0076809

W05216

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ICOC 144

TOTAL # PAGES IN DOCUMENT 155

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OCT 2007
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Analytical Data Package Prepared For

Fluor Hanford

Radiochemical Analysis By

TAL Richland STLRL

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

Data Package Contains _____ Pages

Report Nbr: 36848

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05216	S07-006	B1NKH5	J7G310266-1	J3XQH1AA	9J3XQH10	7226496
		B1NKH5	J7G310266-1	J3XQH1AC	9J3XQH10	7226509
		B1NKH5	J7G310266-1	J3XQH1AD	9J3XQH10	7226513
		B1NKH5	J7G310266-1	J3XQH1AE	9J3XQH10	7226489
		B1NKH5	J7G310266-1	J3XQH1AG	9J3XQH10	7226510
		B1NKH5	J7G310266-1	J3XQH1AH	9J3XQH10	7226493
		B1NKH5	J7G310266-1	J3XQH1AJ	9J3XQH10	7226484
		B1NKH5	J7G310266-1	J3XQH1AK	9J3XQH10	7226506
		B1NKB9	J7G310310-1	J3X6L1AA	9J3X6L10	7226489
		B1NKB9	J7G310310-1	J3X6L1AD	9J3X6L10	7226510
		B1NKB9	J7G310310-1	J3X6L1AE	9J3X6L10	7226493
		B1NKB9	J7G310310-1	J3X6L1AF	9J3X6L10	7226484
	I07-056	B1NX30	J7G310311-1	J3X6M1AA	9J3X6M10	7226484
	S07-007	B1NXN0	J7H030334-1	J37NT1AA	9J37NT10	7226484
		B1NXN0	J7H030334-1	J37NT1AC	9J37NT10	7226480

OCT 2007
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Comments:

Report Nbr: 36848

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05216	S07-007	B1NXN3	J7H030334-2	J37N11AA	9J37N110	7226514
		B1NXN5	J7H030334-3	J37N31AA	9J37N310	7226514
	I07-060	B1P574	J7H030352-1	J37T61AA	9J37T610	7226491
		B1P574	J7H030352-1	J37T61AC	9J37T610	7226493
		B1P579	J7H030352-2	J37T81AA	9J37T810	7226491
		B1P579	J7H030352-2	J37T81AC	9J37T810	7226493
	G07-008	B1P472	J7H030354-1	J37VN1AA	9J37VN10	7226491
		B1P476	J7H030354-2	J37VR1AA	9J37VR10	7226491
	S07-007	B1NXM2	J7H030356-1	J37V51AA	9J37V510	7226480
		B1NXL8	J7H030356-2	J37V71AA	9J37V710	7226480
		B1NXM5	J7H030356-3	J37V81AA	9J37V810	7226490
		B1NXM5	J7H030356-3	J37V81AC	9J37V810	7226491
		B1NXM5	J7H030356-3	J37V81AD	9J37V810	7226514
		B1NXM5	J7H030356-3	J37V81AE	9J37V810	7226480
	W07-008	B1P836	J7H070376-1	J4DR41AA	9J4DR410	7226480
		B1P833	J7H070376-2	J4DR61AA	9J4DR610	7226480
		B1P842	J7H070376-3	J4DTA1AA	9J4DTA10	7226480
		B1P839	J7H070376-4	J4DTC1AA	9J4DTC10	7226480
	S07-007	B1P344	J7H080199-1	J4EV61AA	9J4EV610	7226489
		B1P344	J7H080199-1	J4EV61AD	9J4EV610	7226484
		B1P344	J7H080199-1	J4EV61AE	9J4EV610	7226514
	I07-062	B1P5X9	J7H080210-1	J4E4H1AC	9J4E4H10	7226484
		B1P5X9	J7H080210-1	J4E4H1AD	9J4E4H10	7226480

Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

September 27, 2007

Attention: Steve Trent

SAF Number	:	A07-007, I07-056, G07-008, I07-060, I07-062, S07-007, S07-006, W07-008
Date SDG Closed	:	August 6, 2007
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05216
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between July 31, 2007 and August 6, 2007 twenty water samples were received at TestAmerica Laboratories 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
B1NWK7	J3X6K	7/31/07	WATER
B1NKB9	J3X6L	7/31/07	WATER
B1NX30	J3X6M	7/31/07	WATER
B1NKH5	J30WL	7/31/07	WATER
B1NXN0	JJ37NT	8/01/07	WATER
B1NXN3	J37N1	8/01/07	WATER
B1NXN5	J37N3	8/01/07	WATER
B1P574	J37T6	8/02/07	WATER
B1P579	J37T8	8/02/07	WATER
B1P472	J37VN	8/02/07	WATER
B1P476	J37VR	8/02/07	WATER
B1NXM2	J37V5	8/02/07	WATER
B1NXL8	J37V7	8/02/07	WATER

B1NXM5	J37V8	8/02/07	WATER
B1P836	J4DR4	8/03/07	WATER
B1P833	J4DR6	8/03/07	WATER
B1P842	J4DTA	8/03/07	WATER
B1P839	J4DTC	8/03/07	WATER
B1P344	J4EV6	8/06/07	WATER
B1P5X9	J4E4H	8/06/07	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:

Alpha Spectroscopy
Americium-214 by method RICH-RC-5072
Neptunium-237 by method RICH-RC-5009
Plutonium-238,239/240 by method RICH-RC-5010
Thorium-228,230,232 by method RICH-RC-5087
Gas Proportional Counting
Gross Alpha by method RICH-RC-5014
Gross Beta by method RICH-RC-5014
Strontium-90 by method RICH-RC-5006
Gamma Spectroscopy
Gamma Spec (LL) by method RICH-RC-5017
Iodine-129 (LL) by method RICH-RC-5025
Liquid Scintillation Counting
Enriched Tritium by method RICH-RC-5024
Technetium-99 by TEVA method RICH-RC-5065
Carbon-14 by method RICH-RC-5022
Laser Induced Phosphorimetry
Total Uranium by method RICH-RC-5058

IV. Quality Control

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

V. Comments

Alpha Spectroscopy

Americium-214 by method RICH-RC-5072:
The LCS, batch blank, samples and sample duplicate (B1NKH5) results are within contractual requirements.

Neptunium-237 by method RICH-RC-5009:
The LCS, batch blank, samples and sample duplicate (B1NKH5) results are within contractual requirements.

Plutonium-238,239/240 by method RICH-RC-5010:
The LCS, batch blank, samples and sample duplicate (B1NKB9) results are within contractual requirements.

Thorium-228,230,232 by method RICH-RC-5087:
The LCS, batch blank, samples and sample duplicate (B1NKH5) results are within contractual requirements.

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:
The LCS, batch blank, samples and sample duplicate (B1NXM5) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:
Sample B1NXM5 did not meet CRDL due to reduced aliquots based on weight screens. The results exceed the MDA achieved. Data is accepted. Except as noted, the LCS, batch blank, samples and sample duplicate (B1P574) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006
The LCS, batch blank, samples and sample duplicate (B1P579) results are within contractual requirements.

Gamma Spectroscopy

Gamma Spec (LL) by method RICH-RC-5017:
The LCS, batch blank, samples and sample duplicate (B1NKB9) results are within contractual requirements.

Iodine-129 (LL) by method RICH-RC-5025:
The samples were not run because the tech acidified all of them before analysis.

Liquid Scintillation Counting

Enriched Tritium by method RICH-RC-5024
The LCS, batch blank, samples and sample duplicate (B1NXN3) results are within contractual requirements.

Technetium-99 by TEVA method RICH-RC-5065:
The LCS, batch blank, samples, sample duplicate (B1NX30), and sample matrix spike (B1NXN0) results are within contractual requirements.

Carbon-14 by method RICH-RC-5022:
The LCS, batch blank, samples and sample duplicate (B1NKH5) results are within contractual requirements.

Total Uranium
Total Uranium by method RICH-RC-5058:
The LCS, batch blank, samples, sample duplicate (B1P836), and sample matrix spike (B1P833) results are within contractual requirements.

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

Reviewed and approved:

Sherryl A. Adam
Project Manager

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

Tracking Number: 07-086
SAF No.: A07-007, S07-006, S07-007, I07-062
Date: September 11, 2007
SDG: W05216
Sample No.(s) B1NWK7, B1NKB9, B1NKH5, B1P344, B1P5X9
Submitted By: Sherryl Adam — Submitted To: **Steve Trent (FH)**

Phone No. 509-375-3131 x164 — Phone No. **509-373-5869**
Fax No. 509-375-5590 — Fax No. 866-252-5816

ISSUE	PROPOSED RESOLUTION
The above mentioned samples have I-129 (LL) requested and were all acidified due tech error.	Do not run the tests.

BHI/FH/PNNL COMMENTS -
Accept proposed resolution – cancel the I-129 analysis.

Heidi Hampt 9/11/07
Signature and date

Seger, Sandra

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)

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Drinking Water Method Cross References

	DRINKING WATER ASTM METHOD CROSS REFERENCES	
Referenced Method	**Isotope(s)**	**STL Richland's SOP number**
EPA 901.1	Cs-134, I-131	RICH-RC-5017
EPA 900.0	Alpha & Beta	RICH-RC-5014
EPA 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/?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.

TAL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 36848 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.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:
9J37N110	B1NXN3		MW6-SBB-A1	S07-007	W05216					08/01/2007 12:03

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7226514	H-3	10028-17-8	1.04E+02	pCi/L	9.2E+00	2.1E+01		6.21E+00	100.0	TRITIUM_ELECT_L	1.50E-01	L	09/25/2007 19:01	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:
9J37N310	B1NXN5		MW6-SBB-A1	S07-007	W05216					08/01/2007 13:34

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7226514	H-3	10028-17-8	3.16E+00	pCi/L	5.1E+00	7.4E+00	U	6.21E+00	100.0	TRITIUM_ELECT_L	1.50E-01	L	09/25/2007 19:01	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:
9J37NT10	B1NXN0		MW6-SBB-A1	S07-007	W05216					08/01/2007 12:48

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7226484	TC-99	14133-76-7	5.83E+01	pCi/L	5.7E+00	9.0E+00		9.65E+00	100.0	TC99_ETVDSK_LS	1.274E-01	L	09/05/2007 09:20	I
7226480	Uranium	7440-61-1	2.26E+01	ug/L	2.7E+00	2.7E+00		7.70E-02		UTOT_KPA	2.72E-02	ML	09/14/2007 09:06	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:
9J37T610	B1P574		MW6-SBB-A1	I07-060	W05216					08/02/2007 10:36

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7226491	BETA	12587-47-2	1.31E+03	pCi/L	1.7E+01	1.7E+02		3.09E+00	100.0	9310_ALPHABETA	2.001E-01	L	09/15/2007 12:20	I
7226493	SR-90	10098-97-2	7.12E+02	pCi/L	5.5E+00	1.0E+02		4.01E-01	82.0	SRISO_SEP_PRE	1.0021E+00	L	09/16/2007 09:05	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J37T810	B1P579		MW6-SBB-A1	I07-060	W05216					08/02/2007 12:16

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7226491	BETA	12587-47-2	5.24E+02	pCi/L	1.1E+01	6.7E+01		2.83E+00	100.0	9310_ALPHABETA	2.019E-01	L	09/15/2007 12:20	I
7226493	SR-90	10098-97-2	2.65E+02	pCi/L	3.4E+00	3.8E+01		3.90E-01	79.5	SRISO_SEP_PRE	1.0008E+00	L	09/16/2007 09:05	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J37V510	B1NXM2		MW6-SBB-A1	S07-007	W05216					08/02/2007 11:33

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7226480	Uranium	7440-61-1	1.31E+01	ug/L	1.5E+00	1.5E+00		7.88E-02		UTOT_KPA	2.66E-02	ML	09/14/2007 09:08	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.

9/27/2007 11:15:32 AM

TAL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 36848 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216 Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

9J37V710 B1NXL8 MW6-SBB-A1 S07-007 W05216 08/02/2007 10:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7226480	Uranium	7440-61-1	1.26E+01	ug/L	1.5E+00	1.5E+00		7.62E-02		UTOT_KPA	2.75E-02	ML	09/14/2007 09:10	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J37V810	B1NXM5		MW6-SBB-A1	S07-007	W05216					08/02/2007 13:44

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7226490	ALPHA	12587-46-1	2.96E+00	pCi/L	1.6E+00	1.8E+00		2.21E+00	100.0	9310_ALPHABETA	1.176E-01	L	09/15/2007 12:21	I
7226491	BETA	12587-47-2	1.02E+01	pCi/L	2.7E+00	3.0E+00		4.45E+00	100.0	9310_ALPHABETA	1.313E-01	L	09/15/2007 12:20	I
7226514	H-3	10028-17-8	1.22E+02	pCi/L	1.0E+01	2.4E+01		6.24E+00	100.0	TRITIUM_ELECT_L	1.50E-01	L	09/25/2007 19:01	I
7226480	Uranium	7440-61-1	4.84E+00	ug/L	5.7E-01	5.7E-01		7.57E-02		UTOT_KPA	2.77E-02	ML	09/14/2007 09:29	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:
9J37VN10	B1P472		MW6-SBB-A1	G07-008	W05216					08/02/2007 08:50

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7226491	BETA	12587-47-2	5.05E+02	pCi/L	1.0E+01	6.5E+01		2.68E+00	100.0	9310_ALPHABETA	2.004E-01	L	09/15/2007 12:20	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J37VR10	B1P476		MW6-SBB-A1	G07-008	W05216					08/02/2007 09:23

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7226491	BETA	12587-47-2	1.10E+03	pCi/L	1.5E+01	1.4E+02		2.76E+00	100.0	9310_ALPHABETA	2.008E-01	L	09/15/2007 12:20	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J3X6L10	B1NKB9		MW6-SBB-A1	S07-006	W05216					07/31/2007 14:12

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7226489	BE-7	13966-02-4	1.01E+01	pCi/L	2.0E+01	2.0E+01	U	3.71E+01		GAMMALL_GS	2.0007E+00	L	09/14/2007 06:09	I
7226489	CO-60	10198-40-0	-4.43E-02	pCi/L	1.9E+00	1.9E+00	U	3.49E+00		GAMMALL_GS	2.0007E+00	L	09/14/2007 06:09	I
7226489	CS-134	13967-70-9	1.12E+00	pCi/L	1.9E+00	1.9E+00	U	3.71E+00		GAMMALL_GS	2.0007E+00	L	09/14/2007 06:09	I
7226489	CS-137	10045-97-3	-1.73E+00	pCi/L	1.7E+00	1.7E+00	U	2.65E+00		GAMMALL_GS	2.0007E+00	L	09/14/2007 06:09	I
7226489	EU-152	14683-23-9	-8.79E-01	pCi/L	4.3E+00	4.3E+00	U	7.25E+00		GAMMALL_GS	2.0007E+00	L	09/14/2007 06:09	I
7226489	EU-154	15585-10-1	5.91E-01	pCi/L	4.6E+00	4.6E+00	U	8.79E+00		GAMMALL_GS	2.0007E+00	L	09/14/2007 06:09	I
7226489	EU-155	14391-16-3	-1.02E+00	pCi/L	3.3E+00	3.3E+00	U	5.76E+00		GAMMALL_GS	2.0007E+00	L	09/14/2007 06:09	I
7226489	K-40	13966-00-2	8.82E+01	pCi/L	4.1E+01	4.1E+01		3.06E+01		GAMMALL_GS	2.0007E+00	L	09/14/2007 06:09	I
7226489	RU-106	13967-48-1	3.51E+00	pCi/L	1.6E+01	1.6E+01	U	2.88E+01		GAMMALL_GS	2.0007E+00	L	09/14/2007 06:09	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.

