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 167 Pages

Report Nbr: 36622

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05197	S07-006	B1NWX5	J7F290306-1	J14HX1AD	9J14HX10	7191489
		B1NWX5	J7F290306-1	J14HX3AA	9J14HX30	7191504
		B1NKC3	J7F290306-2	J14H61AA	9J14H610	7191501
		B1NKC3	J7F290306-2	J14H61AC	9J14H610	7191487
		B1NKC3	J7F290306-2	J14H61AD	9J14H610	7191503
		B1NKC3	J7F290306-2	J14H61AE	9J14H610	7191486
		B1NKC3	J7F290306-2	J14H61AF	9J14H610	7191506
		B1NLD2	J7F290306-3	J14JN1AA	9J14JN10	7191486
		B1NKC4	J7F290306-4	J14J71AA	9J14J710	7191501
		B1NKC4	J7F290306-4	J14J71AC	9J14J710	7191487
		B1NKC4	J7F290306-4	J14J71AD	9J14J710	7191503
		B1NKC4	J7F290306-4	J14J71AF	9J14J710	7191506
		B1NKC4	J7F290306-4	J14J73AE	9J14J730	7228469
		B1NLD3	J7F290306-5	J14KD1AA	9J14KD10	7191486
		B1NL35	J7F290452-1	J15H21AA	9J15H210	7191507

Comments:

SEP 2007
RECEIVED

Report Nbr: 36622

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05197	S07-006	B1NL35	J7F290452-1	J15H21AC	9J15H210	7191508
		B1NL35	J7F290452-1	J15H21AD	9J15H210	7191502
		B1NL70	J7F290452-2	J15H51AA	9J15H510	7191510
		B1NL70	J7F290452-2	J15H51AC	9J15H510	7191507
		B1NL70	J7F290452-2	J15H51AD	9J15H510	7191508
		B1NL70	J7F290452-2	J15H51AE	9J15H510	7191502
		B1NL63	J7F290452-3	J15H81AA	9J15H810	7191510
		B1NL63	J7F290452-3	J15H81AC	9J15H810	7191507
		B1NL63	J7F290452-3	J15H81AD	9J15H810	7191508
		B1NL63	J7F290452-3	J15H81AE	9J15H810	7191489
		B1NL63	J7F290452-3	J15H81AF	9J15H810	7191502
		B1NL62	J7F290452-4	J15JA1AA	9J15JA10	7191510
		B1NL62	J7F290452-4	J15JA1AC	9J15JA10	7191507
		B1NL62	J7F290452-4	J15JA1AD	9J15JA10	7191508
		B1NL62	J7F290452-4	J15JA1AE	9J15JA10	7191489
		B1NL62	J7F290452-4	J15JA1AF	9J15JA10	7191502
		B1NLC0	J7F290452-5	J15JC1AA	9J15JC10	7191513
	W07-006	B1NN70	J7G050222-1	J2DK21AA	9J2DK210	7191489
		B1NN75	J7G050222-2	J2DMJ1AA	9J2DMJ10	7191489
		B1NN04	J7G050222-3	J2DMK1AA	9J2DMK10	7191489
	S07-006	B1NLC4	J7G050229-1	J2DMM1AA	9J2DMM10	7191506
		B1NLC4	J7G050229-1	J2DMM1AC	9J2DMM10	7191513
		B1NKH8	J7G050229-2	J2DMN1AA	9J2DMN10	7191503
		B1NKH8	J7G050229-2	J2DMN1AC	9J2DMN10	7191505
		B1NKH8	J7G050229-2	J2DMN1AD	9J2DMN10	7191489
		B1NK53	J7G050231-1	J2DM11AA	9J2DM110	7191513

Comments:

Report Nbr: 36622

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05197	S07-006	B1NK49	J7G050231-2	J2DNA1AA	9J2DNA10	7191513
		B1NK57	J7G050231-3	J2DND1AA	9J2DND10	7191513
	I07-050	B1NK14	J7G050238-1	J2DN11AA	9J2DN110	7191505
		B1NK13	J7G050238-2	J2DN31AA	9J2DN310	7191505

Comments:

Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

September 7, 2007

Attention: Steve Trent

SEVERN TRENT STL

STL Richland
2800 George Washington Way
Richland, WA 99354

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

SAF Number	:	S07-006, W07-006, I07-050
Date SDG Closed	:	July 2, 2007
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05197
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between June 28, 2007 and July 02, 2007 twenty water samples were received at STL Richland (STLR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Fluor Hanford specific IDs:

PGW ID#	STLR ID#	DATE OF RECEIPT	MATRIX
B1NWX5	J14HX	6/28/07	WATER
B1NKC3	J14H6	6/28/07	WATER
B1NLD2	J14JN	6/28/07	WATER
B1NKC4	J14J7	6/28/07	WATER
B1NLD3	J14KD	6/28/07	WATER
B1NL35	J15H2	6/29/07	WATER
B1NL70	J15H5	6/29/07	WATER
B1NL63	J15H8	6/29/07	WATER
B1NL62	J15JA	6/29/07	WATER
B1NLC0	J15JC	6/29/07	WATER
B1NN70	J2DK21	7/02/07	WATER
B1NN75	J2DMJ	7/02/07	WATER
B1NN04	J2DMK	7/02/07	WATER
B1NLC4	J2DMM	7/02/07	WATER
B1NKH8	J2DMN	7/02/07	WATER
B1NK53	J2DM1	7/02/07	WATER
B1NK49	J2DNA	7/02/07	WATER
B1NK57	J2DND	7/02/07	WATER
B1NK14	J2DN1	7/02/07	WATER
B1NK13	J2DN3	7/02/07	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
Plutonium-238, -239/240 by method RICH-RC-5010
Americium 241 by method RICH-RC-5072
Neptunium-237 by method RICH-RC-5009
Gas Proportional Counting
Gross Alpha by method RICH-RC-5014
Gross Beta by method RICH-RC-5014
Strontium-90 by method RICH-RC-5006
Gamma Spectroscopy
Gamma Spec (LL) by method RICH-RC-5017
Gamma Spec 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
Tritium by method RICH-RC-5007
Laser Induced Phosphorimetry
Total Uranium by method RICH-RC-5058

IV. Quality Control

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

QC and sample results are reported in the same units.

V. Comments

Alpha Spectroscopy
Plutonium-238, -239/240 by method RICH-RC-5010:
BATCH 7191486:
Sample B1NKC4 failed due to a tracer recovery of 13%. The sample was recounted but did not bring the tracer recovery within acceptable limits. Sample B1NKC4 was reanalyzed in batch 7228468. Except as noted, the LCS, batch blank, sample and sample duplicate (B1NKC3) results are within contractual requirements.

BATCH 7228468:
Reanalysis batch for sample B1NKC4. The LCS, batch blank, sample and sample duplicate (B1NKC4) results are within contractual requirements.

Americium 241 by method RICH-RC-5072:
The aliquot size for samples B1NKC3, B1NKC4 and B1NKC4 DUP was reduced due to high weight screens. Except as noted, the LCS, batch blank, sample and sample duplicate (B1NKC4) results are within contractual requirements.

Neptunium-237 by method RICH-RC-5009:
Sample B1NKC3 had a high tracer recovery of 120%. The sample was recounted and was acceptable. Except as noted, the LCS, batch blank, sample and sample duplicate (B1NKC3) results are within contractual requirements.

Gas Proportional Counting
Gross Alpha by method RICH-RC-5014:
Sample B1NL62 was analyzed with a reduced aliquot volume based on a elevated screen result. Except as noted, the LCS, batch blank, samples and sample duplicate (B1NL35) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:
Samples B1NL70, B1NL63, B1NL62 and B1NL70 DUP were analyzed with reduced aliquot volumes based on elevated screen results. Except as noted, the LCS, batch blank, samples and sample duplicate (B1NL70) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006
The LCS, batch blank, samples and sample duplicate (B1NLC4) results are within contractual requirements.
Gamma Spectroscopy
Gamma Spec (LL) by method RICH-RC-5017:
The Cs-137 MDC in sample B1NKC3 was slightly above the CRDL of 6 pCi/L at 6.08 pCi/L. However the Cs-137 result was 1,116 pCi/L. Sample B1NKH8 DUP was analyzed with a reduced volume due to insufficient sample volume. The Eu-152 keyline in the LCS (J2LA91CS) was detected but some of the supporting lines were not. Thus Eu-152 was listed as non-identified. The radiochemical yield of Eu-152 is 122.5%. Except as noted, the LCS, batch blank, samples and sample duplicate (B1NKH8) results are within contractual requirements.

Gamma Spec by method RICH-RC-5017:
The LCS performance in this batch indicated a high bias. After investigating, it was determined that the spike activity be increased along with the count time. The samples were brought up to 200 mLs and counted for 200 minutes. Data is accepted. Except as noted, the LCS, batch blank, samples and sample duplicate (B1NWX5) results are within contractual requirements.

Iodine-129 (LL) by method RICH-RC-5025:
Sample B1NWX5 is lost. The laboratory technician failed to record the aliquot weight on the first pour up. The sample had been traced however processing had already began before the error was caught. The sample was disposed of and a second aliquot was taken. This time the laboratory technician added a LCS vial instead of a tracer vial. There is no sample remaining for a third aliquot. The remaining acidified sample volumes from the gamma and Tc-99 bottles can not be used because the Iodine-129 is lost due to the acidification process. Except as noted, the LCS, batch blank, samples and sample duplicate (BLNK14) results are within contractual requirements.

Liquid Scintillation Counting
Technetium-99 by TEVA method RICH-RC-5065:
The LCS, batch blank, samples, sample duplicate (B1NN70), and sample matrix spike (B1NN75) results are within contractual requirements.

Tritium by method RICH-RC-5007:
The LCS, batch blank, samples and sample duplicate (B1NL70) results are within contractual requirements.

Enriched Tritium by method RICH-RC-5024
The LCS, batch blank, samples and sample duplicate (B1NK53) results are within contractual requirements.

Total Uranium
Total Uranium by method RICH-RC-5058:
The LCS, batch blank, samples, sample duplicate (B1NL35), and sample matrix spike (B1NL70) results are within contractual requirements.

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

Reviewed and approved:

Sherryl A. Adam
Project Manager

Drinking Water Method Cross References

	DRINKING WATER ASTM METHOD CROSS REFERENCES	
Referenced Method	**Isotope(s)**	**STL Richland's SOP number**
EPA 901.1	Cs-134, I-131	RICH-RC-5017
EPA 900.0	Alpha & Beta	RICH-RC-5014
EPA 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)/SCnt(Min) + 2.71/SCntMin) * (ConvFct/(Eff * Yld * Abn * Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the **Work Order** Number.
RER	The equation Replicate Error Ratio = (S-D)/[sqrt($TPUs^2$ + $TPUd^2$)] as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by STL Richland upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

9/7/2007 9:08:01 AM

TAL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 36622 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.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:
9J14H610	B1NKC3		MW6-SBB-A1	S07-006	W05197					06/28/2007 12:22

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7191487	AM-241	14596-10-2	4.43E-01	pCi/L	3.4E-01	3.4E-01		3.03E-01	93.9	AMCMISO_EIE_PL	1.303E-01	L	08/15/2007 13:52	I
7191503	BE-7	13966-02-4	-2.44E+01	pCi/L	8.2E+01	8.2E+01	U	1.39E+02		GAMMALL_GS	2.0005E+00	L	08/15/2007 05:36	I
7191503	CO-60	10198-40-0	2.28E+00	pCi/L	2.5E+00	2.5E+00	U	5.71E+00		GAMMALL_GS	2.0005E+00	L	08/15/2007 05:36	I
7191503	CS-134	13967-70-9	1.15E+00	pCi/L	2.7E+00	2.7E+00	U	5.32E+00		GAMMALL_GS	2.0005E+00	L	08/15/2007 05:36	I
7191503	CS-137	10045-97-3	1.12E+03	pCi/L	1.3E+02	1.3E+02		6.08E+00		GAMMALL_GS	2.0005E+00	L	08/15/2007 05:36	I
7191503	EU-152	14683-23-9	5.34E+00	pCi/L	1.4E+01	1.4E+01	U	2.36E+01		GAMMALL_GS	2.0005E+00	L	08/15/2007 05:36	I
7191503	EU-154	15585-10-1	2.77E-01	pCi/L	7.0E+00	7.0E+00	U	1.39E+01		GAMMALL_GS	2.0005E+00	L	08/15/2007 05:36	I
7191503	EU-155	14391-16-3	5.78E-01	pCi/L	1.1E+01	1.1E+01	U	1.96E+01		GAMMALL_GS	2.0005E+00	L	08/15/2007 05:36	I
7191503	K-40	13966-00-2	3.86E+00	pCi/L	6.1E+01	6.1E+01	U	1.38E+02		GAMMALL_GS	2.0005E+00	L	08/15/2007 05:36	I
7191503	RU-106	13967-48-1	3.09E+00	pCi/L	3.4E+01	3.4E+01	U	6.15E+01		GAMMALL_GS	2.0005E+00	L	08/15/2007 05:36	I
7191503	SB-125	14234-35-6	6.81E-01	pCi/L	1.6E+01	1.6E+01	U	2.70E+01		GAMMALL_GS	2.0005E+00	L	08/15/2007 05:36	I
7191501	NP-237	13994-20-2	9.82E-02	pCi/L	1.8E-01	1.8E-01	U	3.47E-01	111.6	NP237_LLE_PLAT	1.323E-01	L	08/15/2007 13:50	I
7191486	PU-238	13981-16-3	2.27E-01	pCi/L	2.7E-01	2.7E-01	U	3.13E-01	59.3	PUISO_PLATE_AE	1.298E-01	L	08/11/2007 11:40	I
7191486	PU-239	PU-239/240	3.54E+01	pCi/L	3.3E+00	6.6E+00		4.40E-01	59.3	PUISO_PLATE_AE	1.298E-01	L	08/11/2007 11:40	I
7191506	SR-90	10098-97-2	4.13E+03	pCi/L	2.5E+01	5.9E+02		1.88E+00	78.7	SRISO_SEP_PRE	4.288E-01	L	08/22/2007 07:33	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J14HX10	B1NWX5		MW6-SBB-A1	S07-006	W05197					06/28/2007 13:51

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7191489	TC-99	14133-76-7	2.41E+01	pCi/L	4.9E+00	7.4E+00		1.01E+01	100.0	TC99_ETVDSK_LS	1.26E-01	L	08/14/2007 02:07	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:
9J14HX30	B1NWX5		MW6-SBB-A1	S07-006	W05197					06/28/2007 13:51

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7191504	BE-7	13966-02-4	1.99E+01	pCi/L	2.0E+01	2.0E+01	U	3.92E+01		GAMMA_GS	2.5059E+00	L	09/05/2007 08:14	I
7191504	CO-60	10198-40-0	1.69E+00	pCi/L	1.5E+00	1.5E+00	U	3.04E+00		GAMMA_GS	2.5059E+00	L	09/05/2007 08:14	I
7191504	CS-134	13967-70-9	-3.80E-01	pCi/L	1.3E+00	1.3E+00	U	2.31E+00		GAMMA_GS	2.5059E+00	L	09/05/2007 08:14	I
7191504	CS-137	10045-97-3	9.60E-01	pCi/L	1.2E+00	1.2E+00	U	2.29E+00		GAMMA_GS	2.5059E+00	L	09/05/2007 08:14	I
7191504	EU-152	14683-23-9	-1.57E+00	pCi/L	2.9E+00	2.9E+00	U	4.82E+00		GAMMA_GS	2.5059E+00	L	09/05/2007 08:14	I
7191504	EU-154	15585-10-1	7.37E-01	pCi/L	3.2E+00	3.2E+00	U	6.19E+00		GAMMA_GS	2.5059E+00	L	09/05/2007 08:14	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: 36622 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

7191504	EU-155	14391-16-3	2.14E+00	pCi/L	2.8E+00	2.8E+00	U	5.21E+00		GAMMA_GS	2.5059E+00	L	09/05/2007	08:14	I
7191504	K-40	13966-00-2	1.01E+01	pCi/L	2.7E+01	2.7E+01	U	5.61E+01		GAMMA_GS	2.5059E+00	L	09/05/2007	08:14	I
7191504	RU-106	13967-48-1	-2.19E+00	pCi/L	1.2E+01	1.2E+01	U	2.04E+01		GAMMA_GS	2.5059E+00	L	09/05/2007	08:14	I
7191504	SB-125	14234-35-6	-1.96E-02	pCi/L	2.9E+00	2.9E+00	U	5.15E+00		GAMMA_GS	2.5059E+00	L	09/05/2007	08:14	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:
9J14J710	B1NKC4		MW6-SBB-A1	S07-006	W05197					06/28/2007 12:22

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7191487	AM-241	14596-10-2	3.31E-01	pCi/L	3.1E-01	3.1E-01		3.30E-01	99.3	AMCMISO_EIE_PL	1.309E-01	L	08/15/2007	13:51	I
7191503	BE-7	13966-02-4	5.35E+01	pCi/L	8.7E+01	8.7E+01	U	1.53E+02		GAMMALL_GS	1.9974E+00	L	08/15/2007	05:37	I
7191503	CO-60	10198-40-0	1.93E+00	pCi/L	3.1E+00	3.1E+00	U	6.46E+00		GAMMALL_GS	1.9974E+00	L	08/15/2007	05:37	I
7191503	CS-134	13967-70-9	-5.49E-01	pCi/L	2.8E+00	2.8E+00	U	4.99E+00		GAMMALL_GS	1.9974E+00	L	08/15/2007	05:37	I
7191503	CS-137	10045-97-3	1.10E+03	pCi/L	1.3E+02	1.3E+02		5.91E+00		GAMMALL_GS	1.9974E+00	L	08/15/2007	05:37	I
7191503	EU-152	14683-23-9	1.01E+01	pCi/L	1.4E+01	1.4E+01	U	2.49E+01		GAMMALL_GS	1.9974E+00	L	08/15/2007	05:37	I
7191503	EU-154	15585-10-1	-1.18E+00	pCi/L	7.3E+00	7.3E+00	U	1.36E+01		GAMMALL_GS	1.9974E+00	L	08/15/2007	05:37	I
7191503	EU-155	14391-16-3	1.60E+00	pCi/L	9.3E+00	9.3E+00	U	1.59E+01		GAMMALL_GS	1.9974E+00	L	08/15/2007	05:37	I
7191503	K-40	13966-00-2	5.50E+00	pCi/L	5.1E+01	5.1E+01	U	5.83E+01		GAMMALL_GS	1.9974E+00	L	08/15/2007	05:37	I
7191503	RU-106	13967-48-1	-1.49E+01	pCi/L	3.1E+01	3.1E+01	U	5.41E+01		GAMMALL_GS	1.9974E+00	L	08/15/2007	05:37	I
7191503	SB-125	14234-35-6	-1.53E+01	pCi/L	1.5E+01	1.5E+01	U	2.49E+01		GAMMALL_GS	1.9974E+00	L	08/15/2007	05:37	I
7191501	NP-237	13994-20-2	0.00E+00	pCi/L	1.3E-01	1.3E-01	U	3.09E-01	103.2	NP237_LLE_PLAT	1.29E-01	L	08/15/2007	13:50	I
7191506	Sr-90	10098-97-2	3.96E+03	pCi/L	2.4E+01	5.7E+02		1.66E+00	81.7	SRISO_SEP_PRE	5.451E-01	L	08/22/2007	08:34	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J14J730	B1NKC4		MW6-SBB-A1	S07-006	W05197					06/28/2007 12:22

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7228469	PU-238	13981-16-3	1.68E-01	pCi/L	2.1E-01	2.1E-01	U	2.87E-01	92.4	PUISO_PLATE_AE	1.245E-01	L	08/21/2007	18:51	I
7228469	PU-239	PU-239/240	4.04E+01	pCi/L	3.1E+00	7.0E+00		3.38E-01	92.4	PUISO_PLATE_AE	1.245E-01	L	08/21/2007	18:51	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:
9J14JN10	B1NLD2		MW6-SBB-A1	S07-006	W05197					06/28/2007 12:22

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7191486	PU-238	13981-16-3	1.05E-01	pCi/L	2.8E-01	2.8E-01	U	6.89E-01	79.3	PUISO_PLATE_AE	6.03E-02	L	08/11/2007	11:41	I
7191486	PU-239	PU-239/240	1.20E+01	pCi/L	2.6E+00	3.2E+00		6.31E-01	79.3	PUISO_PLATE_AE	6.03E-02	L	08/11/2007	11:41	I

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

9/7/2007 9:08:01 AM

TAL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 36622 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.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:
9J14KD10	B1NLD3		MW6-SBB-A1	S07-006	W05197					06/28/2007 12:22

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7191486	PU-238	13981-16-3	5.32E-02	pCi/L	2.1E-01	2.1E-01	U	6.07E-01	92.6	PUISO_PLATE_AE	7.22E-02	L	08/11/2007 11:42	I
7191486	PU-239	PU-239/240	1.27E+01	pCi/L	2.3E+00	3.0E+00		5.10E-01	92.6	PUISO_PLATE_AE	7.22E-02	L	08/11/2007 11:42	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:
9J15H210	B1NL35		MW6-SBB-A1	S07-006	W05197					06/29/2007 13:47

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7191507	ALPHA	12587-46-1	4.37E+01	pCi/L	5.8E+00	1.2E+01		1.76E+00	100.0	9310_ALPHABETA	2.002E-01	L	08/14/2007 19:39	I
7191508	BETA	12587-47-2	3.27E+01	pCi/L	2.9E+00	5.1E+00		2.91E+00	100.0	9310_ALPHABETA	1.991E-01	L	08/14/2007 19:37	I
7191502	Uranium	7440-61-1	7.71E+01	ug/L	9.1E+00	9.1E+00		8.19E-02		UTOT_KPA	2.56E-02	ML	08/16/2007 13:38	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:
9J15H510	B1NL70		MW6-SBB-A1	S07-006	W05197					06/29/2007 10:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7191510	H-3	10028-17-8	1.34E+04	pCi/L	3.9E+02	6.6E+02		2.98E+02	100.0	906.0_H3_LSC	5.00E-03	L	07/13/2007 19:32	I
7191507	ALPHA	12587-46-1	1.89E+00	pCi/L	1.4E+00	1.4E+00		1.74E+00	100.0	9310_ALPHABETA	1.979E-01	L	08/14/2007 20:43	I
7191508	BETA	12587-47-2	1.58E+01	pCi/L	2.5E+00	3.2E+00		3.41E+00	100.0	9310_ALPHABETA	1.696E-01	L	08/14/2007 19:37	I
7191502	Uranium	7440-61-1	5.83E+00	ug/L	6.9E-01	6.9E-01		8.25E-02		UTOT_KPA	2.54E-02	ML	08/16/2007 13:41	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J15H810	B1NL63		MW6-SBB-A1	S07-006	W05197					06/29/2007 08:59

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7191510	H-3	10028-17-8	1.28E+04	pCi/L	3.9E+02	6.4E+02		3.05E+02	100.0	906.0_H3_LSC	5.00E-03	L	07/13/2007 22:16	I
7191507	ALPHA	12587-46-1	1.02E+01	pCi/L	3.0E+00	3.8E+00		2.14E+00	100.0	9310_ALPHABETA	1.979E-01	L	08/14/2007 20:43	I
7191508	BETA	12587-47-2	9.28E+00	pCi/L	2.2E+00	2.5E+00		3.46E+00	100.0	9310_ALPHABETA	1.644E-01	L	08/14/2007 19:38	I
7191489	TC-99	14133-76-7	2.54E+01	pCi/L	4.9E+00	7.4E+00		1.00E+01	100.0	TC99_ETVDSK_LS	1.272E-01	L	08/14/2007 03:09	I
7191502	Uranium	7440-61-1	1.91E+01	ug/L	2.2E+00	2.2E+00		8.42E-02		UTOT_KPA	2.49E-02	ML	08/16/2007 13:45	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J15JA10	B1NL62		MW6-SBB-A1	S07-006	W05197					06/29/2007 08:59

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7191510	H-3	10028-17-8	1.34E+04	pCi/L	4.0E+02	6.6E+02		3.07E+02	100.0	906.0_H3_LSC	5.00E-03	L	07/13/2007 23:37	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.

