Analytical Data Package Prepared For

Fluor Hanford

RECEIVED
MAY 2 2 2008
EDMC

Radiochemical Analysis By

TAL Richland TARL

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

Data Package Contains _____ Pages

Report Nbr: 37631

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05245	I08-002	B1PTL1	J7J050345-1	J8D2E1AA	9J8D2E10	7278533
		B1PTL1	J7J050345-1	J8D2E1AC	9J8D2E10	7283578
		B1PTL1	J7J050345-1	J8D2E1AD	9J8D2E10	7283572
		B1PTL1	J7J050345-1	J8D2E1AE	9J8D2E10	7283574
		B1PTL1	J7J050345-1	J8D2E1AF	9J8D2E10	7283571
		B1PTL1	J7J050345-1	J8D2E1AG	9J8D2E10	7283577
		B1PTL3	J7J050345-2	J8D2N1AA	9J8D2N10	7283576
		B1PTL4	J7J050345-3	J8D2W1AA	9J8D2W10	7283576
		B1PTM4	J7J050345-4	J8D201AA	9J8D2010	7283576
		B1PTL8	J7J050345-5	J8D221AA	9J8D2210	7283576
		B1PTL9	J7J050345-6	J8D231AA	9J8D2310	7283576
	S08-010	B1PVX9	J7J050365-1	J8D6C1AA	9J8D6C10	7283572
		B1PVX9	J7J050365-1	J8D6C1AC	9J8D6C10	7283574
		B1PVX9	J7J050365-1	J8D6C1AD	9J8D6C10	7283571
		B1PVX9	J7J050365-1	J8D6C1AE	9J8D6C10	7283576

RECEIVED
NOV 3 0 2007

Comments:

0077538

Report Nbr: 37631

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05245	G08-010	B1PPN6	J7J050367-1	J8D6N1AA	9J8D6N10	7283574
		B1PPM6	J7J050367-2	J8D7V1AA	9J8D7V10	7283574
		B1PPM4	J7J050367-3	J8D7W1AA	9J8D7W10	7283574
	I08-002	B1PTT1	J7J080130-1	J8FX21AA	9J8FX210	7283572
		B1PTT1	J7J080130-1	J8FX21AC	9J8FX210	7283574
		B1PTT1	J7J080130-1	J8FX21AD	9J8FX210	7283576
		B1PTT9	J7J080130-2	J8F0M1AA	9J8F0M10	7283572
		B1PTT9	J7J080130-2	J8F0M1AC	9J8F0M10	7283574
		B1PTT9	J7J080130-2	J8F0M1AD	9J8F0M10	7283576
		B1PTV0	J7J080130-3	J8F0T1AA	9J8F0T10	7283572
		B1PTV0	J7J080130-3	J8F0T1AC	9J8F0T10	7283574
		B1PTV0	J7J080130-3	J8F0T1AD	9J8F0T10	7283576
		B1PTN2	J7J080130-4	J8F001AC	9J8F0010	7283574
		B1PTN2	J7J080130-4	J8F001AD	9J8F0010	7283571
		B1PTN2	J7J080130-4	J8F002AA	9J8F0020	7327265
		B1PTP0	J7J080130-5	J8F1C1AA	9J8F1C10	7283572
		B1PTP0	J7J080130-5	J8F1C1AC	9J8F1C10	7283574
		B1PTP0	J7J080130-5	J8F1C1AD	9J8F1C10	7283571
		B1PTP0	J7J080130-5	J8F1C1AE	9J8F1C10	7283576
		B1PTR1	J7J080130-6	J8F1G1AA	9J8F1G10	7283576
		B1PTY6	J7J080130-7	J8F1K1AA	9J8F1K10	7283572
		B1PTY6	J7J080130-7	J8F1K1AC	9J8F1K10	7283574
	S08-010	B1PVF3	J7J090186-1	J8HT11AA	9J8HT110	7283572
		B1PVF3	J7J090186-1	J8HT11AC	9J8HT110	7283574
		B1PVF3	J7J090186-1	J8HT11AD	9J8HT110	7283576
		B1PVF7	J7J090186-2	J8HVF1AA	9J8HVF10	7283572

Comments:

Report Nbr: 37631

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05245	S08-010	B1PVF7	J7J090186-2	J8HVF1AC	9J8HVF10	7283574
		B1PVF7	J7J090186-2	J8HVF1AD	9J8HVF10	7283576
		B1PVH1	J7J090186-3	J8HVK1AA	9J8HVK10	7283572
		B1PVH1	J7J090186-3	J8HVK1AC	9J8HVK10	7283574
		B1PVH1	J7J090186-3	J8HVK1AD	9J8HVK10	7283576

Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

November 30, 2007

Attention: Steve Trent

SAF Number	:	I08-002, S08-010, G08-010
Date SDG Closed	:	October 8, 2007
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05245
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between October 5, 2007 and October 8, 2007 twenty water samples were received at TestAmerica Laboratories Richland (TALR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Fluor Hanford specific IDs:

PGW ID#	STLR ID#	DATE OF RECEIPT	MATRIX
B1PTL1	J8D2E	10/5/07	WATER
B1PYL3	J8D2N	10/5/07	WATER
B1PTL4	J8D2W	10/5/07	WATER
B1PTM4	J8D20	10/5/07	WATER
B1PTL8	J8D22	10/5/07	WATER
B1PTL9	J8D23	10/5/07	WATER
B1PVX9	J8D6C	10/5/07	WATER
B1PPN6	J8D6N	10/5/07	WATER
B1PPM6	J8D7V	10/5/07	WATER
B1PPM4	J8D7W	10/5/07	WATER
B1PTT1	J8FX2	10/5/07	WATER
B1PTT9	J8F0M	10/5/07	WATER
B1PTV0	J8F0T	10/5/07	WATER

B1PTN2	J8F00	10/5/07	WATER
B1PTP0	J8F1C	10/5/07	WATER
B1PTR1	J8F1G	10/5/07	WATER
B1PTY6	J8F1K	10/5/07	WATER
B1PVF3	J8HT1	10/8/07	WATER
B1PVF7	J8HVF	10/16/07	WATER
B1PVH1	J8HVK	10/16/07	WATER

II. Sample Receipt

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

III. Analytical Results/Methodology

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

The requested analyses were:

Gas Proportional Counting
Gross Alpha by method RICH-RC-5014
Gross Beta by method RICH-RC-5014
Strontium-90 by method RICH-RC-5006
Gamma Spectroscopy
Gamma Spec (LL) by method RICH-RC-5017
Liquid Scintillation Counting
Tritium by method RICH-RC-5007
Carbon-14 by method RICH-RC-5022
Chemical Analysis
Hexavalent Chromium by EPA method 7196A

IV. Quality Control

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

QC and sample results are reported in the same units

V. Comments

Gas Proportional Counting
Gross Alpha by method RICH-RC-5014:
The samples were analyzed in two batches: 7283572 and 7327265. In batch 7283572 a non-critical pipette was used during weight screening. The pipette was checked 10 times prior to use and passed

critical criteria. However, sample B1PTN2 failed due to high precipitate weight. It was reanalyzed in batch 7327265 with good results. Data is accepted. Except as noted, the LCS, batch blank, samples and sample duplicate (B1PVX9) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:
Samples B1PPN6, B1PPM6 and B1PTV0 did not meet CRDL due to reduced aliquot volumes based on elevated screen results. The activity detected is greater than the achieved MDA. Data is accepted. Except as noted, the LCS, batch blank, samples and sample duplicate (B1PTV0) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006
The LCS, batch blank, samples and sample duplicate (B1PVF3) results are within contractual requirements.

Gamma Spectroscopy
Gamma Spec (LL) by method RICH-RC-5017:
The LCS, batch blank, samples and sample duplicate (B1PTL1) results are within contractual requirements.

Liquid Scintillation Counting
Tritium by method RICH-RC-5007:
The LCS, batch blank, samples and sample duplicate (B1PTL1) results are within contractual requirements.