TAL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 36848 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

7226489	SB-125	14234-35-6	2.24E-02	pCi/L	4.1E+00	4.1E+00	U	7.24E+00		GAMMALL_GS	2.0007E+00	L	09/14/2007	06:09
7226510	PU-238	13981-16-3	0.00E+00	pCi/L	6.6E-02	6.6E-02	U	1.54E-01	102.4	PUISO_PLATE_AE	2.025E-01	L	09/06/2007	18:17
7226510	PU-239	PU-239/240	1.28E-02	pCi/L	6.8E-02	6.8E-02	U	2.03E-01	102.4	PUISO_PLATE_AE	2.025E-01	L	09/06/2007	18:17
7226493	SR-90	10098-97-2	1.81E+02	pCi/L	3.0E+00	2.6E+01		4.66E-01	70.1	SRISO_SEP_PRE	9.915E-01	L	09/16/2007	09:05
7226484	TC-99	14133-76-7	4.20E+01	pCi/L	5.3E+00	8.1E+00		9.71E+00	100.0	TC99_ETVDSK_LS	1.265E-01	L	09/05/2007	09:20

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J3X6M10	B1NX30		MW6-SBB-A1	I07-056	W05216					07/31/2007 09:34

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7226484	TC-99	14133-76-7	3.60E+02	pCi/L	1.1E+01	2.7E+01		9.84E+00	100.0	TC99_ETVDSK_LS	1.254E-01	L	09/05/2007 09:20	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J3XQH10	B1NKH5		MW6-SBB-A1	S07-006	W05216					07/31/2007 10:01

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7226509	AM-241	14596-10-2	5.99E-02	pCi/L	1.2E-01	1.2E-01	U	2.70E-01	93.2	AMCMISO_EIE_PL	2.013E-01	L	09/10/2007 13:38	I
7226513	C-14	14762-75-5	8.60E+00	pCi/L	3.7E+00	7.6E+00		8.24E+00	100.0	C14_LSC	2.00E-01	L	09/19/2007 00:21	I
7226489	BE-7	13966-02-4	2.96E+00	pCi/L	1.8E+01	1.8E+01	U	3.36E+01		GAMMALL_GS	2.0028E+00	L	09/14/2007 06:08	I
7226489	CO-60	10198-40-0	1.89E+00	pCi/L	2.0E+00	2.0E+00	U	4.18E+00		GAMMALL_GS	2.0028E+00	L	09/14/2007 06:08	I
7226489	CS-134	13967-70-9	-1.14E+00	pCi/L	1.8E+00	1.8E+00	U	2.95E+00		GAMMALL_GS	2.0028E+00	L	09/14/2007 06:08	I
7226489	CS-137	10045-97-3	5.21E-01	pCi/L	1.7E+00	1.7E+00	U	3.18E+00		GAMMALL_GS	2.0028E+00	L	09/14/2007 06:08	I
7226489	EU-152	14683-23-9	2.71E+00	pCi/L	4.2E+00	4.2E+00	U	7.76E+00		GAMMALL_GS	2.0028E+00	L	09/14/2007 06:08	I
7226489	EU-154	15585-10-1	-3.85E-01	pCi/L	5.1E+00	5.1E+00	U	9.31E+00		GAMMALL_GS	2.0028E+00	L	09/14/2007 06:08	I
7226489	EU-155	14391-16-3	1.81E+00	pCi/L	3.8E+00	3.8E+00	U	6.95E+00		GAMMALL_GS	2.0028E+00	L	09/14/2007 06:08	I
7226489	K-40	13966-00-2	-5.03E+01	pCi/L	4.1E+01	4.1E+01	U	8.34E+01		GAMMALL_GS	2.0028E+00	L	09/14/2007 06:08	I
7226489	RU-106	13967-48-1	-1.97E+01	pCi/L	1.6E+01	1.6E+01	U	2.45E+01		GAMMALL_GS	2.0028E+00	L	09/14/2007 06:08	I
7226489	SB-125	14234-35-6	1.71E+00	pCi/L	3.7E+00	3.7E+00	U	6.87E+00		GAMMALL_GS	2.0028E+00	L	09/14/2007 06:08	I
7226496	NP-237	13994-20-2	-8.47E-03	pCi/L	8.6E-02	8.6E-02	U	2.03E-01	94.9	NP237_LLE_PLAT	2.023E-01	L	09/05/2007 21:51	I
7226510	PU-238	13981-16-3	0.00E+00	pCi/L	6.8E-02	6.8E-02	U	1.60E-01	100.2	PUISO_PLATE_AE	2.00E-01	L	09/06/2007 18:16	I
7226510	PU-239	PU-239/240	-6.69E-03	pCi/L	6.8E-02	6.8E-02	U	1.60E-01	100.2	PUISO_PLATE_AE	2.00E-01	L	09/06/2007 18:16	I
7226493	SR-90	10098-97-2	8.93E-02	pCi/L	1.7E-01	1.9E-01	U	4.06E-01	78.4	SRISO_SEP_PRE	1.0076E+00	L	09/16/2007 09:05	I
7226484	TC-99	14133-76-7	1.64E+02	pCi/L	7.9E+00	1.5E+01		9.68E+00	100.0	TC99_ETVDSK_LS	1.271E-01	L	09/05/2007 09:20	I
7226506	TH-228	14274-82-9	-5.87E-02	pCi/L	1.3E-01	1.3E-01	U	4.32E-01	103.4	THISO_IE_PRECIP	2.001E-01	L	09/07/2007 00:11	I
7226506	TH-230	14269-63-7	4.52E-02	pCi/L	1.2E-01	1.2E-01	U	2.71E-01	103.4	THISO_IE_PRECIP	2.001E-01	L	09/07/2007 00:11	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.

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 36848 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

7226506	TH-232	7440-29-1	0.00E+00	pCi/L	1.2E-01	1.2E-01	U	2.71E-01	103.4	THISO_IE_PRECIP	2.001E-01	L	09/07/2007 00:11	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:
9J4DR410	B1P836		MW6-SBB-A1	W07-008	W05216					08/03/2007 10:39

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7226480	Uranium	7440-61-1	-4.85E-04	ug/L	6.3E-05	6.3E-05	U	8.15E-02		UTOT_KPA	2.57E-02	ML	09/14/2007 09:31	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J4DR610	B1P833		MW6-SBB-A1	W07-008	W05216					08/03/2007 11:40

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7226480	Uranium	7440-61-1	4.64E+01	ug/L	5.5E+00	5.5E+00		8.35E-02		UTOT_KPA	2.51E-02	ML	09/14/2007 10:00	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J4DTA10	B1P842		MW6-SBB-A1	W07-008	W05216					08/03/2007 13:11

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7226480	Uranium	7440-61-1	1.10E+01	ug/L	1.3E+00	1.3E+00		8.03E-02		UTOT_KPA	2.61E-02	ML	09/14/2007 10:04	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:
9J4DTC10	B1P839		MW6-SBB-A1	W07-008	W05216					08/03/2007 13:51

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7226480	Uranium	7440-61-1	5.97E+01	ug/L	7.0E+00	7.0E+00		8.38E-02		UTOT_KPA	2.50E-02	ML	09/14/2007 10:05	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J4E4H10	B1P5X9		MW6-SBB-A1	I07-062	W05216					08/06/2007 13:05

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7226484	TC-99	14133-76-7	9.35E+01	pCi/L	6.5E+00	1.1E+01		9.74E+00	100.0	TC99_ETVDSK_LS	1.268E-01	L	09/05/2007 09:20	I
7226480	Uranium	7440-61-1	1.61E+00	ug/L	1.6E-01	1.6E-01		8.35E-02		UTOT_KPA	2.51E-02	ML	09/14/2007 10:07	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J4EV610	B1P344		MW6-SBB-A1	S07-007	W05216					08/06/2007 13:40

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7226489	BE-7	13966-02-4	3.90E-01	pCi/L	2.5E+01	2.5E+01	U	4.42E+01		GAMMALL_GS	2.0008E+00	L	09/14/2007 06:09	I
7226489	CO-60	10198-40-0	1.67E+00	pCi/L	1.8E+00	1.8E+00	U	3.80E+00		GAMMALL_GS	2.0008E+00	L	09/14/2007 06:09	I
7226489	CS-134	13967-70-9	9.51E-01	pCi/L	2.4E+00	2.4E+00	U	4.41E+00		GAMMALL_GS	2.0008E+00	L	09/14/2007 06:09	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.

TAL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 36848 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

7226489	CS-137	10045-97-3	6.15E-01	pCi/L	2.0E+00	2.0E+00	U	3.65E+00		GAMMALL_GS	2.0008E+00	L	09/14/2007	06:09
7226489	EU-152	14683-23-9	-7.19E-01	pCi/L	5.3E+00	5.3E+00	U	8.98E+00		GAMMALL_GS	2.0008E+00	L	09/14/2007	06:09
7226489	EU-154	15585-10-1	-4.12E+00	pCi/L	5.6E+00	5.6E+00	U	9.18E+00		GAMMALL_GS	2.0008E+00	L	09/14/2007	06:09
7226489	EU-155	14391-16-3	3.35E+00	pCi/L	4.0E+00	4.0E+00	U	7.07E+00		GAMMALL_GS	2.0008E+00	L	09/14/2007	06:09
7226489	K-40	13966-00-2	-2.66E+01	pCi/L	4.8E+01	4.8E+01	U	9.88E+01		GAMMALL_GS	2.0008E+00	L	09/14/2007	06:09
7226489	RU-106	13967-48-1	-5.38E+00	pCi/L	1.9E+01	1.9E+01	U	3.25E+01		GAMMALL_GS	2.0008E+00	L	09/14/2007	06:09
7226489	SB-125	14234-35-6	8.31E-01	pCi/L	5.3E+00	5.3E+00	U	9.35E+00		GAMMALL_GS	2.0008E+00	L	09/14/2007	06:09
7226484	TC-99	14133-76-7	-3.33E+00	pCi/L	3.9E+00	5.5E+00	U	9.77E+00	100.0	TC99_ETVDSK_LS	1.259E-01	L	09/05/2007	09:20
7226514	H-3	10028-17-8	1.80E+00	pCi/L	4.0E+00	6.7E+00	U	6.22E+00	100.0	TRITIUM_ELECT_L	1.50E-01	L	09/25/2007	19:01

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.

Thursday, September 27, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id:	J4VA31AB	Sdg/Rept Nbr:	W05216	36848	Collection Date: 07/31/2007 14:12
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BLK		Received Date: 07/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7226489	BE-7	-3.95E+00	pCi/L	2.5E+01	U	4.25E+01			GAMMALL_GS	2.0013E+00	09/14/2007				D
BLK	13966-02-4			2.5E+01						L	06:09				
7226489	CO-60	-1.12E+00	pCi/L	2.0E+00	U	3.35E+00			GAMMALL_GS	2.0013E+00	09/14/2007				D
BLK	10198-40-0			2.0E+00						L	06:09				
7226489	CS-134	-6.12E-02	pCi/L	1.8E+00	U	3.35E+00			GAMMALL_GS	2.0013E+00	09/14/2007				D
BLK	13967-70-9			1.8E+00						L	06:09				
7226489	CS-137	1.58E-01	pCi/L	1.9E+00	U	3.38E+00			GAMMALL_GS	2.0013E+00	09/14/2007				D
BLK	10045-97-3			1.9E+00						L	06:09				
7226489	EU-152	3.26E-01	pCi/L	4.7E+00	U	8.31E+00			GAMMALL_GS	2.0013E+00	09/14/2007				D
BLK	14683-23-9			4.7E+00						L	06:09				
7226489	EU-154	-1.77E+00	pCi/L	5.9E+00	U	1.03E+01			GAMMALL_GS	2.0013E+00	09/14/2007				D
BLK	15585-10-1			5.9E+00						L	06:09				
7226489	EU-155	-8.08E-01	pCi/L	3.5E+00	U	5.96E+00			GAMMALL_GS	2.0013E+00	09/14/2007				D
BLK	14391-16-3			3.5E+00						L	06:09				
7226489	K-40	-3.42E+01	pCi/L	4.8E+01	U	9.83E+01			GAMMALL_GS	2.0013E+00	09/14/2007				D
BLK	13966-00-2			4.8E+01						L	06:09				
7226489	RU-106	-1.46E+01	pCi/L	1.6E+01	U	2.56E+01			GAMMALL_GS	2.0013E+00	09/14/2007				D
BLK	13967-48-1			1.6E+01						L	06:09				
7226489	SB-125	-1.39E+00	pCi/L	4.7E+00	U	7.98E+00			GAMMALL_GS	2.0013E+00	09/14/2007				D
BLK	14234-35-6			4.7E+00						L	06:09				

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.

Thursday, September 27, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id:	J4VA41AB	**Sdg/Rept Nbr:**	W05216	36848	**Collection Date:** 08/02/2007 13:44
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 08/02/2007

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
7226490	ALPHA	3.11E-01	pCi/L	3.4E-01	U	5.91E-01	100.0		9310_ALPHAB	2.007E-01	09/15/2007				D
BLK	12587-46-1			3.3E-01						L	12:21				

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

Thursday, September 27, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id: J4VA51AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05216 36848
Matrix: WATER WATER
QC Type: BLK

Collection Date: 08/02/2007 10:36
Sample On Date:
Received Date: 08/02/2007

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
7226491	BETA	1.19E+00	pCi/L	1.2E+00	U	2.31E+00	100.0		9310_ALPHAB	2.006E-01	09/15/2007				D
BLK	12587-47-2			1.1E+00						L	12:20				

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\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id:	J4VA71AB	**Sdg/Rept Nbr:**	W05216 36848	**Collection Date:**	08/02/2007 12:16
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	08/02/2007

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
7226493	SR-90	-9.05E-02	pCi/L	1.5E-01	U	3.67E-01	79.4		SRISO_SEP_P	1.001E+00	09/16/2007				D
BLK	10098-97-2			1.5E-01						L	09:05				

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

Thursday, September 27, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id: J4VAF1AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05216 36848
Matrix: WATER WATER
QC Type: BLK

Collection Date: 08/03/2007 10:39
Sample On Date:
Received Date: 08/03/2007

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
7226480	Uranium	0.00E+00	ug/L	0.0E+00	U	7.59E-02			UTOT_KPA	2.76E-02	09/14/2007				D
BLK	7440-61-1			0.0E+00						ML	08:59				

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\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id: J4VAT1AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05216 36848
Matrix: WATER WATER
QC Type: BLK

Collection Date: 07/31/2007 09:34
Sample On Date:
Received Date: 07/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7226484	TC-99	-3.18E+00	pCi/L	5.5E+00	U	9.75E+00	100.0		TC99_ETVDSK	1.261E-01	09/05/2007				D
BLK	14133-76-7			3.9E+00						L	09:20				

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

Thursday, September 27, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id: J4VC71AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05216 36848
Matrix: WATER WATER
QC Type: BLK

Collection Date: 07/31/2007 10:01
Sample On Date:
Received Date: 07/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7226506	TH-228	2.35E-02	pCi/L	2.2E-01	U	6.01E-01	95.8		THISO_IE_PR	2.003E-01	09/07/2007				D
BLK	14274-82-9			2.2E-01						L	00:11				
7226506	TH-230	-1.14E-02	pCi/L	1.2E-01	U	2.72E-01	95.8		THISO_IE_PR	2.003E-01	09/07/2007				D
BLK	14269-63-7			1.2E-01						L	00:11				
7226506	TH-232	0.00E+00	pCi/L	1.2E-01	U	2.72E-01	95.8		THISO_IE_PR	2.003E-01	09/07/2007				D
BLK	7440-29-1			1.2E-01						L	00:11				

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.

