.35E+01	pCi/L	7.8E+00		2.74E+00		3.79E+01	GAMMALL_GS	2.0002E+00	09/21/2007			75	D
BS	10198-40-0			7.8E+00				114.8		L	06:19			125	
7261261	CS-137	5.37E+01	pCi/L	8.5E+00		3.81E+00		4.96E+01	GAMMALL_GS	2.0002E+00	09/21/2007			70	D
BS	10045-97-3			8.5E+00				108.2		L	06:19			130	
7261261	EU-152	8.62E+01	pCi/L	1.7E+01		8.98E+00		7.64E+01	GAMMALL_GS	2.0002E+00	09/21/2007			70	D
BS	14683-23-9			1.7E+01				112.8		L	06:19			130	

TAL Richland

rptFeadRadEdd v3.68

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

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Tuesday, September 25, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id:	J391G1CS	**Sdg/Rept Nbr:**	W05214 36803	**Collection Date:**	07/26/2007 10:11
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	07/26/2007

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
7218392	H-3	2.51E+03	pCi/L	2.6E+02		3.45E+02	100.0	2.71E+03	906.0_H3_LSC	5.00E-03	08/17/2007			75	D
BS	10028-17-8			2.2E+02				92.4		L	13:53			125	

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

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id:	J391G1EM	**Sdg/Rept Nbr:**	W05214 36803	**Collection Date:**	07/26/2007 10:11
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	07/26/2007

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
7218392	H-3	2.29E+03	pCi/L	2.5E+02		3.40E+02	100.0	2.71E+03	906.0_H3_LSC	5.00E-03	08/17/2007			75	D
BS	10028-17-8			2.1E+02				84.2		L	16:38			125	

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

Tuesday, September 25, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id:	J391H1CS	**Sdg/Rept Nbr:**	W05214	36803	**Collection Date:** 07/26/2007 09:07
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 07/26/2007

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
7218396	H-3	3.94E+02	pCi/L	7.0E+01		5.62E+00	100.0	4.55E+02	TRITIUM_ELE	1.5002E-01	09/12/2007			70	D
BS	10028-17-8			1.6E+01				86.5		L	18:21			130	

TAL Richland
rptFeadRadEdd v3.68

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

Tuesday, September 25, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803 Edd

Lab Sample Id:	J6TLR1CS	**Sdg/Rept Nbr:**	W05214 36803	**Collection Date:**	07/20/2007 09:51
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	07/20/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7257139	I-129L	1.00E+01	pCi/L	1.3E+00		5.77E-01	95.3	9.60E+00	I129LL_SEP_L	4.00E+00	09/18/2007			70	D
BS	15046-84-1			1.3E+00				104.2		L	13:16			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.

Tuesday, September 25, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id:	J27TN1DR	**Sdg/Rept Nbr:**	W05214 36803	**Collection Date:**	07/18/2007 12:51
Client Id:	B1NNT7	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	07/18/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-006	MW6-SBB-A19981								AS	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
7218387	TC-99	3.14E+01	pCi/L	8.3E+00		1.11E+01	100.0		TC99_SEP_LS	1.273E-01	08/30/2007	19.8	1.2		D
DUP	14133-76-7	3.83E+01		5.5E+00						L	03:59	20.0	3		

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

Tuesday, September 25, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id:	J3A2J1CR	**Sdg/Rept Nbr:**	W05214 36803	**Collection Date:**	07/19/2007 09:41
Client Id:	B1NWT7	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	07/19/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I07-053	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
7218382	SR-90	6.79E-02	pCi/L	2.6E-01	U	5.38E-01	86.1		SRISO_SEP_P	9.956E-01	09/06/2007	72.3	0.4		D
DUP	10098-97-2	1.45E-01		2.6E-01						L	11:21	20.0	3		

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

Tuesday, September 25, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id:	J3EEA1CR	**Sdg/Rept Nbr:**	W05214 36803	**Collection Date:**	07/20/2007 09:51
Client Id:	B1N3Y3	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	07/20/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-005	MW6-SBB-A19981								BR	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7257139	I-129L	3.11E+00	pCi/L	5.6E-01		3.15E-01	95.9		I129LL_SEP_L	3.9111E+00	09/18/2007	27.0	2.5		D
DUP	15046-84-1	4.08E+00		5.6E-01						L	13:14	20.0	3		

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

Tuesday, September 25, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id:	J3P0T1HR	**Sdg/Rept Nbr:**	W05214	36803	**Collection Date:** 07/26/2007 09:07
Client Id:	B1P1C4	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 07/26/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-007	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
7218396	H-3	7.87E+00	pCi/L	6.2E+00		5.57E+00	100.0		TRITIUM_ELE	1.50E-01	09/12/2007	17.0	0.3		D
DUP	10028-17-8	6.64E+00		4.2E+00						L	18:21	20.0	3		

TAL Richland
rptFeadRadEdd v3.68

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

Tuesday, September 25, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id: J3P0T2GR **Sdg/Rept Nbr:** W05214 36803 **Collection Date:** 07/26/2007 09:07

Client Id: B1P1C4 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 07/26/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-007	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
7261261	BE-7	-2.77E+01	pCi/L	2.3E+01	U	3.55E+01			GAMMALL_GS	1.9616E+00	09/21/2007	0.0	1.4		D
DUP	13966-02-4	-5.00E+00		2.3E+01						L	06:18	20.0	3		
7261261	CO-60	-6.49E-01	pCi/L	1.6E+00	U	2.90E+00			GAMMALL_GS	1.9616E+00	09/21/2007	0.0	0.8		D
DUP	10198-40-0	2.23E-01		1.6E+00						L	06:18	20.0	3		
7261261	CS-134	-1.41E-01	pCi/L	1.6E+00	U	2.84E+00			GAMMALL_GS	1.9616E+00	09/21/2007	468.2	0.4		D
DUP	13967-70-9	3.50E-01		1.6E+00						L	06:18	20.0	3		
7261261	CS-137	1.43E+00	pCi/L	1.7E+00	U	3.20E+00			GAMMALL_GS	1.9616E+00	09/21/2007	42.6	0.4		D
DUP	10045-97-3	9.29E-01		1.7E+00						L	06:18	20.0	3		
7261261	EU-152	6.68E-01	pCi/L	3.7E+00	U	6.52E+00			GAMMALL_GS	1.9616E+00	09/21/2007	147.2	0.2		D
DUP	14683-23-9	1.01E-01		3.7E+00						L	06:18	20.0	3		
7261261	EU-154	-2.90E+00	pCi/L	3.4E+00	U	5.46E+00			GAMMALL_GS	1.9616E+00	09/21/2007	0.0	0.1		D
DUP	15585-10-1	-2.56E+00		3.4E+00						L	06:18	20.0	3		
7261261	EU-155	-1.35E+00	pCi/L	2.6E+00	U	4.35E+00			GAMMALL_GS	1.9616E+00	09/21/2007	0.0	0.2		D
DUP	14391-16-3	-1.04E+00		2.6E+00						L	06:18	20.0	3		
7261261	K-40	-4.42E+00	pCi/L	2.2E+01	U	4.34E+01			GAMMALL_GS	1.9616E+00	09/21/2007	0.0	0.5		D
DUP	13966-00-2	-1.16E+01		2.2E+01						L	06:18	20.0	3		
7261261	RU-106	-9.31E+00	pCi/L	1.4E+01	U	2.37E+01			GAMMALL_GS	1.9616E+00	09/21/2007	0.0	0.3		D
DUP	13967-48-1	-1.22E+01		1.4E+01						L	06:18	20.0	3		
7261261	SB-125	6.01E-01	pCi/L	3.1E+00	U	5.79E+00			GAMMALL_GS	1.9616E+00	09/21/2007	34.2	0.1		D
DUP	14234-35-6	8.49E-01		3.1E+00						L	06:18	20.0	3		

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

Tuesday, September 25, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\odd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id:	J3P1K1ER	**Sdg/Rept Nbr:**	W05214 36803	**Collection Date:**	07/26/2007 12:55
Client Id:	B1NWJ2	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	07/26/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A07-007	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
7218388	TC-99	4.48E+00	pCi/L	5.9E+00	U	9.73E+00	100.0		TC99_ETVDSK	1.266E-01	08/30/2007	59.9	0.9		D
DUP	14133-76-7	8.32E+00		4.2E+00						L	23:03	20.0	3		

TAL 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).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

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Tuesday, September 25, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id:	J3T4V1FR	**Sdg/Rept Nbr:**	W05214 36803	**Collection Date:**	07/26/2007 10:11
Client Id:	B1NL74	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	07/26/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-006	MW6-SBB-A19981								BX	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tol/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
7218383	ALPHA	6.19E+00	pCi/L	2.7E+00		1.73E+00	100.0		9310_ALPHAB	1.985E-01	09/07/2007	3.6	0.1		D
DUP	12587-46-1	5.97E+00		2.4E+00						L	16:42	20.0	3		

TAL Richland

rptFeadRadEdd v3.68

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

Tuesday, September 25, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id:	J3T4V1HR	**Sdg/Rept Nbr:**	W05214 36803	**Collection Date:**	07/26/2007 10:11
Client Id:	B1NL74	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	07/26/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-006	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
7218392	H-3	1.31E+04	pCi/L	6.7E+02		3.45E+02	100.0		906.0_H3_LSC	5.00E-03	08/18/2007	3.6	1.		D
DUP	10028-17-8	1.26E+04		4.1E+02						L	04:59	20.0	3		

TAL Richland
rptFeadRadEdd v3.68

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

Tuesday, September 25, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd,

Lab Sample Id:	J3T4V2GR	**Sdg/Rept Nbr:**	W05214	36803	**Collection Date:** 07/26/2007 10:11
Client Id:	B1NL74	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 07/26/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-006	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
7218384	BETA	1.37E+01	pCi/L	2.8E+00		2.74E+00	100.0		9310_ALPHAB	2.024E-01	09/07/2007	11.8	0.9		D
DUP	12587-47-2	1.54E+01		2.1E+00						L	19:23	20.0	3		

TAL Richland

rptFeadRadEdd v3.68

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

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Tuesday, September 25, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id:	J3VG01CR	**Sdg/Rept Nbr:**	W05214	36803	**Collection Date:** 07/27/2007 13:21
Client Id:	B1NXL4	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 07/27/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-007	MW6-SBB-A19981								CA	H

Batch # / Oc 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
7218380	Uranium	7.91E+00	ug/L	9.4E-01		7.70E-02			UTOT_KPA	2.72E-02	09/12/2007	.5	0.1		D
DUP	7440-61-1	7.95E+00		9.4E-01						ML	10:32	20.0	3		

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

Tuesday, September 25, 2007

TAL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id:	J3P0T1FW	**Sdg/Rept Nbr:**	W05214 36803	**Collection Date:**	07/26/2007 09:07
Client Id:	B1P1C4	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	MS	**Received Date:**	07/26/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-007	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
7218387	TC-99	3.26E+03	pCi/L	2.0E+02		1.25E+01	100.0	3.58E+03	TC99_SEP_LS	1.274E-01	08/30/2007			60	D
MS	14133-76-7			3.4E+01				91.1		L	06:04			140	

TAL Richland

rptFeadRadEdd v3.68

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

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Tuesday, September 25, 2007

TAL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id:	J3P1T1EW	**Sdg/Rept Nbr:**	W05214 36803	**Collection Date:**	07/26/2007 12:55
Client Id:	B1NWJ3	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	MS	**Received Date:**	07/26/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A07-007	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
7218388	TC-99	3.09E+03	pCi/L	1.9E+02		9.68E+00	100.0	3.55E+03	TC99_ETVDSK	1.274E-01	08/30/2007			60	D
MS	14133-76-7			3.0E+01				87.1		L	23:04			140	

TAL Richland

rptFeadRadEdd v3.68

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

Tuesday, September 25, 2007

TAL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05214.Edd, h:\Reportdb\edd\FeadIV\Rad\36803.Edd

Lab Sample Id: J3VHE1DW **Sdg/Rept Nbr:** W05214 36803 **Collection Date:** 07/27/2007 10:43

Client Id: B1NL59 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** MS **Received Date:** 07/27/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-006	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
7218380	Uranium	3.74E+01	ug/L	4.7E+00		8.25E-02		3.57E+01	UTOT_KPA	2.54E-02	09/12/2007			60	D
MS	7440-61-1			4.7E+00				104.8		ML	10:35			140	

TAL Richland

rptFeadRadEdd v3.68

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

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SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

9/10/2007 9:48:05 AM

Lot No., Due Date: J7G230182,J7G230191,J7G300110; 09/13/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7218383; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05214; 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:

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 OK	Yes ✓	No	N/A
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	Yes ✓	No	N/A
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	Yes ✓	No	N/A
8.06 At Least the Minimum Sample Volume Was Used OK	Yes ✓	No	N/A
8.07 The Correct Count Geometry was Used. OK	Yes ✓	No	N/A
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	Yes ✓	No	N/A
8.09 Method Blank is within Control Limits. OK	Yes ✓	No	N/A
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!	Yes	No	N/A ✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	Yes ✓	No	N/A
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	Yes ✓	No	N/A
8.14 LCS within Control Limits. OK	Yes ✓	No	N/A
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!	Yes	No	N/A ✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!	Yes	No	N/A ✓
8.17 Tracer within Control Limits. OK	Yes ✓	No	N/A
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	Yes ✓	No	N/A
8.19 Sample Specific MDC <= CRDL. OK	Yes ✓	No	N/A
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. Nc Limit Specified!	Yes	No	N/A ✓
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => J3ECK1AA ALPHA 3.7E+00 L:1.7E+00 J3ELC1AC ALPHA 2.0E+00 L:1.4E+00 J3EMA1AC ALPHA 3.5E+00 L:2.2E+00 J3T4V1AC ALPHA 6.0E+00 L:1.8E+00	Yes	No ✓	N/A
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => ALPHA OK; No Callin Level Found => ALPHA	Yes ✓	No	N/A
8.24 Result + 3s >=0, Not Too Negative. OK	Yes ✓	No	N/A
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!	Yes	No	N/A ✓
8.26 Instruments have Current Calibrations.	Yes	No	N/A
8.27 Correct Count Library Used. No Count Library found in Batch Data!	Yes	No	N/A ✓
8.28 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later versions)	Yes	No	N/A
8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later versions)	Yes	No	N/A
8.3 Comments:			
8.31 Results Blank Subtracted as Appropriate. OK	Yes ✓	No	N/A

First Level Review John Kottas **Date** 9-10-7

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7L18383
W05214

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: 9-10-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

9/10/2007 10:05:15 AM

Lot No., Due Date: J7G230182,J7G230191,J7G300110; 09/13/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7218384; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05214; 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=> J3T4V1AG BETA 30.0 (RPD)		✓	
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK	✓		
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	✓		
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => J3ECK1AC BETA 1.1E+01 L:3.1E+00 J3ELC1AD BETA 9.8E+00 L:2.9E+00 J3EMA1AD BETA 5.9E+01 L:2.9E+00 J3T4V1AD BETA 1.4E+01 L:2.8E+00 J3T4V2AD BETA 1.5E+01 L:2.8E+00		✓	
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => BETA OK; No Callin Level Found => BETA	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		

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

8.26 Instruments have Current Calibrations. Yes No N/A

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

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

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

8.3 Comments:
Please see NCM#10-10796

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

First Level Review John Koch Date 9-10-7

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7218384
W05214

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

Comments on any "No" response: See NCM

Second Level Review: Sheryl A Adam Date: 9-10-07

Clouseau
Nonconformance Memo

TestAmerica
THE PARTNER IN ENVIRONMENTAL TESTING

NCM #: **10-10796**
NCM Initiated By: John Norton
Date Opened: 09/10/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Beta by GPC-Sr/Y
Lot #'s (Sample #'s): J7G230182 (1), J7G230191 (1,2), J7G300110 (1), J7H060000 (384),
QC Batches: 7218384,

Nonconformance: Dups not within acceptance limits
Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
John Norton	09/10/2007	The sample and duplicate failed to agree.

Corrective Action

Name	Date	Corrective Action
John Norton	09/10/2007	The sample and duplicate were re-counted, the relative percent difference on the re-count is an acceptable 11.7%.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

9/6/2007 3:30:03 PM

Lot No., Due Date: J7G200400; 09/13/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7218382; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05214; WATER

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

6.0 Comments on any No response:

First Level Review Lisa Autonson **Date** _____

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7218382
W05214

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: 9-7-07

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

9/22/2007 11.04:19 AM

Lot No., Due Date: J7G230185,J7G270226; 09/13/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7261261; RGAMMA Gamma by GER

SDG, Matrix: W05214; 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:
NCM 10-10877

First Level Review Lisa Anderson **Date** 9/27/07

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 726126 / W05214

Review Item	Yes (√)	No (√)	NA (√)
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 within contract acceptance criteria?		/	
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	/		
7. Do the MS/MSD results and yields meet acceptance criteria?			/
8. Do the duplicate sample results and yields meet acceptance criteria?	/		
C. Other 1. Are all Non-conformances 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: Cheryl A Adam Date: 9-24-07

LS-038B, Rev. 10, 9/07

Clouseau
Nonconformance Memo

TestAmerica

NCM #:	10-10877		
NCM Initiated By	Lisa Antonson	Classification:	Anomaly
Date Opened	09/22/2007	Status:	GLREVIEW
Date Closed.		Production Area:	Environmental - Prep
		Tests:	Gamma by GER
		Lot #'s (Sample #'s):	J7G230185 (1), J7G270226 (1), J7H060000 (390),
		QC Batches:	7218390,
Nonconformance:	LCS result out of limits		
Subcategory:	Other (explanation required)		

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	09/22/2007	In this Gamma batch, the LCS had a low recovery for Eu-152. The sample was recounted and verified the original count. The batch was rerun as 7261261 with good results.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	09/22/2007	The batch was rerun.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

9/19/2007 12:29:00 PM

Lot No., Due Date: J7G230183,J7G230185,J7G230186,J7G260197,J7G260202,J7G270226,J7G270229,J7G300115..

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7218377; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05214; 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:
NCM 10-10866

First Level Review Lisa Antonson **Date** 9/19/07

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 7218377
W05214

Review Item	Yes (√)	No (√)	NA (√)
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 within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?			✓
C. Other 1. Are all Non-conformances included and noted?	✓		
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: See NCM

Second Level Review: Sheryl A. Adam Date: 9-20-07

LS-038B, Rev. 10, 9/07

Clouseau
Nonconformance Memo

TestAmerica

NCM #:	10-10866		
NCM Initiated By:	Lisa Antonson	Classification:	Deficiency
Date Opened:	09/19/2007	Status:	GLREVIEW
Date Closed:		Production Area:	Environmental - Prep
		Tests:	Gamma by LEPS
		Lot #'s (Sample #'s):	J7G230183 (1), J7G230185 (1), J7G230186 (1), J7G260197 (1), J7G260202 (1), J7G270226 (1), J7G270229 (1,2,3), J7G300115 (1,2), J7G310143 (1), J7H060000 (377),
		QC Batches:	7218377,
Nonconformance:	Other (describe in detail)		
Subcategory:	Other (explanation required)		

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	09/19/2007	In this Iodine batch, all samples except J3EEA, J3EHC and J3EJ5 were acidified, and therefore could not be analyzed for I-129. When the three remaining samples were run, the technician didn't have a duplicate added to one of the remaining samples. A duplicate was run in a seperate batch, 7257139, with acceptable results.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	09/19/2007	The technicians in sample recieving and pour up were retrained to avoid future errors.

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: 9/19/2007

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

9/19/2007 12:08:26 PM

Lot No., Due Date: ; HANFORD

Client, Site:

QC Batch No.. Method Test: 7257139; W05214 I129

SDG, Matrix: ;

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:
NCM 10-10866

First Level Review Lisa Autonson **Date** 9/19/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7257139

Review Item	Yes (√)	No (√)	NA (√)
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 within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Non-conformances included and noted?	✓		
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: See NCM

Second Level Review: Sheryl A Adam Date: 9-20-07

LS-038B, Rev. 10, 9/07

Clouseau
Nonconformance Memo

TestAmerica

NCM #: **10-10866**
NCM Initiated By: Lisa Antonson
Date Opened: 09/19/2007
Date Closed:

Classification: **Deficiency**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Gamma by LEPS
Lot #'s (Sample #'s): J7G230183 (1), J7G230185 (1), J7G230186 (1), J7G260197 (1), J7G260202 (1), J7G270226 (1), J7G270229 (1,2,3), J7G300115 (1,2), J7G310143 (1), J7H060000 (377),
QC Batches: 7218377,

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

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	09/19/2007	In this Iodine batch, all samples except J3EEA, J3EHC and J3EJ5 were acidified, and therefore could not be analyzed for I-129. When the three remaining samples were run, the technician didn't have a duplicate added to one of the remaining samples. A duplicate was run in a seperate batch, 7257139, with acceptable results.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	09/19/2007	The technicians in sample recieving and pour up were retrained to avoid future errors.

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: 9/19/2007

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

9/13/2007 10:48:53 AM

Lot No., Due Date: J7G270226; 09/13/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7218396; RH3EE H3EE by LSC

SDG, Matrix: W05214; 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 1.1 / No response:

First Level Review Lisa Autonson **Date** 9/13/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7218396
W05214

Review Item	Yes (√)	No (√)	NA (√)
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 within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Non-conformances 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: 9-13-07

LS-038B, Rev. 10, 9/07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

8/31/2007 12:07:12 PM

Lot No., Due Date: J7G230186,J7G230191,J7G270229; 09/13/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7218388; RTC99 Tc-99 by LSC

SDG, Matrix: W05214; WATER

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 8/31/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7218388

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: Erika Anderson Date: 5/31/17

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

8/30/2007 4:02:11 PM

Lot No., Due Date: J7G190461,J7G270226; 09/13/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7218387; RTC99 Tc-99 by LSC

SDG, Matrix: W05214; WATER

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

8.26 Instruments have Current Calibrations. Yes No N/A

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

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

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

8.3 Comments:

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

First Level Review Lisa Anderson Date 8/30/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7218387

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: Eric Jordan Date: 8/31/17

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

9/12/2007 3:33:04 PM

Lot No., Due Date:	J7G190461,J7G230182,J7G230186,J7G230191,J7G300110,J7G300141,J7G300144; 09/13/2007
Client, Site:	384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test:	7218380; RUNAT UNat by KPA
SDG, Matrix:	W05214; WATER

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

6.0 Comments on any No response:

First Level Review Lisa Arentson Date 9/12/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7L18380 W05214

Review Item	Yes (√)	No (√)	NA (√)
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 within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?	✓		
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Non-conformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: Sheryl A Adkins Date: 9-13-07

LS-038B, Rev. 10, 9/07

TAL RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J7G190461 W05314 Due 08-31-07	C.O.C. # W07-006-16 Page 1 of 1

Collector: Fluor Hanford D. R. BREWINGTON	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, JUNE 2007	HNF-N-506 L	Ice Chest No.: SAW5-10 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 samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
All SDG?s are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NNT7		W	7-18-07	1251	1x20-mL P	Activity Scan	None
B1NNT7		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
B1NNT7		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						J27TN	

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
Fluor Hanford D. R. BREWINGTON	D.R. Brewington	JUL 18 2007 1445		LARRY J LANE	JUL 18 2007 1445
Relinquished By		Date/Time	Received By		Date/Time
Relinquished By		Date/Time	Received By		Date/Time
Relinquished By		Date/Time	Received By		Date/Time

Matrix *

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

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 071807 1445

Client: PGW SDG #: W05214 NA [ ] SAF #: W07-00C NA [ ]

Work Order Number: J7G190461 Chain of Custody # W07-006-16

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 [ ] HAD TO ADJUST PH

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

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

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

Sample Custodian: [signature] Date: 071807

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

TAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J76200400 W05214 Due 09.03.07

C.O.C.# I07-053-70

Page 1 of 1

Collector Steve Overdahl Fluor Hanford	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. I07-053	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 100KR4IAM(1/2)-LOI JULY 2007	HNF-N-506-7	Ice Chest No. SML-595 Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol CERCLA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NWT7		W	7/19/7	0941	1x20-mL P	Activity Scan	None
B1NWT7		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						J3A2J	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Steve Overdahl Fluor Hanford		JUL 19 2007	1525		HARLEY LANE	JUL 19 2007	1525
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 071907 1525

Client: PGW SDG #: W05214 NA [ ] SAF #: I07-053 NA [ ]

Work Order Number: J7G200400 Chain of Custody # I07-053-70

Shipping Container ID: _____ Air Bill # _____

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

Sample Custodian: RJR Date: 071907

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

TAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7G230182 W05214 Due ~~09-06-07~~ 09.03.07 JS

C.O.C. # S07-006-306

Page 1 of 1

Collector: Fluor Hanford K. B. HULSE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV. JUNE 2007	HNF-N	Ice Chest No.: 3KENS Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: SURV	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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NL55		W	7/20/07	1230	1x20-mL P	Activity Scan	None
B1NL55		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1NL55		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						J3ECK	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford K. B. HULSE			JUL 20 2007 1320		LARRY J LAWE		JUL 20 2007 1320
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 72007 1320

Client: PGW SDG #: W05214 NA [ ] SAF #: S07-006 NA [ ]

Work Order Number: J7G230182 Chain of Custody # S07-006-306

Shipping Container ID:_____ Air Bill #_____

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

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

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

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

6. Number of samples in shipping container: 1

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

8. Samples have:
   ____tape
   ✓ custody seals
   ____hazard labels
   ✓ appropriate samples labels

9. Samples are:
   ✓ in good condition
   ____broken
   ____leaking
   ____have air bubbles
   (Only for samples requiring head space)

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

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

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

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

Sample Custodian: RJR Date: 72007

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

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7G230183 W05214 DUE 9-3-07

C.O.C. # S07-005-116

Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056	MSIN / FAX
SAF No.: S07-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code	
Project Title: SURV. MAY 2007	HNF-N-506-8	Ice Chest No.	Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.	
Protocol: SURV	Priority: 45 Days	Offsite Property No.	