Carbon-14 by method RICH-RC-5022:
The LCS, batch blank, samples and sample duplicate (B1PVX9) results are within contractual requirements.

Chemical Analysis
Hexavalent Chromium by EPA method 7196A
The LCS, batch blank, samples, sample duplicate (B1PTL1), sample matrix spike (B1PTL1), and matrix spike duplicate results (B1PTL1) 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)/SCntMin) + 2.71/SCntMin) * (ConvFct/(Eff * Yld * Abn * Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the **Work Order** Number.
RER	The equation Replicate Error Ratio = (S-D)/[sqrt($TPUs^2$ + $TPUd^2$)] as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by STL Richland upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

11/30/2007 3:14:47 PM

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 37631 File Name: h:\Reportdb\edd\FeadIV\Rad\W05245.Edd, h:\Reportdb\edd\FeadIV\Rad\37631.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:
9J8D2010	B1PTM4		MW6-SBB-A1	I08-002	W05245					10/05/2007 10:35

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283576	SR-90	10098-97-2	1.70E-01	pCi/L	2.0E-01	2.0E-01	U	4.04E-01	82.6	SRISO_SEP_PRE	1.00E+00	L	11/21/2007 09:28	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J8D2210	B1PTL8		MW6-SBB-A1	I08-002	W05245					10/05/2007 11:23

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283576	SR-90	10098-97-2	4.92E-02	pCi/L	1.9E-01	2.3E-01	U	4.84E-01	73.3	SRISO_SEP_PRE	1.00E+00	L	11/21/2007 09:28	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J8D2310	B1PTL9		MW6-SBB-A1	I08-002	W05245					10/05/2007 11:23

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283576	SR-90	10098-97-2	1.38E-01	pCi/L	1.6E-01	2.1E-01	U	4.40E-01	75.1	SRISO_SEP_PRE	1.0001E+00	L	11/21/2007 09:28	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J8D2E10	B1PTL1		MW6-SBB-A1	I08-002	W05245					10/05/2007 09:24

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283578	H-3	10028-17-8	1.98E+02	pCi/L	1.4E+02	1.6E+02	U	3.18E+02	100.0	906.0_H3_LSC	5.00E-03	L	10/25/2007 20:22	I
7283572	ALPHA	12587-46-1	2.58E+00	pCi/L	1.2E+00	1.3E+00		1.17E+00	100.0	9310_ALPHABETA	1.417E-01	L	11/21/2007 18:05	I
7283574	BETA	12587-47-2	8.09E+00	pCi/L	2.4E+00	2.6E+00		3.91E+00	100.0	9310_ALPHABETA	1.32E-01	L	11/21/2007 14:31	I
7283571	C-14	14762-75-5	1.29E+03	pCi/L	1.8E+01	1.4E+02		8.77E+00	100.0	C14_LSC	2.00E-01	L	11/08/2007 18:37	I
7283577	BE-7	13966-02-4	1.93E+00	pCi/L	1.6E+01	1.6E+01	U	2.86E+01		GAMMA_GS	2.5016E+00	L	11/20/2007 09:25	I
7283577	CO-60	10198-40-0	8.02E-01	pCi/L	1.3E+00	1.3E+00	U	2.75E+00		GAMMA_GS	2.5016E+00	L	11/20/2007 09:25	I
7283577	CS-134	13967-70-9	5.98E-01	pCi/L	1.4E+00	1.4E+00	U	2.65E+00		GAMMA_GS	2.5016E+00	L	11/20/2007 09:25	I
7283577	CS-137	10045-97-3	-2.83E-01	pCi/L	1.3E+00	1.3E+00	U	2.34E+00		GAMMA_GS	2.5016E+00	L	11/20/2007 09:25	I
7283577	EU-152	14683-23-9	-1.59E+00	pCi/L	3.0E+00	3.0E+00	U	5.20E+00		GAMMA_GS	2.5016E+00	L	11/20/2007 09:25	I
7283577	EU-154	15585-10-1	-1.33E+00	pCi/L	4.4E+00	4.4E+00	U	7.64E+00		GAMMA_GS	2.5016E+00	L	11/20/2007 09:25	I
7283577	EU-155	14391-16-3	8.83E-01	pCi/L	2.7E+00	2.7E+00	U	4.78E+00		GAMMA_GS	2.5016E+00	L	11/20/2007 09:25	I
7283577	K-40	13966-00-2	-1.67E+01	pCi/L	3.2E+01	3.2E+01	U	6.67E+01		GAMMA_GS	2.5016E+00	L	11/20/2007 09:25	I
7283577	RU-106	13967-48-1	3.80E+00	pCi/L	1.3E+01	1.3E+01	U	2.29E+01		GAMMA_GS	2.5016E+00	L	11/20/2007 09:25	I
7283577	SB-125	14234-35-6	-1.40E+00	pCi/L	3.1E+00	3.1E+00	U	5.18E+00		GAMMA_GS	2.5016E+00	L	11/20/2007 09:25	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.

11/30/2007 3:14:47 PM

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 37631 File Name: h:\Reportdb\edd\FeadIV\Rad\W05245.Edd, h:\Reportdb\edd\FeadIV\Rad\37631.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:
9J8D2N10	B1PTL3		MW6-SBB-A1	I08-002	W05245					10/05/2007 12:49

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283576	SR-90	10098-97-2	1.88E+00	pCi/L	3.2E-01	4.2E-01		4.34E-01	81.3	SRISO_SEP_PRE	1.0001E+00	L	11/21/2007 09:28	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J8D2W10	B1PTL4		MW6-SBB-A1	I08-002	W05245					10/05/2007 12:49

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283576	SR-90	10098-97-2	1.55E+00	pCi/L	3.0E-01	3.8E-01		4.31E-01	79.7	SRISO_SEP_PRE	1.00E+00	L	11/21/2007 09:28	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J8D6C10	B1PVX9		MW6-SBB-A1	S08-010	W05245					10/05/2007 08:36

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283572	ALPHA	12587-46-1	2.30E+00	pCi/L	1.3E+00	1.4E+00		1.43E+00	100.0	9310_ALPHABETA	1.986E-01	L	11/21/2007 12:19	I
7283574	BETA	12587-47-2	5.38E+00	pCi/L	1.6E+00	1.7E+00		2.61E+00	100.0	9310_ALPHABETA	2.00E-01	L	11/21/2007 14:31	I
7283571	C-14	14762-75-5	2.31E+03	pCi/L	2.4E+01	2.5E+02		8.77E+00	100.0	C14_LSC	2.00E-01	L	11/08/2007 19:19	I
7283576	SR-90	10098-97-2	1.18E-02	pCi/L	5.5E-02	2.1E-01	U	4.83E-01	70.2	SRISO_SEP_PRE	1.0001E+00	L	11/21/2007 09:28	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J8D6N10	B1PPN6		MW6-SBB-A1	G08-010	W05245					10/05/2007

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283574	BETA	12587-47-2	1.44E+04	pCi/L	1.0E+02	1.8E+03		1.43E+01	100.0	9310_ALPHABETA	2.71E-02	L	11/21/2007 15:53	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:
9J8D7V10	B1PPM6		MW6-SBB-A1	G08-010	W05245					10/05/2007 11:59

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283574	BETA	12587-47-2	4.64E+03	pCi/L	3.4E+01	8.2E+02		4.41E+00	100.0	9310_ALPHABETA	8.20E-02	L	11/21/2007 15:53	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:
9J8D7W10	B1PPM4		MW6-SBB-A1	G08-010	W05245					10/05/2007 10:39

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283574	BETA	12587-47-2	4.55E+02	pCi/L	9.6E+00	5.7E+01		2.55E+00	100.0	9310_ALPHABETA	2.00E-01	L	11/21/2007 14:31	I

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

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: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 37631 File Name: h:\Reportdb\edd\FeadIV\Rad\W05245.Edd, h:\Reportdb\edd\FeadIV\Rad\37631.Edd