Thursday, September 27, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id:	J4VCD1AB	**Sdg/Rept Nbr:**	W05216 36848	**Collection Date:**	07/31/2007 10:01
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	07/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7226496	NP-237	3.77E-02	pCi/L	9.6E-02	U	2.26E-01	91.5		NP237_LLE_P	2.002E-01	09/05/2007				D
BLK	13994-20-2			9.6E-02						L	21:52				

TAL Richland

rptFeadRadEdd v3.68

U Qual - Analyzed for, but the resnlt 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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TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id: J4VFD1AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05216 36848
Matrix: WATER WATER
QC Type: BLK

Collection Date: 07/31/2007 10:01
Sample On Date:
Received Date: 07/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7226509	AM-241	2.44E-01	pCi/L	2.3E-01		2.43E-01	95.1		AMCMISO_EIE	2.007E-01	09/10/2007				D
BLK	14596-10-2			2.3E-01						L	13:39				

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.

Thursday, September 27, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id:	J4VFE1AB	**Sdg/Rept Nbr:**	W05216	36848	**Collection Date:** 07/31/2007 14:12
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 07/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7226510	PU-238	0.00E+00	pCi/L	7.3E-02	U	1.71E-01	96.5		PUISO_PLATE	2.003E-01	09/06/2007				D
BLK	13981-16-3			7.3E-02						L	18:17				
7226510	PU-239	2.14E-02	pCi/L	7.4E-02	U	2.01E-01	96.5		PUISO_PLATE	2.003E-01	09/06/2007				D
BLK	PU-239/240			7.4E-02						L	18:17				

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

Thursday, September 27, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id:	J4VFG1AB	**Sdg/Rept Nbr:**	W05216	36848	**Collection Date:** 07/31/2007 10:01
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 07/31/2007

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
7226513	C-14	1.07E+01	pCi/L	7.8E+00		8.24E+00	100.0		C14_LSC	2.00E-01	09/18/2007				D
BLK	14762-75-5			3.8E+00						L	22:56				

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

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Thursday, September 27, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id:	J4VFH1AB	**Sdg/Rept Nbr:**	W05216 36848	**Collection Date:**	08/01/2007 12:03
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	08/01/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7226514	H-3	5.53E+00	pCi/L	7.4E+00	U	6.20E+00	100.0		TRITIUM_ELE	1.50E-01	09/25/2007				D
BLK	10028-17-8			4.9E+00						L	19:01				

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.

Thursday, September 27, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id:	J4VA31CS	**Sdg/Rept Nbr:**	W05216	36848	**Collection Date:** 07/31/2007 14:12
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 07/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7226489	CO-60	4.50E+01	pCi/L	7.6E+00		2.85E+00		3.84E+01	GAMMALL_GS	2.0005E+00	09/14/2007			70	D
BS	10198-40-0			7.6E+00				117.2		L	06:10			130	
7226489	CS-137	5.62E+01	pCi/L	8.2E+00		2.61E+00		4.98E+01	GAMMALL_GS	2.0005E+00	09/14/2007			70	D
BS	10045-97-3			8.2E+00				112.9		L	06:10			130	
7226489	EU-152	8.16E+01	pCi/L	1.4E+01		6.35E+00		7.64E+01	GAMMALL_GS	2.0005E+00	09/14/2007			70	D
BS	14683-23-9			1.4E+01				106.7		L	06:10			130	

TAL Richland

rptFeadRadEdd v3.68

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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.

Thursday, September 27, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id: J4VA41CS **Sdg/Rept Nbr:** W05216 36848 **Collection Date:** 08/02/2007 13:44

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 08/02/2007

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
7226490	ALPHA	1.98E+01	pCi/L	5.0E+00		4.91E-01	100.0	2.25E+01	9310_ALPHAB	2.011E-01	09/15/2007			70	D
BS	12587-46-1			2.0E+00				88.1		L	12:21			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.

Thursday, September 27, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848 Edd

Lab Sample Id:	J4VA51CS	Sdg/Rept Nbr:	W05216	36848	Collection Date: 08/02/2007 10:36
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BS		Received Date: 08/02/2007

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

Batch # / 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
7226491	BETA	2.20E+01	pCi/L	4.2E+00		2.71E+00	100.0	2.22E+01	9310_ALPHAB	2.004E-01	09/15/2007			70	D
BS	12587-47-2			2.4E+00				98.9		L	12:20			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.

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id: J4VA71CS **Sdg/Rept Nbr:** W05216 36848 **Collection Date:** 08/02/2007 12:16

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 08/02/2007

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
7226493	SR-90	1.30E+01	pCi/L	2.0E+00		3.94E-01	78.1	1.36E+01	SRISO_SEP_P	1.0002E+00	09/16/2007			70	D
BS	10098-97-2			7.5E-01				95.3		L	09:05			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.

Thursday, September 27, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id: J4VAF1CS **Sdg/Rept Nbr:** W05216 36848 **Collection Date:** 08/03/2007 10:39

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 08/03/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7226480	Uranium	3.50E+01	ug/L	4.1E+00		8.22E-02		3.55E+01	UTOT_KPA	2.55E-02	09/14/2007			70	D
BS	7440-61-1			4.1E+00				98.6		ML	09:03			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.

Thursday, September 27, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id: J4VAF1DS **Sdg/Rept Nbr:** W05216 36848 **Collection Date:** 08/03/2007 10:39

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 08/03/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7226480	Uranium	3.56E+00	ug/L	3.6E-01		8.32E-02		3.59E+00	UTOT_KPA	2.52E-02	09/14/2007			70	D
BS	7440-61-1			3.6E-01				99.1		ML	09:05			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.

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id: J4VAT1CS **Sdg/Rept Nbr:** W05216 36848 **Collection Date:** 07/31/2007 09:34

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 07/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7226484	TC-99	5.00E+02	pCi/L	3.5E+01		9.81E+00	100.0	5.36E+02	TC99_ETVDSK	1.256E-01	09/05/2007			70	D
BS	14133-76-7			1.3E+01				93.3		L	09:21			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.

Thursday, September 27, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd. h:\Reportdb\edd\FeadIV\Rad\36848 Edd

Lab Sample Id: J4VC71CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05216 36848
Matrix: WATER WATER
QC Type: BS

Collection Date: 07/31/2007 10:01
Sample On Date:
Received Date: 07/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7226506	TH-230	1.13E+01	pCi/L	2.4E+00		2.68E-01	102.8	1.14E+01	THISO_IE_PR	2.006E-01	09/07/2007			70	D
BS	14269-63-7			1.6E+00				99.3		L	00:11			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.

Thursday, September 27, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id:	J4VCD1CS	**Sdg/Rept Nbr:**	W05216 36848	**Collection Date:**	07/31/2007 10:01
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	B$	**Received Date:**	07/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7226496	NP-237	9.16E+00	pCi/L	7.5E+00		1.86E-01	97.9	9.10E+00	NP237_LLE_P	2.011E-01	09/05/2007			70	D
BS	13994-20-2			1.2E+00				100.6		L	21:52			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.

Thursday, September 27, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id:	J4VFD1CS	**Sdg/Rept Nbr:**	W05216 36848	**Collection Date:**	07/31/2007 10:01
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	07/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7226509	AM-241	2.25E+01	pCi/L	3.8E+00		2.39E-01	92.5	2.28E+01	AMCMISO_EIE	2.003E-01	09/10/2007			70	D
BS	14596-10-2			2.0E+00				98.6		L	13:39			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.

Thursday, September 27, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id: J4VFE1CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05216 36848
Matrix: WATER WATER
QC Type: BS

Collection Date: 07/31/2007 14:12
Sample On Date:
Received Date: 07/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7226510	PU-239	4.90E+00	pCi/L	1.1E+00		1.72E-01	90.4	4.61E+00	PUISO_PLATE	2.005E-01	09/06/2007			70	D
BS	PU-239/240			8.4E-01				106.3		L	18:18			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.

Thursday, September 27, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id: J4VFG1CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05216 36848
Matrix: WATER WATER
QC Type: BS

Collection Date: 07/31/2007 10:01
Sample On Date:
Received Date: 07/31/2007

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
7226513	C-14	4.70E+01	pCi/L	1.2E+01		8.24E+00	100.0	4.51E+01	C14_LSC	2.00E-01	09/18/2007			70	D
BS	14762-75-5			4 8E+00				104.4		L	23:39			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.

Thursday, September 27, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id:	J4VFH1CS	**Sdg/Rept Nbr:**	W05216	36848	**Collection Date:** 08/01/2007 12:03
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 08/01/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7226514	H-3	4.11E+02	pCi/L	7.3E+01		6.19E+00	100.0	4.55E+02	TRITIUM_ELE	1.5001E-01	09/25/2007			70	D
BS	10028-17-8			1.7E+01				90.3		L	19:01			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.

Thursday, September 27, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id: J37N11CR **Sdg/Rept Nbr:** W05216 36848 **Collection Date:** 08/01/2007 12:03

Client Id: B1NXN3 **Matrix:** WATER WATER **Sample On Date:**

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

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-007	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
7226514	H-3	1.12E+02	pCi/L	2.3E+01		6.21E+00	100.0		TRITIUM_ELE	1.50E-01	09/25/2007	7.5	0.5		D
DUP	10028-17-8	1.04E+02		9.4E+00						L	19:01	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.

Thursday, September 27, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id:	J37T61DR	**Sdg/Rept Nbr:**	W05216 36848	**Collection Date:**	08/02/2007 10:36
Client Id:	B1P574	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	08/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I07-060	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
7226491	BETA	1.31E+03	pCi/L	1.7E+02		2.86E+00	100.0		9310_ALPHAB	2.01E-01	09/15/2007	.2	0.		D
DUP	12587-47-2	1.31E+03		1.6E+01						L	12:20	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.

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id: J37T81DR **Sdg/Rept Nbr:** W05216 36848 **Collection Date:** 08/02/2007 12:16

Client Id: B1P579 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 08/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I07-060	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
7226493	SR-90	2.58E+02	pCi/L	3.7E+01		3.42E-01	80.6		SRISO_SEP_P	1.0007E+00	09/16/2007	2.9	0.3		D
DUP	10098-97-2	2.65E+02		3.2E+00						L	09:05	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.

Thursday, September 27, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id:	J37V81FR	**Sdg/Rept Nbr:**	W05216 36848	**Collection Date:**	08/02/2007 13:44
Client Id:	B1NXM5	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	08/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-007	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
7226490	ALPHA	1.80E+00	pCi/L	1.3E+00	U	1.83E+00	100.0		9310_ALPHAB	1.166E-01	09/15/2007	48.6	1.2		D
DUP	12587-46-1	2.96E+00		1.3E+00						L	12:21	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.

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id: J3X6L1GR **Sdg/Rept Nbr:** W05216 36848 **Collection Date:** 07/31/2007 14:12

Client Id: B1NKB9 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 07/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7226489	BE-7	9.79E+00	pCi/L	1.7E+01	U	3.09E+01			GAMMALL_GS	1.9673E+00	09/14/2007	3.3	0.		D
DUP	13966-02-4	1.01E+01		1.7E+01						L	06:09	20.0	3		
7226489	CO-60	1.55E-01	pCi/L	1.4E+00	U	2.67E+00			GAMMALL_GS	1.9673E+00	09/14/2007	360.4	0.2		D
DUP	10198-40-0	-4.43E-02		1.4E+00						L	06:09	20.0	3		
7226489	CS-134	4.61E-01	pCi/L	1.4E+00	U	2.61E+00			GAMMALL_GS	1.9673E+00	09/14/2007	83.2	0.7		D
DUP	13967-70-9	1.12E+00		1.4E+00						L	06:09	20.0	3		
7226489	CS-137	8.86E-01	pCi/L	1.3E+00	U	2.47E+00			GAMMALL_GS	1.9673E+00	09/14/2007	0.0	2.8		D
DUP	10045-97-3	-1.73E+00		1.3E+00						L	06:09	20.0	3		
7226489	EU-152	-6.88E-01	pCi/L	3.5E+00	U	6.04E+00			GAMMALL_GS	1.9673E+00	09/14/2007	0.0	0.1		D
DUP	14683-23-9	-8.79E-01		3.5E+00						L	06:09	20.0	3		
7226489	EU-154	3.88E+00	pCi/L	3.8E+00	U	7.71E+00			GAMMALL_GS	1.9673E+00	09/14/2007	147.1	1.2		D
DUP	15585-10-1	5.91E-01		3.8E+00						L	06:09	20.0	3		
7226489	EU-155	-2.38E-02	pCi/L	3.2E+00	U	5.44E+00			GAMMALL_GS	1.9673E+00	09/14/2007	0.0	0.4		D
DUP	14391-16-3	-1.02E+00		3.2E+00						L	06:09	20.0	3		
7226489	K-40	-3.15E+00	pCi/L	2.0E+01	U	3.93E+01			GAMMALL_GS	1.9673E+00	09/14/2007	214.8	6.5		D
DUP	13966-00-2	8.82E+01		2.0E+01						L	06:09	20.0	3		
7226489	RU-106	1.27E+00	pCi/L	1.3E+01	U	2.30E+01			GAMMALL_GS	1.9673E+00	09/14/2007	93.5	0.2		D
DUP	13967-48-1	3.51E+00		1.3E+01						L	06:09	20.0	3		
7226489	SB-125	1.57E+00	pCi/L	3.1E+00	U	5.73E+00			GAMMALL_GS	1.9673E+00	09/14/2007	194.4	0.7		D
DUP	14234-35-6	2.24E-02		3.1E+00						L	06:09	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.

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id: J3X6L1HR
Client Id: B1NKB9
Moisture/Solids%*:

Sdg/Rept Nbr: W05216 36848
Matrix: WATER WATER
QC Type: DUP

Collection Date: 07/31/2007 14:12
Sample On Date:
Received Date: 07/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7226510	PU-238	0.00E+00	pCi/L	7.1E-02	U	1.66E-01	94.5		PUISO_PLATE	2.01E-01	09/06/2007	0.0	0.		D
DUP	13981-16-3	0.00E+00		7.1E-02						L	18:17	20.0	3		
7226510	PU-239	2.08E-02	pCi/L	7.2E-02	U	1.96E-01	94.5		PUISO_PLATE	2.01E-01	09/06/2007	47.3	0.2		D
DUP	PU-239/240	1.28E-02		7.2E-02						L	18:17	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.

Thursday, September 27, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id:	J3X6M1CR	**Sdg/Rept Nbr:**	W05216	36848	**Collection Date:** 07/31/2007 09:34
Client Id:	B1NX30	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 07/31/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I07-056	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
7226484	TC-99	3.41E+02	pCi/L	2.6E+01		9.77E+00	100.0		TC99_ETVDSK	1.266E-01	09/05/2007	5.5	1.1		D
DUP	14133-76-7	3.60E+02		1.1E+01						L	09:20	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.

Thursday, September 27, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id: J3XQH1LR **Sdg/Rept Nbr:** W05216 36848 **Collection Date:** 07/31/2007 10:01

Client Id: B1NKH5 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 07/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7226496	NP-237	1.80E-02	pCi/L	9.5E-02	U	2.83E-01	92.1		NP237_LLE_P	2.015E-01	09/05/2007	556.8	0.4		D
DUP	13994-20-2	-8.47E-03		9.5E-02						L	21:51	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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Thursday, September 27, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id: J3XQH1MR
Client Id: B1NKH5
Moisture/Solids%*:

Sdg/Rept Nbr: W05216 36848
Matrix: WATER WATER
QC Type: DUP

Collection Date: 07/31/2007 10:01
Sample On Date:
Received Date: 07/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7226506	TH-228	1.69E-03	pCi/L	8.8E-02	U	3.09E-01	104.0		THISO_IE_PR	2.008E-01	09/07/2007	0.0	1.		D
DUP	14274-82-9	-5.87E-02		8.8E-02						L	00:11		3		
7226506	TH-230	1.16E-01	pCi/L	1.4E-01	U	1.87E-01	104.0		THISO_IE_PR	2.008E-01	09/07/2007	88.1	0.7		D
DUP	14269-63-7	4.52E-02		1.4E-01						L	00:11	20.0	3		
7226506	TH-232	-3.28E-03	pCi/L	8.2E-02	U	1.65E-01	104.0		THISO_IE_PR	2.008E-01	09/07/2007	0.0	0.1		D
DUP	7440-29-1	0.00E+00		8.2E-02						L	00:11		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.