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N3Y3		W	7-20-07	0957	1x20-mL P	Activity Scan	None
B1N3Y3		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						J3EEA	

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
Fluor Hanford R T SICKLE		1320 JUL 20 2007		LARRY J LANE	1320 JUL 20 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

SEVERN TRENT STL

J7G230183
W05214
DUE 9-3-07

Sample Check-in List

Date/Time Received: 72007 1320

Client: PGW SDG #: _____ NA [ ] SAF #: 507-005 NA [ ]

Work Order Number: _____ Chain of Custody # 507-005-116

Shipping Container ID: _____ Air Bill # _____

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

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

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

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

6. Number of samples in shipping container: 1

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

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

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

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

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

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

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

Sample Custodian: RJR Date: 72007

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

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7G230185 W05214 DUE 9-3-07

C.O.C. # S07-004-146

Page 1 of 1

Collector: Fluor Hanford K. B. HULSE	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: S07-004	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, APRIL 2007	HNF-N-502 9	Ice Chest No.: SKINS Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: SURV	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
B1MR09		W	7/20/07	1120	1x20-mL P	Activity Scan	None
B1MR09		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1MR09		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

J3EHC

Relinquished By: Fluor Hanford K. B. HULSE Print Sign	Date/Time: JUL 20 2007 1320	Received By: Print LARRY LANE Sign	Date/Time: JUL 20 2007 1320
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

TAL RICHLAND

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SEVERN TRENT STL

J7G230185
W05214
DUE 9-3-07

Sample Check-in List

Date/Time Received: 72007 1320

Client: PGW SDG #: _____ NA [ ] SAF #: 507-004 NA [ ]

Work Order Number: _____ Chain of Custody # 507-004-146

Shipping Container ID: _____ Air Bill # _____

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

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

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

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

6. Number of samples in shipping container: 1

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

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

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

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

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

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

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

Sample Custodian: RJR Date: 72007

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

TAL RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # A07-006-37
	J7G230186 W05214 DUE 9-3-07	Page 1 of 1

Collector: Fluor Hanford K. B. HULSE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: A07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: LLWMA(1)-PA, JUNE 2007	HNF-N-506 9	Ice Chest No.: SKINS Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: Other	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 samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
All SDG?s are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NJ09		W	7/20/07	0827	1x20-mL P	Activity Scan	None
B1NJ09		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1NJ09		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1NJ09		W			1x250-mL G	906.0_H3_LSC: Tritium (1)	None
B1NJ09		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

J3EJ5

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Fluor Hanford K. B. HULSE	KB Hulse	JUL 20 2007 1320		LARRY J LANE		JUL 20 2007 1320
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

SEVERN TRENT STL

J7G230186
W05214
DUE 9-3-07

Sample Check-in List

Date/Time Received: 72007 1320

Client: PGW SDG #: _____ NA [ ] SAF #: A07-006 NA [ ]

Work Order Number: _____ Chain of Custody # A07-006-37

Shipping Container ID: _____ Air Bill # _____

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

Sample Custodian: [signature] Date: 72007

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

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TAL RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S07-006-318
	J7G230191 W05214 DUE 9-3-07	Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV. JUNE 2007	HNF-N-506-8	Ice Chest No. Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NL90		W	7-20-07	1149	1x20-mL P	Activity Scan	None
B1NL90		W	↓	↓	1x250-mL G	906.0_H3_LSC: Tritium (1)	None
B1NL90		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2

J3ELC

Fluor Hanford R. T. SICKLE Print Sign Date/Time 1320 JUL 20 2007	Received By Print LARRY J LANE Sign Date/Time 1320 JUL 20 2007	Matrix *	
Relinquished By Date/Time	Received By Date/Time	S = Soil; SF = Sediment; SO = Solid; SL = Sludge; W = Water; O = Oil; A = Air	DS = Drum Solid; DL = Drum Liquid; T = Tissue; WI = Wipe; L = Liquid; V = Vegetation; X = Other
Relinquished By Date/Time	Received By Date/Time		
Relinquished By Date/Time	Received By Date/Time		

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

TAL RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S07-006-312
	JTG230191 W05ZH DUE 9-3-07	Page 1 of 1

Collector: Fluor Hanford ~~F.M. HALL~~ JA 7-20-07 RT SICKLE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV. JUNE 2007	HNF-N-506 ~~4~~ 8 JA 7-20-07	Ice Chest No.: ~~SHC 138~~ 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 ☐

20 JA 7-20-07

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NL86		W	7/12/07	1232	1x20-mL P	Activity Scan	None
B1NL86		W	↓	↓	1x250-mL G	906.0_H3_LSC: Tritium (1)	None
B1NL86		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1NL86		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1NL86		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

J3EMA

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
JA 7-20-07 Fluor Hanford ~~F.M. HALL~~	R.T. SICKLE		JUL 12 2007 1320 20 JA 7-20-07		LARRY J LANE		JUL 12 2007 1320 20 JA 7-20-07
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 = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

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

SEVERN TRENT STL

Sample Check-in List DUE 9-3-07

Date/Time Received: 7-20-07 1320

Client: PGW SDG #: W05214 NA [ ] SAF #: 507-006 NA [ ]

Work Order Number: JG230191 Chain of Custody # 507-006-318, -312

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: [signature] Date: 7 2007

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

TAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J76260197 W05214 Due 09.07.07

C.O.C. # I07-049-46

Page 1 of 1

Collector: D. WALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I07-049	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2UP1-LOI, JUNE 2007	HNF-N-506-N	Ice Chest No.: 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 samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
All SDG?s are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NJY0		W	7-25-07	0923	1x20-mL P	Activity Scan	None
B1NJY0		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						J3LQF	

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
D. WALL	JUL 25 2007 1255	LARRY LANE	JUL 25 2007 1255
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	
SR = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wipe	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 72507 1255

Client: PGW SDG #: W05214 NA [ ] SAF #: I07-049 NA [ ]

Work Order Number: J76260197 Chain of Custody # I07-049-46

Shipping Container ID: _____ Air Bill # _____

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

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

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

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

6. Number of samples in shipping container: 1

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

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

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

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

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

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

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

Sample Custodian: [signature] Date: 72507

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

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TAL RICHLAND

PNNL

Fluor Hanford

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7G260202 W05214 Due 09-07-07

C.O.C. # S07-005-172

Page 1 of 1

Collector: L. D. WALL	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: S07-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, MAY 2007	HNF-N-506-6	Ice Chest No.: 101 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS

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

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

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N3P6		W	7-25-07	1100	1x20-mL P	Activity Scan	None
B1N3P6		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						J3LQP	

Relinquished By	Date/Time	Received By	Date/Time
Fluor Hanford L. D. WALL Print / R. D. Wall Sign JUL 25 2007	1255	Print / LARRY J LANE Sign JUL 25 2007	1255
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

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

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 72507 1255

Client: PGW SDG #: W05214 NA [ ] SAF #: 507-005 NA [ ]

Work Order Number: J76260202 Chain of Custody # 507-005-172

Shipping Container ID: _____ Air Bill # _____

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

Sample Custodian: [signature] Date: 72507

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

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TAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J76270226 W05214 Dm 09.10.07

C.O.C. # S07-007-300

Page 1 of 1

Collector: Fluor Hanford D. WALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-007	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV. JULY 2007	HNF-N-506-6	Ice Chest No.: 057 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
" "

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1P1C4		W	7.26.07	0907	1x20-mL P	Activity Scan	None
B1P1C4		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
B1P1C4		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1P1C4		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1P1C4		W			3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None
						J3P0T	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. WALL		D. Wall	JUL 26 2007 1450		W LANE		JUL 26 2007 1450
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 72607 1450

Client: PGW SDG #: W05214 NA [ ] SAF #: 507-007 NA [ ]

Work Order Number: J76270226 Chain of Custody # 507-007-500

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 [ ] HAD TO ADJUST PH
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 72607

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

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TAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7G270229 W05214 Due 9-10-07

C.O.C. # A07-007-13

Page 1 of 1

Collector: Fluor Hanford L. D. WALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: A07-007	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: LLWMA(4)-PA, JULY 2007	HNF-N-506-6	Ice Chest No.: 057 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: Other	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NWJ6		W	7-26-07	1130	1x20-mL P	Activity Scan	None
B1NWJ6		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1NWJ6		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1NWJ6		W			1x250-mL G	906.0_H3_LSC: Tritium (1)	None
						J3P1W	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L. D. WALL		L. D. Wall	JUL 2 6 2007 1450		LARRY J LANE		JUL 2 6 2007 1450
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liquid	
SO = Solid		T = Tissue	
SL = Sludge		WI = 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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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7G270229 W05214 Due 09.10.07

C.O.C. # A07-007-10

Page 1 of 1

Collector: Fluor Hanford L. D. WALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: A07-007	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: LLWMA(4)-PA, JULY 2007	HNFN-506-6	Ice Chest No.: 057 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: Other	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS

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

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

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

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

All SDG's are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NWJ3		W	7-26-07	1255	1x20-mL P	Activity Scan	None
B1NWJ3		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1NWJ3		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1NWJ3		W			1x250-mL G	906.0_H3_LSC: Tritium (1)	None
						J3P1T	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L. D. WALL		L. D. Wall	JUL 26 2007 1450		LARRY J LANE		JUL 26 2007 1450
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SR = 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

TAL RICHLAND

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7G270229 W05214 Due 09.10.07

C.O.C. # A07-007-9

Page 1 of 1

Collector: Fluor Hanford L. D. WALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: A07-007	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: LLWMA(4)-PA, JULY 2007	HNF-N-506.6	Ice Chest No.: 057 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: Other	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NWJ2		W	7-26-07	1255	1x20-mL P	Activity Scan	None
B1NWJ2		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1NWJ2		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1NWJ2		W			1x250-mL G	906.0_H3_LSC: Tritium (1)	None
						J3P1R	

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Fluor Hanford L. D. WALL / L. D. Wall	JUL 2 6 2007 1450	LJ LANE	JUL 2 6 2007 1450
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

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

TAL RICHLAND

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SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 72607 1450

Client: PGW SDG #: W05214 NA [ ] SAF #: A07-007 NA [ ]

Work Order Number: J76270229 Chain of Custody # A07-007-9,-10,-13

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 [ ] HAD TO ADJUST PH

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

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

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

Sample Custodian: [signature] Date: 72607

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

JL RICHLAND

TAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

W05214 J7G300110 DUE 9+80 7 05 07

C.O.C. # S07-006-474

Page 1 of 1

Collector: Fluor Hanford F. M. HALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV. JUNE 2007	HNF-M-506-7	Ice Chest No. SAWS105 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NL74		W	7/26/7	1011	1x20-mL P	Activity Scan	None
B1NL74		W			1x250-mL G	906.0_H3_LSC: Tritium (1)	None
B1NL74		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1NL74		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						J3T4V	

Relinquished By: Fluor Hanford F. M. HALL Print Sign JUL 26 2007 Date/Time 1510	Received By: W LANE Print Sign JUL 26 2007 Date/Time 1510	Matrix *
Relinquished By Date/Time	Received By Date/Time	S = Soil, SE = Sediment, SO = Solid, SL = Sludge, W = Water, O = Oil, A = Air, DS = Drum Solid, DL = Drum Liquid, T = Tissue, WI = Wipe, L = Liquid, V = Vegetation, X = Other
Relinquished By Date/Time	Received By Date/Time	
Relinquished By Date/Time	Received By Date/Time	

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

105

SEVERN TRENT STL

Sample Check-in List

DUE 9/05/07

Date/Time Received: 72607 1510

Client: PGW SDG #: W05214 NA [ ] SAF #: 507-006 NA [ ]