9J8F0010 B1PTN2 MW6-SBB-A1 I08-002 W05245 10/05/2007 11:39

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283574	BETA	12587-47-2	1.32E+01	pCi/L	2.7E+00	3.2E+00		4.16E+00	100.0	9310_ALPHABETA	9.26E-02	L	11/21/2007 15:53	I
7283571	C-14	14762-75-5	2.03E+03	pCi/L	2.3E+01	2.2E+02		8.78E+00	100.0	C14_LSC	2.00E-01	L	11/08/2007 20:44	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:
9J8F0020	B1PTN2		MW6-SBB-A1	I08-002	W05245					10/05/2007 11:39

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7327265	ALPHA	12587-46-1	2.41E+01	pCi/L	3.8E+00	6.7E+00		2.22E+00	100.0	9310_ALPHABETA	6.84E-02	L	11/29/2007 15:30	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J8F0M10	B1PTT9		MW6-SBB-A1	I08-002	W05245					10/05/2007 09:02

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283572	ALPHA	12587-46-1	3.52E+00	pCi/L	1.7E+00	1.9E+00		1.64E+00	100.0	9310_ALPHABETA	1.661E-01	L	11/21/2007 12:19	I
7283574	BETA	12587-47-2	2.62E+03	pCi/L	2.3E+01	3.3E+02		3.82E+00	100.0	9310_ALPHABETA	9.91E-02	L	11/21/2007 15:53	I
7283576	SR-90	10098-97-2	1.61E+03	pCi/L	9.8E+00	2.3E+02		7.11E-01	74.3	SRISO_SEP_PRE	1.00E+00	L	11/21/2007 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:
9J8F0T10	B1PTV0		MW6-SBB-A1	I08-002	W05245					10/05/2007 09:02

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283572	ALPHA	12587-46-1	2.79E+00	pCi/L	1.4E+00	1.5E+00		1.26E+00	100.0	9310_ALPHABETA	1.717E-01	L	11/21/2007 12:19	I
7283574	BETA	12587-47-2	2.98E+03	pCi/L	3.1E+01	3.7E+02		4.15E+00	100.0	9310_ALPHABETA	1.407E-01	L	11/21/2007 15:03	I
7283576	SR-90	10098-97-2	1.40E+03	pCi/L	8.1E+00	2.0E+02		5.03E-01	79.1	SRISO_SEP_PRE	1.00E+00	L	11/21/2007 08:35	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:
9J8F1C10	B1PTP0		MW6-SBB-A1	I08-002	W05245					10/05/2007 11:19

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283572	ALPHA	12587-46-1	2.35E+00	pCi/L	1.5E+00	1.6E+00		1.71E+00	100.0	9310_ALPHABETA	1.706E-01	L	11/21/2007 13:24	I
7283574	BETA	12587-47-2	1.65E+01	pCi/L	2.3E+00	3.1E+00		2.96E+00	100.0	9310_ALPHABETA	2.009E-01	L	11/21/2007 15:03	I
7283571	C-14	14762-75-5	9.24E+02	pCi/L	1.5E+01	1.1E+02		8.77E+00	100.0	C14_LSC	2.00E-01	L	11/08/2007 21:26	I
7283576	SR-90	10098-97-2	2.48E+00	pCi/L	3.7E-01	5.2E-01		4.04E-01	72.4	SRISO_SEP_PRE	1.00E+00	L	11/21/2007 09:28	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J8F1G10	B1PTR1		MW6-SBB-A1	I08-002	W05245					10/05/2007 09:45

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

11/30/2007 3:14:47 PM

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 37631 File Name: h:\Reportdb\edd\FeadIV\Rad\W05245.Edd, h:\Reportdb\edd\FeadIV\Rad\37631.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283576	SR-90	10098-97-2	6.05E+00	pCi/L	5.3E-01	1.0E+00		3.70E-01	76.2	SRISO_SEP_PRE	1.00E+00	L	11/21/2007 09:23	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J8F1K10	B1PTY6		MW6-SBB-A1	I08-002	W05245					10/05/2007 09:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283572	ALPHA	12587-46-1	1.31E+00	pCi/L	9.8E-01	1.0E+00	U	1.42E+00	100.0	9310_ALPHABETA	1.969E-01	L	11/21/2007 13:24	I
7283574	BETA	12587-47-2	1.47E+01	pCi/L	2.2E+00	2.9E+00		2.76E+00	100.0	9310_ALPHABETA	2.004E-01	L	11/21/2007 15:03	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J8FX210	B1PTT1		MW6-SBB-A1	I08-002	W05245					10/05/2007 08:15

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283572	ALPHA	12587-46-1	3.47E-01	pCi/L	5.1E-01	5.2E-01	U	1.04E+00	100.0	9310_ALPHABETA	1.994E-01	L	11/21/2007 12:19	I
7283574	BETA	12587-47-2	3.23E-01	pCi/L	1.2E+00	1.2E+00	U	2.53E+00	100.0	9310_ALPHABETA	2.021E-01	L	11/21/2007 14:31	I
7283576	SR-90	10098-97-2	1.42E-01	pCi/L	2.1E-01	2.4E-01	U	5.12E-01	64.2	SRISO_SEP_PRE	1.00E+00	L	11/21/2007 09:28	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J8HT110	B1PVF3		MW6-SBB-A1	S08-010	W05245					10/08/2007 09:43

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283572	ALPHA	12587-46-1	5.33E-01	pCi/L	6.3E-01	6.4E-01	U	1.14E+00	100.0	9310_ALPHABETA	2.005E-01	L	11/21/2007 13:24	I
7283574	BETA	12587-47-2	7.77E+00	pCi/L	1.7E+00	2.0E+00		2.64E+00	100.0	9310_ALPHABETA	2.002E-01	L	11/21/2007 16:19	I
7283576	SR-90	10098-97-2	2.33E+00	pCi/L	3.5E-01	4.9E-01		3.92E-01	74.5	SRISO_SEP_PRE	1.00E+00	L	11/21/2007 09:23	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J8HVF10	B1PVF7		MW6-SBB-A1	S08-010	W05245					10/08/2007 10:50

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283572	ALPHA	12587-46-1	1.05E+00	pCi/L	9.8E-01	1.0E+00	U	1.47E+00	100.0	9310_ALPHABETA	1.687E-01	L	11/21/2007 13:24	I
7283574	BETA	12587-47-2	8.35E+00	pCi/L	1.8E+00	2.1E+00		2.78E+00	100.0	9310_ALPHABETA	2.005E-01	L	11/21/2007 16:19	I
7283576	SR-90	10098-97-2	1.44E-02	pCi/L	1.5E-01	1.6E-01	U	3.55E-01	79.6	SRISO_SEP_PRE	1.00E+00	L	11/21/2007 09:23	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J8HVK10	B1PVH1		MW6-SBB-A1	S08-010	W05245					10/08/2007 11:42

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7283572	ALPHA	12587-46-1	2.51E+00	pCi/L	1.3E+00	1.5E+00		1.36E+00	100.0	9310_ALPHABETA	2.016E-01	L	11/21/2007 14:30	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.