9/7/2007 9:08:01 AM

TAL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 36622 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

7191507	ALPHA	12587-46-1	1.07E+01	pCi/L	3.1E+00	4.0E+00	1.72E+00	100.0	9310_ALPHABETA	1.861E-01	L	08/14/2007	20:43	I
7191508	BETA	12587-47-2	1.97E+01	pCi/L	2.5E+00	3.5E+00	2.83E+00	100.0	9310_ALPHABETA	1.934E-01	L	08/14/2007	19:38	I
7191489	TC-99	14133-76-7	2.45E+01	pCi/L	5.0E+00	7.4E+00	1.02E+01	100.0	TC99_ETVDSK_LS	1.253E-01	L	08/14/2007	04:12	I
7191502	Uranium	7440-61-1	1.91E+01	ug/L	2.3E+00	2.3E+00	7.97E-02		UTOT_KPA	2.63E-02	ML	08/16/2007	13:47	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:
9J15JC10	B1NLC0		MW6-SBB-A1	S07-006	W05197					06/29/2007 12:28

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7191513	H-3	10028-17-8	5.74E+00	pCi/L	4.1E+00	6.0E+00	U	5.81E+00	100.0	TRITIUM_ELECT_L	1.50E-01	L	08/22/2007 01:08	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:
9J2DK210	B1NN70		MW6-SBB-A1	W07-006	W05197					07/02/2007 14:14

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7191489	TC-99	14133-76-7	2.46E+00	pCi/L	4.3E+00	6.1E+00	U	1.01E+01	100.0	TC99_ETVDSK_LS	1.262E-01	L	08/14/2007 05:14	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:
9J2DM110	B1NK53		MW6-SBB-A1	S07-006	W05197					06/30/2007 10:36

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7191513	H-3	10028-17-8	1.98E+01	pCi/L	5.0E+00	7.6E+00		5.85E+00	100.0	TRITIUM_ELECT_L	1.5001E-01	L	08/22/2007 03:44	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J2DMJ10	B1NN75		MW6-SBB-A1	W07-006	W05197					07/02/2007 12:03

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7191489	TC-99	14133-76-7	1.57E+01	pCi/L	4.7E+00	6.9E+00		1.01E+01	100.0	TC99_ETVDSK_LS	1.263E-01	L	08/14/2007 07:19	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:
9J2DMK10	B1NN04		MW6-SBB-A1	W07-006	W05197					07/02/2007 13:14

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7191489	TC-99	14133-76-7	5.39E+00	pCi/L	4.3E+00	6.3E+00	U	1.01E+01	100.0	TC99_ETVDSK_LS	1.265E-01	L	08/14/2007 09:24	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J2DMM10	B1NLC4		MW6-SBB-A1	S07-006	W05197					06/30/2007 13:19

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7191506	SR-90	10098-97-2	2.23E-01	pCi/L	3.1E-01	3.1E-01	U	6.30E-01	79.5	SRISO_SEP_PRE	1.0006E+00	L	08/22/2007 06:01	I

TAL Richland

rptFeadRadSummaryEdd v3.48

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

TAL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 36622 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

7191513	H-3	10028-17-8	7.92E+00	pCi/L	5.2E+00	6.8E+00		5.80E+00	100.0	TRITIUM_ELECT_L	1.50E-01	L	08/22/2007	02:26	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J2DMN10	B1NKH8		MW6-SBB-A1	S07-006	W05197					06/30/2007 11:49

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7191503	BE-7	13966-02-4	-1.21E+01	pCi/L	2.9E+01	2.9E+01	U	5.09E+01		GAMMALL_GS	1.9725E+00	L	08/15/2007	05:37	I
7191503	CO-60	10198-40-0	1.82E-01	pCi/L	2.8E+00	2.8E+00	U	5.35E+00		GAMMALL_GS	1.9725E+00	L	08/15/2007	05:37	I
7191503	CS-134	13967-70-9	-2.87E+00	pCi/L	2.8E+00	2.8E+00	U	4.23E+00		GAMMALL_GS	1.9725E+00	L	08/15/2007	05:37	I
7191503	CS-137	10045-97-3	-7.26E-01	pCi/L	2.2E+00	2.2E+00	U	3.82E+00		GAMMALL_GS	1.9725E+00	L	08/15/2007	05:37	I
7191503	EU-152	14683-23-9	-2.06E+00	pCi/L	5.8E+00	5.8E+00	U	1.00E+01		GAMMALL_GS	1.9725E+00	L	08/15/2007	05:37	I
7191503	EU-154	15585-10-1	2.41E+00	pCi/L	7.4E+00	7.4E+00	U	1.50E+01		GAMMALL_GS	1.9725E+00	L	08/15/2007	05:37	I
7191503	EU-155	14391-16-3	1.97E+00	pCi/L	3.5E+00	3.5E+00	U	6.78E+00		GAMMALL_GS	1.9725E+00	L	08/15/2007	05:37	I
7191503	K-40	13966-00-2	-1.99E+01	pCi/L	4.7E+01	4.7E+01	U	1.04E+02		GAMMALL_GS	1.9725E+00	L	08/15/2007	05:37	I
7191503	RU-106	13967-48-1	1.12E+01	pCi/L	2.3E+01	2.3E+01	U	4.47E+01		GAMMALL_GS	1.9725E+00	L	08/15/2007	05:37	I
7191503	SB-125	14234-35-6	-6.21E+00	pCi/L	5.9E+00	5.9E+00	U	9.32E+00		GAMMALL_GS	1.9725E+00	L	08/15/2007	05:37	I
7191505	I-129L	15046-84-1	8.63E-02	pCi/L	2.1E-01	2.1E-01	U	3.14E-01	94.9	I129LL_SEP_LEPS	3.875E+00	L	08/16/2007	13:50	I
7191489	TC-99	14133-76-7	5.02E+02	pCi/L	1.3E+01	3.6E+01		1.02E+01	100.0	TC99_ETVDSK_LS	1.243E-01	L	08/14/2007	10:26	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J2DN110	B1NK14		MW6-SBB-A1	I07-050	W05197					06/30/2007 09:40

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7191505	I-129L	15046-84-1	3.71E-01	pCi/L	1.7E-01	1.7E-01	U	3.70E-01	94.6	I129LL_SEP_LEPS	3.9426E+00	L	08/16/2007	13:51	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:
9J2DN310	B1NK13		MW6-SBB-A1	I07-050	W05197					06/30/2007 09:40

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7191505	I-129L	15046-84-1	3.29E-01	pCi/L	2.0E-01	2.0E-01	U	3.15E-01	95.1	I129LL_SEP_LEPS	3.9279E+00	L	08/16/2007	16:07	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:
9J2DNA10	B1NK49		MW6-SBB-A1	S07-006	W05197					06/30/2007 12:44

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7191513	H-3	10028-17-8	4.21E+01	pCi/L	6.3E+00	1.1E+01		5.84E+00	100.0	TRITIUM_ELECT_L	1.50E-01	L	08/22/2007	06:19	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.

9/7/2007 9:08:01 AM

TAL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 36622 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

9J2DND10 B1NK57 MW6-SBB-A1 S07-006 W05197 06/30/2007 11:31

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7191513	H-3	10028-17-8	1.09E+01	pCi/L	5.6E+00	7.2E+00		5.84E+00	100.0	TRITIUM_ELECT_L	1.50E-01	L	08/22/2007 07:36	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.

Friday, September 07, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2K9J1AB	**Sdg/Rept Nbr:**	W05197	36622	**Collection Date:** 06/28/2007 12:22
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 06/28/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7191486	PU-238	2.95E-02	pCi/L	7.9E-02	U	1.94E-01	86.8		PUISO_PLATE	1.989E-01	08/11/2007				D
BLK	13981-16-3			7.8E-02						L	11:42				
7191486	PU-239	-3.10E-03	pCi/L	7.8E-02	U	1.56E-01	86.8		PUISO_PLATE	1.989E-01	08/11/2007				D
BLK	PU-239/240			7.8E-02						L	11:42				

TAL Richland

rptFeadRadEdd v3.68

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

Friday, September 07, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2K9K1AB	**Sdg/Rept Nbr:**	W05197 36622	**Collection Date:**	06/28/2007 12:22
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	06/28/2007

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
7191487	AM-241	3.71E-02	pCi/L	9.5E-02	U	2.22E-01	95.6		AMCMISO_EIE	2.02E-01	08/15/2007				D
BLK	14596-10-2			9.5E-02						L	17:40				

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

Friday, September 07, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2K9L1AB	Sdg/Rept Nbr:	W05197	36622	Collection Date: 07/02/2007 14:14
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BLK		Received Date: 07/02/2007

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
7191489	TC-99	-7.27E-01	pCi/L	6.0E+00	U	1.02E+01	100.0		TC99_ETVDSK	1.252E-01	08/14/2007				D
BLK	14133-76-7			4.2E+00						L	11:29				

TAL Richland

rptFeadRadEdd v3.68

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

3

Friday, September 07, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2LA61AB	**Sdg/Rept Nbr:**	W05197 36622	**Collection Date:**	06/28/2007 12:22
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	06/28/2007

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
7191501	NP-237	4.76E-02	pCi/L	9.7E-02	U	2.28E-01	90.4		NP237_LLE_P	2.002E-01	08/15/2007				D
BLK	13994-20-2			9.7E-02						L	13:50				

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.

Friday, September 07, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2LA71AB	**Sdg/Rept Nbr:**	W05197 36622	**Collection Date:**	06/29/2007 13:47
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	06/29/2007

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
7191502	Uranium	-1.34E-02	ug/L	3.0E-03	U	8.38E-02			UTOT_KPA	2.50E-02	08/16/2007				D
BLK	7440-61-1			3.0E-03						ML	13:29				

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.

Friday, September 07, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2LA91AB	**Sdg/Rept Nbr:**	W05197 36622	**Collection Date:**	06/30/2007 11:49
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	07/02/2007

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
7191503	BE-7	2.31E+01	pCi/L	2.6E+01	U	5.01E+01			GAMMALL_GS	1.9975E+00	08/15/2007				D
BLK	13966-02-4			2.6E+01						L	05:38				
7191503	CO-60	8.17E-01	pCi/L	1.8E+00	U	3.70E+00			GAMMALL_GS	1.9975E+00	08/15/2007				D
BLK	10198-40-0			1.8E+00						L	05:38				
7191503	CS-134	8.90E-02	pCi/L	2.1E+00	U	3.84E+00			GAMMALL_GS	1.9975E+00	08/15/2007				D
BLK	13967-70-9			2.1E+00						L	05:38				
7191503	CS-137	9.08E-01	pCi/L	1.9E+00	U	3.60E+00			GAMMALL_GS	1.9975E+00	08/15/2007				D
BLK	10045-97-3			1.9E+00						L	05:38				
7191503	EU-152	-3.37E+00	pCi/L	4.8E+00	U	7.98E+00			GAMMALL_GS	1.9975E+00	08/15/2007				D
BLK	14683-23-9			4.8E+00						L	05:38				
7191503	EU-154	-3.79E-01	pCi/L	5.2E+00	U	9.97E+00			GAMMALL_GS	1.9975E+00	08/15/2007				D
BLK	15585-10-1			5.2E+00						L	05:38				
7191503	EU-155	8.47E-01	pCi/L	4.3E+00	U	7.55E+00			GAMMALL_GS	1.9975E+00	08/15/2007				D
BLK	14391-16-3			4.3E+00						L	05:38				
7191503	K-40	2.63E+01	pCi/L	3.0E+01	U	6.55E+01			GAMMALL_GS	1.9975E+00	08/15/2007				D
BLK	13966-00-2			3.0E+01						L	05:38				
7191503	RU-106	-3.08E+00	pCi/L	1.7E+01	U	2.93E+01			GAMMALL_GS	1.9975E+00	08/15/2007				D
BLK	13967-48-1			1.7E+01						L	05:38				
7191503	SB-125	2.16E+00	pCi/L	4.5E+00	U	8.63E+00			GAMMALL_GS	1.9975E+00	08/15/2007				D
BLK	14234-35-6			4.5E+00						L	05:38				

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

Friday, September 07, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id: J2LCA3AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05197 36622
Matrix: WATER WATER
QC Type: BLK

Collection Date: 06/28/2007 13:51
Sample On Date:
Received Date: 06/28/2007

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
7191504	BE-7	1.86E-02	pCi/L	2.0E+01	U	3.48E+01			GAMMA_GS	2.5056E+00	09/05/2007				D
BLK	13966-02-4			2.0E+01						L	08:14				
7191504	CO-60	-1.12E+00	pCi/L	1.2E+00	U	1.91E+00			GAMMA_GS	2.5056E+00	09/05/2007				D
BLK	10198-40-0			1.2E+00						L	08:14				
7191504	CS-134	1.27E+00	pCi/L	1.4E+00	U	2.68E+00			GAMMA_GS	2.5056E+00	09/05/2007				D
BLK	13967-70-9			1.4E+00						L	08:14				
7191504	CS-137	4.98E-01	pCi/L	1.1E+00	U	2.09E+00			GAMMA_GS	2.5056E+00	09/05/2007				D
BLK	10045-97-3			1.1E+00						L	08:14				
7191504	EU-152	1.35E+00	pCi/L	3.0E+00	U	5.51E+00			GAMMA_GS	2.5056E+00	09/05/2007				D
BLK	14683-23-9			3.0E+00						L	08:14				
7191504	EU-154	-7.04E-01	pCi/L	3.8E+00	U	6.73E+00			GAMMA_GS	2.5056E+00	09/05/2007				D
BLK	15585-10-1			3.8E+00						L	08:14				
7191504	EU-155	-2.69E-01	pCi/L	2.5E+00	U	4.31E+00			GAMMA_GS	2.5056E+00	09/05/2007				D
BLK	14391-16-3			2.5E+00						L	08:14				
7191504	K-40	-2.30E+01	pCi/L	2.5E+01	U	5.07E+01			GAMMA_GS	2.5056E+00	09/05/2007				D
BLK	13966-00-2			2.5E+01						L	08:14				
7191504	RU-106	4.45E+00	pCi/L	1.1E+01	U	2.09E+01			GAMMA_GS	2.5056E+00	09/05/2007				D
BLK	13967-48-1			1.1E+01						L	08:14				
7191504	SB-125	2.04E-01	pCi/L	2.9E+00	U	5.23E+00			GAMMA_GS	2.5056E+00	09/05/2007				D
BLK	14234-35-6			2.9E+00						L	08:14				

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

Friday, September 07, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2LCC1AB	**Sdg/Rept Nbr:**	W05197 36622	**Collection Date:**	06/30/2007 09:40
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	07/02/2007

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
7191505	I-129L	1.00E-01	pCi/L	1.3E-01	U	2.70E-01	91.9		I129LL_SEP_L	3.9002E+00	08/16/2007				D
BLK	15046-84-1			1.3E-01						L	16:08				

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.

Friday, September 07, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2LCD1AB	**Sdg/Rept Nbr:**	W05197 36622	**Collection Date:**	06/30/2007 13:19
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	07/02/2007

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
7191506	SR-90	-7.99E-02	pCi/L	2.8E-01	U	6.23E-01	79.6		SRISO_SEP_P	1.0052E+00	08/22/2007				D
BLK	10098-97-2			2.8E-01						L	06:01				

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.

Friday, September 07, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2LCE1AB	**Sdg/Rept Nbr:**	W05197 36622	**Collection Date:**	06/29/2007 13:47
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	06/29/2007

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
7191507	ALPHA	0.00E+00	pCi/L	3.0E-01	U	9.45E-01	100.0		9310_ALPHAB	2.001E-01	08/14/2007				D
BLK	12587-46-1			3.0E-01						L	20:43				

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.

Friday, September 07, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2LCF1AB	**Sdg/Rept Nbr:**	W05197 36622	**Collection Date:**	06/29/2007 10:00
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	06/29/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CH	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
7191508	BETA	-2.29E-01	pCi/L	1.1E+00	U	2.59E+00	100.0		9310_ALPHAB	1.982E-01	08/14/2007				D
BLK	12587-47-2			1.1E+00						L	19:38				

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.

11

Friday, September 07, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2LCG1AB	**Sdg/Rept Nbr:**	W05197 36622	**Collection Date:**	06/29/2007 10:00
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	06/29/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CJ	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
7191510	H-3	-6.84E+00	pCi/L	1.4E+02	U	2.96E+02	100.0		906.0_H3_LSC	5.00E-03	07/13/2007				D
BLK	10028-17-8			1.2E+02						L	14:05				

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.

Friday, September 07, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2LCG1DX	**Sdg/Rept Nbr:**	W05197 36622	**Collection Date:**	06/29/2007 10:00
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	06/29/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CL	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
7191510	H-3	8.05E+01	pCi/L	1.4E+02	U	3.07E+02	100.0		906.0_H3_LSC	5.00E-03	07/13/2007				D
BLK	10028-17-8			1.3E+02						L	16:49				

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.

Friday, September 07, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2LCP1AB	Sdg/Rept Nbr:	W05197	36622	Collection Date: 06/30/2007 10:36
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BLK		Received Date: 07/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CN	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
7191513	H-3	7.44E+00	pCi/L	6.5E+00		5.79E+00	100.0		TRITIUM_ELE	1.50E-01	08/21/2007				D
BLK	10028-17-8			4.7E+00						L	22:33				

TAL Richland

rptFeadRadEdd v3.68

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

Friday, September 07, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J42W41AB	Sdg/Rept Nbr:	W05197 36622	Collection Date:	06/28/2007 12:22
Client Id:	NA	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	BLK	Received Date:	06/28/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CP	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
7228469	PU-238	-7.38E-03	pCi/L	7.5E-02	U	1.77E-01	89.1		PUISO_PLATE	2.001E-01	08/21/2007				D
BLK	13981-16-3			7.5E-02						L	18:52				
7228469	PU-239	6.63E-02	pCi/L	1.3E-01	U	2.88E-01	89.1		PUISO_PLATE	2.001E-01	08/21/2007				D
BLK	PU-239/240			1.3E-01						L	18:52				

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.