Work Order Number: 176300110 Chain of Custody # 507-006-474

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 [ ] HAD TO ADJUST PH

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

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

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

Sample Custodian: [signature] Date: 72607

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7G300115 W05214 DUE 91007

C.O.C. # S07-007-140

Page 1 of 1

Collector: Fluor Hanford F.M. HALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-007	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JULY 2007	HNF-N-506-7	Ice Chest No. SAWS-105 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NXF3		W	7/26/7	1334	1x20-mL P	Activity Scan	None
B1NXF3		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						J3T5Q	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F.M. HALL		JUL 2 6 2007	1510		LJ LANE	JUL 2 6 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 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

TAL RICHLAND

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TAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7G300115 W05214 DUE 91007

C.O.C. # S07-007-126

Page 1 of 1

Collector Fluor Hanford F.M. HALL	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. S07-007	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURV, JULY 2007	HHF-N-506-7	Ice Chest No. SAW5102 Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NXD7		W	7/26/7	1205	1x20-mL P	Activity Scan	None
B1NXD7		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						J3T5W	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F.M. HALL		JUL 2 6 2007	1510		W LANE	JUL 2 6 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 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

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SEVERN TRENT STL

DUE 91007

Sample Check-in List

Date/Time Received: 072607 1510

Client: PGW SDG #: W05214 NA [ ] SAF #: 507-007 NA [ ]

Work Order Number: 17G300115 Chain of Custody # 507-007-126,-140

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 [ ] HAD TO ADJUST PH

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

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

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

Sample Custodian: [signature] Date: 72607

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

TAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7G300141 W05214 Due 09-10-07

C.O.C. # S07-007-168

Page 1 of 1

Collector: Fluor Hanford F. M. HALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-007	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV. JULY 2007	HNF - N - 506 - 7	Ice Chest No. SALS-101 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS

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

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

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NXL4		W	7/27/7	1321	1x20-mL P	Activity Scan	None
B1NXL4		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						J3VG0	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F. M. HALL		JUL 27 2007	1345		LJ LANE	JUL 27 2007	1345
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: 72707 1345

Client: PGW SDG #: W05214 NA [ ] SAF #: 507-007 NA [ ]

Work Order Number: J7G300141 Chain of Custody # 507-007-168

Shipping Container ID: _____ Air Bill # _____

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

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

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

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

6. Number of samples in shipping container: 1

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

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

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

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

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

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

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

Sample Custodian: [signature] Date: 72707

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

TAL RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST JTG 300144 W05214 Due 09.10.07	C.O.C. # S07-006-376 Page 1 of 1

Collector S. OVERDAHL	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. S07-006	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURV. JUNE 2007	HNF-N-506 9	Ice Chest No. SKINS Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NL59		W	7-27-07	1043	1x20-mL P	Activity Scan	None
B1NL59		W	↓	↓	1x250-mL G	906.0_H3_LSC: Tritium (1)	None
B1NL59		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						J3VHE	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
S. OVERDAHL	S. Overdahl		JUL 27 2007 1345		LILANE		JUL 27 2007 1345
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 72707 1345

Client: PGW SDG #: W05214 NA [ ] SAF #: 507-006 NA [ ]

Work Order Number: J76300144 Chain of Custody # 507-006-376

Shipping Container ID: _____ Air Bill # _____

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

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

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

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

6. Number of samples in shipping container: 1

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

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

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

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

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

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

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

Sample Custodian: RJ Date: 72707

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

TAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7G310143 W05314 Due 09-13-07

C.O.C. # S07-007-110

Page 1 of 1

Collector: Fluor Hanford D. R. BREWINGTON	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869	MSIN / FAX
SAF No.: S07-007	Sampling Origin: Hanford Site	Purchase Order/Charge Code	
Project Title: SURV. JULY 2007	logbook: HNF-N-506-6	Ice Chest No.: TJ-8	Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.	
Protocol: SURV	Priority: 45 Days	Offsite Property No.	

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NXC5		W	7/30/07	0935	1x20-mL P	Activity Scan	None
B1NXC5		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						J3WN1	
				K. Wall 7/30/07			

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON	D.R. Brewington	JUL 3 0 2007	1150		LJ LANE	JUL 3 0 2007	1150
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

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SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 73007 1150

Client: PGW SDG #: W05214 NA [ ] SAF #: 507-007 NA [ ]

Work Order Number: J76310143 Chain of Custody # 507-007-110

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 [ ] HAD TO ADJUST PH
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: RJ Date: 73007

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

TAL RICHLAND

8/28/2007 7:48:58 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: 246

AnalyDueDate: 09/03/2007 W05214

Sep1 DT/Tm Tech:

Batch: 7218383 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J3ECK-1-AA J7G230182-1-SAMP 07/20/2007 12:30		200.90g,in AmtRec: 20ML,500MLP,LP #Containers: 3		1.5	39.6	50	10C Scr: Alpha: 1.35E-04 uCi/Sa	1554	9/7/07 K Beta: -3.28E-05 uCi/Sa	
2 J3ELC-1-AC J7G230191-1-SAMP 07/20/2007 11:49		201.50g,in AmtRec: 20ML,250ML,1LP #Containers: 3			38.4		10J Scr: Alpha: 4.80E-05 uCi/Sa		Beta: -1.41E-04 uCi/Sa	
3 J3EMA-1-AC J7G230191-2-SAMP 07/20/2007 12:32		201.40g,in AmtRec: 20ML,250ML,2X500ML,1LP #Containers: 5			46.5		10F Scr: Alpha: -4.63E-04 uCi/Sa		Beta: 3.11E-04 uCi/Sa	
4 J3T4V-1-AC J7G300110-1-SAMP 07/26/2007 10 11		200.70g,in AmtRec 20MLVIAL,250MLP,500MLP,LP #Containers: 4			51.6		10A Scr: Alpha: 5.11E-05 uCi/Sa	1707	9/7/07 KP Beta: 2.22E-04 uCi/Sa	
5 J3T4V-1-AF-X J7G300110-1-DUP 07/26/2007 10:11		198.50g,in AmtRec: 20MLVIAL,250MLP,500MLP,LP #Containers: 4			47.9		10B Scr: Alpha: 5.11E-05 uCi/Sa		Beta: 2.22E-04 uCi/Sa	
6 J3905-1-AA-B J7H060000-383-BLK 07/26/2007 10:11		200.10g,in AmtRec: #Containers: 1			0.7		10C Scr: Alpha:		Beta:	
7 J3905-1-AC-C J7H060000-383-LCS 07/26/2007 10:11		200.90g,in AmtRec: #Containers: 1	ASD4267 07/23/07,pd 06/01/01,r		2.3		10D Scr: Alpha:		Beta:	

STL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1 ISV - Insufficient Volume for Analysis WO Cnt: 7
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4 8 26

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TAL RICHLAND

8/28/2007 7:49:00 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: 09/03/2007

Batch: 7218383 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:

Comments: PH<2.0 JB 8-28-07

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

J3ECK1AA-SAMP Constituent List:

ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
J39051AA-BLK:					
ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
J39051AC-LCS:					
Am-241	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

J3ECK1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J39051AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J39051AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TAL RICHLAND

8/28/2007 7:43:06 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: 244

AnalyDueDate: 09/03/2007 W05214

Sep1 DT/Tm Tech:

Batch: 7218384 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7218380 DHSS, 7218383 AZS7, 7218304 BCS8,

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 J3ECK-1-AC J7G230182-1-SAMP 07/20/2007 12:30		203.50g,in AmtRec: 20ML,500MLP,LP #Containers: 3		1.5	75.1	100	26a Scr: Alpha: 1.35E-04 uCi/Sa	1011	9/7/07 R Beta: -3.28E-05 uCi/Sa	
2 J3ELC-1-AD J7G230191-1-SAMP 07/20/2007 11:49		199.30g,in AmtRec: 20ML,250ML,1LP #Containers: 3			87.1		26b Scr: Alpha: 4.90E-05 uCi/Sa		Beta: -1.41E-04 uCi/Sa	
3 J3EMA-1-AD J7G230191-2-SAMP 07/20/2007 12:32		200.30g,in AmtRec: 20ML,250ML,2X500ML,1LP #Containers: 5			101.7		26c Scr: Alpha: -4.63E-04 uCi/Sa		Beta: 3.11E-04 uCi/Sa	
4 J3T4V-1-AD J7G300110-1-SAMP 07/26/2007 10:11		199.00g,in AmtRec: 20MLVIAL,250MLP,500MLP,LP #Containers: 4			92.1		26d Scr: Alpha: 5.11E-05 uCi/Sa		Beta: 2.22E-04 uCi/Sa	
5 J3T4V-1-AG-X J7G300110-1-DUP 07/26/2007 10:11		202.40g,in AmtRec: 20MLVIAL,250MLP,500MLP,LP #Containers: 4			113		27a Scr: Alpha: 5.11E-05 uCi/Sa		Beta: 2.22E-04 uCi/Sa	
6 J3906-1-AA-B J7H060000-384-BLK 07/26/2007 10:11		199.30g,in AmtRec: #Containers: 1			0.1		27b Scr: Alpha:		Beta:	
7 J3906-1-AC-C J7H060000-384-LCS 07/26/2007 10:11		199.00g,in AmtRec: #Containers: 1	BESB3111 07/23/07,pd 10/11/06,r		1.1		27c Scr: Alpha:		Beta:	

STL Richland Key: In - Initial Amt, fl - 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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TAL RICHLAND

8/28/2007 7:43:10 AM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 09/03/2007

Sep1 DT/Tm Tech:

Batch: 7218384 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

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

Comments: PH<2.0 8-28-07

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

J3ECK1AC-SAMP Constituent List:
BETA RDL:4 pCi/L LCL: UCL: RPD:
J39061AA-BLK:
BETA RDL:4 pCi/L LCL: UCL: RPD:
J39061AC-LCS:
Sr-90 RDL: pCi/L LCL:70 UCL:130 RPD:20

J3ECK1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J39061AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J39061AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

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9/7/2007 11:59:48 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 09/03/2007

Sep1 DT/Tm Tech:

Batch: 7218384 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J3ECK-1-AC J7G230182-1-SAMP 07/20/2007 12:30		203.50g,in AmtRec: 20ML,500MLP,LP #Containers: 3					Scr:	Alpha: 1.35E-04 uCi/Sa	Beta: -3.28E-05 uCi/Sa	
2 J3ELC-1-AD J7G230191-1-SAMP 07/20/2007 11:49		199.30g,in AmtRec: 20ML,250ML,1LP #Containers: 3					Scr:	Alpha: 4.90E-05 uCi/Sa	Beta: -1.41E-04 uCi/Sa	
3 J3EMA-1-AD J7G230191-2-SAMP 07/20/2007 12:32		200.30g,in AmtRec: 20ML,250ML,2X500ML,1LP #Containers: 5					Scr:	Alpha: -4.63E-04 uCi/Sa	Beta: 3.11E-04 uCi/Sa	
4 J3T4V-1-AD J7G300110-1-SAMP 07/26/2007 10:11		199.00g,in AmtRec: 20MLVIAL,250MLP,500MLP,LP #Containers: 4					Scr:	Alpha: 5.11E-05 uCi/Sa	Beta: 2.22E-04 uCi/Sa	
5 J3T4V-1-AG-X J7G300110-1-DUP 07/26/2007 10:11		202.40g,in AmtRec: 20MLVIAL,250MLP,500MLP,LP #Containers: 4					Scr:	Alpha: 5.11E-05 uCi/Sa	Beta: 2.22E-04 uCi/Sa	
[redacted] J7G300110-1-SAMP 07/26/2007 10:11		199.00 AmtRec: 20MLVIAL,250MLP,500MLP,LP #Containers: 4		1.5	92.1	100	27C Scr:	2013 Alpha: 5.11E-05 uCi/Sa	9/7/07 00 Beta: 2.22E-04 uCi/Sa	
[redacted] J7G300110-1-DUP 07/26/2007 10:11		202.4 AmtRec: 20MLVIAL,250MLP,500MLP,LP #Containers: 4			113.0		27D Scr:	Alpha: 5.11E-05 uCi/Sa	Beta: 2.22E-04 uCi/Sa	

TAL RICHLAND

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9/7/2007 11:59:49 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: 09/03/2007

Batch: 7218384 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 J3906-1-AA-B J7H060000-384-BLK 07/26/2007 10:11	AmtRec:	199.30g,in	#Containers: 1					Scr:	Alpha:	Beta:
9 J3906-1-AC-C J7H060000-384-LCS 07/26/2007 10:11	AmtRec:	199.00g,in	BESB3111 07/23/07,pd 10/11/06,r #Containers: 1					Scr:	Alpha:	Beta:

Comments:

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

J3ECK1AC-SAMP Constituent List:
BETA RDL:4 pCi/L LCL: UCL: RPD:
J39061AA-BLK:
BETA RDL:4 pCi/L LCL: UCL: RPD:
J39061AC-LCS:
Sr-90 RDL: pCi/L LCL:70 UCL:130 RPD:20

J3ECK1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J39061AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J39061AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TAL RICHLAND
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9/10/2007 9:59:49 AM

ICOC Fraction Transfer/Status Report

ByDate: 9/10/2006, 9/15/2007, Batch: '7218384', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7218384						
AC		CalcC	BockJ	8/28/2007 7:37:56		
SC			Wagarr	IsBatched	8/6/2007 3:29:18 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	8/28/2007 7:37:56 AM	RICH-RC-5014 Revision 7
SC			BockJ	Prep1C	8/28/2007 7:43:08 AM	RICH-RC-5014 REVISION 7
SC			AshworthA	InPrep2	9/5/2007 9:47:44 AM	RICH-RC-5014 REVISION 7
SC			AshworthA	Prep2C	9/6/2007 5:15:54 PM	RICH-RC-5014 REVISION 7
SC			DAWKINSO	InCnt1	9/6/2007 6:48:25 PM	RICH-RD-0003 REVISION 5
SC			StringerR	CalcC	9/7/2007 10:45:26 AM	RICH-RD-0003 REVISION 5
SC			StringerR	InCnt1	9/7/2007 1:01:49 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	9/7/2007 9:53:19 PM	RICH-RD-0003 REVISION 5
AC			BockJ	8/28/2007 7:43:08		
AC			AshworthA	9/5/2007 9:47:44 AM		
AC			AshworthA	9/6/2007 5:15:54 PM		
AC			DAWKINSO	9/6/2007 6:48:25 PM		
AC			StringerR	9/7/2007 10:45:26		
AC			StringerR	9/7/2007 1:01:49 PM		
AC			DAWKINSO	9/7/2007 9:53:19 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 8

ICOCFractions v4.8.27

TAL RICHLAND

TAL RICHLAND

8/27/2007 10:34:41 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #:

AnalyDueDate: 09/03/2007 WD5214

Sep1 DT/Tm Tech: 8-28-07 8:06 AM

Batch: 7218382 WATER pCi/L
SEO Batch, Test: None All Tests: 7218382 CLTL,

PM, Quote: SA , 57671

Sep2 DT/Tm Tech: 9-4-07 10:30 AM DRM

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 J3A2J-1-AA J7G200400-1-SAMP		996.00g,in YIA17714 Ex:6/10/2006	SRTB15140 08/08/07,pd 05/22/07,r	1.645 1.9918 0.8259		25.4	100	9" 1A 7a	2053 OUV 1206	8/28/07 OD 9/6/07 9/6/07 K	
07/19/2007 09:41		AmtRec: 20ML,3XLP						Scr:	Alpha: 8.48E-04 uCi/Sa	Beta: -2.29E-04 uCi/Sa	
2 J3A2J-1-AC-X J7G200400-1-DUP		995.60g,in YIA17715 Ex:6/10/2006	SRTB15141 08/08/07,pd 05/22/07,r	1.945 1.9860 0.8787		24.9		3" 1B 7b	2053 OUV 1206	8/28/07 OD 9/6/07 9/6/07 K	
07/19/2007 09:41		AmtRec: 20ML,3XLP						Scr:	Alpha: 8.48E-04 uCi/Sa	Beta: -2.29E-04 uCi/Sa	
3 J3903-1-AA-B J7H060000-382-BLK		995.50g,in YIA17716 Ex:6/10/2006	SRTB15142 08/08/07,pd 05/22/07,r	1.022 1.9918 0.5131		24.8		4" 1C 7c	2125 OUV 1206	8/28/07 OD 9/5/07 9/6/07 K	
07/19/2007 09:41		AmtRec:						Scr:	Alpha:	Beta:	
4 J3903-1-AC-C J7H060000-382-LCS		999.70g,in YIA17717 Ex:6/10/2006	SRSG1374 08/15/07,pd 05/22/07,r	1.519 1.9982 0.7592		25.1	K	3" 1D 1B	2125 OUV 1206	8/28/07 OD 9/5/07 9/6/07 K	
07/19/2007 09:41		AmtRec:						Scr:	Alpha:	Beta:	

STL Richland Key: In - Initial Amt, fi - Final Amt, dl - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

ISV - Insufficient Volume for Analysis

WO Cnt: 4
Prep_SamplePrep v4.8.28

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TAL RICHLAND

8/27/2007 10:34:43 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 09/03/2007

Sep1 DT/Tm Tech:

Batch: 7218382 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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

Comments: PH<2.0 938-27-07

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

J3A2J1AA-SAMP Constituent List:

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

J39031AA-BLK:

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

J39031AC-LCS:

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

J3A2J1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J39031AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J39031AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

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TAL RICHLAND

9/18/2007 5:16:51 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 09/03/2007

Sep1 DT/Tm Tech:

Batch: 7261261 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,ClarkR/ Becky

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 J3EHC-2-AA J7G230185-1-SAMP 07/20/2007 11:00	AmtRec: 20ML,3X4LP	1939.40g,in #Containers: 4			100mL	200	64 Scr:	0937 Alpha: 4.35E-03 uCi/Sa	9/21/07 Beta: -2.23E-03 uCi/Sa	
2 J3P0T-2-AA J7G270226-1-SAMP 07/26/2007 09:07	AmtRec: 20ML,6XLP,3X4LP	2002.00g,in #Containers: 10					65 Scr:	0938 Alpha: -1.73E-03 uCi/Sa	Beta: 1.00E-02 uCi/Sa 1.6E-01L	
3 J3P0T-2-AG-X J7G270226-1-DUP 07/26/2007 09:07	AmtRec: 20ML,6XLP,3X4LP	1961.60g,in #Containers: 10					68 Scr:	0939 Alpha: -1 73E-03 uCi/Sa	Beta: 1.00E-02 uCi/Sa 1.6E-01L	
4 J391E-2-AA-B J7H060000-390-BLK 07/26/2007 09:07	AmtRec.	2000.60g,in #Containers: 1					64 Scr:	1310 Alpha:	9/21/07 Beta:	
5 J391E-3-AC-C J7H060000-390-LCS 07/26/2007 09:07	AmtRec.	2000.20g,in #Containers: 1	QCAG1402 08/15/07,pd 03/07/05,r				67 Scr:	0939 Alpha:	9/21/07 Beta:	

Comments: pH < 2.0 RC 09/18/07

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

J3EHC2AA-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:

STL Richland Key: In - Initial Amt, fl - 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 Prep_SamplePrep v4.8.26

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9/18/2007 5:16:53 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 09/03/2007

Sep1 DT/Tm Tech:

Batch: 7261261 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ClarkR

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
Cs-137	RDL:6.00E+00 pCi/L	LCL: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:	
J391E2AA-BLK:										
Co-60	RDL:25 pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:6 pCi/L	LCL:	UCL:	RPD:	
Cs-137	RDL:15 pCi/L	LCL:	UCL:	RPD:	Cs-137DA	RDL:15 pCi/L	LCL:	UCL:	RPD:	
Eu-154	RDL:50 pCi/L	LCL:	UCL:	RPD:	Eu-155	RDL:50 pCi/L	LCL:	UCL:	RPD:	
K-40	RDL:6 pCi/L	LCL:	UCL:	RPD:	Sb-125	RDL:6 pCi/L	LCL:	UCL:	RPD:	
J391E3AC-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						

J3EHC2AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

J391E2AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

J391E3AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TAL RICHLAND

9/10/2007 4:22:29 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #:

AnalyDueDate: 09/03/2007

Sep1 DT/Tm Tech:

Batch: 7218377 WATER pCi/L
SEQ Batch, Test: None All Tests: 7218377 BNTB.

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

Prep Tech: ,ClarkR

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 J3EEA-1-AA J7G230183-1-SAMP 07/20/2007 09:51	AmtRec: 20ML,2X4LP #Containers: 3	3931.40g,in	ITA6554 07/25/07		31.5	100	L2	1430	9/12/07	Scr: Alpha: 1.21E-03 uCi/Sa Beta: -7.00E-04 uCi/Sa
2 J3EHC-1-AC J7G230185-1-SAMP 07/20/2007 11:00	AmtRec: 20ML,3X4LP #Containers: 4	3908.00g,in	ITA6555 07/25/07		34.0		L4	1430		Scr: Alpha: 4.35E-03 uCi/Sa Beta: -2.23E-03 uCi/Sa
3 J3EJ5-1-AC J7G230186-1-SAMP 07/20/2007 08:27	AmtRec: 20ML,250ML,2X500ML,2X4LP #Containers: 6	4000.00g,in	ITA6556 07/25/07		34.0		L5	1430		Scr: Alpha: 1.60E-03 uCi/Sa Beta: -8.09E-04 uCi/Sa
4 J3LQF-1-AA J7G260197-1-SAMP 07/25/2007 09:23	AmtRec: 20ML,2X4LP #Containers: 3									Scr: Alpha: -7.29E-04 uCi/Sa Beta: 5.82E-05 uCi/Sa
5 J3LQP-1-AA J7G260202-1-SAMP 07/25/2007 11:08	AmtRec: 20ML,2X4LP #Containers: 3									Scr: Alpha: 6.44E-04 uCi/Sa Beta: -1.51E-03 uCi/Sa
6 J3P0T-1-AC J7G270226-1-SAMP 07/26/2007 09:07	AmtRec: 20ML,6XLP,3X4LP #Containers: 10									Scr: Alpha: -1.73E-03 uCi/Sa Beta: 1.00E-02 uCi/Sa 1.6E-01L
7 J3P1K-1-AC J7G270229-1-SAMP 07/26/2007 12:55	AmtRec: 20ML,250G,500MLP,2X4LP #Containers: 5									Scr: Alpha: -3.53E-04 uCi/Sa Beta: 8.27E-04 uCi/Sa

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TAL RICHLAND

9/10/2007 4:22:31 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 09/03/2007

Batch: 7218377 WATER pCi/L PM, Quote: SA , 57671
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	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 J3P1T-1-AC J7G270229-2-SAMP 07/26/2007 12:55	AmtRec: 20ML,250G,500MLP,2X4LP #Containers: 5							Scr:	Alpha: -3.37E-04 uCi/Sa	Beta: 4.46E-04 uCi/Sa
9 J3P1W-1-AC J7G270229-3-SAMP 07/26/2007 11:30	AmtRec: 20ML,250G,500MLP,2X4LP #Containers: 5							Scr:	Alpha: -5.35E-04 uCi/Sa	Beta: 6.35E-04 uCi/Sa
10 J3T5Q-1-AA J7G300115-1-SAMP 07/26/2007 13:34	AmtRec: 20MLVIAL,2X4LP #Containers: 3							Scr:	Alpha: -1.36E-03 uCi/Sa	Beta: 5.80E-04 uCi/Sa
11 J3T5Q-1-AC-X J7G300115-1-DUP 07/26/2007 13:34	AmtRec: 20MLVIAL,2X4LP #Containers: 3							Scr:	Alpha: -1.36E-03 uCi/Sa	Beta: 5.80E-04 uCi/Sa
12 J3T5W-1-AA J7G300115-2-SAMP 07/26/2007 12:03	AmtRec: 20MLVIAL,2X4LP #Containers: 3							Scr:	Alpha: -8.48E-04 uCi/Sa	Beta: 1.89E-03 uCi/Sa
13 J3WN1-1-AA J7G310143-1-SAMP 07/30/2007 09:35	AmtRec: 20ML,2X4LP #Containers: 3							Scr:	Alpha: -1.65E-03 uCi/Sa	Beta: 2.23E-03 uCi/Sa
14 J390V-1-AA-B J7H060000-377-BLK 07/26/2007 13:34	AmtRec: #Containers: 1	4000.00g,in	ITA6557 07/25/07		32.4	100		Scr:	LY 16/3 9/18/23 Alpha:	Beta:

STL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 2 ISV - Insufficient Volume for Analysis WO Cnt: 14
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4.8.26

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TAL RICHLAND

9/10/2007 4:22:32 PM

Sample Preparation/Analysis

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

Balance Id:1120482733
Pipet #:

AnalyDueDate: 09/03/2007

Sep1 DT/Tm Tech:

Batch: 7218377 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ClarkR

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:
15 J390V-1-AC-C J7H060000-377-LCS		4000.20g,in	ISD0774 08/15/07		33.9	100	L5	1613	C/10/07	
07/26/2007 13:34		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:

Comments: ISV for Samples due to samples being Acidified RC 09/10/07

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

J3EEA1AA-SAMP Constituent List:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:
J390V1AA-BLK:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:
J390V1AC-LCS:
I-129 RDL:5 pCi/L LCL:70 UCL:130 RPD:20

J3EEA1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J390V1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J390V1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TAL RICHLAND

9/14/2007 8:52:03 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

PRIORITY

Pipet #: _____

AnalyDueDate: 09/03/2007

Sep1 DT/Tm Tech:

Batch: 7257139 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7218377 BNTB, 7257139 BNTB,

Prep Tech: ,ClarkR

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 J3EEA-1-AC-X J7G230183-1-DUP 07/20/2007 09:51		3911.10g,in AmtRec: 20ML,2X4LP	ITA6558 07/25/07 #Containers: 3		35.5	100	L2 Scr:	1454 Alpha: 1.21E-03 uCi/Sa	9/18/07 n Beta: -7.00E-04 uCi/Sa	
2 J6TLR-1-AA-B J7I140000-139-BLK 07/20/2007 09:51		4000.80g,in AmtRec:	ITA6559 07/25/07 #Containers: 1		33.5		L4 Scr:	1455 Alpha:	9/18/07 n Beta:	
3 J6TLR-1-AC-C J7I140000-139-LCS 07/20/2007 09:51		4000.00g,in AmtRec:	ISD0775 08/15/07 #Containers: 1		36.1		L5 Scr:	1456 Alpha:	9/18/07 n Beta:	

Comments:

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

J3EEA1AC-DUP Constituent List:
  I-129        RDL:1.00E+00    pCi/L    LCL:        UCL:        RPD:
J6TLR1AA-BLK Constituent List:
  I-129        RDL:1.00E+00    pCi/L    LCL:        UCL:        RPD:
J6TLR1AC-LCS:
  I-129        RDL:5           pCi/L    LCL:70      UCL:130     RPD:20
J3EEA1AC-DUP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
J6TLR1AA-BLK Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
J6TLR1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

9/14/2007 8:52:04 AM

Sample Preparation/Analysis

Balance Id:1120482733

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

PRIORITY

Pipet #:

AnalyDueDate: 09/03/2007

Sep1 DT/Tm Tech:

Batch: 7257139 pCi/L

SEO Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,ClarkR

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

Approved By _____ Date: _____

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: 3

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

TAL RICHLAND

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TAL RICHLAND

8/6/2007 3:31:54 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

AS H-3 Prp/SepRC5024
U3 Enriched Tritium by Liquid Scint
5l CLIENT: HANFORD

AnalyDueDate: 09/10/2007 WO5214

Batch: 7218396 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

Balance Id: 12424
Pipet #:
Sep1 DT/Tm Tech: 8-29-07 [illegible]
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J3P0T-1-AE J7G270226-1-SAMP 07/26/2007 09:07		AmtRec: 20ML,6XLP,3X4LP	#Containers: 10				Scr: Alpha: -1.73E-03 uCi/Sa	Beta: 1.00E-02 uCi/Sa 1.6E 01L
2 J3P0T-1-AH-X J7G270226-1-DUP 07/26/2007 09:07		AmtRec: 20ML,6XLP,3X4LP	#Containers: 10				Scr: Alpha: -1.73E-03 uCi/Sa	Beta: 1.00E-02 uCi/Sa 1.6E-01L
3 J391H-1-AA-B J7H060000-396-BLK 07/26/2007 09:07		AmtRec:	#Containers: 1				Scr: Alpha:	Beta:
4 J391H-1-AC-C J7H060000-396-LCS 07/26/2007 09:07		AmtRec:	#Containers: 1				Scr: Alpha:	Beta:
5 J391H-1-AD-BN J7H060000-396-IBLK 07/26/2007 09:07		AmtRec:	#Containers: 1				Scr: Alpha:	Beta:

Comments:

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

J3P0T1AE-SAMP Constituent List:
H-3 RDL:1.00E+01 pCi/L LCL:70 UCL:130 RPD:20

STL Richland Key: In - Initial Amt, fl - 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

TAL RICHLAND

8/6/2007 3:31:55 PM

Sample Preparation/Analysis

AS H-3 Prp/SepRC5024
U3 Enriched Tritium by Liquid Scint
5i CLIENT: HANFORD

AnalyDueDate: 09/10/2007

Batch: 7218396 pCi/L
SEQ Batch, Test: None

Balance Id: 12424
Pipet #:
Sep1 DT/Tm Tech: 8-29-07 am
Sep2 DT/Tm Tech:
Prep Tech:

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

J391H1AA-BLK:
H-3 RDL:1.00E+01 pCi/L LCL: UCL: RPD:
J391H1AC-LCS:
H-3 RDL:10 pCi/L LCL:70 UCL:130 RPD:20
J391H1AD-IBLK:
H-3 RDL:1.00E+01 pCi/L LCL: UCL: RPD:
J3P0T1AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J391H1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J391H1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J391H1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

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8/6/2007 3:31:51 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: 09/03/2007 W05214

Batch: 7218392 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 8-15-07
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 J3EJ5-1-AA J7G230186-1-SAMP 07/20/2007 08:27	AmtRec: 20ML,250ML,2X500ML,2X4LP #Containers: 6					Scr:	Alpha: 1.60E-03 uCi/Sa	Beta: -8.09E-04 uCi/Sa
2 J3ELC-1-AA J7G230191-1-SAMP 07/20/2007 11:49	AmtRec: 20ML,250ML,1LP #Containers: 3					Scr:	Alpha: 4.90E-05 uCi/Sa	Beta: -1.41E-04 uCi/Sa
3 J3EMA-1-AA J7G230191-2-SAMP 07/20/2007 12:32	AmtRec: 20ML,250ML,2X500ML,1LP #Containers: 5					Scr:	Alpha: -4.63E-04 uCi/Sa	Beta: 3.11E-04 uCi/Sa
4 J3P1K-1-AA J7G270229-1-SAMP 07/26/2007 12:55	AmtRec: 20ML,250G,500MLP,2X4LP #Containers: 5					Scr:	Alpha: -3.53E-04 uCi/Sa	Beta: 8.27E-04 uCi/Sa
5 J3P1T-1-AA J7G270229-2-SAMP 07/26/2007 12:55	AmtRec: 20ML,250G,500MLP,2X4LP #Containers: 5					Scr:	Alpha: -3.37E-04 uCi/Sa	Beta: 4.46E-04 uCi/Sa
6 J3P1W-1-AA J7G270229-3-SAMP 07/26/2007 11:30	AmtRec 20ML,250G,500MLP,2X4LP #Containers: 5					Scr:	Alpha: -5.35E-04 uCi/Sa	Beta: 6.35E-04 uCi/Sa
7 J3T4V-1-AA J7G300110-1-SAMP 07/26/2007 10:11	AmtRec: 20MLVIAL,250MLP,500MLP,LP #Containers: 4					Scr:	Alpha: 5.11E-05 uCi/Sa	Beta: 2.22E-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 ICOC v4.8.26

TAL RICHLAND

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8/6/2007 3:31:52 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: 09/03/2007

Batch: 7218392 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 8-15-07
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 J3T4V-1-AH-X J7G300110-1-DUP 07/26/2007 10:11	AmtRec: 20MLVIAL,250MLP,500MLP,LP #Containers: 4					Scr:	Alpha: 5.11E-05 uCi/Sa	Beta: 2.22E-04 uCi/Sa
9 J3VHE-1-AA J7G300144-1-SAMP 07/27/2007 10:43	AmtRec: 20ML,250G,500MLP	#Containers: 3				Scr:	Alpha: -9.56E-05 uCi/Sa	Beta: 7.08E-05 uCi/Sa
10 J391G-1-AA-B J7H060000-392-BLK 07/26/2007 10:11	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
11 J391G-1-AC-C J7H060000-392-LCS 07/26/2007 10:11	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
12 J391G-1-AD-BX J7H060000-392-MBLK 07/26/2007 10:11	AmtRec:	#Containers: 1				Scr:	Alpha.	Beta:
13 J391G-1-AE-CM J7H060000-392-MLCS 07/26/2007 10:11	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
14 J391G-1-AF-BN J7H060000-392-IBLK 07/26/2007 10:11	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

TAL RICHLAND

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TAL RICHLAND

8/6/2007 3:31:53 PM

Sample Preparation/Analysis

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

AnalyDueDate: 09/03/2007

Batch: 7218392 pCi/L
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 8-15-07 DM
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 J391G-1-AG-BN J7H060000-392-IBLK 07/26/2007 10:11		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
16 J391G-1-AH-BN J7H060000-392-IBLK 07/26/2007 10:11		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

J3EJ51AA-SAMP Constituent List:
  H-3          RDL:400          pCi/L     LCL:70      UCL:130     RPD:20
J391G1AA-BLK:
  H-3          RDL:400          pCi/L     LCL:        UCL:        RPD:
J391G1AC-LCS:
  H-3          RDL:400          pCi/L     LCL:70      UCL:130     RPD:20
J391G1AD-MBLK:
  H-3          RDL:400          pCi/L     LCL:        UCL:        RPD:
J391G1AE-MLCS:
  H-3          RDL:400          pCi/L     LCL:70      UCL:130     RPD:20
J391G1AF-IBLK:
  H-3          RDL:400          pCi/L     LCL:        UCL:        RPD:
J391G1AG-IBLK:
  H-3          RDL:400          pCi/L     LCL:        UCL:        RPD:
J391G1AH-IBLK:
  H-3          RDL:400          pCi/L     LCL:        UCL:        RPD:
J3EJ51AA-SAMP Calc Info:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J391G1AA-BLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

TAL RICHLAND

8/6/2007 3:31:54 PM

Sample Preparation/Analysis

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

AnalyDueDate: 09/03/2007

Batch: 7218392 pCi/L
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 8-15-07 AM
Sep2 DT/Tm Tech:
Prep Tech:

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

J391G1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J391G1AD-MBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J391G1AE-MLCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J391G1AF-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J391G1AG-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J391G1AH-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TAL RICHLAND

8/28/2007 1:22:30 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 09/03/2007 W05214

Sep1 DT/Tm Tech:

Batch: 7218388 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample Date	Total Aml /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 J3EJ5-1-AD J7G230186-1-SAMP 07/20/2007 08:27			125.60g,in	125.60g		60				
			AmtRec: 20ML,250ML,2X500ML,2X4LP #Containers: 6					Scr:	Alpha: 1.60E-03 uCi/Sa	Beta: -8.09E-04 uCi/Sa
2 J3EMA-1-AE J7G230191-2-SAMP 07/20/2007 12:32			124.80g,in	124.80g						
			AmtRec: 20ML,250ML,2X500ML,1LP #Containers: 5					Scr:	Alpha: -4.63E-04 uCi/Sa	Beta: 3.11E-04 uCi/Sa
3 J3P1K-1-AD J7G270229-1-SAMP 07/26/2007 12:55			125.30g,in	125.30g						
			AmtRec: 20ML,250G,500MLP,2X4LP #Containers: 5					Scr:	Alpha: -3.53E-04 uCi/Sa	Beta: 8.27E-04 uCi/Sa
4 J3P1K-1-AE-X J7G270229-1-DUP 07/26/2007 12:55			126.60g,in	126.60g						
			AmtRec: 20ML,250G,500MLP,2X4LP #Containers: 5					Scr:	Alpha: -3.53E-04 uCi/Sa	Beta: 8.27E-04 uCi/Sa
5 J3P1T-1-AD J7G270229-2-SAMP 07/26/2007 12:55			127.10g,in	127.10g						
			AmtRec: 20ML,250G,500MLP,2X4LP #Containers: 5					Scr:	Alpha: -3.37E-04 uCi/Sa	Beta: 4.46E-04 uCi/Sa
6 J3P1T-1-AE-S J7G270229-2-MS 07/26/2007 12:55			127.40g,in	127.40g	TCSG1879 08/22/07,pd 01/10/06,r					
			AmtRec: 20ML,250G,500MLP,2X4LP #Containers: 5					Scr:	Alpha: -3.37E-04 uCi/Sa	Beta: 4.46E-04 uCi/Sa
7 J3P1W-1-AD J7G270229-3-SAMP 07/26/2007 11:30			126.20g,in	126.20g						
			AmtRec: 20ML,250G,500MLP,2X4LP #Containers: 5					Scr:	Alpha: -5.35E-04 uCi/Sa	Beta: 6.35E-04 uCi/Sa

STL Richland Key: In - Initial Amt. fi - Final Amt, dl - 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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TAL RICHLAND