11/30/2007 3:14:47 PM

TAL Richland Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 37631 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05245.Edd, h:\Reportdb\edd\FeadIV\Rad\37631.Edd

7283574	BETA	12587-47-2	1.41E+01	pCi/L	2.1E+00	2.7E+00	2.53E+00	100.0	9310_ALPHABETA	2.001E-01	L	11/21/2007	16:19	I
7283576	SR-90	10098-97-2	6.31E+00	pCi/L	5.1E-01	1.0E+00	3.71E-01	80.1	SRISO_SEP_PRE	1.00E+00	L	11/21/2007	09:24	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, November 30, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05245.Edd, h:\Reportdb\edd\FeadIV\Rad\37631.Edd

Lab Sample Id:	J8MR71AB	**Sdg/Rept Nbr:**	W05245 37631	**Collection Date:**	10/05/2007 08:36
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	10/05/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7283571	C-14	2.02E+00	pCi/L	7.7E+00	U	8.78E+00	100.0		C14_LSC	2.00E-01	11/08/2007				D
BLK	14762-75-5			3.7E+00						L	17:13				

TAL Richland

rptFeadRadEdd v3.68

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

Friday, November 30, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05245.Edd, h:\Reportdb\edd\FeadIV\Rad\37631.Edd

Lab Sample Id:	J8MTP1AB	**Sdg/Rept Nbr:**	W05245 37631	**Collection Date:**	10/05/2007 08:36
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	10/05/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7283572	ALPHA	1.06E-01	pCi/L	2.5E-01	U	5.70E-01	100.0		9310_ALPHAB	1.995E-01	11/21/2007				D
BLK	12587-46-1			2.5E-01						L	16:10				

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, November 30, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05245.Edd, h:\Reportdb\edd\FeadIV\Rad\37631.Edd

Lab Sample Id: J8MV01AB **Sdg/Rept Nbr:** W05245 37631 **Collection Date:** 10/05/2007 09:24
Client Id: NA **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** BLK **Received Date:** 10/05/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7283578	H-3	-8.38E+00	pCi/L	1.5E+02	U	3.18E+02	100.0		906.0_H3_LSC	5.00E-03	10/25/2007				D
BLK	10028-17-8			1.3E+02						L	14:52				

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, November 30, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05245.Edd, h:\Reportdb\edd\FeadIV\Rad\37631.Edd

Lab Sample Id:	J8MV01DX	**Sdg/Rept Nbr:**	W05245 37631	**Collection Date:**	10/05/2007 09:24
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	10/05/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7283578	H-3	1.41E+02	pCi/L	1.6E+02	U	3.80E+02	100.0		906.0_H3_LSC	5.00E-03	10/25/2007				D
BLK	10028-17-8			1.5E+02						L	17:37				

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

Friday, November 30, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05245.Edd, h:\Reportdb\edd\FeadIV\Rad\37631.Edd

Lab Sample Id: J8MVH1AB **Sdg/Rept Nbr:** W05245 37631 **Collection Date:** 10/05/2007 09:02

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 10/05/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7283574	BETA	7.00E-01	pCi/L	9.2E-01	U	1.79E+00	100.0		9310_ALPHAB	2.019E-01	11/21/2007				D
BLK	12587-47-2			9.2E-01						L	15:53				

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, November 30, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05245.Edd, h:\Reportdb\edd\FeadIV\Rad\37631.Edd

Lab Sample Id:	J8MVV1AB	**Sdg/Rept Nbr:**	W05245 37631	**Collection Date:**	10/08/2007 09:43
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	10/08/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7283576	SR-90	-6.53E-02	pCi/L	2.0E-01	U	4.66E-01	64.5		SRISO_SEP_P	1.00E+00	11/21/2007				D
BLK	10098-97-2			2.0E-01						L	09:24				

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, November 30, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05245.Edd, h:\Reportdb\edd\FeadIV\Rad\37631.Edd

Lab Sample Id:	J8MVX1AB	**Sdg/Rept Nbr:**	W05245	37631	**Collection Date:** 10/05/2007 09:24
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 10/05/2007

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
7283577	BE-7	7.32E+00	pCi/L	1.6E+01	U	3.01E+01			GAMMA_GS	2.5005E+00	11/20/2007				D
BLK	13966-02-4			1.6E+01						L	09:29				
7283577	CO-60	5.89E-01	pCi/L	1.2E+00	U	2.56E+00			GAMMA_GS	2.5005E+00	11/20/2007				D
BLK	10198-40-0			1.2E+00						L	09:29				
7283577	CS-134	-1.87E-01	pCi/L	1.4E+00	U	2.40E+00			GAMMA_GS	2.5005E+00	11/20/2007				D
BLK	13967-70-9			1.4E+00						L	09:29				
7283577	CS-137	9.44E-01	pCi/L	1.4E+00	U	2.60E+00			GAMMA_GS	2.5005E+00	11/20/2007				D
BLK	10045-97-3			1.4E+00						L	09:29				
7283577	EU-152	7.43E-02	pCi/L	2.9E+00	U	5.26E+00			GAMMA_GS	2.5005E+00	11/20/2007				D
BLK	14683-23-9			2.9E+00						L	09:29				
7283577	EU-154	-1.82E-01	pCi/L	3.3E+00	U	6.35E+00			GAMMA_GS	2.5005E+00	11/20/2007				D
BLK	15585-10-1			3.3E+00						L	09:29				
7283577	EU-155	-2.45E-01	pCi/L	2.5E+00	U	4.27E+00			GAMMA_GS	2.5005E+00	11/20/2007				D
BLK	14391-16-3			2.5E+00						L	09:29				
7283577	K-40	3.87E-02	pCi/L	2.7E+01	U	2.45E+01			GAMMA_GS	2.5005E+00	11/20/2007				D
BLK	13966-00-2			2.7E+01						L	09:29				
7283577	RU-106	-9.15E+00	pCi/L	1.2E+01	U	1.98E+01			GAMMA_GS	2.5005E+00	11/20/2007				D
BLK	13967-48-1			1.2E+01						L	09:29				
7283577	SB-125	-1.21E+00	pCi/L	3.2E+00	U	5.53E+00			GAMMA_GS	2.5005E+00	11/20/2007				D
BLK	14234-35-6			3.2E+00						L	09:29				

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, November 30, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05245.Edd, h:\Reportdb\edd\FeadIV\Rad\37631.Edd

Lab Sample Id:	KCTKH1AB	**Sdg/Rept Nbr:**	W05245 37631	**Collection Date:**	10/05/2007 11:39
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	10/05/2007

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
7327265	ALPHA	6.75E-02	pCi/L	2.0E-01	U	4.20E-01	100.0		9310_ALPHAB	1.982E-01	11/29/2007				D
BLK	12587-46-1			2.0E-01						L	19:13				

TAL Richland

rptFeadRadEdd v3.68

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

Friday, November 30, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05245.Edd, h:\Reportdb\edd\FeadIV\Rad\37631.Edd

Lab Sample Id:	J8MR71CS	**Sdg/Rept Nbr:**	W05245 37631	**Collection Date:**	10/05/2007 08:36
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	10/05/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7283571	C-14	4.05E+01	pCi/L	1.2E+01		8.78E+00	100.0	4.65E+01	C14_LSC	2.00E-01	11/08/2007			70	D
BS	14762-75-5			4.8E+00				87.1		L	17:55			130	

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

Friday, November 30, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05245.Edd, h:\Reportdb\edd\FeadIV\Rad\37631.Edd

Lab Sample Id: J8MTP1CS **Sdg/Rept Nbr:** W05245 37631 **Collection Date:** 10/05/2007 08:36

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 10/05/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7283572	ALPHA	1.87E+01	pCi/L	4.8E+00		5.59E-01	100.0	2.25E+01	9310_ALPHAB	2.005E-01	11/21/2007			70	D
BS	12587-46-1			2.0E+00				83.0		L	16:10			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, November 30, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05245.Edd, h:\Reportdb\edd\FeadIV\Rad\37631.Edd

Lab Sample Id:	J8MV01CS	**Sdg/Rept Nbr:**	W05245	37631	**Collection Date:** 10/05/2007 09:24
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 10/05/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7283578	H-3	2.72E+03	pCi/L	2.6E+02		3.19E+02	100.0	2.71E+03	906.0_H3_LSC	5.00E-03	10/25/2007			70	D
BS	10028-17-8			2.2E+02				100.3		L	16:15			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, November 30, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05245.Edd, h:\Reportdb\edd\FeadIV\Rad\37631.Edd

Lab Sample Id:	J8MV01EM	**Sdg/Rept Nbr:**	W05245 37631	**Collection Date:**	10/05/2007 09:24
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	10/05/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7283578	H-3	2.67E+03	pCi/L	2.6E+02		3.20E+02	100.0	2.71E+03	906.0_H3_LSC	5.00E-03	10/25/2007			70	D
BS	10028-17-8			2.1E+02				98.4		L	18:59			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, November 30, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05245.Edd, h:\Reportdb\edd\FeadIV\Rad\37631.Edd