Friday, September 07, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2K9J1CS	**Sdg/Rept Nbr:**	W05197 36622	**Collection Date:**	06/28/2007 12:22
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	06/28/2007

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
7191486	PU-239	3.81E+00	pCi/L	1.1E+00		2.76E-01	62.0	4.55E+00	PUISO_PLATE	2.017E-01	08/11/2007			70	D
BS	PU-239/240			8.9E-01				83.8		L	11:42			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.

Friday, September 07, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2K9K1CS	**Sdg/Rept Nbr:**	W05197 36622	**Collection Date:**	06/28/2007 12:22
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	06/28/2007

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
7191487	AM-241	2.03E+01	pCi/L	3.5E+00		2.03E-01	102.3	2.28E+01	AMCMISO_EIE	1.997E-01	08/15/2007			70	D
BS	14596-10-2			1.9E+00				89.2		L	17:40			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.

Friday, September 07, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2K9L1CS	**Sdg/Rept Nbr:**	W05197 36622	**Collection Date:**	07/02/2007 14:14
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	07/02/2007

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
7191489	TC-99	4.56E+02	pCi/L	3.3E+01		1.00E+01	100.0	5.31E+02	TC99_ETVDSK	1.274E-01	08/14/2007			70	D
BS	14133-76-7			1.2E+01				85.8		L	12:31			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.

Friday, September 07, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2LA61CS	**Sdg/Rept Nbr:**	W05197 36622	**Collection Date:**	06/28/2007 12:22
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	06/28/2007

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
7191501	NP-237	8.10E+00	pCi/L	1.7E+00		1.81E-01	105.1	9.08E+00	NP237_LLE_P	2.02E-01	08/15/2007			70	D
BS	13994-20-2			1.1E+00				89.2		L	13:50			130	

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

Friday, September 07, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2LA71CS	**Sdg/Rept Nbr:**	W05197 36622	**Collection Date:**	06/29/2007 13:47
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	06/29/2007

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
7191502	Uranium	3.66E+01	ug/L	4.3E+00		8.38E-02		3.64E+01	UTOT_KPA	2.50E-02	08/16/2007			70	D
BS	7440-61-1			4.3E+00				100.3		ML	13:34			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.

Friday, September 07, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2LA71DS	Sdg/Rept Nbr:	W05197 36622	Collection Date:	06/29/2007 13:47
Client Id:	NA	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	BS	Received Date:	06/29/2007

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
7191502	Uranium	3.44E+00	ug/L	3.5E-01		8.12E-02		3.46E+00	UTOT_KPA	2.58E-02	08/16/2007			70	D
BS	7440-61-1			3.5E-01				99.6		ML	13:36			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.

Friday, September 07, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id: J2LA91CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05197 36622
Matrix: WATER WATER
QC Type: BS

Collection Date: 06/30/2007 11:49
Sample On Date:
Received Date: 07/02/2007

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
7191503	CO-60	4.79E+01	pCi/L	9.5E+00		5.44E+00		3.85E+01	GAMMALL_GS	1.9947E+00	08/15/2007			70	D
BS	10198-40-0			9.5E+00				124.3		L	05:38			130	
7191503	CS-137	2.28E+01	pCi/L	6.3E+00		5.13E+00		2.49E+01	GAMMALL_GS	1.9947E+00	08/15/2007			70	D
BS	10045-97-3			6.3E+00				91.3		L	05:38			130	
7191503	EU-152	9.38E+01	pCi/L	2.1E+01	U	2.46E+01		7.66E+01	GAMMALL_GS	1.9947E+00	08/15/2007			70	D
BS	14683-23-9			2.1E+01				122.5		L	05:38			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.

Friday, September 07, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2LCA5CS	Sdg/Rept Nbr:	W05197	36622	Collection Date: 06/28/2007 13:51
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BS		Received Date: 06/28/2007

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
7191504	CO-60	3.13E+01	pCi/L	6.9E+00		3.58E+00		3.05E+01	GAMMA_GS	2.501E+00	09/05/2007			70	D
BS	10198-40-0			6.9E+00				102.8		L	08:14			130	
7191504	CS-137	2.22E+01	pCi/L	5.5E+00		5.21E+00		1.99E+01	GAMMA_GS	2.501E+00	09/05/2007			70	D
BS	10045-97-3			5.5E+00				111.9		L	08:14			130	
7191504	EU-152	6.58E+01	pCi/L	1.4E+01		1.09E+01		6.09E+01	GAMMA_GS	2.501E+00	09/05/2007			70	D
BS	14683-23-9			1.4E+01				108.1		L	08:14			130	
7191504	SB-125	1.00E+00	pCi/L	6.2E+00	U	1.10E+01			GAMMA_GS	2.501E+00	09/05/2007				D
BS	14234-35-6			6.2E+00						L	08:14				

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.

Friday, September 07, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2LCC1CS	**Sdg/Rept Nbr:**	W05197 36622	**Collection Date:**	06/30/2007 09:40
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	07/02/2007

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
7191505	I-129L	1.03E+01	pCi/L	1.4E+00		4.79E-01	78.9	9.63E+00	I129LL_SEP_L	3.9205E+00	08/16/2007			70	D
BS	15046-84-1			1.4E+00				106.8		L	18:05			130	

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

Friday, September 07, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2LCD1CS	**Sdg/Rept Nbr:**	W05197 36622	**Collection Date:**	06/30/2007 13:19
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	07/02/2007

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
7191506	SR-90	1.30E+01	pCi/L	2.0E+00		4.98E-01	83.4	1.35E+01	SRISO_SEP_P	1.0008E+00	08/22/2007			70	D
BS	10098-97-2			7.1E-01				96.3		L	06:02			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.

Friday, September 07, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2LCE1CS	**Sdg/Rept Nbr:**	W05197 36622	**Collection Date:**	06/29/2007 13:47
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	06/29/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CG	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
7191507	ALPHA	2.07E+01	pCi/L	5.7E+00		1.06E+00	100.0	2.28E+01	9310_ALPHAB	1.998E-01	08/15/2007			70	D
BS	12587-46-1			3.0E+00				91.0		L	07:11			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.

Friday, September 07, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2LCF1CS	Sdg/Rept Nbr:	W05197	36622	Collection Date: 06/29/2007 10:00
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BS		Received Date: 06/29/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CI	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
7191508	BETA	2.09E+01	pCi/L	3.5E+00		2.42E+00	100.0	2.25E+01	9310_ALPHAB	1.999E-01	08/14/2007			70	D
BS	12587-47-2			2.3E+00				92.9		L	19:37			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.

Friday, September 07, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2LCG1CS	**Sdg/Rept Nbr:**	W05197 36622	**Collection Date:**	06/29/2007 10:00
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	06/29/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CK	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
7191510	H-3	2.57E+03	pCi/L	2.5E+02		2.97E+02	100.0	2.71E+03	906.0_H3_LSC	5.00E-03	07/13/2007			70	D
BS	10028-17-8			2.0E+02				95.0		L	15:27			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.

Friday, September 07, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2LCG1EM	**Sdg/Rept Nbr:**	W05197 36622	**Collection Date:**	06/29/2007 10:00
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	06/29/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CM	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
7191510	H-3	2.68E+03	pCi/L	2.5E+02		2.98E+02	100.0	2.71E+03	906.0_H3_LSC	5.00E-03	07/13/2007			70	D
BS	10028-17-8			2.1E+02				98.9		L	18:10			130	

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

Friday, September 07, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2LCP1CS	**Sdg/Rept Nbr:**	W05197 36622	**Collection Date:**	06/30/2007 10:36
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	07/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CO	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
7191513	H-3	3.97E+02	pCi/L	7.0E+01		5.81E+00	100.0	4.51E+02	TRITIUM_ELE	1.50E-01	08/21/2007			70	D
BS	10028-17-8			1.7E+01				88.0		L	23:51			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.

Friday, September 07, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J42W41CS	**Sdg/Rept Nbr:**	W05197	36622	**Collection Date:** 06/28/2007 12:22
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 06/28/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CQ	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
7228469	PU-239	4.46E+00	pCi/L	1.1E+00		2.61E-01	92.5	4.62E+00	PUISO_PLATE	1.987E-01	08/21/2007			70	D
BS	PU-239/240			8.0E-01				96.5		L	18:52			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.

Friday, September 07, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id: J14H61GR **Sdg/Rept Nbr:** W05197 36622 **Collection Date:** 06/28/2007 12:22

Client Id: B1NKC3 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 06/28/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7191486	PU-238	2.00E-01	pCi/L	2.2E-01	U	2.65E-01	92.0		PUISO_PLATE	1.314E-01	08/11/2007	12.8	0.2		D
DUP	13981-16-3	2.27E-01		2.1E-01						L	11:40	20.0	3		
7191486	PU-239	3.61E+01	pCi/L	6.2E+00		2.14E-01	92.0		PUISO_PLATE	1.314E-01	08/11/2007	1.9	0.2		D
DUP	PU-239/240	3.54E+01		2.8E+00						L	11:40	20.0	3		

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

Friday, September 07, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J14H61HR	**Sdg/Rept Nbr:**	W05197 36622	**Collection Date:**	06/28/2007 12:22
Client Id:	B1NKC3	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	06/28/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7191501	NP-237	6.29E-02	pCi/L	1.3E-01	U	3.01E-01	100.3		NP237_LLE_P	1.291E-01	08/15/2007	43.8	0.4		D
DUP	13994-20-2	9.82E-02		1.3E-01						L	13:50	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.

Friday, September 07, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id: J14HX3ER
Client Id: B1NWX5
Moisture/Solids%*:

Sdg/Rept Nbr: W05197 36622
Matrix: WATER WATER
QC Type: DUP

Collection Date: 06/28/2007 13:51
Sample On Date:
Received Date: 06/28/2007

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
7191504	BE-7	3.01E+01	pCi/L	3.2E+01	U	6.16E+01			GAMMA_GS	2.5059E+00	09/06/2007	40.9	0.4		D
DUP	13966-02-4	1.99E+01		3.2E+01						L	07:32	20.0	3		
7191504	CO-60	2.20E-01	pCi/L	1.6E+00	U	3.17E+00			GAMMA_GS	2.5059E+00	09/06/2007	153.9	1.3		D
DUP	10198-40-0	1.69E+00		1.6E+00						L	07:32	20.0	3		
7191504	CS-134	3.96E-02	pCi/L	1.7E+00	U	3.20E+00			GAMMA_GS	2.5059E+00	09/06/2007	0.0	0.3		D
DUP	13967-70-9	-3.80E-01		1.7E+00						L	07:32	20.0	3		
7191504	CS-137	1.08E-01	pCi/L	1.6E+00	U	2.89E+00			GAMMA_GS	2.5059E+00	09/06/2007	159.4	0.8		D
DUP	10045-97-3	9.60E-01		1.6E+00						L	07:32	20.0	3		
7191504	EU-152	-2.62E+00	pCi/L	4.4E+00	U	7.54E+00			GAMMA_GS	2.5059E+00	09/06/2007	0.0	0.3		D
DUP	14683-23-9	-1.57E+00		4.4E+00						L	07:32	20.0	3		
7191504	EU-154	-4.86E+00	pCi/L	5.3E+00	U	8.23E+00			GAMMA_GS	2.5059E+00	09/06/2007	0.0	1.5		D
DUP	15585-10-1	7.37E-01		5.3E+00						L	07:32	20.0	3		
7191504	EU-155	-3.07E-01	pCi/L	3.1E+00	U	5.56E+00			GAMMA_GS	2.5059E+00	09/06/2007	267.2	1.1		D
DUP	14391-16-3	2.14E+00		3.1E+00						L	07:32	20.0	3		
7191504	K-40	-9.42E+01	pCi/L	3.8E+01	U	6.78E+01			GAMMA_GS	2.5059E+00	09/06/2007	0.0	3.9		D
DUP	13966-00-2	1.01E+01		3.8E+01						L	07:32	20.0	3		
7191504	RU-106	-7.30E+00	pCi/L	1.7E+01	U	2.93E+01			GAMMA_GS	2.5059E+00	09/06/2007	0.0	0.4		D
DUP	13967-48-1	-2.19E+00		1.7E+01						L	07:32	20.0	3		
7191504	SB-125	-9.86E-02	pCi/L	4.5E+00	U	8.04E+00			GAMMA_GS	2.5059E+00	09/06/2007	0.0	0.		D
DUP	14234-35-6	-1.96E-02		4.5E+00						L	07:32	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.

Friday, September 07, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J14J71GR	**Sdg/Rept Nbr:**	W05197 36622	**Collection Date:**	06/28/2007 12:22
Client Id:	B1NKC4	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	06/28/2007

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
7191487	AM-241	6.24E-01	pCi/L	4.3E-01		3.32E-01	95.2		AMCMISO_EIE	1.281E-01	08/15/2007	61.5	1.		D
DUP	14596-10-2	3.31E-01		4.2E-01						L	13:51	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.

Friday, September 07, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J14J71HR	**Sdg/Rept Nbr:**	W05197	36622	**Collection Date:** 06/28/2007 12:22
Client Id:	B1NKC4	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 06/28/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7228469	PU-238	1.74E-01	pCi/L	2.2E-01	U	2.98E-01	85.8		PUISO_PLATE	1.223E-01	08/21/2007				D
DUP	13981-16-3			2.2E-01						L	18:51				
7228469	PU-239	4.01E+01	pCi/L	7.0E+00		2.98E-01	85.8		PUISO_PLATE	1.223E-01	08/21/2007				D
DUP	PU-239/240			3.2E+00						L	18:51				

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.

Friday, September 07, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J15H21ER	**Sdg/Rept Nbr:**	W05197 36622	**Collection Date:**	06/29/2007 13:47
Client Id:	B1NL35	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	06/29/2007

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
7191502	Uranium	7.65E+01	ug/L	9.0E+00		8.12E-02			UTOT_KPA	2.58E-02	08/16/2007	.7	0.1		D
DUP	7440-61-1	7.71E+01		9.0E+00						ML	13:40	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.

Friday, September 07, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J15H21FR	Sdg/Rept Nbr:	W05197	36622	Collection Date: 06/29/2007 13:47
Client Id:	B1NL35	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	DUP		Received Date: 06/29/2007

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
7191507	ALPHA	4.32E+01	pCi/L	1.2E+01		1.98E+00	100.0		9310_ALPHAB	1.986E-01	08/14/2007	1.2	0.1		D
DUP	12587-46-1	4.37E+01		5.8E+00						L	20:43	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.

Friday, September 07, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J15H51HR	Sdg/Rept Nbr:	W05197 36622	Collection Date:	06/29/2007 10:00
Client Id:	B1NL70	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	DUP	Received Date:	06/29/2007

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
7191508	BETA	1.68E+01	pCi/L	3.3E+00		3.30E+00	100.0		9310_ALPHAB	1.699E-01	08/14/2007	6.3	0.4		D
DUP	12587-47-2	1.58E+01		2.5E+00						L	19:38	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.

Friday, September 07, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id: J15H51JR
Client Id: B1NL70
Moisture/Solids%*:

Sdg/Rept Nbr: W05197 36622
Matrix: WATER WATER
QC Type: DUP

Collection Date: 06/29/2007 10:00
Sample On Date:
Received Date: 06/29/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-006	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
7191510	H-3	1.36E+04	pCi/L	6.7E+02		3.00E+02	100.0		906.0_H3_LSC	5.00E-03	07/13/2007	1.6	0.5		D
DUP	10028-17-8	1.34E+04		4.0E+02						L	20:54	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.

Friday, September 07, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2DK21CR	**Sdg/Rept Nbr:**	W05197	36622	**Collection Date:** 07/02/2007 14:14
Client Id:	B1NN70	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 07/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-006	MW6-SBB-A19981								BG	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7191489	TC-99	5.87E+00	pCi/L	6.4E+00	U	1.02E+01	100.0		TC99_ETVDSK	1.243E-01	08/14/2007	81.9	0.8		D
DUP	14133-76-7	2.46E+00		4.4E+00						L	06:16	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.

Friday, September 07, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2DM11CR	**Sdg/Rept Nbr:**	W05197 36622	**Collection Date:**	06/30/2007 10:36
Client Id:	B1NK53	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	07/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-006	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
7191513	H-3	2.24E+01	pCi/L	8.2E+00		5.83E+00	100.0		TRITIUM_ELE	1.50E-01	08/22/2007	12.8	0.5		D
DUP	10028-17-8	1.98E+01		5.5E+00						L	05:01	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.

Friday, September 07, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2DMM1DR	**Sdg/Rept Nbr:**	W05197	36622	**Collection Date:** 06/30/2007 13:19
Client Id:	B1NLC4	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 07/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-006	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
7191506	SR-90	2.62E-01	pCi/L	2.8E-01	U	5.63E-01	73.9		SRISO_SEP_P	1.0011E+00	08/22/2007	16.0	0.2		D
DUP	10098-97-2	2.23E-01		2.8E-01						L	06:01	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.

Friday, September 07, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id: J2DMN1ER
Client Id: B1NKH8
Moisture/Solids%*:

Sdg/Rept Nbr: W05197 36622
Matrix: WATER WATER
QC Type: DUP

Collection Date: 06/30/2007 11:49
Sample On Date:
Received Date: 07/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-006	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
7191503	BE-7	-1.87E+00	pCi/L	3.2E+01	U	5.77E+01			GAMMALL_GS	1.8606E+00	08/15/2007	0.0	0.5		D
DUP	13966-02-4	-1.21E+01		3.2E+01						L	05:37	20.0	3		
7191503	CO-60	5.21E+00	pCi/L	3.1E+00	U	7.31E+00			GAMMALL_GS	1.8606E+00	08/15/2007	186.5	2.3		D
DUP	10198-40-0	1.82E-01		3.1E+00						L	05:37	20.0	3		
7191503	CS-134	-1.99E+00	pCi/L	2.0E+00	U	3.01E+00			GAMMALL_GS	1.8606E+00	08/15/2007	0.0	0.6		D
DUP	13967-70-9	-2.87E+00		2.0E+00						L	05:37	20.0	3		
7191503	CS-137	3.22E-01	pCi/L	2.0E+00	U	3.92E+00			GAMMALL_GS	1.8606E+00	08/15/2007	0.0	0.7		D
DUP	10045-97-3	-7.26E-01		2.0E+00						L	05:37	20.0	3		
7191503	EU-152	-3.17E+00	pCi/L	6.1E+00	U	1.01E+01			GAMMALL_GS	1.8606E+00	08/15/2007	0.0	0.3		D
DUP	14683-23-9	-2.06E+00		6.1E+00						L	05:37	20.0	3		
7191503	EU-154	-2.37E+00	pCi/L	5.4E+00	U	9.79E+00			GAMMALL_GS	1.8606E+00	08/15/2007	25819.	1.3		D
DUP	15585-10-1	2.41E+00		5.4E+00						L	05:37	20.0	3		
7191503	EU-155	2.02E+00	pCi/L	3.7E+00	U	6.98E+00			GAMMALL_GS	1.8606E+00	08/15/2007	2.7	0.		D
DUP	14391-16-3	1.97E+00		3.7E+00						L	05:37	20.0	3		
7191503	K-40	-1.74E+01	pCi/L	2.9E+01	U	5.91E+01			GAMMALL_GS	1.8606E+00	08/15/2007	0.0	0.1		D
DUP	13966-00-2	-1.99E+01		2.9E+01						L	05:37	20.0	3		
7191503	RU-106	-4.04E+00	pCi/L	1.7E+01	U	3.04E+01			GAMMALL_GS	1.8606E+00	08/15/2007	425.1	1.3		D
DUP	13967-48-1	1.12E+01		1.7E+01						L	05:37	20.0	3		
7191503	SB-125	-1.87E+00	pCi/L	5.2E+00	U	9.28E+00			GAMMALL_GS	1.8606E+00	08/15/2007	0.0	1.2		D
DUP	14234-35-6	-6.21E+00		5.2E+00						L	05:37	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.

Friday, September 07, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J2DN11CR	**Sdg/Rept Nbr:**	W05197 36622	**Collection Date:**	06/30/2007 09:40
Client Id:	B1NK14	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	07/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I07-050	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
7191505	I-129L	2.47E-01	pCi/L	1.7E-01	U	3.47E-01	94.6		I129LL_SEP_L	3.9144E+00	08/16/2007	40.4	1.		D
DUP	15046-84-1	3.71E-01		1.7E-01						L	16:06	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.

Friday, September 07, 2007

TAL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id:	J15H51GW	**Sdg/Rept Nbr:**	W05197 36622	**Collection Date:**	06/29/2007 10:00
Client Id:	B1NL70	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	MS	**Received Date:**	06/29/2007

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
7191502	Uranium	3.54E+01	ug/L	4.9E+00		8.00E-02		3.48E+01	UTOT_KPA	2.62E-02	08/16/2007			60	D
MS	7440-61-1			4.9E+00				101.8		ML	13:43			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.

Friday, September 07, 2007

TAL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05197.Edd, h:\Reportdb\edd\FeadIV\Rad\36622.Edd

Lab Sample Id: J2DMJ1CW
Client Id: B1NN75
Moisture/Solids%*:

Sdg/Rept Nbr: W05197 36622
Matrix: WATER WATER
QC Type: MS

Collection Date: 07/02/2007 12:03
Sample On Date:
Received Date: 07/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-006	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
7191489	TC-99	3.12E+03	pCi/L	1.9E+02		1.01E+01	100.0	3.59E+03	TC99_ETVDSK	1.26E-01	08/14/2007			60	D
MS	14133-76-7			3.0E+01				86.9		L	08:21			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.