8/28/2007 1:22:32 PM

Sample Preparation/Analysis

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

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

AnalyDueDate: 09/03/2007

Batch: 7218388 pCi/L
SEQ Batch, Test: None

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 J391A-1-AA-B J7H060000-388-BLK 07/26/2007 12:55			127.00g,in AmtRec:	127.00g #Containers: 1		60		Scr:	Alpha:	Beta:
9 J391A-1-AC-C J7H060000-388-LCS 07/26/2007 12:55			127.60g,in AmtRec:	127.60g #Containers: 1	TCSE2151 07/17/07,pd 01/10/08,r			Scr:	Alpha:	Beta:
10 J391A-1-AD-BN J7H060000-388-IBLK 07/26/2007 12:55			AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Comments: pH < 2.0 JB 8.28.07

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

J3EJ51AD-SAMP Constituent List:
  Tc-99        RDL:15          pCi/L     LCL:70       UCL:130      RPD:20
J3P1T1AE-MS:

J391A1AA-BLK:
  Tc-99        RDL:15          pCi/L     LCL:         UCL:         RPD:
J391A1AC-LCS:
  Tc-99        RDL:15          pCi/L     LCL:70       UCL:130      RPD:20
J391A1AD-IBLK:
  Tc-99        RDL:15          pCi/L     LCL:         UCL:         RPD:
J3EJ51AD-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J3P1T1AE-MS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```


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8/28/2007 1:22:33 PM

Sample Preparation/Analysis

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

AnalyDueDate: 09/03/2007

Batch: 7218388 pCi/L
SEQ Batch, Test: None

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

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

J391A1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J391A1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J391A1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TAL RICHLAND

8/27/2007 11:18:15 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 08/31/2007 W05214

Sep1 DT/Tm Tech:

Batch: 7218387 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J27TN-1-AA J7G190461-1-SAMP 07/18/2007 12:51		127.90g,in AmtRec: 20ML,500ML,3XLP	#Containers: 5	60		Scr:	Alpha: 8.70E-04 uCi/Sa	Beta: -3.44E-04 uCi/Sa
2 J27TN-1-AD-X J7G190461-1-DUP 07/18/2007 12:51		127.30g,in AmtRec: 20ML,500ML,3XLP	#Containers: 5			Scr:	Alpha: 8.70E-04 uCi/Sa	Beta: -3.44E-04 uCi/Sa
3 J3P0T-1-AD J7G270226-1-SAMP 07/26/2007 09:07		127.20g,in AmtRec: 20ML,6XLP,3X4LP	#Containers: 10			Scr:	Alpha: -1.73E-03 uCi/Sa	Beta: 1.00E-02 uCi/Sa 1.6E-01L
4 J3P0T-1-AF-S J7G270226-1-MS 07/26/2007 09:07		127.40g,in AmtRec: 20ML,6XLP,3X4LP	TCSG1877 06/15/07,pd 01/10/06,r #Containers: 10			Scr:	Alpha: -1.73E-03 uCi/Sa	Beta: 1.00E-02 uCi/Sa 1.6E-01L
5 J3907-1-AA-B J7H060000-387-BLK 07/18/2007 12:51		126.20g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 J3907-1-AC-C J7H060000-387-LCS 07/18/2007 12:51		125.00g,in AmtRec:	TCSE2150 07/17/07,pd 01/10/06,r #Containers: 1			Scr:	Alpha:	Beta:
7 J3907-1-AD-BN J7H060000-387-IBLK 07/18/2007 12:51		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

STL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1 ISV - Insufficient Volume for Analysis WO Cnt: 7

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

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TAL RICHLAND

8/27/2007 11:18:18 AM

Sample Preparation/Analysis

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

AnalyDueDate: 08/31/2007

Batch: 7218387 pCi/L
SEQ Batch, Test: None

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

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

Comments: pH <2.0 8-27-07

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

J27TN1AA-SAMP Constituent List:
Tc-99 RDL:1.50E+01 pCi/L LCL:70 UCL:130 RPD:20
J3P0T1AF-MS:

J39071AA-BLK:
Tc-99 RDL:1.50E+01 pCi/L LCL: UCL: RPD:
J39071AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
J39071AD-IBLK:
Tc-99 RDL:1.50E+01 pCi/L LCL: UCL: RPD:

J27TN1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J3P0T1AF-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J39071AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J39071AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J39071AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TAL RICHLAND

8/23/2007 10:47:09 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 08/31/2007 W05214

Sep1 DT/Tm Tech:

Batch: 7218380 WATER ug/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEO Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J27TN-1-AC J7G190461-1-SAMP 07/18/2007 12:51		27.80g,in AmtRec: 20ML,500ML,3XLP #Containers: 5					Scr: Alpha: 8.70E-04 uCi/Sa	Beta: -3.44E-04 uCi/Sa
2 J3ECK-1-AD J7G230182-1-SAMP 07/20/2007 12:30		27.50g,in AmtRec: 20ML,500MLP,LP #Containers: 3					Scr: Alpha: 1.35E-04 uCi/Sa	Beta: -3.28E-05 uCi/Sa
3 J3EJ5-1-AE J7G230186-1-SAMP 07/20/2007 08:27		27.00g,in AmtRec: 20ML,250ML,2X500ML,2X4LP #Containers: 6					Scr: Alpha: 1.60E-03 uCi/Sa	Beta: -8.09E-04 uCi/Sa
4 J3EMA-1-AF J7G230191-2-SAMP 07/20/2007 12:32		26.50g,in AmtRec: 20ML,250ML,2X500ML,1LP #Containers: 5					Scr: Alpha: -4.63E-04 uCi/Sa	Beta: 3.11E-04 uCi/Sa
5 J3T4V-1-AE J7G300110-1-SAMP 07/26/2007 10:11		27.80g,in AmtRec: 20MLVIAL,250MLP,500MLP,LP #Containers: 4					Scr: Alpha: 5.11E-05 uCi/Sa	Beta: 2.22E-04 uCi/Sa
6 J3VG0-1-AA J7G300141-1-SAMP 07/27/2007 13:21		27.30g,in AmtRec: 20ML,500MLP #Containers: 2					Scr: Alpha: 5.64E-05 uCi/Sa	Beta: -2.36E-05 uCi/Sa
7 J3VG0-1-AC-X J7G300141-1-DUP 07/27/2007 13:21		27.20g,in AmtRec: 20ML,500MLP #Containers: 2					Scr: Alpha: 5.64E-05 uCi/Sa	Beta: -2.36E-05 uCi/Sa

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

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TAL RICHLAND

8/23/2007 10:47:12 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 08/31/2007

Sep1 DT/Tm Tech:

Batch: 7218380 WATER ug/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 J3VHE-1-AC J7G300144-1-SAMP 07/27/2007 10:43		25.30g,in AmtRec: 20ML,250G,500MLP	#Containers: 3				Scr: Alpha: -9.56E-05 uCi/Sa	Beta: 7.08E-05 uCi/Sa
9 J3VHE-1-AD-S J7G300144-1-MS 07/27/2007 10:43		25.40g,in AmtRec: 20ML,250G,500MLP	UNSF3903 08/15/07,pd 01/23/07,r #Containers: 3				Scr: Alpha: -9.56E-05 uCi/Sa	Beta: 7.08E-05 uCi/Sa
10 J3902-1-AA-B J7H060000-380-BLK 07/27/2007 13:21		25.60g,in AmtRec:	#Containers: 1				Scr: Alpha:	Beta:
11 J3902-1-AC-C J7H060000-380-LCS 07/27/2007 13:21		25.20g,in AmtRec:	UNSF3904 06/15/07,pd 01/23/07,r #Containers: 1				Scr: Alpha:	Beta:
12 J3902-1-AD-C J7H060000-380-LCS 07/27/2007 13:21		25.70g,in AmtRec:	UNSC1830 08/15/07,pd 04/28/06,r #Containers: 1				Scr: Alpha:	Beta:

Comments: pH < 2.0 JS 8.23.07

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

J27TN1AC-SAMP Constituent List:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:

STL Richland Key: In - Initial Amt, fl - Final Amt, dl - 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

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8/23/2007 10:47:13 AM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 08/31/2007

Sep1 DT/Tm Tech:

Batch: 7218380 ug/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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

J3VHE1AD-MS:

J39021AA-BLK:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
J39021AC-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20
J39021AD-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20

J27TN1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J3VHE1AD-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J39021AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J39021AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J39021AD-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TAL RICHLAND

9/10/2007 9:43:28 AM

ICOC Fraction Transfer/Status Report

ByDate: 9/10/2006, 9/15/2007, Batch: '7218383', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7218383						
AC		CalcC	BockJ	8/28/2007 7:43:28		
SC			Wagarr	IsBatched	8/6/2007 3:29:18 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	8/28/2007 7:43:28 AM	RICH-RC-5014 Revision 7
SC			BockJ	Prep1C	8/28/2007 7:49:03 AM	RICH-RC-5014 REVISION 7
SC			AshworthA	InPrep2	9/5/2007 9:47:50 AM	RICH-RC-5014 REVISION 7
SC			AshworthA	Prep2C	9/6/2007 5:15:35 PM	RICH-RC-5014 REVISION 7
SC			DAWKINSO	InCnt1	9/6/2007 6:48:14 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	9/7/2007 9:50:30 PM	RICH-RD-0003 REVISION 5
AC			BockJ	8/28/2007 7:49:03		
AC			AshworthA	9/5/2007 9:47:50 AM		
AC			AshworthA	9/6/2007 5:15:35 PM		
AC			DAWKINSO	9/6/2007 6:48:14 PM		
AC			DAWKINSO	9/7/2007 9:50:30 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 6

ICOCFractions v4.8.27

9/10/2007 9:59:47 AM

Rpt DB Transfer log (Batch Results)

SDG or Batch / Isotope	Rpt Db Id / Method	RTst	Qc	LotSample / Analysis Date	Client Id / Result	Matrix / Cnt Uncert	Received Date / Tot Uncert	Mdc	Sample Date / Units	Expected	Yield	Volumes
W05214	**9J3ECK10**			**J7G2301821**	B1NL55	WATER	7/20/2007 1:20:00		7/20/2007 12:30:00 PM			
ALPHA	AZS7	0		9/7/2007 3:29:00 PM	**3.6744E+00**	8.656E-01	9.622E-01	1.706E+00	pCi/L		1.0	2.009E-1
BETA	BCS8	0		9/7/2007 9:30:24 AM	**1.1105E+01**	1.027E+00	1.249E+00	3.054E+00	pCi/L		1.0	2.035E-1
W05214	**9J3ELC10**			**J7G2301911**	B1NL90	WATER	7/20/2007 1:20:00		7/20/2007 11:49:00 AM			
ALPHA	AZS7	0		9/7/2007 3:29:00 PM	**1.9843E+00**	6.396E-01	6.797E-01	1.434E+00	pCi/L		1.0	2.015E-1
BETA	BCS8	0		9/7/2007 9:30:24 AM	**8.7821E+00**	9.753E-01	1.157E+00	2.918E+00	pCi/L		1.0	1.993E-1
H-3	ARS6	0		8/17/2007 7:23:03 PM	**5.4568E+04**	4.025E+02	1.105E+03	3.479E+02	pCi/L		1.0	5.0E-3
W05214	**9J3EMA10**			**J7G2301912**	B1NL86	WATER	7/20/2007 1:20:00		7/20/2007 12:32:00 PM			
ALPHA	AZS7	0		9/7/2007 3:29:00 PM	**3.5381E+00**	9.232E-01	1.01E+00	2.23E+00	pCi/L		1.0	2.014E-1
BETA	BCS8	0		9/7/2007 9:30:24 AM	**5.918E+01**	1.93E+00	4.21E+00	2.908E+00	pCi/L		1.0	2.003E-1
H-3	ARS6	0		8/17/2007 8:45:26 PM	**2.9436E+05**	9.239E+02	5.539E+03	3.485E+02	pCi/L		1.0	5.0E-3
TC-99	FPS5	0		8/30/2007 11:03:55 PM	**2.1561E+02**	4.435E+00	9.117E+00	9.852E+00	pCi/L		1.0	1.248E-1
W05214	**9J3T4V20**			**J7G3001101**	B1NL74	WATER	7/26/2007 3:10:00		7/26/2007 10:11:00 AM			
BETA	BCS8	1		9/7/2007 7:23:31 PM	**1.542E+01**	1.118E+00	1.5E+00	2.849E+00	pCi/L		1.0	1.99E-1
W05214	**J39061AB**			**J7H060000384**	INTRA-LAB BLANK	WATER	7/26/2007 3:10:00		7/26/2007 10:11:00 AM			
BETA	BCS8	0	B	9/7/2007 9:30:28 AM	**7.5675E-01**	6.068E-01	6.088E-01	2.576E+00	pCi/L		1.0	1.993E-1
W05214	**J39061CS**			**J7H060000384**	INTRA-LAB CHECK	WATER	7/26/2007 3:10:00		7/26/2007 10:11:00 AM			
BETA	BCS8	0	S	9/7/2007 9:30:28 AM	**2.2033E+01**	1.182E+00	1.841E+00	2.536E+00	pCi/L	2.2926E+01	1.0	1.99E-1
W05214	**J3T4V2GR**			**J7G3001101**	B1NL74 DUP	WATER	7/26/2007 3:10:00		7/26/2007 10:11:00 AM			
BETA	BCS8	1	R	9/7/2007 7:23:31 PM	**1.3695E+01**	1.048E+00	1.379E+00	2.741E+00	pCi/L		1.0	2.024E-1

7218384, **Samples Inserted | Updated | NotUpdated => 4 | 0 | 3,
**Results Inserted | ReTestInserted | Updated | NotInserted => 7 | 0 | 0 | 0.
**Diff RptDb | Qtims => .