Lab Sample Id:	J8MVH1CS	**Sdg/Rept Nbr:**	W05245 37631	**Collection Date:**	10/05/2007 09:02
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	10/05/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7283574	BETA	2.15E+01	pCi/L	3.2E+00		1.87E+00	100.0	2.24E+01	9310_ALPHAB	2.011E-01	11/21/2007			70	D
BS	12587-47-2			1.7E+00				95.8		L	15:53			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, November 30, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05245.Edd, h:\Reportdb\edd\FeadIV\Rad\37631.Edd

Lab Sample Id:	J8MVV1CS	**Sdg/Rept Nbr:**	W05245 37631	**Collection Date:**	10/08/2007 09:43
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	10/08/2007

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
7283576	SR-90	1.35E+01	pCi/L	2.1E+00		5.08E-01	68.6	1.37E+01	SRISO_SEP_P	1.00E+00	11/21/2007			70	D
BS	10098-97-2			7.8E-01				98.6		L	09:24			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, November 30, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05245.Edd, h:\Reportdb\edd\FeadIV\Rad\37631.Edd

Lab Sample Id:	J8MVX1CS	**Sdg/Rept Nbr:**	W05245 37631	**Collection Date:**	10/05/2007 09:24
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	10/05/2007

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
7283577	BE-7	-3.52E+00	pCi/L	1.2E+01	U	2.02E+01			GAMMA_GS	2.5013E+00	11/20/2007				D
BS	13966-02-4			1.2E+01						L	09:26				
7283577	CO-60	3.38E+01	pCi/L	7.0E+00		2.98E+00		3.06E+01	GAMMA_GS	2.5013E+00	11/20/2007			70	D
BS	10198-40-0			7.0E+00				110.6		L	09:26			130	
7283577	CS-134	-1.10E+00	pCi/L	1.9E+00	U	3.11E+00			GAMMA_GS	2.5013E+00	11/20/2007				D
BS	13967-70-9			1.9E+00						L	09:26				
7283577	CS-137	4.21E+01	pCi/L	6.9E+00		2.98E+00		3.97E+01	GAMMA_GS	2.5013E+00	11/20/2007			70	D
BS	10045-97-3			6.9E+00				106.0		L	09:26			130	
7283577	EU-152	6.18E+01	pCi/L	1.1E+01		7.30E+00		6.13E+01	GAMMA_GS	2.5013E+00	11/20/2007			70	D
BS	14683-23-9			1.1E+01				100.8		L	09:26			130	
7283577	EU-154	-1.98E+00	pCi/L	4.6E+00	U	7.86E+00			GAMMA_GS	2.5013E+00	11/20/2007				D
BS	15585-10-1			4.6E+00						L	09:26				
7283577	EU-155	-3.21E-01	pCi/L	2.8E+00	U	4.75E+00			GAMMA_GS	2.5013E+00	11/20/2007				D
BS	14391-16-3			2.8E+00						L	09:26				
7283577	K-40	-1.42E+01	pCi/L	2.8E+01	U	5.70E+01			GAMMA_GS	2.5013E+00	11/20/2007				D
BS	13966-00-2			2.8E+01						L	09:26				
7283577	RU-106	5.71E+00	pCi/L	1.4E+01	U	2.54E+01			GAMMA_GS	2.5013E+00	11/20/2007				D
BS	13967-48-1			1.4E+01						L	09:26				
7283577	SB-125	-4.52E-01	pCi/L	4.2E+00	U	7.25E+00			GAMMA_GS	2.5013E+00	11/20/2007				D
BS	14234-35-6			4.2E+00						L	09:26				

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, November 30, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05245.Edd, h:\Reportdb\edd\FeadIV\Rad\37631.Edd

Lab Sample Id:	KCTKH1CS	**Sdg/Rept Nbr:**	W05245 37631	**Collection Date:**	10/05/2007 11:39
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	10/05/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7327265	ALPHA	2.07E+01	pCi/L	4.9E+00		3.33E-01	100.0	2.26E+01	9310_ALPHAB	2.002E-01	11/29/2007			70	D
BS	12587-46-1			1.5E+00				91.7		L	19:13			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, November 30, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05245.Edd, h:\Reportdb\edd\FeadIV\Rad\37631.Edd

Lab Sample Id:	J8D2E1LR	**Sdg/Rept Nbr:**	W05245	37631	**Collection Date:** 10/05/2007 09:24
Client Id:	B1PTL1	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 10/05/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I08-002	MW6-SBB-A19981								AV	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7283577	BE-7	-6.04E+00	pCi/L	1.5E+01	U	2.52E+01			GAMMA_GS	2.5016E+00	11/20/2007	0.0	0.8		D
DUP	13966-02-4	1.93E+00		1.5E+01						L	12:51	20.0	3		
7283577	CO-60	1.08E-01	pCi/L	1.4E+00	U	2.66E+00			GAMMA_GS	2.5016E+00	11/20/2007	152.5	0.7		D
DUP	10198-40-0	8.02E-01		1.4E+00						L	12:51	20.0	3		
7283577	CS-134	7.87E-01	pCi/L	1.3E+00	U	2.59E+00			GAMMA_GS	2.5016E+00	11/20/2007	27.2	0.2		D
DUP	13967-70-9	5.98E-01		1.3E+00						L	12:51	20.0	3		
7283577	CS-137	5.77E-01	pCi/L	1.3E+00	U	2.38E+00			GAMMA_GS	2.5016E+00	11/20/2007	584.2	1.		D
DUP	10045-97-3	-2.83E-01		1.3E+00						L	12:51	20.0	3		
7283577	EU-152	7.73E-01	pCi/L	3.1E+00	U	5.64E+00			GAMMA_GS	2.5016E+00	11/20/2007	0.0	1.1		D
DUP	14683-23-9	-1.59E+00		3.1E+00						L	12:51	20.0	3		
7283577	EU-154	-1.30E+00	pCi/L	4.4E+00	U	7.69E+00			GAMMA_GS	2.5016E+00	11/20/2007	0.0	0.		D
DUP	15585-10-1	-1.33E+00		4.4E+00						L	12:51	20.0	3		
7283577	EU-155	-5.67E-01	pCi/L	2.1E+00	U	3.55E+00			GAMMA_GS	2.5016E+00	11/20/2007	918.1	1.		D
DUP	14391-16-3	8.83E-01		2.1E+00						L	12:51	20.0	3		
7283577	K-40	-6.07E+00	pCi/L	3.1E+01	U	6.17E+01			GAMMA_GS	2.5016E+00	11/20/2007	0.0	0.5		D
DUP	13966-00-2	-1.67E+01		3.1E+01						L	12:51	20.0	3		
7283577	RU-106	-1.18E+00	pCi/L	1.2E+01	U	2.16E+01			GAMMA_GS	2.5016E+00	11/20/2007	380.9	0.6		D
DUP	13967-48-1	3.80E+00		1.2E+01						L	12:51	20.0	3		
7283577	SB-125	-1.31E+00	pCi/L	3.3E+00	U	5.70E+00			GAMMA_GS	2.5016E+00	11/20/2007	0.0	0.		D
DUP	14234-35-6	-1.40E+00		3.3E+00						L	12:51	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, November 30, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05245.Edd, h:\Reportdb\edd\FeadIV\Rad\37631.Edd

Lab Sample Id: J8D2E1MR **Sdg/Rept Nbr:** W05245 37631 **Collection Date:** 10/05/2007 09:24

Client Id: B1PTL1 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 10/05/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I08-002	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
7283578	H-3	4.13E+02	pCi/L	1.7E+02		3.22E+02	100.0		906.0_H3_LSC	5.00E-03	10/25/2007	70.6	1.8		D
DUP	10028-17-8	1.98E+02		1.5E+02						L	21:44	20.0	3		

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

Friday, November 30, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05245.Edd, h:\Reportdb\edd\FeadIV\Rad\37631.Edd

Lab Sample Id: J8D6C1FR **Sdg/Rept Nbr:** W05245 37631 **Collection Date:** 10/05/2007 08:36