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

8/22/2007 8:30:21 AM

Lot No., Due Date: J7F290306; 08/17/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7228469; RPUISO Pulso by ALP

SDG, Matrix: W05197; 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 => J14J73AE 124.50<200.00 Q:VB		✓	
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK	✓		
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	✓		
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc. Activity Not Detected, U Flag Batch Positive Result => J14J73AE PU-239 4.0E+01 L:3.4E-01		✓	
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => PU-238 PU-239 OK; No Caflin Level Found => PU-238 PU-239	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		

8.25 Counting Spectrum are within FWHM Limits. Yes No N/A ✓

FWHM > maxFWHM => J14J71AH PU-239 41.4>0
J14J73AE PU-239 46.73>0
J42W41AC PU-239 52.48>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 => J14J71AH I:[NUC_LIBR]AR_PU Q:
J14J73AE I:[NUC_LIBR]AR_PU Q:
J42W41AA I:[NUC_LIBR]AR_PU Q:
J42W41AC 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:

NCM 10-10674

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

OK

First Level Review Lisa Autonson Date 8/22/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7228469
W05197

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

Comments on any "No" response: See NCM

Second Level Review: Sheryl A Adam Date: 8-22-07

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

Clouseau
Nonconformance Memo

TestAmerica

NCM #:	10-10674		
NCM Initiated By:	Lisa Antonson	Classification:	**Anomaly**
Date Opened:	08/22/2007	Status:	**GLREVIEW**
Date Closed:		Production Area:	Environmental - Prep
		Tests:	Pulso by ALP
		Lot #'s (Sample #'s):	J7F290306 (2,3,4,5), J7G100000 (486),
		QC Batches:	7191486,
Nonconformance:	Other (describe in detail)		
Subcategory:	Other (explanation required)		

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	08/22/2007	In this Pu batch, sample J14J7 failed with a 13% yeild. A recount didn't bring it within limits. The sample was rerun in batch 7228469 with good results.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	08/22/2007	The sample was rerun.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

8/22/2007 8:26:56 AM

Lot No., Due Date: J7F290306; 08/17/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7191486; RPUISO Pulso by ALP

SDG, Matrix: W05197; WATER

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

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

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

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

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

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

8.06 At Least the Minimum Sample Volume Was Used — Yes No ✓ N/A
Analysis Volume => J14H61AE 129.80<200.00
J14JN1AA 60.30<200.00
J14J71AE 121.40<200.00
J14KD1AA 72.20<200.00
J14J72AE 121.40<200.00 Q:VB

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

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

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

8.1 Comments:

8.11 Matrix Blank is within Control Limits. — Yes No ✓ N/A
No Matrix Blanks (MBlks) found in Batch!

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

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

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

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

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

8.17 Tracer within Control Limits. — Yes No ✓ N/A
Tracers Exceeds Control Limit => => J14J71AE PU-242 13 L:20|105
J14J72AE PU-242 14 L:20|105 Q:S2

8.18 Samples are above Minimum Tracer Yield (No Failed Samples) — Yes No ✓ N/A
Trc Rec < Minimum (Failed) => J14J71AE PU-242 13<20
J14J72AE PU-242 14<20 Q:F1

8.19 Sample Specific MDC <= CRDL. — Yes No ✓ N/A
MDC/MDA > CRDL => J14J72AE PU-238 1.9E+00>1.0E+00
J14J72AE PU-239 1.9E+00>1.0E+00 Q:C1

8.2 Comments:

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

8.22 Result < Mdc, Activity Not Detected, U Flag. — Yes No ✓ N/A
Batch Positive Result =>
J14H61AE PU-239 3.5E+01 L:4.4E-01
J14JN1AA PU-239 1.2E+01 L:6.3E-01
J14J71AE PU-239 4.2E+01 L:2.5E+00
J14KD1AA PU-239 1.3E+01 L:5.1E-01
J14J72AE PU-239 4.1E+01 L:1.9E+00

8.23 Result <= Action Level, when Defined. Yes No N/A

OK; No Action Level Found => PU-238
PU-239

OK; No Callin Level Found => PU-238
PU-239

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

OK

8.25 Counting Spectrum are within FWHM Limits. Yes No N/A

FWHM > maxFWHM => J14H61AE PU-239 41.4>0
J14H61AG PU-239 42.857>0
J14JN1AA PU-239 36.147>0
J14J71AE PU-239 55.058>0
J14KD1AA PU-239 47.885>0
J2K9J1AC PU-239 30.586>0
J14J72AE PU-239 48.136>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 => J14H61AE I:[NUC_LIBR]AR_PU Q:
J14H61AG I:[NUC_LIBR]AR_PU Q:
J14JN1AA I:[NUC_LIBR]AR_PU Q:
J14J71AE I:[NUC_LIBR]AR_PU Q:
J14KD1AA I:[NUC_LIBR]AR_PU Q:
J2K9J1AA I:[NUC_LIBR]AR_PU Q:
J2K9J1AC I:[NUC_LIBR]AR_PU Q:
J14J72AE 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 [signature] Date 8/22/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7191486
W05197

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

Comments on any "No" response: See NCM

Second Level Review: Sheryl A. Adam Date: 8-22-07

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-10674**
NCM Initiated By: Lisa Antonson
Date Opened: 08/22/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Pulso by ALP
Lot #'s (Sample #'s): J7F290306 (2,3,4,5), J7G100000 (486),
QC Batches: 7191486,

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

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	08/22/2007	In this Pu batch, sample J14J7 failed with a 13% yeild. A recount didn't bring it within limits. The sample was rerun in batch 7228469 with good results.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	08/22/2007	The sample was rerun.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

8/16/2007 9:56:15 AM

Lot No., Due Date: J7F290306; 08/17/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7191487; RAMISO Amlso by ALP

SDG, Matrix: W05197; 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 ✓ 8/16/07

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

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

5.4 Was transcription checked? Yes ✓ No N/A

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

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

6.0 Comments on any No response:

See NCM # 10-10619 for information on reduced sample volume.

First Level Review Matt Lardy **Date** 8-16-07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7191487
W05197

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

Comments on any "No" response: See NCM

Second Level Review: Sheryl R Adam Date: 8-16-07

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: 10-10619
NCM Initiated By: Matt Lardy
Date Opened: 08/16/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: AmIso by ALP
Lot #'s (Sample #'s): J7F290306 (2,4),
QC Batches: 7191487,

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

Problem Description / Root Cause

Name	Date	Description
Matt Lardy	08/16/2007	Client: Hanford, PGW The sample volume for samples J14H61AC, J14J71AC and J14J71AG were reduced due to high activity screens. Even so, the MDC of 1 pCi/L was achieved for each sample.

Corrective Action

Name	Date	Corrective Action
Matt Lardy	08/16/2007	Report the results

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note
	Response	Response Note			

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

8/20/2007 3:27:27 PM

Lot No., Due Date: J7F290306; 08/17/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7191501; RNP237 Np-237 w/tracer

SDG, Matrix: W05197; 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 => J14H61AA 132.30<200.00 J14J71AA 129.00<200.00 Q:VB		✓	
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. RPD > UCL : 20.0=> J14H61AH NP-237 44.0 (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. Tracers Exceeds Control Limit => => J14H61AA Np-239 112 L:20|105 Q:S2		✓	
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 => NP-237 OK; No Callin Level Found => NP-237	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. FWHM > maxFWHM => J2LA61AC NP-237 48.3>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 => J14H61AA I:[NUC_LIBR]ALPHA Q:
J14H61AH I:[NUC_LIBR]ALPHA Q:
J14J71AA I:[NUC_LIBR]ALPHA Q:
J2LA61AA I:[NUC_LIBR]ALPHA Q:
J2LA61AC I:[NUC_LIBR]ALPHA 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: NCM 10-10LdeL

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

First Level Review Lisa Autonson Date 8/20/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 719 1501
W05197

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

Comments on any "No" response: See NCM

Second Level Review: Sheryl R Adam Date: 8-20-07

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #:	10-10664		
NCM Initiated By:	Lisa Antonson	Classification:	**Anomaly**
Date Opened:	08/20/2007	Status:	**GLREVIEW**
Date Closed:		Production Area:	Environmental - Prep
		Tests:	Np-237 w/tracer
		Lot #'s (Sample #'s):	J7F290306 (2,4), J7G100000 (501),
		QC Batches:	7191501,
Nonconformance:	Other (describe in detail)		
Subcategory:	Other (explanation required)		

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	08/20/2007	Sample J14H61AA had a high tracer recovery of 120%. A recount brought the tracer recovery within acceptance limits.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	08/20/2007	The tracer was recounted.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

8/16/2007 7:34:32 AM

Lot No., Due Date: J7F290452; 08/17/2007

Client, Site: 384868: PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7191507; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05197; 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 => J15JA1AC 186.10<200.00 Q:VB		✓	
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK	✓		
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	✓		
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc. Activity Not Detected, U Flag. Batch Positive Result => J15H21AA ALPHA 4.4E+01 L:1.8E+00 J15H51AC ALPHA 1.9E+00 L:1.7E+00 J15H81AC ALPHA 1.0E+01 L:2.1E+00 J15JA1AC ALPHA 1.1E+01 L:1.7E+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. 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 Lisa Anderson Date 8/16/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7191507
W05197

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

Comments on any "No" response:

Second Level Review: Sheryl R Adam Date: 8-16-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

8/16/2007 7:36:55 AM

Lot No., Due Date: J7F290452; 08/17/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7191508; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05197; 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 => J15H51AD 169.60<200.00 J15H81AD 164.40<200.00 Q:VB		✓	
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK	✓		
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	✓		
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => J15H21AC BETA 3.3E+01 L:2.9E+00 J15H51AD BETA 1.6E+01 L:3.4E+00 J15H81AD BETA 9.3E+00 L:3.5E+00 J15JA1AD BETA 2.0E+01 L:2.8E+00		✓	
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => BETA OK; No Callin Level Found => BETA	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		

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

8.26 Instruments have Current Calibrations. Yes No N/A

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

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

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

8.3 Comments:

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

First Level Review Lisa Anderson Date 8/16/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7191508
W05197

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 Kelsen Date: 8-16-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

8/22/2007 10:16:34 AM

Lot No., Due Date: J7F290306,J7G050229; 08/17/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7191506; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05197; WATER

1.0 COC

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

2.0 QC Batch

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

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

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

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

3.0 QC & Samples

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

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

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

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

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

4.0 Raw Data

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

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

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

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

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

5.0 Other

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

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

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

5.4 Was transcription checked? Yes ✓ No N/A

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

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

6.0 Comments on any No response:

First Level Review Lisa Anderson **Date** 8/22/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7191506
W05197

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

Comments on any "No" response:

Second Level Review: Sherryl R Adam Date: 8-23-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

9/6/2007 2:01:06 PM

Lot No., Due Date: J7F290306; 08/17/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7191504; RGAMMA Gamma by GER

SDG, Matrix: W05197; WATER

1.0 COC

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

2.0 QC Batch

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

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

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

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

3.0 QC & Samples

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

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

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

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

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

4.0 Raw Data

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

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

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

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

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

5.0 Other

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

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

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

5.4 Was transcription checked? Yes ✓ No N/A

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

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

6.0 Comments on any No response:
NCM 10-10786

First Level Review Lisa Antonson Date 9/6/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7191504
W05197

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

Comments on any "No" response: See NCM

Second Level Review: Sheryl A Adam Date: 9-6-07

SEVERN TREST STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

8/16/2007 11:45:54 AM

Lot No., Due Date: J7F290306,J7G050229; 08/17/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7191503; RGAMMA Gamma by GER

SDG, Matrix: W05197; WATER

1.0 COC

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

2.0 QC Batch

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

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

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

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

3.0 QC & Samples

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

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

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

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

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

4.0 Raw Data

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

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

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

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

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

5.0 Other

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

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

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

5.4 Was transcription checked? Yes ✓ No N/A

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

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

6.0 Comments on any No response:

See NCM # 10-10622 for information on sample J14H61AD and the LCS J2LA91AC.

First Level Review Matt Lardy **Date** 8-16-07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7191503
W05197

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

Comments on any "No" response: See NCM

Second Level Review: Sheryl A. Adam Date: 8-17-07

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-10622**
NCM Initiated By: Matt Lardy
Date Opened: 08/16/2007
Date Closed:

Classification: **Deficiency**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Gamma by GER
Lot #'s (Sample #'s): J7F290306 (2), J7G100000 (503),
QC Batches: 7191503,

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

Problem Description / Root Cause

Name	Date	Description
Matt Lardy	08/16/2007	Client: Hanford, PGW

The Cs-137 MDC in sample J14H61AD was slightly above the CRDL of 6 pCi/L at 6.08 pCi/L. However the Cs-137 result was 1,116 pCi/L.

The Eu-152 keyline in the LCS, sample ID J2LA91AC, was detected but some of the supporting lines were not. Thus Eu-152 was listed as non-identified. The radiochemical yield of Eu-152 is 122.5 %.

Used only 1860 mL for d2 DMN IAEX due to insufficient volume

Corrective Action

Name	Date	Corrective Action
Matt Lardy	08/16/2007	Report the results.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

SIVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

8/20/2007 10:57:45 AM

Lot No., Due Date: J7F290306,J7G050229,J7G050238; 08/17/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7191505; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05197; WATER

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

6.0 Comments on any No response:
NCM 10-10651

First Level Review Lisa Anderson **Date** 8/20/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7191505
W05197

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

Comments on any "No" response: See NCM

Second Level Review: Sherryl A Adam Date: 8-20-07

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: 10-10651
NCM Initiated By: Lisa Antonson
Date Opened: 08/20/2007
Date Closed:

Classification: **Deficiency**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Gamma by LEPS
Lot #'s (Sample #'s): J7F290306 (1), J7G050229 (2), J7G050238 (1,2), J7G100000 (505),
QC Batches: 7191505,

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

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	08/20/2007	When pouring up this I129 batch, the technician didn't record the weight of sample J14HX. The sample was traced and the rest of the batch poured up before the error was discovered. She dumped the sample and repoured it. When it was repoured, she added an LCS vial to the sample instead of a tracer vial. There is no sample left for a rerun. This sample will be failed.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	08/20/2007	The technician is aware of the error, and will use more caution.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note

Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

8/22/2007 2:48:56 PM

Lot No., Due Date: J7F290452,J7G050231,J7G050229; 08/17/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7191513; RH3EE H3EE by LSC

SDG, Matrix: W05197; 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 John Norton **Date** 8-22-7

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 719153
W05197

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

Comments on any "No" response:

Second Level Review: Sheryl R Adkins Date: 8-23-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

8/16/2007 3:21:29 PM

Lot No., Due Date: J7F290306,J7F290452,J7G050222,J7G050229; 08/17/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7191489; RTC99 Tc-99 by LSC

SDG, Matrix: W05197; WATER

1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	✓		
2.2 Are the QC appropriate for the analysis included in the batch?	✓		
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	✓		
2.4 Does the Worksheets include a Tracer Vial label for each sample?			✓
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	✓		
3.2 Is the LCS result, yield, and MDA within contract limits?	✓		
3.3 Are the MS/MSD results, yields, and MDA within contract limits?	✓		
3.4 Are the duplicate result, yields, and MDAs within contract limits?	✓		
3.5 Are the sample yields and MDAs within contract limits?	✓		
4.0 Raw Data			
4.1 Were results calculated in the correct units?	✓		
4.2 Were analysis volumes entered correctly?	✓		
4.3 Were Yields entered correctly?	✓		
4.4 Were spectra reviewed/meet contractual requirements?			✓
4.5 Were raw counts reviewed for anomalies?	✓		
5.0 Other			
5.1 Are all nonconformances included and noted?			✓
5.2 Are all required forms filled out?	✓		
5.3 Was the correct methodology used?	✓		
5.4 Was transcription checked?	✓		
5.5 Were all calculations checked at a minimum frequency?			✓
5.6 Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:

First Level Review John Martin **Date** 8-16-7

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7191489
W05197

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: 8-17-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/16/2007 12:50:59 PM

Lot No., Due Date: J7F290452; 08/17/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7191510; RTRITIUM H-3 by LSC

SDG, Matrix: W05197; 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 => J15H51AA 5.00<10.00 J15H81AA 5.00<10.00 J15JA1AA 5.00<10.00 Q:VB OK AL 7/16/07		✓	
8.07 The Correct Count Geometry was Used. Count Geometry => J2LCG1AF SVP15/5<>SVP10/10 J2LCG1AG SVP15/5<>SVP10/10 J2LCG1AA SVP15/5<>SVP10/10 J2LCG1AC SVP15/5<>SVP10/10 J2LCG1AD SVP15/5<>SVP10/10 J2LCG1AE SVP15/5<>SVP10/10 J15H51AA SVP15/5<>SVP10/10 J15H51AJ SVP15/5<>SVP10/10 J15H81AA SVP15/5<>SVP10/10 J15JA1AA SVP15/5<>SVP10/10 Q:VC OK AL 7/16/07		✓	
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. OK	✓		
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. OK	✓		
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
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. Yes ✓ No N/A

OK; No Action Level Found => H-3

OK; No Callin Level Found => H-3

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

OK

8.25 Counting Spectrum are within FWHM Limits. Yes No N/A ✓

No FWHM found in Batch Data!

8.26 Instruments have Current Calibrations. Yes No N/A

8.27 Correct Count Library Used. Yes No N/A ✓

No Count Library found in Batch Data!

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

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

8.3 Comments:

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

OK

First Level Review Angela Long Date 7/16/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 719510
W05197

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

Comments on any "No" response:

Second Level Review: Sheryl A. Adam Date: 7-17-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

8/20/2007 5:02:55 PM

Lot No., Due Date: J7F290452; 08/17/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7191502; RUNAT UNat by KPA

SDG, Matrix: W05197; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples Incorrect Tracer/Vial => J2LA71AD UNSC<>UNSF Q:V9		✓	
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used No Count Analysis Size found in Batch Data!			✓
8.07 The Correct Count Geometry was Used. No Count Geometry found in Batch Data!			✓
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. No Count Duration Field Found in Batch Data!			✓
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. OK	✓		
8.17 Tracer within Control Limits. No Tracers found in Batch!			✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!			✓
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => J15H21AD Uranium 7.7E+01 L:8.2E-02 J15H51AE Uranium 5.8E+00 L:8.3E-02 J15H81AF Uranium 1.9E+01 L:8.4E-02 J15JA1AF Uranium 1.9E+01 L:8.0E-02		✓	
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => Uranium OK; No Callin Level Found => Uranium	✓		
8.24 Result + 3s >=0, Not Too Negative. Result + 3s < 0 J2LA71AA Uranium -8.9E-03		✓	

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 [signature] Date 8/20/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 719150 2
W05197

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: Beryl R Adam Date: 8-21-07

TAL RICHLAND

FLUOR HANFORD

J7F390506

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

W05797 Due 08/13/07

C.O.C. # S07-006-496

Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JUNE 2007	HNF-N-506-6	Ice Chest No. 9L4NS 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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NWX5		W	6-28-07	1351	1x20-mL P	Activity Scan	None
B1NWX5		W			3x1000-mL G/P	GAMMA_GS: List-1 (10)	HNO3 to pH <2
B1NWX5		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1NWX5		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						J14HX	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			JUN 28 2007 1500		LARRY J LANE		JUN 28 2007 1500
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7F290306 W05797 Due 08/13/07

C.O.C. # S07-006-36

Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JUNE 2007	HNF-N-506-6	Ice Chest No.: SKINS Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NKC3		W	6-26-07	1222	1x20-mL P	Activity Scan	None
B1NKC3		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1NKC3		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1NKC3		W			1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	HNO3 to pH <2
B1NKC3		W			1x1000-mL G/P	AMCMISO_EIE_PLT_AEA: Am-241 (1)	HNO3 to pH <2
B1NKC3		W			1x1000-mL G/P	NP237_LLE_PLATE_AEA:Np-237(1) J14H6	HNO3 to pH <2
B1NLD2 (F)		W			1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2) J14JN	HNO3 to pH <2

Relinquished By	Received By
Print: Fluor Hanford R. T. SICKLE Sign: Date/Time: 1500 JUN 28 2007	Print: LARRY J LANE Sign: Date/Time: 1500 JUN 28 2007
Relinquished By Date/Time	Received By Date/Time
Relinquished By Date/Time	Received By Date/Time
Relinquished By Date/Time	Received By Date/Time

Matrix *

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

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

TAL RICHLAND

105

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7F290304 WE5797 Due 08.13.07

C.O.C. # S07-006-37

Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JUNE 2007	HNF-N5066	Ice Chest No.: 9KINS 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
B1NKC4		W	6-26-07	1222	1x20-mL P	Activity Scan		None
B1NKC4		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)		HNO3 to pH <2
B1NKC4		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)		HNO3 to pH <2
B1NKC4		W			1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)		HNO3 to pH <2
B1NKC4		W			1x1000-mL G/P	AMCMISO_EIE_PLT_AEA: Am-241 (1)		HNO3 to pH <2
B1NKC4		W			1x1000-mL G/P	NP237_LLE_PLATE_AEA:Np-237(1)	J14J7	HNO3 to pH <2
B1NLD3 (F)		W			1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	J14KD	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			JUN 28 2007 1500		LARRY SLANE		JUN 28 2007 1500
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TAL RICHLAND