Thursday, September 27, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id: J3XQH1NR
Client Id: B1NKH5
Moisture/Solids%*:

Sdg/Rept Nbr: W05216 36848
Matrix: WATER WATER
QC Type: DUP

Collection Date: 07/31/2007 10:01
Sample On Date:
Received Date: 07/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7226509	AM-241	7.71E-02	pCi/L	1.2E-01	U	2.05E-01	89.4		AMCMISO_EIE	2.003E-01	09/10/2007	25.1	0.2		D
DUP	14596-10-2	5.99E-02		1.2E-01						L	13:38	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.

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id: J3XQH1PR
Client Id: B1NKH5
Moisture/Solids%*:

Sdg/Rept Nbr: W05216 36848
Matrix: WATER WATER
QC Type: DUP

Collection Date: 07/31/2007 10:01
Sample On Date:
Received Date: 07/31/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7226513	C-14	2.44E+00	pCi/L	7.0E+00	U	8.24E+00	100.0		C14_LSC	2.00E-01	09/19/2007	111.7	1.2		D
DUP	14762-75-5	8.60E+00		3.5E+00						L	01:03	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.

Thursday, September 27, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id: J4DR41CR
Client Id: B1P836
Moisture/Solids%*:

Sdg/Rept Nbr: W05216 36848
Matrix: WATER WATER
QC Type: DUP

Collection Date: 08/03/2007 10:39
Sample On Date:
Received Date: 08/03/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-008	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
7226480	Uranium	-1.28E-02	ug/L	3.3E-03	U	7.97E-02			UTOT_KPA	2.63E-02	09/14/2007	0.0	5.3		D
DUP	7440-61-1	-4.85E-04		3.3E-03						ML	09:53	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.

Thursday, September 27, 2007

TAL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id: J37NT1DW
Client Id: B1NXN0
Moisture/Solids%*:

Sdg/Rept Nbr: W05216 36848
Matrix: WATER WATER
QC Type: MS

Collection Date: 08/01/2007 12:48
Sample On Date:
Received Date: 08/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-007	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
7226484	TC-99	3.10E+03	pCi/L	1.9E+02		9.74E+00	100.0	3.57E+03	TC99_ETVDSK	1.261E-01	09/05/2007			60	D
MS	14133-76-7			3.0E+01				87.0		L	09:20			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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TAL Richland Qc Matrix Spike Report

Lab Code: S1LRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05216.Edd, h:\Reportdb\edd\FeadIV\Rad\36848.Edd

Lab Sample Id: J4DR61CW
Client Id: B1P833
Moisture/Solids%*:

Sdg/Rept Nbr: W05216 36848
Matrix: WATER WATER
QC Type: MS

Collection Date: 08/03/2007 11:40
Sample On Date:
Received Date: 08/03/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-008	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
7226480	Uranium	3.51E+01	ug/L	1.1E+01		7.85E-02		3.42E+01	UTOT_KPA	2.67E-02	09/14/2007			60	D
MS	7440-61-1			1.1E+01				102.7		ML	10:02			140	

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

9/12/2007 3:35:54 PM

Lot No., Due Date: J7G310266; 09/20/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7226509; RAMISO Amiso by ALP

SDG, Matrix: W05216; 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=> J3XQH1AN AM-241 25.0 J3XQH1AN AM-241 25.0 (RPD)		✓	
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK	✓		
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	✓		
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK	✓		
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => AM-241 OK; No Callin Level Found => AM-241	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. FWHM > maxFWHM => J4VFD1AC AM-241 67.7>0 Q:V1		✓	

8.26 Instruments have Current Calibrations. Yes No N/A

8.27 Correct Ccunt Library Used. Yes No N/A

Library Not Specified => J3XQH1AC I:[NUC_LIBR]AR_AM Q:
J3XQH1AN I:[NUC_LIBR]AR_AM Q:
J4VFD1AA I:[NUC_LIBR]AR_AM Q:
J4VFD1AC I:[NUC_LIBR]AR_AM Q:

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 Autonson Date 9/12/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7226509
W05216

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 R Adkins Date: 9-13-07

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

9/7/2007 2:36:32 PM

Lot No., Due Date: J7G310266; 09/20/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7226496; RNP237 Np-237 w/tracer

SDG, Matrix: W05216; WATER

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 9-7-7

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7226496
W05216

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 Allen Date: 9-10-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

9/7/2007 10:45:00 AM

Lot No., Due Date: J7G310310,J7G310266; 09/20/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7226510; RPUISO Pulso by ALP

SDG, Matrix: W05216; WATER

8.0 Correction Calculation Protocol Used. OK	Yes ✓	No	N/A
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	Yes ✓	No	N/A
8.02 Final Results Are in the Appropriate Activity Units OK	Yes ✓	No	N/A
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. Not Compared => J3X6L1AH PU-238 (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. No Limit Specified!	Yes	No	N/A ✓
8.22 Result < Mdc. Activity Not Detected. U Flag. No Positive Results OK	Yes ✓	No	N/A
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => PU-238 PU-239 OK; No Callin Level Found => PU-238 PU-239	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. Yes No N/A ✓

FWHM > maxFWHM => J4VFE1AC PU-239 41.8>0 Q:V1

8.26 Instruments have Current Calibrations. Yes No N/A

8.27 Correct Count Library Used. Yes No N/A

Library Not Specified => J3XQH1AG I:[NUC_LIBR]AR_PU Q:
J3X6L1AD I:[NUC_LIBR]AR_PU Q:
J3X6L1AH I:[NUC_LIBR]AR_PU Q:
J4VFE1AA I:[NUC_LIBR]AR_PU Q:
J4VFE1AC I:[NUC_LIBR]AR_PU Q:

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 Austenson Date 9/17/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7226510
W05216

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: 4-7-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

9/13/2007 1:46:14 PM

Lot No., Due Date: J7G310266; 09/20/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7226506; RTHISO Thiso by ALP

SDG, Matrix: W05216; 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 John Hosten **Date** 9-13-7

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 7226506
W05216

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: 9-14-07

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

9/17/2007 3:29:21 PM

Lot No., Due Date: J7H030356; 09/20/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7226490; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05216; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	✓		
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used Analysis Volume => J37V81AA 117.60<200.00 Q:VB		✓	
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. RPD > UCL : 20.0=> J37V81AF ALPHA 49.0 (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 => J37V81AA ALPHA 3.0E+00 L:2.2E+00		✓	
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => ALPHA OK; No Callin Level Found => ALPHA	✓		
8.24 Result + 3s >=0 Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

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 version.) 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 version.) Yes No N/A

8.3 Comments:

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

First Level Review Lisa Antonson Date 9/17/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7226490
W05216

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: 9-18-07

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

9/17/2007 9:52:41 AM

Lot No., Due Date: J7H030352,J7H030356,J7H030354; 09/20/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7226491; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05216; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	✓		
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used Analysis Volume => J37V81AC 131.30<200.00 Q:VB		✓	
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK	✓		
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	✓		
8.19 Sample Specific MDC <= CRDL. MDC/MDA > CRDL => J37V81AC BETA 4.5E+00>4.0E+00 Q:C1		✓	
8.2 Comments: Please see NCM#10-10847			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => J37T61AA BETA 1.3E+03 L:3.1E+00 J37T81AA BETA 5.2E+02 L:2.8E+00 J37VN1AA BETA 5.0E+02 L:2.7E+00 J37VR1AA BETA 1.1E+03 L:2.8E+00 J37V81AC BETA 1.0E+01 L:4.5E+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:

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

First Level Review John T. Norton Date 9-17-7

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7226491
W05216

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 Allen Date: 9-17-07

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: 10-10847
NCM Initiated By: John Norton
Date Opened: 09/17/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: None
Lot #'s (Sample #'s): J7H030356 (3),
QC Batches: None.,

Nonconformance: MDA not met
Subcategory: Sample size reduced due to high residue mass

Problem Description / Root Cause

Name	Date	Description
John Norton	09/17/2007	The sample did not meet the RDL due to reduced aliquot size caused by high residue weights.

Corrective Action

Name	Date	Corrective Action
John Norton	09/17/2007	The activity detected in the sample was greater than the IDC, the data can be accepted.

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

9/17/2007 1:35:48 PM

Lot No., Due Date: J7H030352,J7G310310,J7G310266; 09/20/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7226493; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05216; WATER

1.0 COC

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

2.0 QC Batch

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

3.0 QC & Samples

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

4.0 Raw Data

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

5.0 Other

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 9/17/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 7226493
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: 9-18-07

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

9/14/2007 11:26:01 AM

Lot No., Due Date: J7G310310,J7G310266,J7H080199; 09/20/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7226489; RGAMMA Gamma by GER

SDG, Matrix: W05216; 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 Tra Autonson **Date** 9/14/07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

9/26/2007 3:50:29 PM

Lot No., Due Date: J7H030334,J7H030356,J7H080199; 09/20/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7226514; RH3EE H3EE by LSC

SDG, Matrix: W05216; 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 John Hooter **Date** 9-26-7

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 722514

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: 9-27-07

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

9/10/2007 10:40:23 AM

Lot No., Due Date: J7H030334,J7G310310,J7G310311,J7G310266,J7H080210,J7H080199; 09/20/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7226484; RTC99 Tc-99 by LSC

SDG, Matrix: W05216; 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 (MBks) 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 9/16/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7226484
W05216

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: 9-10-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

9/19/2007 4:28:44 PM

Lot No., Due Date: J7G310266; 09/20/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7226513; RC14 C-14 by LSC

SDG, Matrix: W05216; 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 [illegible] 3XQH1AP C-14 110.0 (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. No Tracers found in Batch!			✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!			✓
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected. U Flag. No Positive Results OK Calc_IDL Not Calculated	✓		
8.23 Result <= Action Level, when Defined. OK: No Action Level Found => C-14 OK: No Action Level Found => C-14	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

8.26 Instruments have Current Calibrations.	Yes	No	N/A
8.27 Correct Count Library Used. No Count Library found in Batch Data!	Yes	No	N/A ✓
8.28 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later versions)	Yes	No	N/A
8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later versions)	Yes	No	N/A

8.3 Comments:

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

First Level Review Lisa Autonson Date 9/19/07

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: TLL6513
W05216

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: 9-20-07

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

SEVERN TRENT

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

9/17/2007 1:31:51 PM

Lot No., Due Date: J7H030334,J7H030356,J7H070376,J7H080210; 09/20/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7226480; RUNAT UNat by KPA

SDG, Matrix: W05216; 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 Antonson **Date** 9/17/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 7226480
W05216

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: 9-18-07

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7G 310309 W05216 Due 09.14.07

C.O.C. # A07-007-31

Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	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	Logbook: HNF-N-506-6	Ice Chest No: ERC-99-057 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
B1NWK7		W	7/31/07	0934	1x20-mL P	Activity Scan	None
B1NWK7		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						J3X6K	

R. Wall 7/31/07

Relinquished By: Fluor Hanford R. T. SICKLE (Print) (Sign)	Date/Time 1530 JUL 3 1 2007	Received By: A. Smith S. Smith (Print) (Sign)	Date/Time 1530 JUL 3 1 2007
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = 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: 07·31·07 15:30

Client: PGW SDG #: W05216 NA [ ] SAF #: A07-007 NA [ ]

Work Order Number: J76 310309 Chain of Custody # A07-007-31

Shipping Container ID: _____ Air Bill # _____

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

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

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

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

6. Number of samples in shipping container: 1

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

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

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

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

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

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

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

Sample Custodian: S. Smith Date: 07·31·07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

TAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J76310310 W05216 Due 09 14-07

C.O.C. # S07-006-30

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	Logbook: HNF-N-506-6	Ice Chest No.: ERC-99-057 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
** ** 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
B1NKB9		W	7/31/07	1412	1x20-mL P	Activity Scan	None
B1NKB9		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1NKB9		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1NKB9		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1NKB9		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1NKB9		W			1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	HNO3 to pH <2

J3X6L

L. Wall 7/31/07

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Fluor Hanford R. T. SICKLE	JUL 3 1 2007 1530	S. Smith	JUL 3 1 2007 1530
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum 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: 07-31-07 1530

Client: PGW SDG #: W05216 NA [ ] SAF #: 507 006 NA [ ]

Work Order Number: J76 310310 Chain of Custody # 507-006 30

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: S. Smith Date: 07-31-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

FLUOR HANFORD

Fluor Hanford
R. T. SICKLE

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7G310311 W05216 Due 09.14.07

C.O.C. # I07-056-32

Page 1 of 1

Collector: R. T. SICKLE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I07-056	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2ZP1-LOI, JULY 2007	Logbook: HNF-N-506-6	Ice Chest No.: ERC-99-057 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
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.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NX30		W	7/31/07	0934	1x20-mL P	Activity Scan	None
B1NX30		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						J3X6M	

R. Wall 7/31/07

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Fluor Hanford R. T. SICKLE	JUL 3 1 2007 1530	S. Em Vh	JUL 3 1 2007 1530
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum 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

90

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 07-31-07 1530

Client: PGW SDG #: W05216 NA [ ] SAF #: I07-056 NA [ ]

Work Order Number: J76310311 Chain of Custody # I07-056-32

Shipping Container ID: _____ Air Bill # _____

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

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

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

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

6. Number of samples in shipping container: 1

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

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

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

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

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

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

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

Sample Custodian: L. Smith Date: 07 31-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

TAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

SS 08-01-07

J7G310266 WD521X6 DUE 91407

C.O.C.# S07-006-342

Page 1 of 1

Collector: Fluor Hanford D. R. BREWINGTON	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-006	Sampling Origin: Hanford Site DUE 7-31-07	Purchase Order/Charge Code
Project Title: SURV. JUNE 2007	HNF-5N-506 7	Ice Chest No.: SML-545 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 ☐

J3XQH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NKH5		W	7-3-07	100	1x20-mL P	Activity Scan	None
B1NKH5		W			2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1NKH5		W			1x1000-mL G/P	Isotopic Thorium	HNO3 to pH <2
B1NKH5		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1NKH5		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1NKH5		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1NKH5		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1NKH5		W			1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	HNO3 to pH <2
B1NKH5		W			1x1000-mL G/P	AMCMISO_EIE_PLT_AEA: Am-241 (1)	HNO3 to pH <2
B1NKH5		W			1x1000-mL G/P	NP237_LLE_PLATE_AEA:Np-237(1)	HNO3 to pH <2

J3QWL

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Fluor Hanford	D.R. Brewington	JUL 3 1 2007 DUE 7-4-07 1400 1300		LARRY LANE		JUL 3 1 2007 1300
Relinquished By	D. R. BREWINGTON		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 DUE 91407

Date/Time Received: 73107 1300 SS 08/01/07

Client: PGW SDG #: WD5214 6 NA [ ] SAF #: 507-006 NA [ ]

Work Order Number: 176310266 Chain of Custody # 507-006-342

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: 73107

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

J7H030334 W05216 Due 09.14.07

C.O.C. # S07-007-236

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.: SML-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
B1NXN0		W	8/1/7	1248	1x20-mL P	Activity Scan	None
B1NXN0		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1NXN0		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						J37NT	

Relinquished By: Fluor Hanford F. M. HALL Print / Sign AUG 0 1 2007 Date/Time 1400		Received By: LJLANE Print / Sign AUG 0 1 2007 Date/Time 1400	
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum 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

FAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7H030334 W05216 Due 09-14-07

C.O.C. # S07-007-244

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 - 102 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
B1NXN3		W	8/1/7	1203	1x20-mL P	Activity Scan	None
B1NXN3		W	↓	↓	3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None
						J37N1	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F. M. HALL		AUG 0 1 2007	1400		LLANE	AUG 0 1 2007	1400
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum 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

FAX RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7H030334 W05216 Due 09-14-07