Client Id: B1PVX9 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 10/05/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-010	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
7283571	C-14	2.43E+03	pCi/L	2.7E+02		8.77E+00	100.0		C14_LSC	2.00E-01	11/08/2007	5.1	0.6		D
DUP	14762-75-5	2.31E+03		2.5E+01						L	20:02	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, November 30, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05245.Edd, h:\Reportdb\edd\FeadIV\Rad\37631.Edd

Lab Sample Id:	J8D6C1GR	**Sdg/Rept Nbr:**	W05245 37631	**Collection Date:**	10/05/2007 08:36
Client Id:	B1PVX9	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	10/05/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-010	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
7283572	ALPHA	2.07E+00	pCi/L	1.2E+00		1.20E+00	100.0		9310_ALPHAB	2.015E-01	11/21/2007	10.8	0.3		D
DUP	12587-46-1	2.30E+00		1.1E+00						L	12:19	20.0	3		

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

Friday, November 30, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05245.Edd, h:\Reportdb\edd\FeadIV\Rad\37631.Edd

Lab Sample Id:	J8F0T1ER	**Sdg/Rept Nbr:**	W05245 37631	**Collection Date:**	10/05/2007 09:02
Client Id:	B1PTV0	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	10/05/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I08-002	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
7283574	BETA	2.81E+03	pCi/L	4.5E+02		3.92E+00	100.0		9310_ALPHAB	1.401E-01	11/21/2007	6.0	0.5		D
DUP	12587-47-2	2.98E+03		2.9E+01						L	15:03	20.0	3		

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

Friday, November 30, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05245.Edd, h:\Reportdb\edd\FeadIV\Rad\37631.Edd

Lab Sample Id:	J8HT11ER	**Sdg/Rept Nbr:**	W05245	37631	**Collection Date:** 10/08/2007 09:43
Client Id:	B1PVF3	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 10/08/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-010	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
7283576	SR-90	2.23E+00	pCi/L	4.8E-01		4.22E-01	75.3		SRISO_SEP_P	1.00E+00	11/21/2007	4.3	0.3		D
DUP	10098-97-2	2.33E+00		3.5E-01						L	09:23	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.

TestAmerica

TA Richland
Hexavalent Chromium - Water

Analyst:	S. Wheland	Calibration Curve Information				SOP Information		BATCH #	7278533
Start Date:	10/5/2007		Amount	Conc.(mg/L)	ABS.	RICH-WC-5003		SDG #	
Start Time:	14:30	Blank	0.000	0.000	0.000	Revision 7		Matrix	Water
End Date:	10/5/2007	Std. 1	0.100	0.050	0.097				
End Time	15:10	Std. 2	0.500	0.250	0.473			Instrument Information	
		Std. 3	0.750	0.375	0.705	MDL (mg/L)	0.002	Instrument:	Hach DR2010
Analyst Signature:		Std. 4	1.500	0.750	1.390			Wavelength:	540
		Std 5	2.000	1.000	1.823			R Squared	0.99979
Date:	10/05/07	Standard Volume (mL):			100.000			Slope:	1.82619
		Date of Curve:			10/5/2007			Intercept:	0.00992

		Calibration Information:	ICV Information:		LCS Information:		Matrix Spike Information:	
Dilution ID #		Cr-07-0109	Cr-07-0110		Cr-07-0109		Cr-07-0109	
Prep Date:		10/05/07	10/05/07		10/05/07		10/05/07	
Concentration (mg/L)		50	50		50		50	
Expiration Date:		10/06/07	10/06/07		10/06/07		10/06/07	
Pipettor(s)		70,190	190		190		190	
Volume Used (	Expected Value		1.000	0.50000	1.00	0.50000	0.50	0.26316

Expected values are only amounts added in mg and not final concentrations

Sample ID	Client ID	Type	Sample Volume (mL)	Sample ABS.	Blank ABS.	Corrected ABS.	Dilution Factor	Curve Conc. (mg/L)	Final Conc. (mg/L)	% Rec.
n/a	n/a	ICV	100.000	0.939	0.000	0.939	1	0.5088	0.509	101.75%
n/a	n/a	ICB	100.000	-0.001	0.000	-0.001	1	<MDL	<MDL	
J8D5H-1AA-B	n/a	Prep Blank	100.000	0.004		0.004	1	-0.0032	<MDL	
J8D5H-1AC-C	n/a	LCS	100.000	0.942		0.942	1	0.5104	0.510	102.08%
J8D2E-1AA	B1PTL1	Sample	100.000	0.243		0.243	1	0.1276	0.128	
J8D2E-1AC-S	B1PTL1-MS	MS	100.000	0.722		0.722	1	0.3899	0.390	99.67%
J8D2E-1AD-D	B1PTL1-MSD	MSD	100.000	0.720		0.720	1	0.3888	0.389	99.26%
J8D2E-1AE-X	B1PTL1-DUP	Duplicate	100.000	0.247		0.247	1	0.1298	0.130	
			100.000				1			
			100.000				1			
			100.000				1			
n/a	n/a	CCV	100.000	0.941		0.941	1	0.5099	0.510	101.97%
n/a	n/a	CCB	100.000	0.000		0.000	1	<MDL	<MDL	
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			

TAL RICHLAND

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/30/2007 10:01:59 AM

Lot No., Due Date: J7J050345,J7J050365,J7J080130,J7J090186; 11/21/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7283572; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05245; WATER

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

6.0 Comments on any No response:

Please see NCM#10-11252
and 10-11360

First Level Review John Horton **Date** 11-30-7

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 7L83572
W05245

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

Comments on any "No" response: See NCM

Second Level Review: Sheryl A Adams Date: 11-30-07

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

Clouseau
Nonconformance Memo

TestAmerica

NCM #:	10-11252		
NCM Initiated By:	Lisa Antonson	Classification:	**Deficiency**
Date Opened:	11/19/2007	Status:	**PMREVIEW**
Date Closed:		Production Area:	Environmental - Prep
		Tests:	Alpha by GPC-Am
		Lot #'s (Sample #'s):	J7J050345 (1), J7J050365 (1), J7J080130 (1,2,3,4,5,7), J7J090186 (1,2,3), J7J100000 (572),
		QC Batches:	7283572,
Nonconformance:	Other (describe in detail)		
Subcategory:	Other (explanation required)		

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	11/19/2007	A non-critical pipette was used during weight screening for this batch. The pipette was checked 10 times prior to use, and passed critical criteria.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	11/19/2007	The technician was reminded that a critical pipette is specified in the SOP.

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

11/30/2007 9:55:11 AM

Lot No., Due Date: J7J080130; 11/21/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7327265; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05245; WATER

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

6.0 Comments on any No response:
Please see NCM#10--11360

First Level Review John Hostler **Date** 11-30-7

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 73K7265
W05245

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

Comments on any "No" response: See NCM

Second Level Review Sheryl A Adam Date: 11-30-07

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-11360**
NCM Initiated By: John Norton
Date Opened: 11/30/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: None
Lot #'s (Sample #'s): J7J080130 (4),
QC Batches: None.,

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

Problem Description / Root Cause

Name	Date	Description
John Norton	11/30/2007	Originally analyzed in batch #7283572, the sample failed due to a high precipitate weight.