106

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 062807 1500

Client: FLH SDG #: W05197 NA [ ] SAF #: S07-006 NA [ ]

Work Order Number: J7F290306 Chain of Custody # S07-006-37,-36,496

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: ~~5~~ 5 AR 062807
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 [X] 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: _____ Date: 062807

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date 062807

LS-023, 9/03, Rev. 5

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7F290452 W05197 Due 08-13-07

C.O.C. # S07-006-270

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	HAF-N-506-6	Ice Chest No.: SKINS Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NL35		W	6-29-07	1347	1x20-mL P	Activity Scan	None
B1NL35		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1NL35		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						J15H2	

Relinquished By	Date/Time	Received By	Date/Time
Print: Fluor Hanford R. T. SICKLE Sign:	1401 JUN 29 2007	Print: LARRY J LANE Sign:	1401 JUN 29 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

TAL RICHLAND

108

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7F290452 W05197 Due 08-13-07

C.O.C. # S07-006-468

Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JUNE 2007	HNF-N-506-6	Ice Chest No.: SKINS Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NL70		W	6-29-07	1000	1x20-mL P	Activity Scan	None
B1NL70		W			1x250-mL G	906.0_H3_LSC: Tritium (1)	None
B1NL70		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1NL70		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						J15H5	

Relinquished By	Received By
Print: Fluor Hanford R. T. SICKLE Sign: Date/Time: JUN 29 2007 1401	Print: LARRY LANE Sign: Date/Time: JUN 29 2007 1401
Relinquished By: Date/Time	Received By: Date/Time
Relinquished By: Date/Time	Received By: Date/Time
Relinquished By: Date/Time	Received By: Date/Time

Matrix *

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

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

TAL RICHLAND

109

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7F290452 W05197 Due 08-13-07

C.O.C. # S07-006-463

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	HAF-W-S06-6	Ice Chest No.: SKINS Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NL63		W	6-29-07	0859	1x20-mL P	Activity Scan	None
B1NL63		W			1x250-mL G	906.0_H3_LSC: Tritium (1)	None
B1NL63		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1NL63		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1NL63		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						J15H8	

Relinquished By	Received By
Print: Fluor Hanford R. T. SICKLE Sign: Date/Time: 1401 JUN 29 2007	Print: LARRY LANE Sign: Date/Time: 1401 JUN 29 2007
Relinquished By Date/Time	Received By Date/Time
Relinquished By Date/Time	Received By Date/Time
Relinquished By Date/Time	Received By Date/Time

Matrix *

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

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

TAL RICHLAND

110

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7F290452 W05197 Due 08-13-07

C.O.C. # S07-006-462

Page 1 of 1

Collector: Fluor Hanford ~~R. T. SICKLE~~	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JUNE 2007	HNF-N-506-6	Ice Chest No.: SKINS Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NL62		W	6-29-07	0859	1x20-mL P	Activity Scan	None
B1NL62		W			1x250-mL G	906.0_H3_LSC: Tritium (1)	None
B1NL62		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1) J15JA	HCl to pH <2
B1NL62		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1NL62		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Fluor Hanford R. T. SICKLE		JUN 29 2007 1401		LARRY J LANE		JUN 29 2007 1401
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TAL RICHLAND

111

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7F290452 W05197 Due 08-13-07

C.O.C. # S07-006-294

Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JUNE 2007	HNF-N-506-6	Ice Chest No.: SKINS Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NLC0		W	6-29-07	1228	1x20-mL P	Activity Scan	None
B1NLC0		W	↓	↓	3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None

J15JC

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Fluor Hanford R. T. SICKLE	1401 JUN 29 2007	LARRY J LANE	1401 JUN 29 2007

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

112

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 062907 1401

Client: FLH (PGW) SDG #: W05797 NA [ ] SAF #: 507-006 NA [ ]

Work Order Number: J7F290452 Chain of Custody # 507-006-270, 468, 463, 462, 299

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: 5
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 [ ] TRITIUM pH<2 [✓] ALL OTHERS 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: _____ Date: 062907

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date 062907

LS-023, 9/03, Rev. 5

TAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7G050222 W05197 Due 08-16-07

C.O.C. # W07-006-430

Page 1 of 1

Collector: Steve Overdahl, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, JUNE 2007	HAUF-N-506	Ice Chest No.: SKEN 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
B1NN70		W	7-2-07	1414	1x20-mL P	Activity Scan	None
B1NN70		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

J2DK2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Steve Overdahl, Fluor Hanford			JUL 0 2 2007 1530		LARRY J LANE		JUL 0 2 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

114

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

T7G050222 W05197 Due 08.16.07

C.O.C. # **W07-006-348**

Page 1 of 1

Collector: Steve Overdahl, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, JUNE 2007	HNF-N-506.6	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
B1NN75		W	7-2-07	1203	1x20-mL P	Activity Scan	None
B1NN75		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

JADMJ

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Steve Overdahl, Fluor Hanford			JUL 0 2 2007 1590		LARRY J LANE		JUL 0 2 2007 1590
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TAL RICHLAND

115

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7G050222 W05797 Due 08/16/07

C.O.C. # W07-006-354

Page 1 of 1

Collector: Steve Overdahl, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, JUNE 2007	HOF-N-506-6	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
B1NN04		W	7-2-07	1314	1x20-mL P	Activity Scan	None
B1NN04		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

J2PMK

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Steve Overdahl, Fluor Hanford			JUL 02 2007 1530		LARRY J LANE		JUL 02 2007 1530
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TAL RICHLAND

116

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 070207 1530

Client: PGW SDG #: W05197 NA [ ] SAF #: W07-006 NA [ ]

Work Order Number: J7G050222 Chain of Custody # W07-006-430, 348, 354

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: _____ Date: 070207

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on_____ by_____ Person contacted_____

[ ] No action necessary; process as is.

Project Manager_____ Date 070207

LS-023, 9/03, Rev. 5

FAX RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7G050229 W05197 Due 08-16-07

C.O.C. # S07-006-364

Page 1 of 1

Collector: Steve Overdahl, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JUNE 2007	HNF-N-506 9	Ice Chest No.: SLICK-1 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
B1NLC4		W	6-30-07	1319	1x20-mL P	Activity Scan	None
B1NLC4		W	↓	↓	3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None
B1NLC4		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						J2DMM	

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Steve Overdahl, Fluor Hanford	7/2/07 1219	K. Patterson	7/2/07 1219
K. Patterson	7/2/07		070207 1405

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7G050229 W05797 Due 08-16-07

C.O.C. # S07-006-354

Page 1 of 1

Collector: Steve Overdahl, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JUNE 2007	HNF-N-506 9	Ice Chest No.: SLICK-1 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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NKH8		W	6-30-07	1149	1x20-mL P	Activity Scan	None
B1NKH8		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1NKH8		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1NKH8		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
						J2DMN	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Steve Overdahl, Fluor Hanford			7/2/07 1219		K. Ta Heison		7/2/07 1219
D. Patterson			7/2/07				070207 1405

Matrix *

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

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

TAL RICHLAND

119

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 070207 1405

Client: ~~PNA-RCW~~ 7/8/07 SDG #: W05197 NA [ ] SAF #: 507-006 NA [ ]

Work Order Number: J7G050229 Chain of Custody # 507-006-364, 354

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: 070207

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on_____ by_____ Person contacted_____

[ ] No action necessary; process as is.

Project Manager_____ Date 070207

LS-023, 9/03, Rev. 5

TAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7G050231 W05197 Due 08.16.07

C.O.C. # S07-006-398

Page 1 of 1

Collector: Fluor Hanford F. M. HALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JUNE 2007	HNF-N-506-7	Ice Chest No.: ERC-07-101 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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NK53		W	6/30/7	1036	1x20-mL P	Activity Scan	None
B1NK53		W	↓	↓	3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None
						J2DM1	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F. M. HALL			7-2-07 1214	K. Patterson			7-2-07 1214
K. Patterson			7/2/07 1405				070207 1405

Matrix *

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

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7G050 231 W05197 DW 08-16-07

C.O.C. # S07-006-390

Page 1 of 1

Collector: Fluor Hanford F.M. HALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JUNE 2007	HNF-M-506-7	Ice Chest No.: ERC-02-101 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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NK49		W	6/30/7	1244	1x20-mL P	Activity Scan	None
B1NK49		W	↓	↓	3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None
						J2DNA	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F.M. HALL			7-2-07 1219	K Patterson			7-2-07 1219
K Patterson			7/2/07 1405				070207 1405

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

122

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7G050231 W05197 Due 08-16-07

C.O.C. # S07-006-406

Page 1 of 1

Collect: Fluor Hanford F. M. HALL	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JUNE 2007	HNF-N-506-7	Ice Chest No.: ERC-02-101 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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NK57		W	6/30/07	1131	1x20-mL P	Activity Scan	None
B1NK57		W	↓	↓	3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None
						J2 DND	

Relinquished By: Fluor Hanford F. M. HALL (Print) (Sign)	Date/Time: 7/2/07 1245	Received By: K. Patterson (Print) (Sign)	Date/Time: 7/2/07 1245
Relinquished By: K. Patterson	Date/Time: 7/2/07 1405	Received By:	Date/Time: 070207 1405
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

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

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

TAL RICHLAND

123

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 070207 1405

Client: PNA SDG #: W05197 NA [ ] SAF #: 507-006 NA [ ]

Work Order Number: J7G050231 Chain of Custody # 507-006-398, 390, 406

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: 070207

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date 070207

LS-023, 9/03, Rev. 5

FAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

JTG050238 W05197 Due 08-16-07

C.O.C. # **I07-050-15**

Page 1 of 1

Collector: Steve Overdahl, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I07-050	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2ZP1-LOI, JUNE 2007	HNF-N-506 9	Ice Chest No.: SLICK-1 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
B1NK14		W	6-30-07	0940	1x20-mL P	Activity Scan	None
B1NK14		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						J2DN1	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Steve Overdahl, Fluor Hanford			7/2/07 1219	K. Patterson			7/2/07 1219
K. Patterson			7/2/07 1405				070207 1405

Matrix *

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

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

125

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7G050238 W05197 Due 08-16-07

C.O.C. # I07-050-14

Page 1 of 1

Collector: Steve Overdahl, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I07-050	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2ZP1-LOI, JUNE 2007	HNE-N-506 9	Ice Chest No.: SLIC K-1 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
B1NK13		W	6-7-07	0940	1x20-mL P	Activity Scan	None
B1NK13		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						J2DN3	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Steve Overdahl, Fluor Hanford			7/2/07 1219				7/2/07 1219
							070207 1405
			7/2/07				

Matrix *

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

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

126

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 070207 1405

Client: ~~PNA~~ P&W SDG #: W05197 NA [ ] SAF #: I07-050 NA [ ]

Work Order Number: J7G050238 Chain of Custody # I07-050-15,14

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: 070207

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date 070207

LS-023, 9/03, Rev. 5

TAL RICHLAND

8/16/2007 3:17:52 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 08/17/2007

Sep1 DT/Tm Tech:

Batch: 7228469 WATER pCi/L PM, Quote: SA , 57671

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J14J7-1-AH-X J7F290306-4-DUP 06/28/2007 12:22		122.30g,in AmtRec: 20ML,6XLP,4LP	PUTC10865 08/08/07,pd 03/13/07,r #Containers: 8				Scr: Alpha: 1.09E-02 uCi/Sa 1.7E-01L Beta: 1.37E-02 uCi/Sa 6.6E-02L	
2 J14J7-3-AE J7F290306-4-SAMP 06/28/2007 12:22		124.50g,in AmtRec: 20ML,6XLP,4LP	PUTC10866 08/08/07,pd 03/13/07,r #Containers: 8				Scr: Alpha: 1.09E-02 uCi/Sa 1.7E-01L Beta: 1.37E-02 uCi/Sa 6.6E-02L	
3 J42W4-1-AA-B J7H160000-469-BLK 06/28/2007 12:22		200.10g,in AmtRec:	PUTC10867 08/08/07,pd 03/13/07,r #Containers: 1				Scr: Alpha: Beta:	
4 J42W4-1-AC-C J7H160000-469-LCS 06/28/2007 12:22		198.70g,in AmtRec:	PUSG0936 07/17/07,pd 03/13/07,r #Containers: 1				Scr: Alpha: Beta:	

Comments: ~~J14J7-DUP Comments.~~ PH < 2.0 SB 8-16-07

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

J14J71AH-DUP Constituent List:

PU-238	RDL:1	pCi/L	LCL:	UCL:	RPD:	PU-239	RDL:1	pCi/L	LCL:70	UCL:130	RPD:20
Pu-242	RDL:	pCi/L	LCL:20	UCL:105	RPD:20						

J42W41AA-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						

J42W41AC-LCS:

128

8/16/2007 3:17:54 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 08/17/2007

Sep1 DT/Tm Tech:

Batch: 7228469 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:

PU-239 RDL:1 pCi/L LCL:70 UCL:130 RPD:20 Pu-242 RDL: pCi/L LCL:20 UCL:105 RPD:20

J14J71AH-DUP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J42W41AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J42W41AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

8/8/2007 1:45:40 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 08/17/2007 W005197

Batch: 7191486 WATER pCi/L PM, Quote: SA , 57671

SEQ Batch, Test: None

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J14H6-1-AE J7F290306-2-SAMP 06/28/2007 12:22		129.80g,in AmtRec: 20ML,6XLP,4LP	PUTC10859 08/08/07,pd 03/13/07,r #Containers: 8	200		Scr: Alpha: 1.35E-02 uCi/Sa 1.3E-01L Beta: 1.29E-02 uCi/Sa 7.0E-02L		
2 J14H6-1-AG-X J7F290306-2-DUP 06/28/2007 12:22		131.40g,in AmtRec: 20ML,6XLP,4LP	PUTC10860 08/08/07,pd 03/13/07,r #Containers: 8			Scr: Alpha: 1.35E-02 uCi/Sa 1.3E-01L Beta: 1.29E-02 uCi/Sa 7.0E-02L		
3 J14JN-1-AA J7F290306-3-SAMP 06/28/2007 12:22		60.30g,in AmtRec: LP	PUTC10861 08/08/07,pd 03/13/07,r #Containers: 1			Scr: Alpha: 6.04E-04 uCi/Sa 3.0E-01L Beta: 2.71E-03 uCi/Sa 3.3E-02L		
4 J14J7-1-AE J7F290306-4-SAMP 06/28/2007 12:22		121.40g,in AmtRec: 20ML,6XLP,4LP	PUTC10862 08/08/07,pd 03/13/07,r #Containers: 8			Scr: Alpha: 1.09E-02 uCi/Sa 1.7E-01L Beta: 1.37E-02 uCi/Sa 6.6E-02L		
5 J14KD-1-AA J7F290306-5-SAMP 06/28/2007 12:22		72.20g,in AmtRec: LP	PUTC10863 08/08/07,pd 03/13/07,r #Containers: 1			Scr: Alpha: 5.38E-04 uCi/Sa 3.3E-01L Beta: 2.52E-03 uCi/Sa 3.6E-02L		
6 J2K9J-1-AA-B J7G100000-486-BLK 06/28/2007 12:22		198.90g,in AmtRec:	PUTC10864 08/08/07,pd 03/13/07,r #Containers: 1			Scr: Alpha: Beta:		
7 J2K9J-1-AC-C J7G100000-486-LCS 06/28/2007 12:22		201.70g,in AmtRec:	PUSG0935 07/17/07,pd 03/13/07,r #Containers: 1			Scr: Alpha: Beta:		

TAL RICHLAND

212 212 213 214 215 216 217 130

8/8/2007 1:45:43 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 08/17/2007

Sep1 DT/Tm Tech:

Batch: 7191486 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:

Comments: J14H6-SAMP "Comments. Aliquots reduced due to high screen results. JB 8/8/07"
~~J14J7-SAMP Comments.~~ PH <2.0 JB 8.8.07

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

J14H61AE-SAMP Constituent List:

PU-238	RDL:1	pCi/L	LCL:	UCL:	RPD:	PU-239	RDL:1	pCi/L	LCL:70	UCL:130	RPD:20
Pu-242	RDL:	pCi/L	LCL:20	UCL:105	RPD:20						

J2K9J1AA-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						

J2K9J1AC-LCS:

PU-239	RDL:1	pCi/L	LCL:70	UCL:130	RPD:20	Pu-242	RDL:	pCi/L	LCL:20	UCL:105	RPD:20

J14H61AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

J2K9J1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

J2K9J1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TAL RICHLAND

8/8/2007 1:31:54 PM

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 08/17/2007 W051947

Batch: 7191487 WATER pCi/L

SEQ Batch, Test: None

Sample Preparation/Analysis

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

PM, Quote: SA , 57671

Balance Id:1120482733

Pipet #: _____

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J14H6-1-AC J7F290306-2-SAMP 06/28/2007 12:22		130.30g,in AmtRec: 20ML,6XLP,4LP	AMTC2597 07/24/07,pd 06/01/01,r #Containers: 8	200		Scr: Alpha: 1.35E-02 uCi/Sa 1.3E-01L Beta: 1.29E-02 uCi/Sa 7.0E-02L		
2 J14J7-1-AC J7F290306-4-SAMP 06/28/2007 12:22		130.90g,in AmtRec: 20ML,6XLP,4LP	AMTC2598 07/24/07,pd 06/01/01,r #Containers: 8			Scr: Alpha: 1.09E-02 uCi/Sa 1.7E-01L Beta: 1.37E-02 uCi/Sa 6.6E-02L		
3 J14J7-1-AG-X J7F290306-4-DUP 06/28/2007 12:22		128.10g,in AmtRec: 20ML,6XLP,4LP	AMTC2599 07/24/07,pd 06/01/01,r #Containers: 8			Scr: Alpha: 1.09E-02 uCi/Sa 1.7E-01L Beta: 1.37E-02 uCi/Sa 6.6E-02L		
4 J2K9K-1-AA-B J7G100000-487-BLK 06/28/2007 12:22		202.00g,in AmtRec:	AMTC2600 07/24/07,pd 06/01/01,r #Containers: 1			Scr: Alpha: Beta:		
5 J2K9K-1-AC-C J7G100000-487-LCS 06/28/2007 12:22		199.70g,in AmtRec:	AMSK0285 08/08/07,pd 06/01/01,r #Containers: 1			Scr: Alpha: Beta:		

Comments: J14H6-SAMP "Comments. Reduced due to high screen results. JB 8/8/07"
J14J7-SAMP "Comments. Reduced due to high screen results. JB 8/8/07"
pH < 2.0 JB 8-8-07

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

8/8/2007 1:32:00 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 08/17/2007

Sep1 DT/Tm Tech:

Batch: 7191487 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:

```
J14H61AC-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

J2K9K1AA-BLK:
 Am-241      RDL:1.00E+00    pCi/L    LCL:       UCL:       RPD:       AM-243     RDL:          pCi/L    LCL:20     UCL:105    RPD:20

J2K9K1AC-LCS:
 Am-241      RDL:1           pCi/L    LCL:70     UCL:130    RPD:20     AM-243     RDL:          pCi/L    LCL:20     UCL:105    RPD:20

J14H61AC-SAMP Calc Info:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J2K9K1AA-BLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J2K9K1AC-LCS:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

TAT. RTCHT.AND

TAL RICHLAND

8/9/2007 10:51:21 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #:

AnalyDueDate: 08/17/2007 W05197

Sep1 DT/Tm Tech: 8-14-07 8:09 PM

Batch: 7191501 WATER pCi/L PM, Quote: SA , 57671

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:
1 J14H6-1-AA J7F290306-2-SAMP 06/28/2007 12:22			132.30g,in	132.30g	NPTA6754 08/01/07,pd 06/01/01,r			200				
			AmtRec: 20ML,6XLP,4LP		#Containers: 8				Scr: Alpha: 1.35E-02 uCi/Sa 1.3E-01L		Beta: 1.29E-02 uCi/Sa 7.0E-02L	
2 J14H6-1-AH-X J7F290306-2-DUP 06/28/2007 12:22			129.10g,in	129.10g	NPTA6755 08/01/07,pd 06/01/01,r							
			AmtRec: 20ML,6XLP,4LP		#Containers: 8				Scr: Alpha: 1.35E-02 uCi/Sa 1.3E-01L		Beta: 1.29E-02 uCi/Sa 7.0E-02L	
3 J14J7-1-AA J7F290306-4-SAMP 06/28/2007 12:22			129.00g,in	129.00g	NPTA6756 08/01/07,pd 06/01/01,r							
			AmtRec: 20ML,6XLP,4LP		#Containers: 8				Scr: Alpha: 1.09E-02 uCi/Sa 1.7E-01L		Beta: 1.37E-02 uCi/Sa 6.6E-02L	
4 J2LA6-1-AA-B J7G100000-501-BLK 06/28/2007 12:22			200.20g,in	200.20g	NPTA6757 08/01/07,pd 06/01/01,r							
			AmtRec:		#Containers: 1				Scr:	Alpha:		Beta:
5 J2LA6-1-AC-C J7G100000-501-LCS 06/28/2007 12:22			202.00g,in	202.00g	NPSE0431 07/24/07,pd 06/01/01,r							
			AmtRec:		#Containers: 1				Scr:	Alpha:		Beta:

Comments: J14~~H6-SAMP Comments~~ Aliquots reduced due to high Screening results. pH<2.0 JB 8-9-07
J14J7-~~SAMP Comments~~.

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

134

8/9/2007 10:51:24 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: 08/17/2007

Sep1 DT/Tm Tech:

Batch: 7191501 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:

```
J14H61AA-SAMP Constituent List:
  Np-237      RDL:0.6        pCi/L     LCL:        UCL:        RPD:
J2LA61AA-BLK:
  Np-237      RDL:0.6        pCi/L     LCL:        UCL:        RPD:
J2LA61AC-LCS:

J14H61AA-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J2LA61AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J2LA61AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

8/16/2007 9:02:19 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: 08/17/2007

Sep1 DT/Tm Tech:

Batch: 7191501 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 J14H6-1-AA J7F290306-2-SAMP 06/28/2007 12:22			132.30g,in	132.30g	NPTA6754 08/01/07,pd 06/01/01,r							
			AmtRec: 20ML,6XLP,4LP		#Containers: 8				Scr: Alpha: 1.35E-02 uCi/Sa 1.3E-01L		Beta: 1.29E-02 uCi/Sa 7.0E-02L	
2 J14H6-1-AH-X J7F290306-2-DUP 06/28/2007 12:22			129.10g,in	129.10g	NPTA6755 08/01/07,pd 06/01/01,r							
			AmtRec: 20ML,6XLP,4LP		#Containers: 8				Scr: Alpha: 1.35E-02 uCi/Sa 1.3E-01L		Beta: 1.29E-02 uCi/Sa 7.0E-02L	
3 [redacted] J7F290306-2-SAMP 06/28/2007 12:22			132.30g	132.30g	NPTA 6754			208				
			AmtRec: 20ML,6XLP,4LP		#Containers: 8				Scr: Alpha: 1.35E-02 uCi/Sa 1.3E-01L		Beta: 1.29E-02 uCi/Sa 7.0E-02L	
4 J14J7-1-AA J7F290306-4-SAMP 06/28/2007 12:22			129.00g,in	129.00g	NPTA6756 08/01/07,pd 06/01/01,r							
			AmtRec: 20ML,6XLP,4LP		#Containers: 8				Scr: Alpha: 1.09E-02 uCi/Sa 1.7E-01L		Beta: 1.37E-02 uCi/Sa 6.6E-02L	
5 J2LA6-1-AA-B J7G100000-501-BLK 06/28/2007 12:22			200.20g,in	200.20g	NPTA6757 08/01/07,pd 06/01/01,r							
			AmtRec:		#Containers: 1				Scr:	Alpha:		Beta:
6 J2LA6-1-AC-C J7G100000-501-LCS 06/28/2007 12:22			202.00g,in	202.00g	NPSE0431 07/24/07,pd 06/01/01,r							
			AmtRec:		#Containers: 1				Scr:	Alpha:		Beta:

FAX RICHLAND
136

Sample Preparation/Analysis

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

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

AnalyDueDate: 08/17/2007

Batch: 7191501 pCi/L
SEQ Batch, Test: None

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:

Comments: J14H6-SAMP Comments
J14J7-SAMP Comments.

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

J14H61AA-SAMP Constituent List:
Np-237 RDL:0.6 pCi/L LCL: UCL: RPD:
J2LA61AA-BLK:
Np-237 RDL:0.6 pCi/L LCL: UCL: RPD:
J2LA61AC-LCS:

J14H61AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J2LA61AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J2LA61AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

PAL RICHLAND

8/14/2007 5:20:51 PM

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 #:

AnalyDueDate: 08/17/2007

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

Batch: 7191507 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None All Tests: 7191489 FPS5, 7191502 DHSS, 7191507 AZS7, 7191508 BCS8, 7191510 ARS6, 7191513 ASU3,

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 J15H2-1-AA J7F290452-1-SAMP 06/29/2007 13:47		200.20g,in AmtRec: 20ML,500ML,LP #Containers: 3			41.6mg	50	10F Scr:	2005 Alpha: -3.30E-05 uCi/Sa	8/14/07	Beta: 2.73E-04 uCi/Sa
2 J15H2-1-AF-X J7F290452-1-DUP 06/29/2007 13:47		198.60g,in AmtRec: 20ML,500ML,LP #Containers: 3			39.9mg	50	10A Scr:	2109 Alpha: -3.30E-05 uCi/Sa		Beta: 2.73E-04 uCi/Sa
3 J15H5-1-AC J7F290452-2-SAMP 06/29/2007 10:00		197.90g,in AmtRec: 20ML,250ML,500ML,LP #Containers: 4			48mg	50	10B Scr:	Alpha: 1.09E-04 uCi/Sa		Beta: 2.24E-04 uCi/Sa
4 J15H8-1-AC J7F290452-3-SAMP 06/29/2007 08:59		197.90g,in AmtRec: 20ML,250ML,2X500ML,LP #Containers: 5			49.1mg	50	10C Scr:	Alpha: 2.34E-05 uCi/Sa		Beta: 4.10E-04 uCi/Sa
5 J15JA-1-AC J7F290452-4-SAMP 06/29/2007 08:59		186.10g,in AmtRec: 20ML,250ML,2X500ML,LP #Containers: 5			45.7mg	50	10D Scr:	Alpha: -1.69E-04 uCi/Sa		Beta: 7.24E-04 uCi/Sa
6 J2LCE-1-AA-B J7G100000-507-BLK 06/29/2007 13:47		200.10g,in AmtRec: #Containers: 1			0.7mg	50	10F Scr:	D Alpha:		Beta:
7 J2LCE-1-AC-C J7G100000-507-LCS 06/29/2007 13:47		199.80g,in AmtRec: #Containers: 1	ASD4250 07/10/07,pd 06/01/01,r		1.2mg	50	10A Scr:	0737 Alpha:	8/15/07	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

JAY R. HILTANT

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #:

AnalyDueDate: 08/17/2007

Sep1 DT/Tm Tech:

Batch: 7191507 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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

Comments: J15JA-SAMP "Comments. Aliquot reduced due to weight screen. JB 8/9/07"

DH 8/14/07

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

J15H21AA-SAMP Constituent List:

ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
J2LCE1AA-BLK:					
ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
J2LCE1AC-LCS:					
Am-241	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

J15H21AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J2LCE1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J2LCE1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TAT, RICHLAND

8/14/2007 5:16:41 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 08/17/2007

Sep1 DT/Tm Tech:

Batch: 7191508 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7191489 FPS5, 7191502 DHSS, 7191507 AZS7, 7191508 BCS8, 7191510 ARS6, 7191513 ASU3,

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J15H2-1-AC J7F290452-1-SAMP 06/29/2007 13:47		199.10g,in AmtRec: 20ML,500ML,LP #Containers: 3			82.6mg	100	26B Scr:	2027 Alpha: -3.30E-05 uCi/Sa	8/14/07 DP Beta: 2.73E-04 uCi/Sa	
2 J15H5-1-AD J7F290452-2-SAMP 06/29/2007 10:00		169.60g,in AmtRec: 20ML,250ML,500ML,LP #Containers: 4			83.1mg	100	26C Scr:	Alpha: 1.09E-04 uCi/Sa	Beta: 2.24E-04 uCi/Sa	
3 J15H5-1-AH-X J7F290452-2-DUP 06/29/2007 10:00		169.90g,in AmtRec: 20ML,250ML,500ML,LP #Containers: 4			78.4mg	100	27A Scr:	Alpha: 1.09E-04 uCi/Sa	Beta: 2.24E-04 uCi/Sa	
4 J15H8-1-AD J7F290452-3-SAMP 06/29/2007 08:59		164.40g,in AmtRec: 20ML,250ML,2X500ML,LP #Containers: 5			56.3mg	100	27B Scr:	Alpha: 2.34E-05 uCi/Sa	Beta: 4.10E-04 uCi/Sa	
5 J15JA-1-AD J7F290452-4-SAMP 06/29/2007 08:59		193.40g,in AmtRec: 20ML,250ML,2X500ML,LP #Containers: 5			88mg	100	27C Scr:	Alpha: -1.69E-04 uCi/Sa	Beta: 7.24E-04 uCi/Sa	
6 J2LCF-1-AA-B J7G100000-508-BLK 06/29/2007 10:00		198.20g,in AmtRec: #Containers: 1			0.3mg	100	27D Scr:	Alpha:	Beta:	
7 J2LCF-1-AC-C J7G100000-508-LCS 06/29/2007 10:00		199.90g,in AmtRec: #Containers: 1	BESB3101 07/23/07,pd 10/11/06,r		0.3mg	100	26D 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

140

8/14/2007 5:16:43 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #:

AnalyDueDate: 08/17/2007

Sep1 DT/Tm Tech:

Batch: 7191508 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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

Comments: J15JA-SAMP "Comments. Aliquot reduced due to weight screen. JB 8/9/07"

DH 8/14/07

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

J15H21AC-SAMP Constituent List:

BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
J2LCF1AA-BLK:					
BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
J2LCF1AC-LCS:					
Sr-90	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

J15H21AC-SAMP Calc Info:

Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
J2LCF1AA-BLK:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
J2LCF1AC-LCS:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B

Approved By Date:

TAL RICHLAND

8/20/2007 4:57:35 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733,1120482733,1120

Pipet #: _____

AnalyDueDate: 08/17/2007

Sep1 DT/Tm Tech: 08/13/2007 17:03,ManisD

Batch: 7191506 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech: 08/20/2007 09:35,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 J14H6-1-AF J7F290306-2-SAMP		428.80g,in	SRTB15101 08/01/07,pd 05/22/07,r		1.0	23.4	100	60 7A 7A	0914 0843 0755	8/21/07 8/22/07	
						~~08/13/2007 17:03,s1, 08/20/2007~~					
06/28/2007 12:22		AmtRec: 20ML,6XLP,4LP	#Containers: 8					Scr: Alpha: 1.35E-02 uCi/Sa 1.3E-01L Beta: 1.29E-02 uCi/Sa 7.0E-02L			
2 J14J7-1-AF J7F290306-4-SAMP		545.10g,in	SRTB15102 08/01/07,pd 05/22/07,r		1.0	23.8	100 45	7B 7A	0936 0843 0857	8/21/07 8/22/07	
						~~08/13/2007 17:03,s1, 08/20/2007~~					
06/28/2007 12:22		AmtRec: 20ML,6XLP,4LP	#Containers: 8					Scr: Alpha: 1.09E-02 uCi/Sa 1.7E-01L Beta: 1.37E-02 uCi/Sa 6.6E-02L			
3 J2DMM-1-AA J7G050229-1-SAMP		1000.60g,in	SRTB15103 08/01/07,pd 05/22/07,r		1.0	23.2	100	7C 7A	0843 0647	8/21/07 8/22/07	
						~~08/13/2007 17:03,s1, 08/20/2007~~					
06/30/2007 13:19		AmtRec: 20ML,6XLP	#Containers: 7					Scr: Alpha: 3.73E-04 uCi/Sa Beta: -6.96E-04 uCi/Sa			
4 J2DMM-1-AD-X J7G050229-1-DUP		1001.10g,in	SRTB15104 08/01/07,pd 05/22/07,r		1.0	23.6	100	1A 7B	0843 0647	8/21/07 8/22/07	
						~~08/13/2007 17:03,s1, 08/20/2007~~					
06/30/2007 13:19		AmtRec: 20ML,6XLP	#Containers: 7					Scr: Alpha: 3.73E-04 uCi/Sa Beta: -6.96E-04 uCi/Sa			

TAT. RTCHT.ANT

42

8/20/2007 4:57:36 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: 08/17/2007

Sep1 DT/Tm Tech: 08/13/2007 17:03,ManisD

Batch: 7191506 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech: 08/20/2007 09:35,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:
5 J2LCD-1-AA-B J7G100000-506-BLK		1005.20g,in	SRTB15105 08/01/07,pd 05/22/07,r		1.0	24	100	13	0843	8/20/07	
						~~08/13/2007 17:03;s1, 08/20/2007~~		7L	0647	8/21/07	
06/30/2007 13:19		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:
6 J2LCD-1-AC-C J7G100000-506-LCS		1000.80g,in	SRSG1364 07/17/07,pd 05/22/07,r		1.0	23.5	100	1C	0843	8/20/07	
						~~08/13/2007 17:03;s1, 08/20/2007~~		1A	0647	8/21/07	
06/30/2007 13:19		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:

Comments: J14H6-SAMP Comments
J14J7-SAMP Comments.

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

J14H61AF-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

J2LCD1AA-BLK:

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

J2LCD1AC-LCS:

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

J14H61AF-SAMP Calc Info:

TAT, RTCHI,AND

TAL RICHLAND

8/9/2007 9:03:32 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #:

AnalyDueDate: 08/17/2007 WO5197

Sep1 DT/Tm Tech:

Batch: 7191504 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

Prep Tech: BockJ / APA

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J14HX-1-AA J7F290306-1-SAMP 06/28/2007 13:51		2505.90g,in AmtRec: 20ML,500ML,3XLP,2X4LP #Containers: 7			100mL	100	G5 Scr:	1347 Alpha: -9.60E-04 uCi/Sa	8/15/07 r Beta: 1.72E-03 uCi/Sa	
2 J14HX-1-AE-X J7F290306-1-DUP 06/28/2007 13:51		AmtRec: 20ML,500ML,3XLP,2X4LP #Containers: 7					G4 Scr:	0724 Alpha: -9.60E-04 uCi/Sa	8/16/07 Beta: 1.72E-03 uCi/Sa	
3 J2LCA-1-AA-B J7G100000-504-BLK 06/28/2007 13:51		2505.60g,in AmtRec: #Containers: 1					G5 Scr:	RS 8/15/07 ~~15~~ 1537 Alpha:	8/15/07 r Beta:	
4 J2LCA-1-AC-C J7G100000-504-LCS 06/28/2007 13:51		2501.00g,in AmtRec: #Containers: 1	QCAG1391 08/01/07,pd 08/01/02,r				G5 Scr:	1725 Alpha:	8/15/07 r Beta:	

Comments: J14HX-SAMP "Comments. No DUP. poured due to insufficient sample amount. JB 8/9/07"
pH < 2.0 938.9-01

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

J14HX1AA-SAMP Constituent List:

Co-60	RDL:2.50E+01	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:
Cs-137	RDL:1.50E+01	pCi/L	LCL:70	UCL:130	RPD:20	Cs-137DA	RDL:1.50E+01	pCi/L	LCL:70	UCL:130	RPD:20
Eu-152	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	Eu-154	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:
Eu-155	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
Sb-125	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:						

J2LCA1AA-BLK:

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: 4
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4.8.26

8/9/2007 9:03:36 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 08/17/2007

Sep1 DT/Tm Tech:

Batch: 7191504 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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

Co-60	RDL:2.50E+01	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:
Cs-137	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:	Cs-137DA	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:
Eu-152	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	Eu-154	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:
Eu-155	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
Sb-125	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:						

J2LCA1AC-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						

J14HX1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

J2LCA1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

J2LCA1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

YGW WATER

8/17/2007 2:23:33 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 08/17/2007

Sep1 DT/Tm Tech:

Batch: 7191504 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J14HX-1-AA J7F290306-1-SAMP 06/28/2007 13:51		2505.90g,in AmtRec: 20ML,500ML,3XLP,2X4LP #Containers: 7						Scr: Alpha: -9.60E-04 uCi/Sa		Beta: 1.72E-03 uCi/Sa
2 J14HX-1-AE-X J7F290306-1-DUP 06/28/2007 13:51		AmtRec: 20ML,500ML,3XLP,2X4LP #Containers: 7						Scr: Alpha: -9.60E-04 uCi/Sa		Beta: 1.72E-03 uCi/Sa
3 J2LCA-1-AA-B J7G100000-504-BLK 06/28/2007 13:51		2505.60g,in AmtRec: #Containers: 1						Scr: Alpha:		Beta:
4 J2LCA-1-AC-C J7G100000-504-LCS 06/28/2007 13:51		2501.00g,in AmtRec: #Containers: 1	QCAG1391 08/01/07,pd 08/01/02,r					Scr: Alpha:		Beta:
[redacted] J7G100000-504-LCS 06/28/2007 13:51		2501.00g AmtRec: #Containers: 1	QCAG 1391	100mL		100min 8/18/07	G14	Scr: Alpha:	1115 8/18/07	Beta:

Comments: J14HX-SAMP "Comments. "

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

J14HX1AA-SAMP Constituent List:

146

8/22/2007 9:17:12 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: 08/17/2007

Sep1 DT/Tm Tech:

Batch: 7191504 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J14HX-1-AA J7F290306-1-SAMP 06/28/2007 13:51		2505.90g,in AmtRec: 20ML,500ML,3XLP,2X4LP #Containers: 7						Scr: Alpha: -9.60E-04 uCi/Sa		Beta: 1.72E-03 uCi/Sa
2 J14HX-1-AE-X J7F290306-1-DUP 06/28/2007 13:51		AmtRec: 20ML,500ML,3XLP,2X4LP #Containers: 7						Scr: Alpha: -9.60E-04 uCi/Sa		Beta: 1.72E-03 uCi/Sa
3 J2LCA-1-AA-B J7G100000-504-BLK 06/28/2007 13:51		2505.60g,in AmtRec: #Containers: 1						Scr: Alpha:		Beta:
4 J2LCA-1-AC-C J7G100000-504-LCS 06/28/2007 13:51		2501.00g,in AmtRec: #Containers: 1	QCAG1391 08/01/07,pd 08/01/02,r					Scr: Alpha:		Beta:
5 J2LCA-2-AC-C J7G100000-504-LCS 06/28/2007 13:51		AmtRec: #Containers: 1						Scr: Alpha:		Beta:
[redacted] J7G100000-504-LCS 06/28/2007 13:51		2501.00g AmtRec: #Containers: 1	QCAG	200ml	100min		G14	Scr: Alpha:	1450 8/22/07 r	Beta:

TAL RICHLAND
147

9/4/2007 3:33:01 PM

Sample Preparation/Analysis

Balance Id:1120482733

1384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 08/17/2007

Sep1 DT/Tm Tech:

Batch: 7191504 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEO Batch, Test None

Prep Tech: BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J14HX-1-AA J7F290306-1-SAMP 06/28/2007 13:51		2505.90g,in AmtRec: 20ML,500ML,3XLP,2X4LP #Containers: 7						Scr:	Alpha: -9.60E-04 uCi/Sa	Beta: 1.72E-03 uCi/Sa
2 J14HX-1-AE-X J7F290306-1-DUP 06/28/2007 13:51		AmtRec: 20ML,500ML,3XLP,2X4LP #Containers: 7						Scr:	Alpha: -9.60E-04 uCi/Sa	Beta: 1.72E-03 uCi/Sa
3 J14HX-2-AA J7F290306-1-SAMP 06/28/2007 13:51		AmtRec: 20ML,500ML,3XLP,2X4LP #Containers: 7						Scr:	Alpha: -9.60E-04 uCi/Sa	Beta: 1.72E-03 uCi/Sa
4 J14HX-2-AE-X J7F290306-1-DUP 06/28/2007 13:51		AmtRec: 20ML,500ML,3XLP,2X4LP #Containers: 7						Scr:	Alpha: -9.60E-04 uCi/Sa	Beta: 1.72E-03 uCi/Sa
[redacted] J7F290306-1-SAMP 06/28/2007 13:51		2505.90 AmtRec: 20ML,500ML,3XLP,2X4LP #Containers: 7			200ml	200min	611	1134	9/6/07	Beta: 1.72E-03 uCi/Sa
[redacted] J7F290306-1-DUP 06/28/2007 13:51		2505.90 AmtRec: 20ML,500ML,3XLP,2X4LP #Containers: 7			200ml	200min	67	1052	9/6/07	Beta: 1.72E-03 uCi/Sa
7 J2LCA-1-AA-B J7G100000-504-BLK 06/28/2007 13:51		2505.60g,in AmtRec: #Containers: 1						Scr:	Alpha:	Beta:

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

TAL RICHLAND

148

Sample Preparation/Analysis

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

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

AnalyDueDate: 08/17/2007

Batch: 7191504 pCi/L
CEO 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 J2LCA-1-AC-C J7G100000-504-LCS 06/28/2007 13:51	AmtRec:	2501.00g,in	QCAG1391 08/01/07,pd 08/01/02,r	#Containers: 1				Scr:	Alpha:	Beta:
9 J2LCA-2-AA-B J7G100000-504-BLK 06/28/2007 13:51	AmtRec:			#Containers: 1				Scr:	Alpha:	Beta:
10 J2LCA-2-AC-C J7G100000-504-LCS 06/28/2007 13:51	AmtRec:			#Containers: 1				Scr:	Alpha:	Beta:
[redacted] J7G100000-504-BLK 06/28/2007 13:51	AmtRec:	2505.00		#Containers: 1	200 ml	200min	612	Scr: 1134	Alpha: 9/5/07	Beta:
12 J2LCA-3-AC-C J7G100000-504-LCS 06/28/2007 13:51	AmtRec:			#Containers: 1				Scr:	Alpha:	Beta:
13 J2LCA-4-AC-C J7G100000-504-LCS 06/28/2007 13:51	AmtRec:			#Containers: 1				Scr:	Alpha:	Beta:
[redacted] J7G100000-504-LCS 06/28/2007 13:51	AmtRec:	2501.00g	QCAG1391	#Containers: 1	200ml	200min	614	Scr: 1134	Alpha: 9/5/07	Beta:

TAL RICHLAND

8/24/2007 9:31:11 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 08/17/2007

Batch: 7191504 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 J2LCA-2-AC-C J7G100000-504-LCS 06/28/2007 13:51	AmtRec:	#Containers: 1						Scr:	Alpha:	Beta:
9 J2LCA-3-AC-C J7G100000-504-LCS 06/28/2007 13:51	AmtRec:	#Containers: 1						Scr:	Alpha:	Beta:
[redacted] J7G100000-504-LCS 06/28/2007 13:51	250/1.0	QCAG 1391 AmtRec:	#Containers: 1		200 mL	100 min		Scr:	GG 1519 Alpha:	8/24/07 L Beta:

Comments: J14HX-SAMP "Comments."