C.O.C. # S07-007-252

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. SAWS102 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
B1NXN5		W	8/1/7	1334	1x20-mL P	Activity Scan	None
B1NXN5		W	↓	↓	3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None
						J37N3	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F.M. HALL			AUG 0 1 2007 1400		WLANE		AUG 0 1 2007 1400
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liquid	
SO = Solid		T = Tissue	
SI = Surface		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: 8/1/07 1400

Client: PGW SDG #: W05014 NA [ ] SAF #: 507-007 NA [ ]

Work Order Number: J7H030334 Chain of Custody # 507-007-236,-244,-252

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: 8/1/07

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

J7H030352 W05216 Due 09.17.07

C.O.C. # I07-060-2

Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I07-060	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100NR2IAM-LOI, AUGUST 2007	HNF-N-506-6	Ice Chest No.: ~~30-88-07~~ GW-TERC-99-057 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 ☐
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
B1P574		W	8-2-07	1036	1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
B1P574		W			1x20-mL P	Activity Scan	None
B1P574		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						J3TT6	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Fluor Hanford R. T. SICKLE		8-2-07 1400 AUG 01 2007		LJLANE		8-2-07 1415 AUG 01 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

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TAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7H030352 W05216 Due 09-17-07

C.O.C. # I07-060-6

Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: 107-060	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100NR2IAM-LOI, AUGUST 2007	HNF-N-506-6	Ice Chest No.: ERC-99-057 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 ☐
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
B1P579		W	8-2-07	1216	1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
B1P579		W			1x20-mL P	Activity Scan	None
B1P579		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						J37T8	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Fluor Hanford R. T. SICKLE		8-2-07 1415 AUG 08 2007		LVLANE		8-2-07 1415 AUG 08 2007
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SP = 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: 08-2-07 1415

Client: PGW SDG #: W05216 NA [ ] SAF #: I07-060 NA [ ]

Work Order Number: J7H030352 Chain of Custody # I07-060-2,-6

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: RJR Date: 8-2-07

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

Fluor Hanford

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7H030354 W05216 Due 09.17.07

C.O.C. # G07-008-2

Page 1 of 1

Collector: R. T. SICKLE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: G07-008	Sampling Origin: Hanford Site	Purchase Order/Charge Code:
Project Title: INR2-RB, AUGUST 2007	HNF-N-506-6	Ice Chest No.: ~~SMC-185~~ ERC-99-057 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

** ** 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
B1P472		W	8-2-07	0850	1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
B1P472		W	↓	↓	1x20-mL P	Activity Scan	None
						J37VN	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			AUG 0 2 2007 1415		LARRY LANE		AUG 0 2 2007 1415
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SF = 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

FLUOR HANFORD

Fluor Hanford
R. T. SICKLE

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7H030354 W05216 Due 09/17/07

C.O.C. # G07-008-6

Page 1 of 1

Collector	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: G07-008	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 1NR2-RB, AUGUST 2007	HNF-N-6506-6 8-2-07	Ice Chest No.: ERC-99-057 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
** ** 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
B1P476		W	8-2-07	0923	1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
B1P476		W	↓	↓	1x20-mL P	Activity Scan	None
						J37VR	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Fluor Hanford R. T. SICKLE		AUG 0 2 2007 1415		LJ LANE		8-2-07 1415
Relinquished By			Date/Time	Received By			AUG 0 2 2007
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: 8-2-07 1415

Client: PGW SDG #: W05216 NA [ ] SAF #: G07-008 NA [ ]

Work Order Number: J7H030354 Chain of Custody # G07-008-2,-6

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: 8-2-07

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 Fluor Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J7H030356 W05216 Due 09-17-07	C.O.C. # S07-007-216 Page 1 of 1

Collector: 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.: SAW 102 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
B1NXM2		W	8-2-07	1133	1x20-mL P	Activity Scan	None
B1NXM2		W	8-2-07	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						J37X5	

Relinquished By	Date/Time	Received By	Date/Time
Fluor Hanford F M HALL [signature]	AUG 0 2 2007 1430	Print LJLANE Sign [signature]	AUG 0 2 2007 1430

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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TAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7H0303 56 W05216 Due 09 17 07

C.O.C. # S07-007-208

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.: SAW 102 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
B1NXL8		W	8-2-07	1000	1x20-mL P	Activity Scan	None
B1NXL8		W	8-2-07	1600	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

J37V7

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Fluor Hanford F. M. HALL		AUG 0 2 2007 1430		WLANE		AUG 0 2 2007 1430
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

J7H030356 W05216 Due 09/07

C.O.C. # S07-007-230

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	HWF-N-506 7	Ice Chest No.: Saw 5162 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
B1NXM5		W	8-2-07	1344	1x20-mL P	Activity Scan	None
B1NXM5		W	8-2-07	↓	3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None
B1NXM5		W	8-2-07	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1NXM5		W	8-2-07	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						J37V8	

Relinquished By: Fluor Hanford F. M. HALL Print Sign Date/Time: AUG 02 2007 1430	Received By: Print LJLANE Sign Date/Time: AUG 02 2007 1430	Matrix *	
Relinquished By Date/Time	Received By Date/Time	S = Soil; SR = 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

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SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 8-2-07 1430

Client: PGW SDG #: W05216 NA [ ] SAF #: 507-007 NA [ ]

Work Order Number: J7H030356 Chain of Custody # 507-007-208,-216,-230

Shipping Container ID: _____ Air Bill # _____

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

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

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

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

6. Number of samples in shipping container: 3

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

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

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

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

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

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

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

Sample Custodian: [signature] Date: 8-2-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

TAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7H070376 W05216 Due 09.17.07

C.O.C. # W07-008-527

Page 1 of 1

Collector: Steve Overdahl, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W07-008	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, AUGUST 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: 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
B1P836		W	8-3-07	1039	1x20-mL P	Activity Scan	None
B1P836		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

J4DR4

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Steve Overdahl, Fluor Hanford			AUG 03 2007 1425		LJLANE		AUG 03 2007 1425
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SF = 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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TAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7H070376 W05216 Due 09.1707

C.O.C. # W07-008-521

Page 1 of 1

Collector: Steve Overdahl, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W07-008	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, AUGUST 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: 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
B1P833		W	8-3-07	1140	1x20-mL P	Activity Scan	None
B1P833		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						J4DR6	

Relinquished By	Date/Time	Received By	Date/Time
Steve Overdahl, Fluor Hanford (Print) Steve (Sign)	1425 AUG 03 2007	LJ LANE (Print) (Sign)	1425 AUG 03 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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7H070376 W05216 Due 09-17-07

C.O.C. # W07-008-539

Page 1 of 1

Collector: Steve Overdahl, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W07-008	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, AUGUST 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: 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
B1P842		W	8-3-07	1311	1x20-mL P	Activity Scan	None
B1P842		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						J7DTA	

Steve Overdahl, Fluor Hanford — Print — Sign — Date/Time 1425 AUG 03 2007	Received By — Print LJLANE — Sign — Date/Time 1425 AUG 03 2007	Matrix *	
Relinquished By — Date/Time	Received By — Date/Time	S = Soil; SE = Sediment; SO = Solid; SL = Sludge; W = Water; O = Oil; A = Air	DS = Drum Solid; DL = Drum Liqui; T = Tissue; WI = Wipe; L = Liquid; V = Vegetation; X = Other
Relinquished By — Date/Time	Received By — Date/Time		
Relinquished By — Date/Time	Received By — Date/Time		
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

TAL RICHLAND

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TAL RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J7H070376 W05216 Due 09.17.07	C.O.C. # W07-008-533 Page 1 of 1

Collector: Steve Overdahl, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W07-008	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, AUGUST 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: 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, PH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1P839		W	8-3-07	1357	1x20-mL P	Activity Scan	None
B1P839		W	↑	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						J4DTC	

Relinquished By: Steve Overdahl, Fluor Hanford — Print — Sign — Date/Time 1425 AUG 03 2007	Received By: Print LJLANE — Sign — Date/Time 1425 AUG 03 2007	Matrix *	
Relinquished By — Date/Time	Received By — Date/Time	S = Soil; SE = Sediment; SO = Solid; SI = 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

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SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 8-3-07 1425

Client: PGW SDG #: W05216 NA [ ] SAF #: W07-008 NA [ ]

Work Order Number: JT1H070376 Chain of Custody # W07-008-527,-521,-539,-533

Shipping Container ID: _____ Air Bill # _____

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

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

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

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

6. Number of samples in shipping container: 4

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

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

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

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

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

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

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

Sample Custodian: [signature] Date: 8-3-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

TAL RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S07-007-303
	J7H080199 W05216 Due 09.20.07	Page 1 of 1

Collector: Dave Williamson, Fluor Hanford	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.: SAL 595 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

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
B1P344		W	8/6/07	1340	1x20-mL P	Activity Scan	None
B1P344		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1P344		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1P344		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1P344		W			3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None
						J4EV6	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Dave Williamson, Fluor Hanford		David Williamson	AUG 06 2007 14:55	Rhonda Wagoner		Rhonda Wagoner	AUG 06 2007 14:55
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: 08-06-07 1455

Client: PGW SDG #: WD5216 NA [ ] SAF #: 507-007 NA [ ]

Work Order Number: J7H080199 Chain of Custody # 507-007-303

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: 8 water
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: 8/6/07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7H080210 W05216 Due 09-20-07

C.O.C. # I07-062-292

Page 1 of 1

Collector: Fluor Hanford K. B. HULSE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I07-062	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2ZP1-LOI, AUGUST 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: CERCLA	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 SDG7s are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1P5X9		W	8/6/07	1305	1x20-mL P	Activity Scan	None
B1P5X9		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1P5X9		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1P5X9		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						J4E4H	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Fluor Hanford K. B. HULSE		AUG 06 2007 14:55		Rhonda Wagner		AUG 06 2007 14:55
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
SF	= 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: 08 06 07 1455

Client: PBW SDG #: W05216 NA [ ] SAF #: I07-062 NA [ ]

Work Order Number: J7H080210 Chain of Custody # I07-062-292

Shipping Container ID: _____ Air Bill # _____

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

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

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

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

6. Number of samples in shipping container: 1

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

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

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

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

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

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

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

Sample Custodian: L. Smith Date: 08 06 07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

TAL RICHLAND

9/4/2007 9:09:09 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

8I Am PrpRC5016/5086, SepRC5072(5003)
SX Americium-241 by Alpha Spec
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 09/14/2007 W05216

Sep1 DT/Tm Tech:

Batch: 7226509 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 J3XQH-1-AC J7G310266-1-SAMP 07/31/2007 10:01		201.30g,in AmtRec: 20ML,500MLP,9XLP,3X4LP	AMTC2604 07/24/07,pd 06/01/01,r #Containers: 14	2 CPD		Scr:	Alpha: 8.51E-04 uCi/Sa	Beta: 5.77E-03 uCi/Sa
2 J3XQH-1-AN-X J7G310266-1-DUP 07/31/2007 10:01		200.30g,in AmtRec: 20ML,500MLP,9XLP,3X4LP	AMTC2605 07/24/07,pd 06/01/01,r #Containers: 14			Scr:	Alpha: 8.51E-04 uCi/Sa	Beta: 5.77E-03 uCi/Sa
3 J4VFD-1-AA-B J7H140000-509-BLK 07/31/2007 10:01		200.70g,in AmtRec.	AMTC2606 08/28/07,pd 06/01/01,r #Containers: 1			Scr:	Alpha:	Beta:
4 J4VFD-1-AC-C J7H140000-509-LCS 07/31/2007 10:01		200.30g,in AmtRec:	AMSK0286 08/08/07,pd 06/01/01,r #Containers: 1			Scr:	Alpha:	Beta:

12V
13U
13V
13Z

Comments: pH < 2.0 RC 09/04/07

WARM SAMPLE: J4VFD-1AC-C (LCS) · mf 9-10-07

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

J3XQH1AC-SAMP Constituent List:

Am-241	RDL:1.00E+00	pCi/L	LCL:70	UCL:130	RPD:20	AM-243	RDL:	pCi/L	LCL:20	UCL:105	RPD:20

J4VFD1AA-BLK:

Am-241	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:	AM-243	RDL:	pCi/L	LCL:20	UCL:105	RPD:20

J4VFD1AC-LCS:

Am-241	RDL:1	pCi/L	LCL:70	UCL:130	RPD:20	AM-243	RDL:	pCi/L	LCL:20	UCL:105	RPD:20

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TAL RICHLAND

9/4/2007 9:09:12 AM

Sample Preparation/Analysis

8I Am PrpRC5016/5086, SepRC5072(5003)
SX Americium-241 by Alpha Spec
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 09/14/2007

Sep1 DT/Tm Tech:

Batch: 7226509 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	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

```
J3XQH1AC-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J4VFD1AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J4VFD1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

TAL RICHLAND

9/4/2007 9:20:13 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 09/14/2007 W05216

Sep1 DT/Tm Tech: 9-5-07 2:38 PF

Batch: 7226496 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Ord, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J3XQH-1-AA J7G310266-1-SAMP 07/31/2007 10:01			202.30g,in	202.30g	NPTA6761 08/01/07,pd 06/01/01,r			200				
			AmtRec: 20ML,500MLP,9XLP,3X4LP		#Containers: 14				Scr:	Alpha: 8.51E-04 uCi/Sa		Beta: 5.77E-03 uCi/Sa
2 J3XQH-1-AL-X J7G310266-1-DUP 07/31/2007 10:01			201.50g,in	201.50g	NPTA6762 08/01/07,pd 06/01/01,r							
			AmtRec: 20ML,500MLP,9XLP,3X4LP		#Containers: 14				Scr:	Alpha: 8.51E-04 uCi/Sa		Beta: 5.77E-03 uCi/Sa
3 J4VCD-1-AA-B J7H140000-496-BLK 07/31/2007 10:01			200.20g,in	200.20g	NPTA6763 08/01/07,pd 06/01/01,r							
			AmtRec:		#Containers: 1				Scr:	Alpha:		Beta:
4 J4VCD-1-AC-C J7H140000-496-LCS 07/31/2007 10:01			201.10g,in	201.10g	NPSE0433 07/24/07,pd 06/01/01,r							
			AmtRec		#Containers: 1				Scr:	Alpha:		Beta:

Comments: All <2.0 RC 09/04/07

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

J3XQH1AA-SAMP Constituent List:
Np-237 RDL:0.6 pCi/L LCL: UCL: RPD:
J4VCD1AA-BLK:
Np-237 RDL:0.6 pCi/L LCL: UCL: RPD:
J4VCD1AC-LCS:

J3XQH1AA-SAMP Calc Info:

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TAL RICHLAND

9/4/2007 9:20:15 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: ___

AnalyDueDate: 09/14/2007

Sep1 DT/Tm Tech:

Batch: 7226496 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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

Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J4VCD1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J4VCD1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ _____ _____ Date: _____

TAL RICHLAND

9/4/2007 8:54:35 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

6D Pu PrpRC5015, SepRC5010(5039)
SO Plutonium-238,239/40 by Alpha Spec
5I CLIENT: HANFORD

Pipet #:

AnalyDueDate: 09/14/2007 W05216

Sep1 DT/Tm Tech:

Batch: 7226510 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7226484 FPS5, 7226488 BNTB, 7226489 AWTA, 7226493 CLTL, 7226496 KOXW, 7226506 9NS1, 7226509 8ISX, 7226510 6DSO, 7226513 5SS3,

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 J3XQH-1-AG J7G310266-1-SAMP 07/31/2007 10:01		200.00g,in AmtRec: 20ML,500ML,9XLP,3X4LP	PUTC10891 08/22/07,pd 03/13/07,r #Containers: 14	200			Scr: Alpha: 8.51E-04 uCi/Sa	Beta: 5.77E-03 uCi/Sa
2 J3X6L-1-AD J7G310310-1-SAMP 07/31/2007 14:12		202.50g,in AmtRec: 20ML,500ML,4XLP,3X4LP	PUTC10892 08/22/07,pd 03/13/07,r #Containers: 9				Scr: Alpha: 1.62E-03 uCi/Sa	Beta: 6.59E-04 uCi/Sa
3 J3X6L-1-AH-X J7G310310-1-DUP 07/31/2007 14:12		201.00g,in AmtRec: 20ML,500ML,4XLP,3X4LP	PUTC10893 08/22/07,pd 03/13/07,r #Containers: 9				Scr: Alpha: 1.82E-03 uCi/Sa	Beta: 6.59E-04 uCi/Sa
4 J4VFE-1-AA-B J7H140000-510-BLK 07/31/2007 14:12		200.30g,in AmtRec:	PUTC10894 08/22/07,pd 03/13/07,r #Containers: 1				Scr: Alpha:	Beta:
5 J4VFE-1-AC-C J7H140000-510-LCS 07/31/2007 14:12		200.50g,in AmtRec:	PUSG0940 08/22/07,pd 03/13/07,r #Containers: 1				Scr: Alpha:	Beta:

Comments: pH < 2.0 RC 09/04/07

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

J3XQH1AG-SAMP Constituent List:

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

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9/4/2007 8:54:37 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 09/14/2007

Sep1 DT/Tm Tech:

Batch: 7226510 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	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