Corrective Action

Name	Date	Corrective Action
John Norton	11/30/2007	The sample was re-analyzed in batch #7327265 with a reduced aliquot size.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 11/30/2007

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/23/2007 2:07:35 PM

Lot No., Due Date: J7J050345,J7J050365,J7J050367,J7J080130,J7J090186; 11/21/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7283574; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05245; 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 => J8D2E1AE 132.00<200.00 J8D6N1AA 27.10<200.00 J8D7V1AA 82.00<200.00 J8F0M1AC 99.10<200.00 J8F0T1AC 140.70<200.00 J8F001AC 92.60<200.00 Q:VB		✓	
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK	✓		
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	✓		
8.19 Sample Specific MDC <= CRDL. MDC/MDA > CRDL => J8D6N1AA BETA 1.4E+01>4.0E+00 J8D7V1AA BETA 4.4E+00>4.0E+00 J8F0T1AC BETA 4.1E+00>4.0E+00 J8F001AC BETA 4.2E+00>4.0E+00 Q:C1		✓	
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => J8D2E1AE BETA 8.1E+00 L:3.9E+00 J8D6C1AC BETA 5.4E+00 L:2.6E+00 J8D6N1AA BETA 1.4E+04 L:1.4E+01 J8D7V1AA BETA 4.6E+03 L:4.4E+00		✓	

J8D7W1AA BETA 4.5E+02 L:2.6E+00
J8F0M1AC BETA 2.6E+03 L:3.8E+00
J8F0T1AC BETA 3.0E+03 L:4.1E+00
J8F001AC BETA 1.3E+01 L:4.2E+00
J8F1C1AC BETA 1.7E+01 L:3.0E+00
J8F1K1AC BETA 1.5E+01 L:2.8E+00
J8HT11AC BETA 7.8E+00 L:2.6E+00
J8HVF1AC BETA 8.3E+00 L:2.8E+00
J8HVK1AC BETA 1.4E+01 L:2.5E+00

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

OK; No Callin Level Found => BETA

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:
NCM 10-11303

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

First Level Review Lisa Anderson **Date** 11/23/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7283574
W05245

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

Comments on any "No" response: See NCM

Second Level Review: Sheryl A. Adam Date: 11-26-07

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

TAL RICHLAND

Clouseau
Nonconformance Memo

TestAmerica

NCM #:	10-11303		
NCM Initiated By:	Lisa Antonson	Classification:	**Anomaly**
Date Opened:	11/23/2007	Status:	**PMREVIEW**
Date Closed:		Production Area:	Environmental - Prep
		Tests:	Beta by GPC-Sr/Y
		Lot #'s (Sample #'s):	J7J050345 (1), J7J050365 (1), J7J050367 (1,2,3), J7J080130 (1,2,3,4,5,7), J7J090186 (1,2,3), J7J100000 (574),
		QC Batches:	7283574,
Nonconformance:	Other (describe in detail)		
Subcategory:	Other (explanation required)		

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	11/23/2007	Samples J8D6N, J8D7V, J8FOT, didn't meet CRDL due to reduced aliquots based on weight and activity screens. All of them have results that exceed the MDA achieved. Data accepted.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	11/23/2007	NA

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

11/21/2007 3:58:17 PM

Lot No., Due Date: J7J050345,J7J050365,J7J080130,J7J090186; 11/21/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7283576; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05245; WATER

1.0 COC

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

2.0 QC Batch

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

3.0 QC & Samples

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

4.0 Raw Data

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

5.0 Other

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 11/21/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7283574
W05245

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

Comments on any "No" response: _____

Second Level Review: Sheryl A. Klem Date: 11-23-07

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/21/2007 3:56:00 PM

Lot No., Due Date: J7J050345; 11/21/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7283577; RGAMMA Gamma by GER

SDG, Matrix: W05245; WATER

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 11/21/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7283577
W05245

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

Comments on any "No" response: _____

Second Level Review: Sheryl A. Adams Date: 11-23-07

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/23/2007 8:42:08 AM

Lot No., Due Date: J7J050345; 11/21/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7283578; RTRITIUM H-3 by LSC

SDG, Matrix: W05245; WATER

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 11/23/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7283578
W05245

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

Comments on any "No" response: _____

Second Level Review: Sheryl R Adam Date: 11-23-07

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/23/2007 8:43:17 AM

Lot No., Due Date: J7J050345,J7J050365,J7J080130; 11/21/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7283571; RC14 C-14 by LSC

SDG, Matrix: W05245; 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 Vernon E. Richland **Date** 11/23/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7283571
W05245

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

Comments on any "No" response: _____

Second Level Review: Sheryl R Adam Date: 11-23-04

SEVERN TRENT STL

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): **7278533**

Lab Sample Numbers or W05245

Method/Test/Parameter: **Cr+6 in Water / RICH-WC-5003**

Review Item	Yes (✓)	No (✓)	N/A (✓)	2nd Level Review (✓)
A. Initial Calibration				
1. Performed at required frequency with required number of levels?	✓			
2. Correlation coefficient within QC limits?	✓			
3. Initial calibration verification (ICV) analyzed immediately after calibration and results within QC limits?	✓			
4. Initial calibration blank (ICB) analyzed immediately after ICV and concentrations of all parameters ≤ reporting limit?	✓			
B. Continuing Calibration				
1. CCV analyzed at required frequency and all parameters within QC limits?	✓			
2. CCB analyzed at required frequency and all results ≤ reporting limit?	✓			
C. Sample Analysis				
1. Were any samples with concentrations above the linear range for any parameter diluted and reanalyzed?			✓	
2. Were all sample holding times met?	✓			
D. QC Samples				
1. All results for the preparation blank below limits?	✓			
2. MS or MS/MSD recoveries within QC limits and %RPD (for MSD) acceptable?	✓			
3. LCS percent recovery within QC limits and %RPD (for LCSD) acceptable?	✓			
4. Analytical spikes within QC limits where applicable?			✓	
5. ICP only: One serial dilution performed per SDG?			✓	
6. ICP only: CRDL standard (CRI or CRA) analyzed at required frequency?			✓	
7. ICP only: Interference check samples (ICSA, ICSAB) and HICAL analyzed at the required frequencies and within QC limits?			✓	

Review Item	Yes (✓)	No (✓)	N/A (✓)	2nd Level Review (✓)
E. Other 1. Are all nonconformances included and noted?	✓			
2. Is the correct date and time of analysis shown?	✓			
3. Did the analyst sign and date the front page of the analytical run?	✓			
4. Correct methodology used?	✓			
5. Transcriptions checked?	✓			
6. Calculations checked at minimum frequency?	✓			
7. Units checked?	✓			

Comments on any "No" response:

Analyst: [signature] Date: 10/5//2007

Second-Level Review: [signature] Date: 11-30-07

TAL RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J7JC50345 WC5245 Due 11-19-07	C.O.C. # I08-002-8 Page 1 of 1

Collector Fluor Hanford K. B. HULSE	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. 108-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100KR4IAM(1/2), OCTOBER 2007	HWF-N-506 12	**Ice Chest No.** ERC 96-074 ~~SML-562~~ **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.** 10-5-07 N/A
Protocol CERCLA	**Priority:** 45 Days	**Offsite Property No.** N/A

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PTL1		W	10-5-07	0924	1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	Cool~4C
B1PTL1		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1PTL1		W			1x20-mL P	Activity Scan	None
B1PTL1		W			3x1000-mL G/P	GAMMA_GS: List-1 (10)	HNO3 to pH <2
B1PTL1		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1PTL1		W			2x1000-mL G/P	C14_LSC: C-14 (1)	None
						J8D2E	
			1032	10-5-07			

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford K. B. HULSE			OCT 05 2007 1405		L SLAVE TAL-R		OCT 05 2007 1405
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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7JC50345 W05245 Due 11-19-07

C.O.C. # I08-002-34

Page 1 of 1

Collector Fluor Hanford K. B. HULSE	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. 108-002	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 100KR4IAM(1/2) OCTOBER 2007	HNF-N-506-12	Ice Chest No. ERC-96-034 Temp.
Shipped To (Lab) TestAmerica Incorporated Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No. N/A
Protocol CERCLA	Priority: 45 Days	Offsite Property No. N/A

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PTL3		W	10-5-07	1249	1x20-mL P	Activity Scan	None
B1PTL3		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						J8D2N	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford K.B. SE			OCT 05 2007 1406		WLANE	TAL-R	OCT 05 2007 1406
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

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I08-002-35
	J7J050345 WC5245 Due 11-19-07	Page 1 of 1

Collector D. R. PULSE	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. I08-002	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 100KR4IAM(1/2), OCTOBER 2007	HNF-N-506-12	Ice Chest No. ERC-96-034 Temp.
Shipped To (Lab) TestAmerica Incorporated Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No. N/A
Protocol CERCLA	Priority: 45 Days	Offsite Property No. N/A