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

J14HX1AA-SAMP Constituent List:

Co-60	RDL:2.50E+01	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:
Cs-137	RDL:1.50E+01	pCi/L	LCL:70	UCL:130	RPD:20	Cs-137DA	RDL:1.50E+01	pCi/L	LCL:70	UCL:130	RPD:20
Eu-152	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	Eu-154	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:
Eu-155	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
Sb-125	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:						

J2LCA1AA-BLK:

Co-60	RDL:2.50E+01	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:
Cs-137	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:	Cs-137DA	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:
Eu-152	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	Eu-154	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:
Eu-155	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
Sb-125	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:						

J2LCA1AC-LCS:

TAL RICHLAND

8/24/2007 9:31:09 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: 08/17/2007

Sep1 DT/Tm Tech:

Batch: 7191504 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J14HX-1-AA J7F290306-1-SAMP 06/28/2007 13:51		2505.90g,in AmtRec: 20ML,500ML,3XLP,2X4LP #Containers: 7						Scr: Alpha: -9.60E-04 uCi/Sa		Beta: 1.72E-03 uCi/Sa
2 J14HX-1-AE-X J7F290306-1-DUP 06/28/2007 13:51		AmtRec: 20ML,500ML,3XLP,2X4LP #Containers: 7						Scr: Alpha: -9.60E-04 uCi/Sa		Beta: 1.72E-03 uCi/Sa
[redacted] J7F290306-1-SAMP 06/28/2007 13:51		2505.9 AmtRec: 20ML,500ML,3XLP,2X4LP #Containers: 7			200 mL	100 min		G4 Scr: Alpha: -9.60E-04 uCi/Sa	1517 8/24/07	8/24/07 Beta: 1.72E-03 uCi/Sa
[redacted] J7F290306-1-DUP 06/28/2007 13:51		2505.9 AmtRec: 20ML,500ML,3XLP,2X4LP #Containers: 7						G5 Scr: Alpha: -9.60E-04 uCi/Sa	1702 8/24/07	8/24/07 Beta: 1.72E-03 uCi/Sa
5 J2LCA-1-AA-B J7G100000-504-BLK 06/28/2007 13:51		2505.60g,in AmtRec: #Containers: 1						Scr: Alpha:		Beta:
6 J2LCA-1-AC-C J7G100000-504-LCS 06/28/2007 13:51		2501.00g,in AmtRec: #Containers: 1	QCAG1391 08/01/07,pd 08/01/02,r					Scr: Alpha:		Beta:
[redacted] J7G100000-504-BLK 06/28/2007 13:51		2505.6 AmtRec: #Containers: 1						G5 Scr: Alpha:	1518 8/24/07	8/24/07 Beta:

PGW WATER

8/9/2007 9:46:27 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

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

AnalyDueDate: 08/17/2007 WO 5197

Batch: 7191503 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J14H6-1-AD J7F290306-2-SAMP USE caution - warm 06/28/2007 12:22	AmtRec: 20ML,6XLP,4LP	2000.50g,in	#Containers: 8		100 ml	100	64	0716	8/10/07	Scr: Alpha: 1.35E-02 uCi/Sa 1.3E-01L Beta: 1.29E-02 uCi/Sa 7.0E-02L
2 J14J7-1-AD J7F290306-4-SAMP 06/28/2007 12:22	AmtRec: 20ML,6XLP,4LP	1997.40g,in	#Containers: 8				65	0717		Scr: Alpha: 1.09E-02 uCi/Sa 1.7E-01L Beta: 1.37E-02 uCi/Sa 6.6E-02L
3 J2DMN-1-AA J7G050229-2-SAMP 06/30/2007 11:49	AmtRec: 20ML,500ML,3X4LP	1972.50g,in	#Containers: 5				66	0717		Scr: Alpha: 2.92E-03 uCi/Sa Beta: -3.21E-03 uCi/Sa
4 J2DMN-1-AE-X J7G050229-2-DUP 06/30/2007 11:49	AmtRec: 20ML,500ML,3X4LP	1860.60g,in	#Containers: 5				68	0717		Scr: Alpha: 2.92E-03 uCi/Sa Beta: -3.21E-03 uCi/Sa
5 J2LA9-1-AA-B J7G100000-503-BLK 06/30/2007 11:49	AmtRec:	1997.50g,in	#Containers: 1				610	0718		Scr: Alpha: Beta:
6 J2LA9-1-AC-C J7G100000-503-LCS 06/30/2007 11:49	AmtRec:	1994.70g,in	QCAG1392 08/01/07,pd 08/01/02,r #Containers: 1				613	0717		Scr: Alpha: Beta:

8/9/2007 9:46:30 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 08/17/2007

Sep1 DT/Tm Tech:

Batch: 7191503 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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

Comments: ~~J14H6-SAMP Comments~~
~~J14J7-SAMP Comments.~~
J2DMN-SAMP "Comments. Not full 2000 mls due to insufficient sample amount. JB 8/9/07"
PH<2.0 JB 8-9-07

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

J14H61AD-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:

J2LA91AA-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:

J2LA91AC-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						

J14H61AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J2LA91AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J2LA91AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TAL RICHLAND

8/9/2007 2:06:08 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #:

AnalyDueDate: 08/17/2007 WO5197

Sep1 DT/Tm Tech:

Batch: 7191505 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J14HX-1-AC J7F290306-1-SAMP 06/28/2007 13:51		3917.60g,in AmtRec: 20ML,500ML,3XLP,2X4LP #Containers: 7	ISD0769 07/25/07		36.7	100	~~L4~~ L2 8/16/07		1528 8/16/07 r Scr: Alpha: -9.60E-04 uCi/Sa	Beta: 1.72E-03 uCi/Sa
2 J2DMN-1-AC J7G050229-2-SAMP 06/30/2007 11:49		3875.00g,in AmtRec: 20ML,500ML,3X4LP #Containers: 5	ITA6519 07/25/07		35.1		L4		1530 8/16/07 r Scr: Alpha: 2.92E-03 uCi/Sa	Beta: -3.21E-03 uCi/Sa
3 J2DN1-1-AA J7G050238-1-SAMP 06/30/2007 09:40		3942.60g,in AmtRec: 20ML,2X4LP #Containers: 3	ITA6520 07/25/07		35.0		L5		1531 8/16/07 r Scr: Alpha: 1.61E-05 uCi/Sa	Beta: -4.06E-04 uCi/Sa
4 J2DN1-1-AC-X J7G050238-1-DUP 06/30/2007 09:40		3914.40g,in AmtRec: 20ML,2X4LP #Containers: 3	ITA6521 07/25/07		35.0		L2		1746 8/16/07 DD Scr: Alpha: 1.61E-05 uCi/Sa	Beta: -4.06E-04 uCi/Sa
5 J2DN3-1-AA J7G050238-2-SAMP 06/30/2007 09:40		3927.90g,in AmtRec: 20ML,2X4LP #Containers: 3	ITA6522 07/25/07		35.2		L4		1747 8/16/07 DD Scr: Alpha: 1.25E-04 uCi/Sa	Beta: -3.19E-04 uCi/Sa
6 J2LCC-1-AA-B J7G100000-505-BLK 06/30/2007 09:40		3900.20g,in AmtRec: #Containers: 1	ITA6523 07/25/07		34.0		L5		1748 8/16/07 DD Scr: Alpha:	Beta:
7 J2LCC-1-AC-C J7G100000-505-LCS 06/30/2007 09:40		3920.50g,in AmtRec: #Containers: 1	ISD0768 07/25/07		29.9		L2		1945 8/16/07 DD 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

8/9/2007 2:06:10 PM

Sample Preparation/Analysis

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

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

AnalyDueDate: 08/17/2007

Batch: 7191505 pCi/L
SEQ Batch, Test: None

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

Comments: J14HX-SAMP "Comments. " PH neutral JB 8-9-07
J2DMN-SAMP Comments.

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

J14HX1AC-SAMP Constituent List:

I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:
J2LCC1AA-BLK:					
I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:
J2LCC1AC-LCS:					
I-129	RDL:5	pCi/L	LCL:70	UCL:130	RPD:20

J14HX1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J2LCC1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J2LCC1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

7/10/2007 4:35:00 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: 08/17/2007 W05197

Batch: 7191513 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

Balance Id: 17424
Pipet #:
Sep1 DT/Tm Tech: 8 10 07 bm
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J15JC-1-AA J7F290452-5-SAMP 06/29/2007 12:28		AmtRec: 20ML,3XLP	#Containers: 4			Scr:	Alpha: -8.50E-05 uCi/Sa	Beta: 1.89E-04 uCi/Sa
2 J2DMM-1-AC J7G050229-1-SAMP 06/30/2007 13:19		AmtRec: 20ML,6XLP	#Containers: 7			Scr:	Alpha:	Beta:
3 J2DM1-1-AA J7G050231-1-SAMP 06/30/2007 10:36		AmtRec: 20ML,3XLP	#Containers: 4			Scr:	Alpha:	Beta:
4 J2DM1-1-AC-X J7G050231-1-DUP 06/30/2007 10:36		AmtRec: 20ML,3XLP	#Containers: 4			Scr:	Alpha:	Beta:
5 J2DNA-1-AA J7G050231-2-SAMP 06/30/2007 12:44		AmtRec: 20ML,3XLP	#Containers: 4			Scr:	Alpha:	Beta:
6 J2DND-1-AA J7G050231-3-SAMP 06/30/2007 11:31		AmtRec: 20ML,3XLP	#Containers: 4			Scr:	Alpha:	Beta:
7 J2LCP-1-AA-B J7G100000-513-BLK 06/30/2007 10:36		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

56

7/10/2007 4:35:00 PM

Sample Preparation/Analysis

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

Balance Id: 12439
Pipet #:
Sep1 DT/Tm Tech: 8-10-07 [illegible]
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 08/17/2007

Batch: 7191513 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 J2LCP-1-AC-C J7G100000-513-LCS 06/30/2007 10:36	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
9 J2LCP-1-AD-BN J7G100000-513-IBLK 06/30/2007 10:36	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Comments:

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

J15JC1AA-SAMP Constituent List:
  H-3          RDL:1.00E+01    pCi/L     LCL:70       UCL:130      RPD:20
J2LCP1AA-BLK:
  H-3          RDL:1.00E+01    pCi/L     LCL:         UCL:         RPD:
J2LCP1AC-LCS:
  H-3          RDL:10          pCi/L     LCL:70       UCL:130      RPD:20
J2LCP1AD-IBLK:
  H-3          RDL:1.00E+01    pCi/L     LCL:         UCL:         RPD:

J15JC1AA-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J2LCP1AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J2LCP1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J2LCP1AD-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ _____ _____ Date: _____

57

8/9/2007 12:30:01 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: _____

AnalyDueDate: 08/17/2007 W05197

Sep1 DT/Tm Tech:

Batch: 7191489 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 J14HX-1-AD J7F290306-1-SAMP 06/28/2007 13:51			126.00g,in	126.00g		60				
	AmtRec: 20ML,500ML,3XLP,2X4LP		#Containers: 7				Scr:	Alpha: -9.60E-04 uCi/Sa		Beta: 1.72E-03 uCi/Sa
2 J15H8-1-AE J7F290452-3-SAMP 06/29/2007 08:59			127.20g,in	127.20g						
	AmtRec: 20ML,250ML,2X500ML,LP		#Containers: 5				Scr:	Alpha: 2.34E-05 uCi/Sa		Beta: 4.10E-04 uCi/Sa
3 J15JA-1-AE J7F290452-4-SAMP 06/29/2007 08:59			125.30g,in	125.30g						
	AmtRec: 20ML,250ML,2X500ML,LP		#Containers: 5				Scr:	Alpha: -1.69E-04 uCi/Sa		Beta: 7.24E-04 uCi/Sa
4 J2DK2-1-AA J7G050222-1-SAMP 07/02/2007 14:14			126.20g,in	126.20g						
	AmtRec: 20ML,500MLP		#Containers: 2				Scr:	Alpha: 1.08E-04 uCi/Sa		Beta: -3.08E-05 uCi/Sa
5 J2DK2-1-AC-X J7G050222-1-DUP 07/02/2007 14:14			124.30g,in	124.30g						
	AmtRec: 20ML,500MLP		#Containers: 2				Scr:	Alpha: 1.08E-04 uCi/Sa		Beta: -3.08E-05 uCi/Sa
6 J2DMJ-1-AA J7G050222-2-SAMP 07/02/2007 12:03			126.30g,in	126.30g						
	AmtRec: 20ML,500MLP		#Containers: 2				Scr:	Alpha: 1.04E-05 uCi/Sa		Beta: 1.27E-05 uCi/Sa
7 J2DMJ-1-AC-S J7G050222-2-MS 07/02/2007 12:03			126.00g,in	126.00g	TCSG1861 07/17/07,pd 01/10/06,r					
	AmtRec: 20ML,500MLP		#Containers: 2				Scr:	Alpha: 1.04E-05 uCi/Sa		Beta: 1.27E-05 uCi/Sa

STL Richland
Richland Wa.

Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2
pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

ISV - Insufficient Volume for Analysis

WO Cnt: 7
Prep_SamplePrep v4.8.26

TAT. RICHLAND

158

8/9/2007 12:30:04 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: _____

AnalyDueDate: 08/17/2007

Batch: 7191489 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

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

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 J2DMK-1-AA J7G050222-3-SAMP 07/02/2007 13:14			126.50g,in	126.50g		60				
			AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: 1.44E-05 uCi/Sa		Beta: 2.90E-05 uCi/Sa
9 J2DMN-1-AD J7G050229-2-SAMP 06/30/2007 11:49			124.30g,in	124.30g						
			AmtRec: 20ML,500ML,3X4LP	#Containers: 5			Scr:	Alpha: 2.92E-03 uCi/Sa		Beta: -3.21E-03 uCi/Sa
10 J2K9L-1-AA-B J7G100000-489-BLK 07/02/2007 14:14			125.20g,in	125.20g						
			AmtRec:	#Containers: 1			Scr:	Alpha:		Beta:
11 J2K9L-1-AC-C J7G100000-489-LCS 07/02/2007 14:14			127.40g,in	127.40g	TCSE2145 07/17/07,pd 01/10/06,r					
			AmtRec:	#Containers: 1			Scr:	Alpha:		Beta:
12 J2K9L-1-AD-BN J7G100000-489-IBLK 07/02/2007 14:14										
			AmtRec:	#Containers: 1			Scr:	Alpha:		Beta:

Comments: J14HX-SAMP "Comments. "
J2DMN-SAMP Comments. PH<2.0 8-9-07

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

TAL, RICHLAND

8/9/2007 12:30:06 PM

Sample Preparation/Analysis

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

AnalyDueDate: 08/17/2007

Batch: 7191489 pCi/L
SEQ Batch, Test: None

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

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

```
J14HX1AD-SAMP Constituent List:
  Tc-99        RDL:15          pCi/L     LCL:70       UCL:130      RPD:20
J2DMJ1AC-MS:

J2K9L1AA-BLK:
  Tc-99        RDL:15          pCi/L     LCL:         UCL:         RPD:
J2K9L1AC-LCS:
  Tc-99        RDL:15          pCi/L     LCL:70       UCL:130      RPD:20
J2K9L1AD-IBLK:
  Tc-99        RDL:15          pCi/L     LCL:         UCL:         RPD:
J14HX1AD-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J2DMJ1AC-MS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J2K9L1AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J2K9L1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J2K9L1AD-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

7/11/2007 8:38:42 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 08/17/2007 W05197

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 7-11-07 0700
Sep2 DT/Tm Tech:
Prep Tech:

Batch: 7191510 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J15H5-1-AA J7F290452-2-SAMP 06/29/2007 10:00	AmtRec: 20ML,250ML,500ML,LP	#Containers: 4				Scr:	Alpha: 1.09E-04 uCi/Sa	Beta: 2.24E-04 uCi/Sa
2 J15H5-1-AJ-X J7F290452-2-DUP 06/29/2007 10:00	AmtRec: 20ML,250ML,500ML,LP	#Containers: 4				Scr:	Alpha: 1.09E-04 uCi/Sa	Beta: 2.24E-04 uCi/Sa
3 J15H8-1-AA J7F290452-3-SAMP 06/29/2007 08:59	AmtRec: 20ML,250ML,2X500ML,LP	#Containers: 5				Scr:	Alpha: 2.34E-05 uCi/Sa	Beta: 4.10E-04 uCi/Sa
4 J15JA-1-AA J7F290452-4-SAMP 06/29/2007 08:59	AmtRec: 20ML,250ML,2X500ML,LP	#Containers: 5				Scr:	Alpha: -1.69E-04 uCi/Sa	Beta: 7.24E-04 uCi/Sa
5 J2LCG-1-AA-B J7G100000-510-BLK 06/29/2007 10:00	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
6 J2LCG-1-AC-C J7G100000-510-LCS 06/29/2007 10:00	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
7 J2LCG-1-AD-BX J7G100000-510-MBLK 06/29/2007 10:00	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

TAL RICHLAND
161

7/11/2007 8:38:44 AM

Sample Preparation/Analysis

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

AnalyDueDate: 08/17/2007

Batch: 7191510 pCi/L
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 7-11-07 [illegible]
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 J2LCG-1-AE-CM J7G100000-510-MLCS 06/29/2007 10:00	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
9 J2LCG-1-AF-BN J7G100000-510-IBLK 06/29/2007 10:00	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
10 J2LCG-1-AG-BN J7G100000-510-IBLK 06/29/2007 10:00	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Comments:

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

J15H51AA-SAMP Constituent List:

H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20
J2LCG1AA-BLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:
J2LCG1AC-LCS:					
H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20
J2LCG1AD-MBLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:
J2LCG1AE-MLCS:					
H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20
J2LCG1AF-IBLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:
J2LCG1AG-IBLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:

TAL RICHLAND

7/11/2007 8:38:45 AM

Sample Preparation/Analysis

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

AnalyDueDate: 08/17/2007

Batch: 7191510 pCi/L
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 7-11-07 [illegible]
Sep2 DT/Tm Tech:
Prep Tech:

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

```
J15H51AA-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J2LCG1AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J2LCG1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J2LCG1AD-MBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J2LCG1AE-MLCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J2LCG1AF-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J2LCG1AG-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

TAL RICHLAND

8/7/2007 1:55:12 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 08/17/2007 W051917

Sep1 DT/Tm Tech:

Batch: 7191502 WATER ug/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J15H2-1-AD J7F290452-1-SAMP 06/29/2007 13:47		25.60g,in AmtRec: 20ML,500ML,LP	#Containers: 3			Scr:	Alpha: -3.30E-05 uCi/Sa	Beta: 2.73E-04 uCi/Sa
2 J15H2-1-AE-X J7F290452-1-DUP 06/29/2007 13:47		25.80g,in AmtRec: 20ML,500ML,LP	#Containers: 3			Scr:	Alpha: -3.30E-05 uCi/Sa	Beta: 2.73E-04 uCi/Sa
3 J15H5-1-AE J7F290452-2-SAMP 06/29/2007 10:00		25.40g,in AmtRec: 20ML,250ML,500ML,LP	#Containers: 4			Scr:	Alpha: 1.09E-04 uCi/Sa	Beta: 2.24E-04 uCi/Sa
4 J15H5-1-AG-S J7F290452-2-MS 06/29/2007 10:00		26.20g,in AmtRec: 20ML,250ML,500ML,LP	unsf3863 08/01/07,pd 01/23/07,r #Containers: 4			Scr:	Alpha: 1.09E-04 uCi/Sa	Beta: 2.24E-04 uCi/Sa
5 J15H8-1-AF J7F290452-3-SAMP 06/29/2007 08:59		24.90g,in AmtRec: 20ML,250ML,2X500ML,LP	#Containers: 5			Scr:	Alpha: 2.34E-05 uCi/Sa	Beta: 4.10E-04 uCi/Sa
6 J15JA-1-AF J7F290452-4-SAMP 06/29/2007 08:59		26.30g,in AmtRec: 20ML,250ML,2X500ML,LP	#Containers: 5			Scr:	Alpha: -1.69E-04 uCi/Sa	Beta: 7.24E-04 uCi/Sa
7 J2LA7-1-AA-B J7G100000-502-BLK 06/29/2007 13:47		25.00g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