```
 Pu-242      RDL:          pCi/L     LCL:20     UCL:105    RPD:20
J4VFE1AA-BLK:
 PU-238      RDL:1         pCi/L     LCL:       UCL:       RPD:       PU-239     RDL:1      pCi/L     LCL:       UCL:       RPD:
 Pu-242      RDL:          pCi/L     LCL:20     UCL:105    RPD:20
J4VFE1AC-LCS:
 PU-239      RDL:1         pCi/L     LCL:70     UCL:130    RPD:20     Pu-242     RDL:       pCi/L     LCL:20     UCL:105    RPD:20

J3XQH1AG-SAMP Calc Info:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
J4VFE1AA-BLK:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
J4VFE1AC-LCS:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

Approved By _____ Date: _____

TAL RICHLAND

9/4/2007 9:30:32 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

9N Thiso PrpRc5016, SepRC5064(5003) SC47 8mp
S1 Thorium-228,230,232 by Alpha Spec
01 STANDARD TEST SET

Pipet #: _____

AnalyDueDate: 09/14/2007 WO5216

Sep1 DT/Tm Tech:

Batch: 7226506 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J3XQH-1-AK J7G310266-1-SAMP 07/31/2007 10:01			200.10g,in	200.10g	THTC11328 08/22/07,pd 07/09/07,r	200				
		AmtRec: 20ML,500MLP,9XLP,3X4LP		#Containers: 14			Scr:	Alpha: 8.51E-04 uCi/Sa		Beta: 5.77E-03 uCi/Sa
2 J3XQH-1-AM-X J7G310266-1-DUP 07/31/2007 10:01			200.80g,in	200.80g	THTC11329 08/22/07,pd 07/09/07,r					
		AmtRec: 20ML,500MLP,9XLP,3X4LP		#Containers: 14			Scr:	Alpha: 8.51E-04 uCi/Sa		Beta: 5.77E-03 uCi/Sa
3 J4VC7-1-AA-B J7H140000-506-BLK 07/31/2007 10:01			200.30g,in	200.30g	THTC11330 08/22/07,pd 07/09/07,r					
		AmtRec:		#Containers: 1			Scr:	Alpha:		Beta:
4 J4VC7-1-AC-C J7H140000-506-LCS 07/31/2007 10:01			200.60g,in	200.60g	THSI1041 08/22/07,pd 07/09/07,r					
		AmtRec:		#Containers: 1			Scr:	Alpha:		Beta:

Comments: pH < 2.0 RC 07/04/07

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

J3XQH1AK-SAMP Constituent List:

Th-228	RDL:1	pCi/L	LCL:	UCL:	RPD:	Th-230	RDL:1	pCi/L	LCL:70	UCL:130	RPD:20
Th-232	RDL:1	pCi/L	LCL:	UCL:	RPD:	Th-234	RDL:	pCi/L	LCL:20	UCL:115	RPD:20

J4VC71AA-BLK:

Th-228	RDL:1	pCi/L	LCL:	UCL:	RPD:	Th-230	RDL:1	pCi/L	LCL:	UCL:	RPD:
Th-232	RDL:1	pCi/L	LCL:	UCL:	RPD:	Th-234	RDL:	pCi/L	LCL:20	UCL:115	RPD:20

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TAL RICHLAND

9/4/2007 9:30:34 AM

Sample Preparation/Analysis

9N Thiso PrpRc5016, SepRC5084(5003)
S1 Thorium-228,230,232 by Alpha Spec
01 STANDARD TEST SET

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 09/14/2007

Sep1 DT/Tm Tech:

Batch: 7226506 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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

J4VC71AC-LCS:
Th-230 RDL:1 pCi/L LCL:70 UCL:130 RPD:20 Th-234 RDL: pCi/L LCL:20 UCL:115 RPD:20

J3XQH1AK-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J4VC71AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J4VC71AC-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 9:48:38 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: 246

AnalyDueDate: 09/17/2007 WO5216

Sep1 DT/Tm Tech:

Batch: 7226490 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

Prep Tech: ,ClarkR/APA

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J37V8-1-AA J7H030356-3-SAMP 08/02/2007 13:44		117.60g,in AmtRec: 20ML,500MLP,4XLP	#Containers: 6	1.5	40.5	100	10A Scr:	1312 Alpha: 5.73E-05 uCi/Sa	9/15/07 R Beta: 8.60E-05 uCi/Sa	
2 J37V8-1-AF-X J7H030356-3-DUP 08/02/2007 13:44		116.60g,in AmtRec: 20ML,500MLP,4XLP	#Containers: 6		37.2		10B Scr:	Alpha: 5.73E-05 uCi/Sa	Beta: 8.60E-05 uCi/Sa	
3 J4VA4-1-AA-B J7H140000-490-BLK 08/02/2007 13:44		200.70g,in AmtRec:	#Containers: 1		0.1		10C Scr:	Alpha:	Beta:	
4 J4VA4-1-AC-C J7H140000-490-LCS 08/02/2007 13:44		201.10g,in AmtRec:	ASD4272 07/23/07,pd 06/01/01,r #Containers: 1		0.5		10d Scr:	Alpha:	Beta:	

Comments: pH < 2.0; 1 L qwts, Reduced due to weight screen RC 07/14/07

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

J37V81AA-SAMP Constituent List:

ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
J4VA41AA-BLK:					
ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
J4VA41AC-LCS:					
Am-241	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

J37V81AA-SAMP Calc Info:

TAL RICHLAND

9/14/2007 9:48:40 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: ,ClarkR

AnalyDueDate: 09/17/2007

Batch: 7226490 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:

```
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J4VA41AA-BLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J4VA41AC-LCS:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

9/14/2007 9:38:45 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: 746

AnalyDueDate: 09/17/2007 WO 5216

Sep1 DT/Tm Tech:

Batch: 7226491 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch. Test: None

Prep Tech: ,ClarkR / APA

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J37T6-1-AA J7H030352-1-SAMP 08/02/2007 10:36		200.10g,in AmtRec: 20ML,4XLP	#Containers: 5	1.5	51.8	100	26a Scr:	1307 Alpha: 1.50E-03 uCi/Sa	9/13/07x Beta: 5.44E-05 uCi/Sa	
2 J37T6-1-AD-X J7H030352-1-DUP 08/02/2007 10:36		201.00g,in AmtRec: 20ML,4XLP	#Containers: 5		50.3		26b Scr:	Alpha: 1.50E-03 uCi/Sa	Beta: 5.44E-05 uCi/Sa	
3 J37T8-1-AA J7H030352-2-SAMP 08/02/2007 12:16		201.90g,in AmtRec: 20ML,4XLP	#Containers: 5		67.1		26c Scr:	Alpha: 3.11E-04 uCi/Sa	Beta: -3.38E-04 uCi/Sa	
4 J37VN-1-AA J7H030354-1-SAMP 08/02/2007 08:50		200.40g,in AmtRec: 20ML,LP	#Containers: 2		33.8		26d Scr:	Alpha: -8.96E-05 uCi/Sa	Beta: 2.05E-04 uCi/Sa	
5 J37VR-1-AA J7H030354-2-SAMP 08/02/2007 09:23		200.80g,in AmtRec: 20ML,LP	#Containers: 2		66.0		27a Scr:	Alpha: 8.62E-05 uCi/Sa	Beta: 2.18E-04 uCi/Sa	
6 J37V8-1-AC J7H030356-3-SAMP 08/02/2007 13:44		131.30g,in AmtRec: 20ML,500MLP,4XLP	#Containers: 6		97.8		27d Scr:	Alpha: 5.73E-05 uCi/Sa	Beta: 6.60E-05 uCi/Sa	
7 J4VA5-1-AA-B J7H140000-491-BLK 08/02/2007 10:36		200.60g,in AmtRec:	#Containers: 1		Ø		28A 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

TAL RICHLAND

127

TAL RICHLAND

9/14/2007 9:38:47 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: ,ClarkR

AnalyDueDate: 09/17/2007

Batch: 7226491 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 J4VA5-1-AC-C J7H140000-491-LCS 08/02/2007 10:36		200.40g,in	BES83116 07/23/07,pd 10/11/06,r	1.5	0.4	100	28c	1307	9/15/07 n	

AmtRec: #Containers: 1 Scr: Alpha: Beta:

Comments: pH < 2.0; Aliquots Reduced due to weight screen RC 09/14/07

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

J37T61AA-SAMP Constituent List:

BETA	RDL:4.00E+00	pCi/L	LCL:	UCL:	RPD:
J4VA51AA-BLK:					
BETA	RDL:4.00E+00	pCi/L	LCL:	UCL:	RPD:
J4VA51AC-LCS:					
Sr-90	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

J37T61AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J4VA51AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J4VA51AC-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 2:58:57 PM

Sample Preparation/Analysis

Balance Id:1120482733,1120482733,1120

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 09/14/2007

Sep1 DT/Tm Tech: 09/05/2007 17:52,ManisD

Batch: 7226493 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech: 09/14/2007 07:51,ManisD

SEQ Batch, Test: None

Prep Tech: ManisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J3XQH-1-AH J7G310266-1-SAMP		1007.60g,in	SRTB15152 08/15/07,pd 05/22/07,r		1.0	23.4	100	2a 2a	1038 0956	9/15/07 K 9/16/07 K	
						~~09/05/2007 17:52;s1; 09/14/2007~~					
07/31/2007 10:01		AmtRec: 20ML,500MLP,9XLP,3X4LP	#Containers: 14					Scr:	Alpha: 8.51E-04 uCi/Sa	Beta: 5.77E-03 uCi/Sa	
2 J3X6L-1-AE J7G310310-1-SAMP		991.50g,in	SRTB15153 08/15/07,pd 05/22/07,r		1.0	21.6	100	2b 2b	1038 0956	9/15/07 K 9/16/07 K	
						~~09/05/2007 17:52;s1; 09/14/2007~~					
07/31/2007 14:12		AmtRec: 20ML,500ML,4XLP,3X4LP	#Containers: 9					Scr:	Alpha: 1.62E-03 uCi/Sa	Beta: 6.59E-04 uCi/Sa	
3 J37T6-1-AC J7H030352-1-SAMP		1002.10g,in	SRTB15154 08/15/07,pd 05/22/07,r		1.0	24.1	100	2c 2c	1038 0956	9/15/07 K 9/16/07 K	
						~~09/05/2007 17:52;s1; 09/14/2007~~					
08/02/2007 10:36		AmtRec: 20ML,4XLP	#Containers: 5					Scr:	Alpha: 1.50E-03 uCi/Sa	Beta: 5.44E-05 uCi/Sa	
4 J37T8-1-AC J7H030352-2-SAMP		1000.80g,in	SRTB15155 08/15/07,pd 05/22/07,r		1.0	23.2	100	2d 2d	1038 0956	9/15/07 K 9/16/07 K	
						~~09/05/2007 17:52;s1; 09/14/2007~~					
08/02/2007 12:16		AmtRec: 20ML,4XLP	#Containers: 5					Scr:	Alpha: 3.11E-04 uCi/Sa	Beta: -3.38E-04 uCi/Sa	

TAL RICHLAND

9/14/2007 2:58:58 PM

Sample Preparation/Analysis

Balance Id:1120482733,1120482733,1120

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _ _ _

AnalyDueDate: 09/14/2007

Sep1 DT/Tm Tech: 09/05/2007 17:52,ManisD

Batch: 7226493 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech: 09/14/2007 07:51,ManisD

SEQ Batch, Test: None

Prep Tech: ,ManisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
5 J37T8-1-AD-X J7H030352-2-DUP		1000.70g,in	SRTB15156 08/15/07,pd 05/22/07,r		1.0	23.3	100	3A 3A	1038 0956	9/15/07 L 9/16/07 L	
						~~09/05/2007 17:52,s1, 09/14/2007~~					
08/02/2007 12:16		AmtRec: 20ML,4XLP		#Containers: 5				Scr:	Alpha: 3.11E-04 uCi/Sa		Beta: -3.38E-04 uCi/Sa
6 J4VA7-1-AA-B J7H140000-493-BLK		1001.00g,in	SRTB15157 08/15/07,pd 05/22/07,r		1.0	23.1	100	3b 3b	1038 0956	9/15/07 L 9/16/07 L	
						~~09/05/2007 17:52,s1, 09/14/2007~~					
08/02/2007 12:16		AmtRec:		#Containers: 1				Scr:	Alpha:		Beta:
7 J4VA7-1-AC-C J7H140000-493-LCS		1000.20g,in	SRSG1375 08/15/07,pd 05/22/07,r		1.0	23.6	100	3c 3c	1038 0956	9/15/07 L 9/16/07 L	
						~~09/05/2007 17:52,s1, 09/14/2007~~					
08/02/2007 12:16		AmtRec:		#Containers: 1				Scr:	Alpha:		Beta.

Comments:

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

J3XQH1AH-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

TAL RICHLAND

9/14/2007 2:58:59 PM

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:1120482733,1120482733,1120

Pipet #: _____

AnalyDueDate: 09/14/2007

Sep1 DT/Tm Tech: 09/05/2007 17:52,ManisD

Batch: 7226493 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech: 09/14/2007 07:51,ManisD

Prep Tech: ManisD

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

J4VA71AA-BLK:
Sr-85 RDL: pCi/L LCL:20 UCL:105 RPD:20 Sr-90 RDL:2 pCi/L LCL: UCL: RPD:

J4VA71AC-LCS:
Sr-85 RDL: pCi/L LCL:20 UCL:105 RPD:20 Sr-90 RDL:2 pCi/L LCL:70 UCL:130 RPD:20

J3XQH1AH-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J4VA71AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J4VA71AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TAL RICHLAND

9/12/2007 11:25:01 AM

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: 09/14/2007 W05Z16

Sep1 DT/Tm Tech:

Batch: 7226489 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7226484 FPS5, 7226488 BNTB, 7226489 AWTA, 7226493 CLTL, 7226496 KOXW, 7226506 9NS1, 7226509 8ISX, 7226510 6DSO, 7226513 5SS3,

Prep Tech: ManlsD,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 J3XQH-1-AE J7G310266-1-SAMP 07/31/2007 10:01	AmtRec: 20ML,500MLP,9XLP,3X4LP	2002.80g,in	#Containers: 14		100mL	200	64	0928	9/14/07	Scr: Alpha: 8.51E-04 uCi/Sa Beta: 5.77E-03 uCi/Sa
2 J3X6L-1-AA J7G310310-1-SAMP 07/31/2007 14:12	AmtRec: 20ML,500ML,4XLP,3X4LP	2000.70g,in	#Containers: 9				67	0929		Scr: Alpha: 1.62E-03 uCi/Sa Beta: 6.59E-04 uCi/Sa
3 J3X6L-1-AG-X J7G310310-1-DUP 07/31/2007 14:12	AmtRec: 20ML,500ML,4XLP,3X4LP	1967.30g,in	#Containers: 9				610	0929		Scr: Alpha: 1.62E-03 uCi/Sa Beta: 6.59E-04 uCi/Sa
4 J4EV6-1-AA J7H080199-1-SAMP 08/06/2007 13:40	AmtRec: 20ML,500ML,3XLP,3X4LP	2000.80g,in	#Containers: 8				614	0929		Scr: Alpha: 2.57E-03 uCi/Sa Beta: -1.40E-03 uCi/Sa
5 J4VA3-1-AA-B J7H140000-489-BLK 07/31/2007 14:12	AmtRec:	2001.30g,in	#Containers: 1				615	0929		Scr: Alpha: Beta:
6 J4VA3-1-AC-C J7H140000-489-LCS 07/31/2007 14.12	AmtRec.	2000.50g,in	QCAG1398 06/15/07,pd 03/07/05,r #Containers: 1				612	0930		Scr: Alpha: Beta:

STL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1 ISV - Insufficient Volume for Analysis WO Cnt: 6
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4.8.26

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9/12/2007 11:25:03 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #:

AnalyDueDate: 09/14/2007

Sep1 DT/Tm Tech:

Batch: 7226489 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, Ini/Date	Comments:

Comments: pH < 2.0 RC 09/12/07

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

J3XQH1AE-SAMP Constituent List:

Co-60	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
Cs-137	RDL:6.00E+00	pCi/L	LCL:70	UCL:130	RPD:20	Cs-137DA	RDL:6.00E+00	pCi/L	LCL:70	UCL:130	RPD:20
Eu-154	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Eu-155	RDL:.00E+00	pCi/L	LCL:	UCL:	RPD:
K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Sb-125	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:

J4VA31AA-BLK:

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

J4VA31AC-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						

J3XQH1AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

J4VA31AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

J4VA31AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TAL RICHLAND

8/14/2007 4:26:14 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 09/14/2007 W05216

Batch: 7226514 WATER pCi/L

PM, Quote: SA , 57671

SEQ Batch, Test: None

Balance Id: 12424
Pipet #:
Sep1 DT/Tm Tech: 9-7-07am
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 J37N1-1-AA J7H030334-2-SAMP 08/01/2007 12:03		AmtRec: 20ML,3XLP	#Containers: 4			Scr:	Alpha:	Beta:
2 J37N1-1-AC-X J7H030334-2-DUP 08/01/2007 12:03		AmtRec: 20ML,3XLP	#Containers: 4			Scr:	Alpha:	Beta:
3 J37N3-1-AA J7H030334-3-SAMP 08/01/2007 13:34		AmtRec: 20ML,3XLP	#Containers: 4			Scr:	Alpha:	Beta:
4 J37V8-1-AD J7H030356-3-SAMP 08/02/2007 13:44		AmtRec: 20ML,500MLP,4XLP	#Containers: 6			Scr:	Alpha:	Beta:
5 J4EV6-1-AE J7H080199-1-SAMP 08/06/2007 13:40		AmtRec: 20ML,500ML,3XLP,3X4LP	#Containers: 8			Scr:	Alpha:	Beta:
6 J4VFH-1-AA-B J7H140000-514-BLK 08/01/2007 12:03		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
7 J4VFH-1-AC-C J7H140000-514-LCS 08/01/2007 12:03		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

TAL RICHLAND

8/14/2007 4:26:15 PM

Sample Preparation/Analysis

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

Balance Id: 12424
Pipet #:
Sep1 DT/Tm Tech: 9-7-07 Dm
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 09/14/2007

Batch: 7226514 pCi/L
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 J4VFH-1-AD-BN								
J7H140000-514-IBLK								
08/01/2007 12:03	AmtRec:	#Containers. 1				Scr:	Alpha:	Beta:

Comments:

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

J37N11AA-SAMP Constituent List:
H-3 RDL:1.00E+01 pCi/L LCL:70 UCL:130 RPD:20
J4VFH1AA-BLK:
H-3 RDL:1.00E+01 pCi/L LCL: UCL: RPD:
J4VFH1AC-LCS:
H-3 RDL:10 pCi/L LCL:70 UCL:130 RPD:20
J4VFH1AD-IBLK:
H-3 RDL:1.00E+01 pCi/L LCL: UCL: RPD:

J37N11AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J4VFH1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J4VFH1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J4VFH1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TAL RICHLAND

TAL RICHLAND

9/4/2007 9:56:38 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _ _____ _____

AnalyDueDate: 09/14/2007 W05216

Sep1 DT/Tm Tech:

Batch: 7226484 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J3XQH-1-AJ J7G310266-1-SAMP 07/31/2007 10:01		AmtRec: 20ML,500MLP,9XLP,3X4LP	127.10g,in	127.10g #Containers: 14		60	Scr:	Alpha: 8.51E-04 uCi/Sa	Beta: 5.77E-03 uCi/Sa	
2 J3X6L-1-AF J7G310310-1-SAMP 07/31/2007 14:12		AmtRec. 20ML,500ML,4XLP,3X4LP	126.50g,in	126.50g #Containers: 9			Scr:	Alpha: 1.62E-03 uCi/Sa	Beta: 6.59E-04 uCi/Sa	
3 J3X6M-1-AA J7G310311-1-SAMP 07/31/2007 09:34		AmtRec: 20ML,500MLP	125.40g,in	125.40g #Containers: 2			Scr:	Alpha: -3.92E-05 uCi/Sa	Beta: -1.82E-05 uCi/Sa	
4 J3X6M-1-AC-X J7G310311-1-DUP 07/31/2007 09:34		AmtRec: 20ML,500MLP	126.60g,in	126.60g #Containers: 2			Scr:	Alpha: -3.92E-05 uCi/Sa	Beta: -1.82E-05 uCi/Sa	
5 J37NT-1-AA J7H030334-1-SAMP 08/01/2007 12:48		AmtRec: 20ML,2X500MLP	127.40g,in	127.40g #Containers: 3			Scr:	Alpha: 6.73E-05 uCi/Sa	Beta: 1.91E-05 uCi/Sa	
6 J37NT-1-AD-S J7H030334-1-MS 08/01/2007 12:48		AmtRec: 20ML,2X500MLP	126.10g,in	126.10g #Containers: 3	TCSG1880 08/22/07,pd 01/10/08,r		Scr:	Alpha: 6.73E-05 uCi/Sa	Beta: 1.91E-05 uCi/Sa	
7 J4EV6-1-AD J7H080199-1-SAMP 08/06/2007 13:40		AmtRec: 20ML,500ML,3XLP,3X4LP	125.90g,in	125.90g #Containers: 8			Scr:	Alpha: 2.57E-03 uCi/Sa	Beta: -1.40E-03 uCi/Sa	

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

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TAL RICHLAND

9/4/2007 9:56:40 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 09/14/2007

Sep1 DT/Tm Tech:

Batch: 7226484 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 J4E4H-1-AC J7H080210-1-SAMP 08/06/2007 13:05			126.80g,in	126.80g		60				
	AmtRec: 20ML,2X500ML,2X4LP		#Containers: 5					Scr:	Alpha: -7.50E-04 uCi/Sa	Beta: 3.68E-04 uCi/Sa
9 J4VAT-1-AA-B J7H140000-484-BLK 07/31/2007 09:34			126.10g,in	126.10g						
	AmtRec:		#Containers: 1					Scr:	Alpha:	Beta:
10 J4VAT-1-AC-C J7H140000-484-LCS 07/31/2007 09:34			125.60g,in	125.60g	TCSE2152 07/17/07,pd 01/10/06,r					
	AmtRec:		#Containers: 1					Scr:	Alpha:	Beta:
11 J4VAT-1-AD-BN J7H140000-484-IBLK 07/31/2007 09:34										
	AmtRec:		#Containers: 1					Scr:	Alpha:	Beta:

Comments: pH < 2.0 RC 09/04/07

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

J3XQH1AJ-SAMP Constituent List:
  Tc-99        RDL:15          pCi/L     LCL:70      UCL:130     RPD:20
J37NT1AD-MS:

J4VAT1AA-BLK:
  Tc-99        RDL:15          pCi/L     LCL:        UCL:        RPD:
J4VAT1AC-LCS:
  Tc-99        RDL:15          pCi/L     LCL:70      UCL:130     RPD:20
```