9/6/2007 3:29:19 PM

ICOC Fraction Transfer/Status Report

ByDate: 9/6/2006, 9/11/2007. Batch: '7218382', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7218382						
AC		CalcC	BockJ	8/27/2007 10:27:24		
SC			Wagarr	IsBatched	8/6/2007 3:29:18 PM	ICOC_RADCALC v4 8.26
SC			BockJ	InPrep	8/27/2007 10:27:24 AM	RICH-RC-5016 Revision 7
SC			BockJ	Prep1C	8/27/2007 10:34:44 AM	RICH-RC-5016 REVISION 7
SC			FABREM	Sep1C	8/28/2007 8:16:56 PM	RICH-RC-5006 REVISION 7
SC			DAWKINSO	InCnt1	8/28/2007 8:26:42 PM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	Cnt1C	8/28/2007 8:59:55 PM	RICH-RD-0007 REVISION 6
SC			ManisD	InSep2	9/4/2007 8:13:53 AM	RICH-RC-5071 REVISION 5
SC			ManisD	Sep2C	9/4/2007 3:27:27 PM	RICH-RC-5071 REVISION 5
SC			DAWKINSO	InCnt2	9/4/2007 3:48:49 PM	RICH-RD-0003 REVISION 5
SC			StringerR	CalcC	9/6/2007 1:01:40 PM	RICH-RD-0003 REVISION 5
AC			BockJ	8/27/2007 10:34:44		
AC			FABREM	8/28/2007 8:16:56 PM		
AC			DAWKINSO	8/28/2007 8:26:42 PM		
AC			DAWKINSO	8/28/2007 8:59:55 PM		
AC			ManisD	9/4/2007 8:13:53 AM		
AC			ManisD	9/4/2007 3:27:27 PM		
AC			DAWKINSO	9/4/2007 3:48:49 PM		
AC			StringerR	9/6/2007 1:01:40 PM		

AC: Accepting Entry, SC: Status Change

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ICOCFractions v4.8.27

9/22/2007 11:01:45 AM

ICOC Fraction Transfer/Status Report

ByDate: 9/22/2006, 9/27/2007, Batch: '7261261', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7261261						
AC		CalcC	ClarkR	9/18/2007 5:02:31 PM		
SC			antonsonl	IsBatched	9/18/2007 10:12:08 AM	ICOC_RADCALC v4.8.26
SC			ClarkR	InPrep	9/18/2007 5:02:31 PM	RICH-RC-5014 Revision 7
SC			ClarkR	Prep1C	9/18/2007 5:16:55 PM	RICH-RC-5017 REVISION 6
SC			BockJ	InPrep2	9/19/2007 8:02:44 AM	RICH-RC-5017 REVISION 6
SC			BockJ	Prep2C	9/20/2007 8:54:33 AM	RICH-RC-5017 REVISION 6
SC			BlackCL	InCnt1	9/20/2007 9:00:44 AM	RICH-RD-0007 REVISION 6
SC			StringerR	CalcC	9/21/2007 2:55:19 PM	RICH-RD-0007 REVISION 6
AC			ClarkR	9/18/2007 5:16:55 PM		
AC			BockJ	9/19/2007 8:02:44		
AC			BockJ	9/20/2007 8:54:33		
AC			BlackCL	9/20/2007 9:00:44		
AC			StringerR	9/21/2007 2:55:19 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.27

9/19/2007 12:28:13 PM

ICOC Fraction Transfer/Status Report

ByDate: 9/19/2006, 9/24/2007, Batch: '7218377', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7218377						
AC		CalcC	BockJ	8/31/2007 10:27:27		
SC			Wagarr	IsBatched	8/6/2007 3:29:18 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	8/31/2007 10:27:27 AM	RICH-RC-5016 Revision 7
SC			ClarkR	InPrep	9/10/2007 4:00:20 PM	RICH-RC-5014 Revision 7
SC			ClarkR	Prep1C	9/10/2007 4:26:41 PM	RICH-RC-5016 REVISION 7
SC			BostedD	InPrep2	9/12/2007 8:55:51 AM	RICHRC5025 REVISION 4
SC			BostedD	Prep2C	9/12/2007 12:45:00 PM	RICHRC5025 REVISION 4
SC			BlackCL	InCnt1	9/12/2007 12:48:19 PM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	CalcC	9/12/2007 9:19:58 PM	RICH-RD-0007 REVISION 6
AC			ClarkR	9/10/2007 4:00:20 PM		
AC			ClarkR	9/10/2007 4:26:41 PM		
AC			BostedD	9/12/2007 8:55:51		
AC			BostedD	9/12/2007 12:45:00		
AC			BlackCL	9/12/2007 12:48:19		
AC			DAWKINSO	9/12/2007 9:19:58 PM		

AC: Accepting Entry, SC: Status Change

STL Richland

Richland Wa

Grp Rec Cnt: 7

ICOCFractions v4.8.27

9/19/2007 12:06:13 PM

ICOC Fraction Transfer/Status Report

ByDate: 9/19/2006, 9/24/2007, Batch: '7257139', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7257139						
AC		CalcC	ClarkR	9/14/2007 8:34:50		
SC			antonsonl	IsBatched	9/14/2007 7:47:49 AM	ICOC_RADCALC v4.8.26
SC			ClarkR	InPrep	9/14/2007 8:34:50 AM	RICH-RC-5017 Revision 6
SC			ClarkR	Prep1C	9/14/2007 8:52:20 AM	RICH-RC-5016 REVISION 7
SC			BostedD	InPrep2	9/14/2007 10:34:11 AM	RICHRC5025 REVISION 4
SC			BostedD	Prep2C	9/18/2007 1:11:28 PM	RICHRC5025 REVISION 4
SC			StringerR	InCnt1	9/18/2007 1:14:16 PM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	CalcC	9/18/2007 8:45:28 PM	RICH-RD-0007 REVISION 6
AC			ClarkR	9/14/2007 8:52:20		
AC			BostedD	9/14/2007 10:34:11		
AC			BostedD	9/18/2007 1:11:28 PM		
AC			StringerR	9/18/2007 1:14:16 PM		
AC			DAWKINSO	9/18/2007 8:45:28 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt:6

ICOCFractions v4.8 27

9/13/2007 10:47:28 AM

ICOC Fraction Transfer/Status Report

ByDate: 9/13/2006, 9/18/2007, Batch: '7218396', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7218396						
AC		CalcC	McDowellD	8/21/2007 4:04:16 PM		
SC			Wagarr	IsBatched	8/6/2007 3:29:18 PM	ICOC_RADCALC v4.8.26
SC			McDowellD	InSep1	8/21/2007 4:04:16 PM	RICH-RC-5024 REVISION 2
SC			McDowellD	Sep1C	9/12/2007 1:33:55 PM	RICH-RC-5024 REVISION 2
SC			BlackCL	InCnt1	9/12/2007 1:53:16 PM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	9/13/2007 6:57:01 AM	RICH-RD-0001 REVISION 4
AC			McDowellD	8/29/2007 10:36:59		
AC			McDowellD	9/12/2007 1:33:55 PM		
AC			BlackCL	9/12/2007 1:53:16 PM		
AC			BlackCL	9/13/2007 6:57:01		

AC: Accepting Entry SC: Status Change

8/31/2007 10:05:10 AM

ICOC Fraction Transfer/Status Report

ByDate: 8/31/2006, 9/5/2007, Batch: '7218392', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7218392						
AC		CalcC	McDowellD	8/15/2007 10:56:07		
SC			Wagarr	IsBatched	8/6/2007 3:29:18 PM	ICOC_RADCALC v4.8.26
SC			McDowellD	InSep1	8/15/2007 10:56:07 AM	RICH-RC-5007 REVISION 6
SC			McDowellD	Sep1C	8/15/2007 3:05:58 PM	RICH-RC-5007 REVISION 6
SC			StringerR	InCnt1	8/15/2007 3:18:50 PM	RICH-RD-0001 REVISION 4
SC			StringerR	CalcC	8/18/2007 12:39:13 PM	RICH-RD-0001 REVISION 4
AC			McDowellD	8/15/2007 3:05:58 PM		
AC			StringerR	8/15/2007 3:18:50 PM		
AC			StringerR	8/18/2007 12:39:13		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8 27

8/31/2007 12:06:23 PM

ICOC Fraction Transfer/Status Report

ByDate: 8/31/2006, 9/5/2007, Batch: '7218388', User: 'ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7218388						
AC		CalcC	BockJ	8/28/2007 1:11:01 PM		
SC			Wagarr	IsBatched	8/6/2007 3:29:18 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	8/28/2007 1:11:01 PM	RICH-RC-5014 Revision 7
SC			BockJ	Prep1C	8/28/2007 1:23:07 PM	RICH-RC-5016 REVISION 7
SC			FABREM	Sep1C	8/29/2007 7:47:07 PM	RICH-RC-5065 REVISION 6
SC			DAWKINSO	InCnt1	8/29/2007 8:06:25 PM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	8/31/2007 6:12:04 AM	RICH-RD-0001 REVISION 4
AC			BockJ	8/28/2007 1:23:07 PM		
AC			FABREM	8/29/2007 7:47:07 PM		
AC			DAWKINSO	8/29/2007 8:06:25 PM		
AC			BlackCL	8/31/2007 6:12:04		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt:5

ICOCFractions v4 8.27

8/30/2007 4:02:29 PM

ICOC Fraction Transfer/Status Report

ByDate: 8/30/2006, 9/4/2007, Batch: '7218387', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting				Comments
7218387							
AC		CalcC	BockJ	8/27/2007 11:13:57			
SC			Wagarr	IsBatched	8/6/2007 3:29:18 PM		ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	8/27/2007 11:13:57 AM		RICH-RC-5016 Revision 7
SC			BockJ	Prep1C	8/27/2007 11:18:19 AM		RICH-RC-5016 REVISION 7
SC			FABREM	Sep1C	8/29/2007 7:46:45 PM		RICH-RC-5078 REVISION 4
SC			DAWKINSO	InCnt1	8/29/2007 8:06:32 PM		RICH-RD-0001 REVISION 4
SC			StringerR	CalcC	8/30/2007 9:41.55 AM		RICH-RD-0001 REVISION 4
AC			BockJ	8/27/2007 11:18:19			
AC			FABREM	8/29/2007 7:46:45 PM			
AC			DAWKINSO	8/29/2007 8:06:32 PM			
AC			StringerR	8/30/2007 9:41:55			

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.27

9/12/2007 3:32:30 PM

ICOC Fraction Transfer/Status Report

ByDate. 9/12/2006, 9/17/2007, Batch: '7218380', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7218380						
AC		Cnt1C	BockJ	8/23/2007 10:36:42		
SC			Wagarr	IsBatched	8/6/2007 3:29:18 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	8/23/2007 10:36:42 AM	RICH-RC-5015 Revision 6
SC			BockJ	Prep1C	8/23/2007 10:47:14 AM	RICH-RC-5015 REVISION 6
SC			AshworthA	InPrep2	9/10/2007 8:25:47 AM	RICH-RC-5015 REVISION 6
SC			AshworthA	Prep2C	9/11/2007 5:46:02 PM	RICH-RC-5015 REVISION 6
SC			NelsonT	Cnt1C	9/12/2007 10:45:01 AM	RICH-RC-5058 REV 7
AC			BockJ	8/23/2007 10:47:14		
AC			AshworthA	9/10/2007 8:25:47		
AC			AshworthA	9/11/2007 5:46:02 PM		
AC			NelsonT	9/12/2007 10:45:01		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa

Grp Rec Cnt: 5

ICOCFractions v4.8.27