8/7/2007 1:55:15 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: ,BockJ

AnalyDueDate: 08/17/2007

Batch: 7191502 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:
8 J2LA7-1-AC-C J7G100000-502-LCS 06/29/2007 13:47		25.00g,in AmtRec:	unsf3864 08/01/07,pd 01/23/07,r #Containers: 1			Scr:	Alpha:	Beta:
9 J2LA7-1-AD-C J7G100000-502-LCS 06/29/2007 13:47		25.80g,in AmtRec:	unsc1812 08/01/07,pd 04/28/06,r #Containers: 1			Scr:	Alpha:	Beta:

Comments: PH < 2.0 JB 8-7-07

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

J15H21AD-SAMP Constituent List:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
J15H51AG-MS:

J2LA71AA-BLK:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
J2LA71AC-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20
J2LA71AD-LCS:
Uranium RDL: pCi/L LCL:70 UCL:130 RPD:20

J15H21AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J15H51AG-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J2LA71AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J2LA71AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J2LA71AD-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

8/7/2007 1:55:16 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 08/17/2007

Sep1 DT/Tm Tech:

Batch: 7191502 ug/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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

Approved By _____ Date: _____

8/22/2007 8:29:48 AM

ICOC Fraction Transfer/Status Report

ByDate: 8/22/2006, 8/27/2007, Batch: '7228469', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7228469						
AC		CalcC	BockJ	8/16/2007 3:10:24 PM		
SC			nortonj	IsBatched	8/16/2007 2:39:44 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	8/16/2007 3:10:24 PM	RICH-RC-5017 Revision 6
SC			BockJ	Prep1C	8/16/2007 3:17:55 PM	RICH-RC-5016 REVISION 7
SC			FABREM	Sep1C	8/20/2007 6:24:18 PM	RICH-RC-5010 REVISION 5
SC			HarveyK	Sep2C	8/21/2007 4:22:03 PM	RICH-RC-5039 REV5
SC			AshworthA	Sep2C	8/21/2007 4:23:05 PM	RICH-RC-5039 REV5
SC			DAWKINSO	InCnt1	8/21/2007 5:14:40 PM	RICH-RD-0008 REVISION 4
SC			DAWKINSO	CalcC	8/21/2007 9:18:35 PM	RICH-RD-0008 REVISION 4
AC			BockJ	8/16/2007 3:17:55 PM		
AC			FABREM	8/20/2007 6:24:18 PM		
AC			HarveyK	8/21/2007 4:22:03 PM		
AC			AshworthA	8/21/2007 4:23:05 PM		
AC			DAWKINSO	8/21/2007 5:14:40 PM		
AC			DAWKINSO	8/21/2007 9:18:35 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.27

8/22/2007 8:26:03 AM

ICOC Fraction Transfer/Status Report

ByDate: 8/22/2006, 8/27/2007, Batch: '7191486', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7191486						
AC		CalcC	BockJ	8/8/2007 1:38:06 PM		
SC			wagarr	IsBatched	7/10/2007 4:38:17 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	8/8/2007 1:38:06 PM	RICH-RC-5016 Revision 7
SC			BockJ	Prep1C	8/8/2007 1:45:44 PM	RICH-RC-5016 REVISION 7
SC			FABREM	Sep1C	8/9/2007 6:01:21 PM	RICH-RC-5010 REVISION 5
SC			HarveyK	Sep2C	8/10/2007 7:42:15 PM	RICH-RC-5039 REV5
SC			StringerR	InCnt1	8/10/2007 8:02:14 PM	RICH-RD-0008 REVISION 4
SC			BlackCL	CalcC	8/13/2007 8:01:23 AM	RICH-RD-0008 REVISION 4
SC			BlackCL	InCnt1	8/14/2007 11:59:13 AM	RICH-RD-0008 REVISION 4
SC			DAWKINSO	CalcC	8/14/2007 8:21:24 PM	RICH-RD-0008 REVISION 4
AC			BockJ	8/8/2007 1:45:44 PM		
AC			FABREM	8/9/2007 6:01:21 PM		
AC			HarveyK	8/10/2007 7:42:15 PM		
AC			StringerR	8/10/2007 8:02:14 PM		
AC			BlackCL	8/13/2007 8:01:23		
AC			BlackCL	8/14/2007 11:59:13		
AC			DAWKINSO	8/14/2007 8:21:24 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 8

ICOCFractions v4.8.27

8/16/2007 9:49:09 AM

ICOC Fraction Transfer/Status Report

ByDate: 8/16/2006, 8/21/2007, Batch: '7191487', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7191487						
AC		CalcC	BockJ	8/8/2007 12:55:53 PM		
SC			wagarr	IsBatched	7/10/2007 4:38:17 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	8/8/2007 12:55:53 PM	RICH-RC-5016 Revision 7
SC			BockJ	Prep1C	8/8/2007 1:35:57 PM	RICH-RC-5016 REVISION 7
SC			HarveyK	Sep1C	8/15/2007 8:42:58 AM	RICH-RC-5072 REV6
SC			FABREM	Sep2C	8/15/2007 11:27:40 AM	RICH-RC-5003 REVISION 7
SC			BlackCL	InCnt1	8/15/2007 11:50:08 AM	RICH-RD-0008 REVISION 4
SC			DAWKINSO	CalcC	8/15/2007 9:49:05 PM	RICH-RD-0008 REVISION 4
AC			BockJ	8/8/2007 1:35:57 PM		
AC			HarveyK	8/15/2007 8:42:58		
AC			FABREM	8/15/2007 11:27:40		
AC			BlackCL	8/15/2007 11:50:08		
AC			DAWKINSO	8/15/2007 9:49:05 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt:6

ICOCFractions v4.8.27

8/20/2007 3:26:25 PM

ICOC Fraction Transfer/Status Report

ByDate: 8/20/2006, 8/25/2007, Batch: '7191501', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7191501						
AC		CalcC	BockJ	8/9/2007 10:46:21		
SC			wagarr	IsBatched	7/10/2007 4:38:17 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	8/9/2007 10:46:21 AM	RICH-RC-5014 Revision 7
SC			BockJ	Prep1C	8/9/2007 10:51:25 AM	RICH-RC-5016 REVISION 7
SC			FABREM	Sep2C	8/15/2007 9:39:58 AM	RICH-RC-5003 REVISION 7
SC			BlackCL	InCnt1	8/15/2007 9:44:10 AM	RICH-RD-0008 REVISION 4
SC			DAWKINSO	CalcC	8/15/2007 6:41:20 PM	RICH-RD-0008 REVISION 4
SC			BlackCL	InCnt1	8/16/2007 9:57:03 AM	RICH-RD-0008 REVISION 4
SC			BlackCL	CalcC	8/16/2007 1:09:42 PM	RICH-RD-0008 REVISION 4
AC			BockJ	8/9/2007 10:51:25		
AC			FABREM	8/15/2007 9:39:58		
AC			BlackCL	8/15/2007 9:44:10		
AC			DAWKINSO	8/15/2007 6:41:20 PM		
AC			BlackCL	8/16/2007 9:57:03		
AC			BlackCL	8/16/2007 1:09:42 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.27

8/16/2007 7:34:10 AM

ICOC Fraction Transfer/Status Report

ByDate: 8/16/2006, 8/21/2007, Batch: '7191507', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7191507						
AC		CalcC	BockJ	8/9/2007 12:58:30 PM		
SC			wagarr	IsBatched	7/10/2007 4:38:17 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	8/9/2007 12:58:30 PM	RICH-RC-5016 Revision 7
SC			BockJ	Prep1C	8/9/2007 1:02:03 PM	RICH-RC-5014 REVISION 7
SC			AshworthA	InPrep2	8/14/2007 8:44:58 AM	RICH-RC-5014 REVISION 7
SC			HARBINSOND	InPrep	8/14/2007 5:11:23 PM	RICHRC5014 REV6
SC			HARBINSOND	Prep1C	8/14/2007 5:11:41 PM	RICHRC5014 REV6
SC			DAWKINSO	InCnt1	8/14/2007 6:34:19 PM	RICH-RD-0003 REVISION 5
SC			BlackCL	CalcC	8/15/2007 9:18:16 AM	RICH-RD-0007 REVISION 6
AC			BockJ	8/9/2007 1:02:03 PM		
AC			AshworthA	8/14/2007 8:44:58		
AC			HARBINSOND	8/14/2007 5:11:23 PM		
AC			HARBINSOND	8/14/2007 5:11:41 PM		
AC			DAWKINSO	8/14/2007 6:34:19 PM		
AC			BlackCL	8/15/2007 9:18:16		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.27

8/16/2007 7:36:30 AM

ICOC Fraction Transfer/Status Report

ByDate: 8/16/2006, 8/21/2007, Batch: '7191508', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7191508						
AC		CalcC	BockJ	8/9/2007 12:54:54 PM		
SC			wagarr	IsBatched	7/10/2007 4:38:17 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	8/9/2007 12:54:54 PM	RICH-RC-5016 Revision 7
SC			BockJ	Prep1C	8/9/2007 12:58:14 PM	RICH-RC-5014 REVISION 7
SC			AshworthA	InPrep2	8/14/2007 8:45:04 AM	RICH-RC-5014 REVISION 7
SC			HARBINSOND	InPrep	8/14/2007 5:10:48 PM	RICHRC5014 REV6
SC			HARBINSOND	Prep1C	8/14/2007 5:12:15 PM	RICHRC5014 REV6
SC			DAWKINSO	InCnt1	8/14/2007 6:34:14 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	8/14/2007 8:58:53 PM	RICH-RD-0003 REVISION 5
AC			BockJ	8/9/2007 12:58:14 PM		
AC			AshworthA	8/14/2007 8:45:04		
AC			HARBINSOND	8/14/2007 5:10:48 PM		
AC			HARBINSOND	8/14/2007 5:12:15 PM		
AC			DAWKINSO	8/14/2007 6:34:14 PM		
AC			DAWKINSO	8/14/2007 8:58:53 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.27

8/22/2007 10:16:00 AM

ICOC Fraction Transfer/Status Report

ByDate: 8/22/2006, 8/27/2007, Batch: '7191506', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7191506						
AC		CalcC	BockJ	8/8/2007 8:38:37 AM		
SC			wagarr	IsBatched	7/10/2007 4:38:17 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	8/8/2007 8:38:37 AM	RICH-RC-5016 Revision 7
SC			BockJ	Prep1C	8/8/2007 8:49:38 AM	RICH-RC-5016 REVISION 7
SC			ManisD	InSep1	8/8/2007 9:04:45 AM	RICH-RC-5006 REVISION 7
SC			ManisD	Sep1C	8/13/2007 6:09:56 PM	RICH-RC-5006 REVISION 7
SC			DAWKINSO	InCnt1	8/13/2007 6:20:06 PM	RICH-RD-0007 REVISION 6
SC			BlackCL	Cnt1C	8/14/2007 9:27:57 AM	RICH-RD-0007 REVISION 6
SC			ManisD	InSep2	8/17/2007 9:37:45 AM	RICH-RC-5071 REVISION 5
SC			ManisD	Sep2C	8/20/2007 4:59:35 PM	RICH-RC-5071 REVISION 5
SC			BlackCL	CalcC	8/22/2007 9:13:18 AM	RICH-RD-0003 REVISION 5
AC			BockJ	8/8/2007 8:49:38 AM		
AC			ManisD	8/8/2007 9:04:45 AM		
AC			ManisD	8/13/2007 6:09:56 PM		
AC			DAWKINSO	8/13/2007 6:20:06 PM		
AC			BlackCL	8/14/2007 9:27:57		
AC			ManisD	8/17/2007 9:37:45		
AC			ManisD	8/17/2007 9:37:51		
AC			ManisD	8/20/2007 4:59:35 PM		
AC			BlackCL	8/22/2007 9:13:18		

AC: Accepting Entry; SC: Status Change

9/6/2007 2:00:18 PM

ICOC Fraction Transfer/Status Report

ByDate: 9/6/2006, 9/11/2007, Batch: '7191504', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7191504						
AC		CalcC	BockJ	8/9/2007 8:58:17 AM		
SC			wagarr	IsBatched	7/10/2007 4:38:17 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	8/9/2007 8:58:17 AM	RICH-RC-5014 Revision 7
SC			BockJ	Prep1C	8/9/2007 9:03:34 AM	RICH-RC-5017 REVISION 6
SC			AshworthA	InPrep2	8/14/2007 9:19:25 AM	RICH-RC-5017 REVISION 6
SC			AshworthA	Prep2C	8/15/2007 11:26:13 AM	RICH-RC-5017 REVISION 6
SC			BlackCL	InCnt1	8/15/2007 11:36:20 AM	RICH-RD-0007 REVISION 6
SC			StringerR	CalcC	8/16/2007 8:46:49 AM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	InCnt1	8/17/2007 5:58:45 PM	RICH-RD-0007 REVISION 6
SC			StringerR	CalcC	8/18/2007 11:47:44 AM	RICH-RD-0007 REVISION 6
SC			StringerR	InCnt1	8/22/2007 1:09:34 PM	RICH-RD-0007 REVISION 6
SC			StringerR	CalcC	8/22/2007 3:05:49 PM	RICH-RD-0007 REVISION 6
SC			StringerR	InCnt1	8/24/2007 1:30:42 PM	RICH-RD-0007 REVISION 6
SC			BlackCL	InCnt1	9/5/2007 8:13:53 AM	RICH-RD-0007 REVISION 6
SC			StringerR	CalcC	9/6/2007 11:02:10 AM	RICH-RD-0007 REVISION 6
AC			BockJ	8/9/2007 9:03:34 AM		
AC			AshworthA	8/14/2007 9:19:25		
AC			AshworthA	8/15/2007 11:26:13		
AC			BlackCL	8/15/2007 11:36:20		
AC			StringerR	8/16/2007 8:46:49		
AC			DAWKINSO	8/17/2007 5:58:45 PM		
AC			StringerR	8/18/2007 11:47:44		
AC			StringerR	8/22/2007 1:09:34 PM		
AC			StringerR	8/22/2007 3:05:49 PM		
AC			StringerR	8/24/2007 1:30:42 PM		
AC			BlackCL	9/5/2007 8:13:53 AM		
AC			StringerR	9/6/2007 11:02:10		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 13

ICOCFractions v4.8.27

8/16/2007 11:31:16 AM

ICOC Fraction Transfer/Status Report

ByDate: 8/16/2006, 8/21/2007, Batch: '7191503', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7191503						
AC		CalcC	BockJ	8/9/2007 8:38:48 AM		
SC			wagarr	IsBatched	7/10/2007 4:38:17 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	8/9/2007 8:38:48 AM	RICH-RC-5014 Revision 7
SC			BockJ	Prep1C	8/9/2007 9:46:34 AM	RICH-RC-5017 REVISION 6
SC			AshworthA	InPrep2	8/13/2007 12:38:10 PM	RICH-RC-5017 REVISION 6
SC			AshworthA	Prep2C	8/14/2007 6:06:23 PM	RICH-RC-5017 REVISION 6
SC			DAWKINSO	InCnt1	8/14/2007 7:46:07 PM	RICH-RD-0007 REVISION 6
SC			BlackCL	CalcC	8/15/2007 9:18:07 AM	RICH-RD-0007 REVISION 6
AC			BockJ	8/9/2007 9:46:34 AM		
AC			AshworthA	8/13/2007 12:38:10		
AC			AshworthA	8/14/2007 6:06:23 PM		
AC			DAWKINSO	8/14/2007 7:46:07 PM		
AC			BlackCL	8/15/2007 9:18:07		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.27

8/20/2007 10:56:53 AM

ICOC Fraction Transfer/Status Report

ByDate: 8/20/2006, 8/25/2007, Batch: '7191505', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7191505						
AC		CalcC	BockJ	8/9/2007 11:48:01		
SC			wagarr	IsBatched	7/10/2007 4:38:17 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	8/9/2007 11:48:01 AM	RICH-RC-5014 Revision 7
SC			BockJ	Prep1C	8/9/2007 2:06:12 PM	RICH-RC-5017 REVISION 6
SC			BostedD	InPrep2	8/13/2007 10:04:50 AM	RICHRC5025 REVISION 4
SC			BostedD	Prep2C	8/16/2007 1:36:28 PM	RICHRC5025 REVISION 4
SC			StringerR	InCnt1	8/16/2007 1:44:41 PM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	CalcC	8/16/2007 8:55:18 PM	RICH-RD-0007 REVISION 6
AC			BockJ	8/9/2007 2:06:12 PM		
AC			BostedD	8/13/2007 10:04:50		
AC			BostedD	8/16/2007 1:36:28 PM		
AC			StringerR	8/16/2007 1:44:41 PM		
AC			DAWKINSO	8/16/2007 8:55:18 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.27

8/22/2007 2:47:43 PM

ICOC Fraction Transfer/Status Report

ByDate: 8/22/2006, 8/27/2007, Batch: '7191513', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7191513						
AC		Rev1C	McDowellD	8/10/2007 8:42:30		
SC			wagarr	IsBatched	7/10/2007 4:38:17 PM	ICOC_RADCALC v4.8.26
SC			McDowellD	InSep1	8/10/2007 8:42:30 AM	RICH-RC-5024 REVISION 2
SC			McDowellD	Sep1C	8/21/2007 2:21:47 PM	RICH-RC-5024 REVISION 2
SC			DAWKINSO	InCnt1	8/21/2007 2:58:50 PM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	InCnt1	8/21/2007 3:00:00 PM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	8/22/2007 9:56:52 AM	RICH-RD-0001 REVISION 4
SC			NortonJ	Rev1C	8/22/2007 2:34:43 PM	RICHRC0002 REV8
AC			McDowellD	8/21/2007 2:21:47 PM		
AC			DAWKINSO	8/21/2007 2:58:50 PM		
AC			DAWKINSO	8/21/2007 3:00:00 PM		
AC			BlackCL	8/22/2007 9:56:52		
AC			NortonJ	8/22/2007 2:34:43 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.27

8/16/2007 3:15:42 PM

ICOC Fraction Transfer/Status Report

ByDate: 8/16/2006, 8/21/2007, Batch: '7191489', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7191489						
AC		CalcC	BockJ	8/9/2007 12:21:03 PM		
SC			wagarr	IsBatched	7/10/2007 4:38:17 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	8/9/2007 12:21:03 PM	RICH-RC-5016 Revision 7
SC			BockJ	Prep1C	8/9/2007 12:30:04 PM	RICH-RC-5016 REVISION 7
SC			FABREM	Sep1C	8/13/2007 6:26:58 PM	RICH-RC-5065 REVISION 6
SC			DAWKINSO	InCnt1	8/13/2007 7:17:13 PM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	8/15/2007 8:12:26 AM	RICH-RD-0001 REVISION 4
AC			BockJ	8/9/2007 12:30:04 PM		
AC			FABREM	8/13/2007 6:26:58 PM		
AC			DAWKINSO	8/13/2007 7:17:13 PM		
AC			BlackCL	8/15/2007 8:12:26		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.27

7/16/2007 12:50:40 PM

ICOC Fraction Transfer/Status Report

ByDate: 7/16/2006, 7/21/2007, Batch: '7191510', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7191510						
AC		**CalcC**	**McDowellD**	7/11/2007 11:30:12		
SC			wagarr	IsBatched	7/11/2007 8:38:12 AM	ICOC_RADCALC v4.8.26
SC			McDowellD	InSep1	7/11/2007 11:30:12 AM	RICH-RC-5007 REVISION 6
SC			McDowellD	Sep1C	7/12/2007 4:16:00 PM	RICH-RC-5007 REVISION 6
SC			DAWKINSO	InCnt1	7/12/2007 4:57:24 PM	RICH-RD-0001 REVISION 4
SC			StringerR	CalcC	7/14/2007 10:44:00 AM	RICH-RD-0001 REVISION 4
AC			**McDowellD**	7/12/2007 4:16:00 PM		
AC			**DAWKINSO**	7/12/2007 4:57:24 PM		
AC			**StringerR**	7/14/2007 10:44:00		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.27

8/20/2007 5:02:14 PM

ICOC Fraction Transfer/Status Report

ByDate: 8/20/2006, 8/25/2007, Batch: '7191502', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7191502						
AC		Cnt1C	BockJ	8/7/2007 1:49:44 PM		
SC			wagarr	IsBatched	7/10/2007 4:38:17 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	8/7/2007 1:49:44 PM	rich-rc-5016 rEVISION 7
SC			BockJ	Prep1C	8/7/2007 1:55:16 PM	RICH-RC-5015 REVISION 6
SC			AshworthA	InPrep2	8/15/2007 10:51:32 AM	RICH-RC-5015 REVISION 6
SC			AshworthA	Prep2C	8/16/2007 1:11:26 PM	RICH-RC-5015 REVISION 6
SC			NelsonT	Cnt1C	8/16/2007 2:24:58 PM	RICH-RC-5058 REV 7
AC			BockJ	8/7/2007 1:55:16 PM		
AC			AshworthA	8/15/2007 10:51:32		
AC			AshworthA	8/16/2007 1:11:26 PM		
AC			NelsonT	8/16/2007 2:24:58 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt:5

ICOCFractions v4.8.27