9/4/2007 9:56:41 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 09/14/2007

Batch: 7226484 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:

```
J4VAT1AD-IBLK:
 Tc-99        RDL:15          pCi/L     LCL:        UCL:        RPD:
J3XQH1AJ-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J37NT1AD-MS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J4VAT1AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J4VAT1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J4VAT1AD-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

8/14/2007 4:26:13 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 09/14/2007 W05216

Batch: 7226513 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 9-11-07 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:
1 J3XQH-1-AD J7G310266-1-SAMP 07/31/2007 10:01		AmtRec: 20ML,500MLP,9XLP,3X4LP	#Containers: 14			Scr:	Alpha: 8.51E-04 uCi/Sa	Beta: 5.77E-03 uCi/Sa
2 J3XQH-1-AP-X J7G310266-1-DUP 07/31/2007 10:01		AmtRec: 20ML,500MLP,9XLP,3X4LP	#Containers: 14			Scr:	Alpha: 8.51E-04 uCi/Sa	Beta: 5.77E-03 uCi/Sa
3 J4VFG-1-AA-B J7H140000-513-BLK 07/31/2007 10:01		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
4 J4VFG-1-AC-C J7H140000-513-LCS 07/31/2007 10:01		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
5 J4VFG-1-AD-BN J7H140000-513-IBLK 07/31/2007 10:01		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

J3XQH1AD-SAMP Constituent List:
C-14 RDL:2.00E+02 pCi/L LCL:70 UCL:130 RPD:20

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

8/14/2007 4:26:14 PM

Sample Preparation/Analysis

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

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 9-11-07 am
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 09/14/2007

Batch: 7226513 pCi/L
SEQ Batch, Test: None

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

```
J4VFG1AA-BLK:
  C-14        RDL:2.00E+02   pCi/L   LCL:      UCL:      RPD:
J4VFG1AC-LCS:
  C-14        RDL:200        pCi/L   LCL:70    UCL:130   RPD:20
J4VFG1AD-IBLK:
  C-14        RDL:2.00E+02   pCi/L   LCL:      UCL:      RPD:
J3XQH1AD-SAMP Calc Info:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
J4VFG1AA-BLK:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
J4VFG1AC-LCS:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
J4VFG1AD-IBLK:
     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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TAL RICHLAND

9/11/2007 1:16:37 PM

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: 09/14/2007

Sep1 DT/Tm Tech:

Batch: 7226480 WATER ug/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,ClarkR/Rock J.

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 J37NT-1-AC J7H030334-1-SAMP 08/01/2007 12:48		27.20g,in AmtRec: 20ML,2X500MLP	#Containers: 3			Scr:	Alpha: 6.73E-05 uCi/Sa	Beta: 1.91E-05 uCi/Sa
2 J37V5-1-AA J7H030356-1-SAMP 08/02/2007 11:33		26.60g,in AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: -1.88E-05 uCi/Sa	Beta: 3.13E-05 uCi/Sa
3 J37V7-1-AA J7H030356-2-SAMP 08/02/2007 10:00		27.50g,in AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: 1.21E-04 uCi/Sa	Beta: -9.95E-05 uCi/Sa
4 J37V8-1-AE J7H030356-3-SAMP 08/02/2007 13:44		27.70g,in AmtRec: 20ML,500MLP,4XLP	#Containers: 6			Scr:	Alpha: 5.73E-05 uCi/Sa	Beta: 8.60E-05 uCi/Sa
5 J4DR4-1-AA J7H070376-1-SAMP 08/03/2007 10:39		25.70g,in AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: 8.71E-05 uCi/Sa	Beta: -1.37E-06 uCi/Sa
6 J4DR4-1-AC-X J7H070376-1-DUP 08/03/2007 10:39		26.30g,in AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: 8.71E-05 uCi/Sa	Beta: -1.37E-06 uCi/Sa
7 J4DR6-1-AA J7H070376-2-SAMP 08/03/2007 11:40		25.10g,in AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: -1.46E-05 uCi/Sa	Beta: 7.51E-05 uCi/Sa

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TAL RICHLAND

9/11/2007 1:16:39 PM

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: 09/14/2007

Sep1 DT/Tm Tech:

Batch: 7226480 WATER ug/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,ClarkR

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 J4DR6-1-AC-S J7H070376-2-MS 08/03/2007 11:40		26.70g,in AmtRec: 20ML,500MLP	UNSF3945 09/06/07,pd 01/23/07,r #Containers: 2			Scr:	Alpha: -1.46E-05 uCi/Sa	Beta: 7.51E-05 uCi/Sa
9 J4DTA-1-AA J7H070376-3-SAMP 08/03/2007 13:11		26.10g,in AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: 4.80E-06 uCi/Sa	Beta: -6.82E-06 uCi/Sa
10 J4DTC-1-AA J7H070376-4-SAMP 08/03/2007 13:51		25.00g,in AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: -4.37E-05 uCi/Sa	Beta: 1.13E-04 uCi/Sa
11 J4E4H-1-AD J7H080210-1-SAMP 08/06/2007 13:05		25.10g,in AmtRec: 20ML,2X500ML,2X4LP	#Containers: 5			Scr:	Alpha: -7.50E-04 uCi/Sa	Beta: 3.68E-04 uCi/Sa
12 J4VAF-1-AA-B J7H140000-480-BLK 08/03/2007 10:39		27.60g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
13 J4VAF-1-AC-C J7H140000-480-LCS 08/03/2007 10:39		25.50g,in AmtRec:	UNSF3946 09/06/07,pd 01/23/07,r #Containers: 1			Scr:	Alpha:	Beta:
14 J4VAF-1-AD-C J7H140000-480-LCS 08/03/2007 10:39		25.20g,in AmtRec:	UNSC1899 09/06/07,pd 04/28/08,r #Containers: 1			Scr:	Alpha:	Beta:

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

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

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TAL RICHLAND

9/11/2007 1:16:40 PM

Sample Preparation/Analysis

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

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

AnalyDueDate: 09/14/2007

Batch: 7226480 ug/L
SEQ Batch, Test: None

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

Comments: pH < 2.0 RC 09/11/07

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

J37NT1AC-SAMP Constituent List:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
J4DR61AC-MS:

J4VAF1AA-BLK:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
J4VAF1AC-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20
J4VAF1AD-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20

J37NT1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J4DR61AC-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J4VAF1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J4VAF1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J4VAF1AD-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

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9/12/2007 3:35:11 PM

ICOC Fraction Transfer/Status Report

ByDate: 9/12/2006, 9/17/2007, Batch: '7226509', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7226509						
AC		CalcC	BockJ	9/4/2007 8:57:42 AM		
SC			Wagarr	IsBatched	8/14/2007 4:28:51 PM	ICOC_RADCALC v4 8.26
SC			BockJ	InPrep	9/4/2007 8:57:42 AM	RICH-RC-5016 Revision 7
SC			ClarkR	Prep1C	9/4/2007 9:09:15 AM	RICH-RC-5016 REVISION 7
SC			DobeckiT	Prep2C	9/5/2007 10:58:44 AM	RICH-RC-5086 REV3
SC			DobeckiT	Sep1C	9/6/2007 3:38:42 PM	RICH-RC-5072 REV6
SC			FABREM	Sep2C	9/10/2007 11:15:18 AM	RICH-RC-5003 REVISION 7
SC			BlackCL	InCnt1	9/10/2007 11:51:05 AM	RICH-RD-0008 REVISION 4
SC			DAWKINSO	CalcC	9/10/2007 9:54:35 PM	RICH-RD-0008 REVISION 4
AC			ClarkR	9/4/2007 9:09:15 AM		
AC			DobeckiT	9/5/2007 10:58:44		
AC			DobeckiT	9/6/2007 3:38:42 PM		
AC			DobeckiT	9/7/2007 7:51:18 AM		
AC			FABREM	9/10/2007 11:15:18		
AC			BlackCL	9/10/2007 11:51:05		
AC			DAWKINSO	9/10/2007 9:54:35 PM		

AC Accepting Entry SC Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 8

ICOCFractions v4.8 27

9/7/2007 2:29:12 PM

ICOC Fraction Transfer/Status Report

ByDate: 9/7/2006, 9/12/2007, Batch: '7226496', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7226496						
AC		CalcC	BockJ	9/4/2007 9:11:07 AM		
SC			Wagarr	IsBatched	8/14/2007 4:28:51 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	9/4/2007 9:11:07 AM	RICH-RC-5016 Revision 7
SC			ClarkR	Prep1C	9/4/2007 9:20:18 AM	RICH-RC-5016 REVISION 7
SC			FABREM	Sep1C	9/5/2007 4:05:15 PM	RICH-RC-5064 REVISION 5
SC			FABREM	Sep2C	9/5/2007 6:06:19 PM	RICH-RC-5003 REVISION 7
SC			DAWKINSO	InCnt1	9/5/2007 7:26:28 PM	RICH-RD-0008 REVISION 4
SC			DAWKINSO	CalcC	9/6/2007 10:58:59 PM	RICH-RD-0008 REVISION 4
AC			ClarkR	9/4/2007 9:20:18 AM		
AC			FABREM	9/5/2007 4:05:15 PM		
AC			FABREM	9/5/2007 6:06:19 PM		
AC			DAWKINSO	9/5/2007 7:26:28 PM		
AC			DAWKINSO	9/6/2007 10:58:59 PM		

AC: Accepting Entry, SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.27

9/7/2007 10:41:17 AM

ICOC Fraction Transfer/Status Report

ByDate: 9/7/2006, 9/12/2007, Batch: '7226510', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7226510						
AC		CalcC	BockJ	9/4/2007 8:42:52 AM		
SC			Wagarr	IsBatched	8/14/2007 4:28:51 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	9/4/2007 8:42:52 AM	RICH-RC-5016 Revision 7
SC			ClarkR	Prep1C	9/4/2007 8:55:13 AM	RICH-RC-5016 REVISION 7
SC			FABREM	Sep1C	9/5/2007 3:15:00 PM	RICH-RC-5010 REVISION 5
SC			DobeckiT	Sep2C	9/6/2007 3:36:35 PM	RICH-RC-5039 REV5
SC			DAWKINSO	InCnt1	9/6/2007 4:22:17 PM	RICH-RD-0008 REVISION 4
SC			DAWKINSO	CalcC	9/6/2007 9:53:02 PM	RICH-RD-0008 REVISION 4
AC			ClarkR	9/4/2007 8:55:13 AM		
AC			FABREM	9/5/2007 3:15:00 PM		
AC			DobeckiT	9/6/2007 3:36:35 PM		
AC			DAWKINSO	9/6/2007 4:22:17 PM		
AC			DAWKINSO	9/6/2007 9:53:02 PM		

AC: Accepting Entry; SC: Status Change

9/13/2007 1:45:00 PM

ICOC Fraction Transfer/Status Report

ByDate: 9/13/2006, 9/18/2007, Batch: '7226506', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7226506						
AC		CalcC	BockJ	9/4/2007 9:23:06 AM		
SC			Wagarr	IsBatched	8/14/2007 4:28:51 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	9/4/2007 9:23:06 AM	RICH-RC-5016 Revision 7
SC			ClarkR	Prep1C	9/4/2007 9:30:37 AM	RICH-RC-5016 REVISION 7
SC			DobeckIT	Sep1C	9/5/2007 4:33:17 PM	RICH-RC-5087 REV1
SC			FABREM	Sep2C	9/6/2007 5:04:29 PM	RICH-RC-5003 REVISION 7
SC			DAWKINSO	InCnt1	9/6/2007 7:25:31 PM	RICH-RD-0008 REVISION 4
SC			DAWKINSO	CalcC	9/7/2007 7:04:19 PM	RICH-RD-0008 REVISION 4
SC			DAWKINSO	CalcC	9/7/2007 9:57:21 PM	RICH-RD-0008 REVISION 4
AC			ClarkR	9/4/2007 9:30:37 AM		
AC			DobeckIT	9/5/2007 4:33:17 PM		
AC			FABREM	9/6/2007 5:04:29 PM		
AC			DAWKINSO	9/6/2007 7:25:31 PM		
AC			DAWKINSO	9/7/2007 7:04:19 PM		
AC			DAWKINSO	9/7/2007 9:57:21 PM		

AC: Accepting Entry, SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.27

9/17/2007 3:28:58 PM

ICOC Fraction Transfer/Status Report

ByDate: 9/17/2006, 9/22/2007, Batch: '7226490', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7226490						
AC		CalcC	ClarkR	9/14/2007 9:44:27		
SC			Wagarr	IsBatched	8/14/2007 4:28:51 PM	ICOC_RADCALC v4.8.26
SC			ClarkR	InPrep	9/14/2007 9.44:27 AM	RICH-RC-5017 Revision 6
SC			ClarkR	Prep1C	9/14/2007 9:48:44 AM	RICH-RC-5014 REVISION 7
SC			BockJ	InPrep2	9/14/2007 11:08:00 AM	RICH-RC-5014 REVISION 7
SC			AshworthA	Prep2C	9/15/2007 11:12:07 AM	RICH-RC-5014 REVISION 7
SC			BockJ	Prep2C	9/15/2007 11:12:35 AM	RICH-RC-5014 REVISION 7
SC			StringerR	InCnt1	9/15/2007 11:18:41 AM	RICH-RD-0003 REVISION 5
SC			StringerR	CalcC	9/15/2007 2:14:52 PM	RICH-RD-0003 REVISION 5
AC			ClarkR	9/14/2007 9:48:44		
AC			BockJ	9/14/2007 11:08:00		
AC			AshworthA	9/15/2007 11:12:07		
AC			BockJ	9/15/2007 11:12:35		
AC			StringerR	9/15/2007 11:18:41		
AC			StringerR	9/15/2007 2:14:52 PM		

AC: Accepting Entry, SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.27

9/17/2007 9:41:13 AM

ICOC Fraction Transfer/Status Report

ByDate: 9/17/2006, 9/22/2007, Batch: '7226491', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7226491						
AC		CalcC	ClarkR	9/14/2007 9:28:12		
SC			Wagarr	IsBatched	8/14/2007 4:28:51 PM	ICOC_RADCALC v4.8.26
SC			ClarkR	InPrep	9/14/2007 9:28:12 AM	RICH-RC-5017 Revision 6
SC			ClarkR	Prep1C	9/14/2007 9:38:50 AM	RICH-RC-5014 REVISION 7
SC			BockJ	InPrep2	9/14/2007 11:07:35 AM	RICH-RC-5014 REVISION 7
SC			AshworthA	Prep2C	9/15/2007 11:12:18 AM	RICH-RC-5014 REVISION 7
SC			BockJ	Prep2C	9/15/2007 11:12:46 AM	RICH-RC-5014 REVISION 7
SC			StringerR	InCnt1	9/15/2007 11:18:50 AM	RICH-RD-0003 REVISION 5
SC			StringerR	CalcC	9/15/2007 2:14:27 PM	RICH-RD-0003 REVISION 5
AC			ClarkR	9/14/2007 9:38:50		
AC			BockJ	9/14/2007 11:07:35		
AC			AshworthA	9/15/2007 11:12:18		
AC			BockJ	9/15/2007 11:12:46		
AC			StringerR	9/15/2007 11:18:50		
AC			StringerR	9/15/2007 2:14:27 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.27

9/17/2007 1:34:35 PM

ICOC Fraction Transfer/Status Report

ByDate: 9/17/2006, 9/22/2007, Batch: '7226493', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7226493						
AC		CalcC	BockJ	8/31/2007 9:09:55		
SC			Wagarr	IsBatched	8/14/2007 4:28:51 PM	ICOC_RADCALC v4 8.26
SC			BockJ	InPrep	8/31/2007 9:09:55 AM	RICH-RC-5016 Revision 7
SC			BockJ	Prep1C	8/31/2007 9:26:34 AM	RICH-RC-5016 REVISION 7
SC			ManisD	InSep1	9/4/2007 10:25:06 AM	RICH-RC-5006 REVISION 7
SC			ManisD	Sep1C	9/5/2007 5:59:24 PM	RICH-RC-5006 REVISION 7
SC			DAWKINSO	InCnt1	9/5/2007 6:25:01 PM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	Cnt1C	9/5/2007 10:22:24 PM	RICH-RD-0007 REVISION 6
SC			ManisD	Sep2C	9/14/2007 3:00:18 PM	RICH-RC-5071 REV 5
SC			StringerR	InCnt1	9/14/2007 3:05:46 PM	RICH-RD-0003 REVISION 5
SC			BlackCL	CalcC	9/17/2007 7:06:09 AM	RICH-RD-0003 REVISION 5
AC			BockJ	8/31/2007 9:26:34		
AC			ManisD	9/4/2007 10:25:06		
AC			ManisD	9/5/2007 5:59:24 PM		
AC			DAWKINSO	9/5/2007 6:25:01 PM		
AC			DAWKINSO	9/5/2007 10:22:24 PM		
AC			ManisD	9/14/2007 3:00:18 PM		
AC			StringerR	9/14/2007 3:05:46 PM		
AC			BlackCL	9/17/2007 7:06:09		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 9

ICOCFractions v4.8.27

9/14/2007 11:25:34 AM

ICOC Fraction Transfer/Status Report

ByDate: 9/14/2006, 9/19/2007, Batch: '7226489', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7226489						
AC		CalcC	ClarkR	9/12/2007 11:08:38		
SC			Wagarr	IsBatched	8/14/2007 4:28:51 PM	ICOC_RADCALC v4.8.26
SC			ClarkR	InPrep	9/12/2007 11:08:38 AM	rich-rc-5017 rEVISION 6
SC			ClarkR	Prep1C	9/12/2007 11:25:18 AM	RICH-RC-5017 REVISION 6
SC			BockJ	InPrep2	9/12/2007 12.40:19 PM	RICH-RC-5017 REVISION 6
SC			BockJ	Prep2C	9/13/2007 2:32:49 PM	RICH-RC-5017 REVISION 6
SC			AshworthA	Prep2C	9/13/2007 2:33:04 PM	RICH-RC-5017 REVISION 6
SC			StringerR	InCnt1	9/13/2007 2:35:06 PM	RICH-RD-0007 REVISION 6
SC			StringerR	CalcC	9/14/2007 9:56:10 AM	RICH-RD-0007 REVISION 6
AC			ClarkR	9/12/2007 11:25:18		
AC			BockJ	9/12/2007 12:40:19		
AC			BockJ	9/13/2007 2:32:49 PM		
AC			AshworthA	9/13/2007 2:33:04 PM		
AC			StringerR	9/13/2007 2:35:06 PM		
AC			StringerR	9/14/2007 9:56:10		

AC: Accepting Entry; SC: Status Change

9/26/2007 3:49:07 PM

ICOC Fraction Transfer/Status Report

ByDate: 9/26/2006, 10/1/2007, Batch: '7226514', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7226514						
AC		CalcC	McDowellD	8/29/2007 12:54:35		
SC			Wagarr	IsBatched	8/14/2007 4:28:51 PM	ICOC_RADCALC v4.8.26
SC			McDowellD	InSep1	8/29/2007 12:54:35 PM	RICH-RC-5024 REVISION 2
SC			McDowellD	Sep1C	9/25/2007 2:15:09 PM	RICH-RC-5024 REVISION 2
SC			BlackCL	InCnt1	9/25/2007 2:19:12 PM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	9/26/2007 10:21:24 AM	RICH-RD-0001 REVISION 4
AC			McDowellD	9/7/2007 8:24:42 AM		
AC			McDowellD	9/25/2007 2:15:09 PM		
AC			BlackCL	9/25/2007 2:19:12 PM		
AC			BlackCL	9/26/2007 10:21:24		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.27

9/10/2007 10:39:39 AM

ICOC Fraction Transfer/Status Report

ByDate: 9/10/2006, 9/15/2007, Batch: '7226484', User: "ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7226484						
AC		CalcC	BockJ	9/4/2007 9:41:50 AM		
SC			Wagarr	IsBatched	8/14/2007 4:28:51 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	9/4/2007 9:41:50 AM	RICH-RC-5016 Revision 7
SC			FABREM	Sep1C	9/4/2007 3:17:28 PM	RICH-RC-5065 REVISION 6
SC			DAWKINSO	InCnt1	9/4/2007 3:50:33 PM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	9/5/2007 10:01:22 AM	RICH-RD-0001 REVISION 4
AC			FABREM	9/4/2007 3:17:28 PM		
AC			DAWKINSO	9/4/2007 3:50:33 PM		rEVISION 4
AC			BlackCL	9/5/2007 10:01:22		

AC: Accepting Entry, SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4 8.27

9/19/2007 4:28:27 PM

ICOC Fraction Transfer/Status Report

ByDate: 9/19/2006, 9/24/2007, Batch: '7226513', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7226513						
AC		CalcC	McDowellD	9/11/2007 1:09:15 PM		
SC			Wagarr	IsBatched	8/14/2007 4:28:51 PM	ICOC_RADCALC v4.8.26
SC			McDowellD	InSep1	9/11/2007 1:09:15 PM	RICH-RC-5037 REVISION 3
SC			McDowellD	Sep1C	9/11/2007 3:32:27 PM	RICH-RC-5037 REVISION 3
SC			DAWKINSO	InCnt1	9/11/2007 3:58:17 PM	RICH-RD-0001 REVISION 4
SC			DAWKINSO	InCnt1	9/18/2007 4:32:00 PM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	9/19/2007 7:43:43 AM	RICH-RD-0001 REVISION 4
AC			McDowellD	9/11/2007 3:32:27 PM		
AC			DAWKINSO	9/11/2007 3:58:17 PM		
AC			McDowellD	9/18/2007 3:56:05 PM		
AC			DAWKINSO	9/19/2007 4:32:00 PM		
AC			BlackCL	9/19/2007 7:43:43		

AC: Accepting Entry. SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4 8 27

9/17/2007 1:31:16 PM

ICOC Fraction Transfer/Status Report

ByDate: 9/17/2006, 9/22/2007, Batch: '7226480', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7226480						
AC		Cnt1C	ClarkR	9/11/2007 12:58:45		
SC			Wagarr	isBatched	8/14/2007 4:28:51 PM	ICOC_RADCALC v4.8.26
SC			ClarkR	InPrep	9/11/2007 12:58:45 PM	RICH-RC-5015 Revision 6
SC			ClarkR	Prep1C	9/11/2007 1:15:09 PM	RICH-RC-5015 REVISION 6
SC			BockJ	InPrep2	9/12/2007 12:11:59 PM	RICH-RC-5015 REVISION 6
SC			AshworthA	InPrep2	9/12/2007 12:12:28 PM	RICH-RC-5015 REVISION 6
SC			BockJ	Prep2C	9/14/2007 8:09:39 AM	RICH-RC-5015 REVISION 6
SC			AshworthA	Prep2C	9/14/2007 8:10:08 AM	RICH-RC-5015 REVISION 6
SC			NelsonT	Cnt1C	9/14/2007 10:13:49 AM	RICH-RC-5058 REV 7
AC			ClarkR	9/11/2007 1:15:09 PM		
AC			BockJ	9/12/2007 12:11:59		Revision 6
AC			BockJ	9/12/2007 12:12:08		
AC			AshworthA	9/12/2007 12:12:28		
AC			BockJ	9/14/2007 8:09:39		
AC			AshworthA	9/14/2007 8:10:08		
AC			NelsonT	9/14/2007 10:13:49		

AC Accepting Entry; *SC* Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 8

ICOCFractions v4.8 27