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PTL4		W	10-5-07	1244	1x20-mL P	Activity Scan	None
B1PTL4		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						J8D2W	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford			OCT 05 2007 1400		LWLANE	TAL-R	OCT 05 2007 1400
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J7J052345 WC5245 Due 11-19-07	C.O.C. # I08-002-46 Page 1 of 1

Collector: Fluor Hanford K. R. HULSE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I08-002	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100KR4IAM(1/2), OCTOBER 2007	HNF-N-506-12	Ice Chest No.: ERC-96-034 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.: N/A

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PTM4		W	10-5-07	1035	1x20-mL P	Activity Scan	None
B1PTM4		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						J8D2C	

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Fluor Hanford K.R. HULSE	OCT 05 2007 1400	LJ LANE TAL-R	OCT 05 2007 1400

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

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I08-002-40
	J7J050345 W05245 Due 11-19-07	Page 1 of 1

Collector Fluor Hanford K.B. HULSE	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. 108-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100KR4IAM(1/2), OCTOBER 2007	HNF-N-506-12	**Ice Chest No.** ERC-96-034 **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.** N/A
Protocol CERCLA	**Priority: 45 Days**	**Offsite Property No.** N/A

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PTL8		W	10-5-07	1123	1x20-mL P	Activity Scan	None
B1PTL8		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						J8D22	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford K.B. HULSE			OCT 05 2007 1405		W LANE	TAL-R	OCT 05 2007 1405
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TAL RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J7JC5C345 WC5245 Due 11/19/07	C.O.C. # I08-002-41 Page 1 of 1

Collector: Fluor Hanford K.E. HULSE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I08-002	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100KR4IAM(1/2) OCTOBER 2007	HNF-N-506-12	Ice Chest No.: ERC-96-034 Temp.
Shipped To (Lab): TestAmerica Incorporated Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.: N/A

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PTL9		W	10-5-07	1123	1x20-mL P	Activity Scan	None
B1PTL9		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						J8D23	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford K.E. HULSE			OCT 05 2007 1400		LJ LANE	TAL-R	OCT 05 2007 1400
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 10-05-07 1406

Client: PGW SDG #: W05245 NA[ ] SAF #: I08-002 NA [ ]

Work Order Number: J7J050345 Chain of Custody # I08-002-8, 34, 35, 46, 40, 41

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? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 6
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - _____ Tape
   - _____ Custody Seals
   - _____ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - _____ Broken
   - _____ Leaking
   - _____ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: L. Smith (LL) Date: 10-05-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TAL RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST JTJ050365 W05275 Due 11/19/07	C.O.C. # S08-010-152 Page 1 of 1

Collector: F. H. Hall, Fluor Hanford Inc	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S08-010	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV. OCTOBER 2007	HNF-N-506 5	Ice Chest No.: SML 595 Temp.
Shipped To (Lab): TestAmerica 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
B1PVX9		W	10-5-07	0836	1x20-mL P	Activity Scan	None
B1PVX9		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1PVX9		W			2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1PVX9		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						J8D6C	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F. H. Hall, Fluor Hanford Inc			OCT 05 2007 1340		LLANE TALER		OCT 05 2007 1340
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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 10-5-07 1340

Client: PGW SDG #: W05245 NA[ ] SAF #: 508-010 NA [ ]

Work Order Number: J7J050365 Chain of Custody # 508-010-152

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? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - _____ Tape
   - _____ Custody Seals
   - _____ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - _____ Broken
   - _____ Leaking
   - _____ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 10-5-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TAL RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # G08-010-14
	J7J050367 u05245 Due 11/1907	Page 1 of 1

Collector Fluor Hanford B. T. SICKLE	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. G08-010	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title INR2-RB OCTOBER 2007	Logbook: HNF-N-506-11	**Ice Chest No.** 6W-1 **Temp.**
Shipped To (Lab) TestAmerica Incorporated Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PPN6		W	10/5/07		1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
B1PPN6		W	↓		1x20-mL P	Activity Scan	None
						J8D6N	

R. Wall 10/5/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford B. T. SICKLE			1245 OCT 0 5 2007	FM Hall			1245 OCT 0 5 2007
FM Hall			1340 10-5-07	LL WLANR TAL-R			1340 10-5-07

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	

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

TAL RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # G08-010-4
	J76050367 W05245 Due 11-19-07	Page 1 of 1

Collector: F. H. Hall, Fluor Hanford Inc	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: G08-010	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 1NR2-RB, OCTOBER 2007	HNF-N-506 5	Ice Chest No. SML 595 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PPM6		W	10-5-07	1159	1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
B1PPM6		W	↓	↓	1x20-mL P	Activity Scan	None
						J8D7V	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F. H. Hall, Fluor Hanford Inc			OCT 0 5 2007 1340		WLANE TAL-R		OCT 0 5 2007 1340
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

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST JJJ050367 W05245 Due 11/19/07	C.O.C. # G08-010-2 Page 1 of 1

Collector F. H. Hall Fluor Hanford Inc	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. G08-010	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title INR2-RB, OCTOBER 2007	HNF-N-506 5	Ice Chest No. SML 595 Temp.
Shipped To (Lab) TestAmerica Incorporated Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol SURV	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PPM4		W	10-5-07	1039	1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
B1PPM4		W	↓	↓	1x20-mL P	Activity Scan	None
						JSDTW	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F. H. Hall Fluor Hanford Inc			OCT 05 2007 1340		LLANE TAL-R		OCT 05 2007 1340
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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 10-5-07 1340

Client: PGW **SDG #:** W05245 NA[ ] **SAF #:** G08-010 NA [ ]

Work Order Number: J7J050367 **Chain of Custody #** G08-010-14,-4,-2

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? NA [ ] 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 Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ___ Broken
   - ___ Leaking
   - ___ Have Air Bubbles (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): BIPPNG does not have a sample time on the COC or the sample bottle. SL

Sample Custodian: [signature] **Date:** 10-5-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TAL RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I08-002-195
	JJJ 080132 W05245 Due 11-19-07	Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I08-002	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100KR4IAM(1/2) OCTOBER 2007	Logbook: HNF-N-506-11	Ice Chest No.: GW-1 Temp.
Shipped To (Lab): TestAmerica 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 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PTT1		W	10/5/07	0815	1x20-mL P	Activity Scan	None
B1PTT1		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1PTT1		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						J8FX2	

L. Wall 10/5/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			OCT 0 5 2007 1245	F M Hall			OCT 0 5 2007 1245
F M Hall			10-5-07 1340	RR LJ LANE TAL-R			10-5-07 1340

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

JTJ080130 WC5245 Due 11-19-07

C.O.C. # I08-002-12

Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: 108-002	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100KR4IAM(1/2) OCTOBER 2007	Logbook: HNF-N-506-11	Ice Chest No.: 6W-1 Temp.
Shipped To (Lab): TestAmerica 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 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PTT9		W	10/5/07	0902	1x20-mL P	Activity Scan	None
B1PTT9		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1PTT9		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						J8FCM	

R. Wall 10/5/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			OCT 0 5 2007 1245	F M HALL			OCT 0 5 2007 1245
F M HALL			10-5-07 1340	LWLANE	TAL-R		1340

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

JTJ080130 W05345 Due 11-19-07

C.O.C. # I08-002-13

Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I08-002	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100KR4IAM(1/2) OCTOBER 2007	Logbook: HNF-N-506-11	Ice Chest No.: 6W-1 Temp.
Shipped To (Lab): TestAmerica 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 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PTV0		W	10/5/07	0902	1x20-mL P	Activity Scan	None
B1PTV0		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1PTV0		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2

J8F0T

R. Wall 10/5/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			OCT 0 5 2007 1245	FM Hall			OCT 0 5 2007 1245
FM HALL			10-5-07 1340	LWLANE TAL-R			10-5-07 1340

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

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J7J681 3C WC5245 Due 11.19.07	C.O.C. # I08-002-56 Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: 108-002	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100KR4IAM(1/2), OCTOBER 2007	Logbook: HNF-N-506-11	Ice Chest No.: GW-1 Temp.
Shipped To (Lab): TestAmerica 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 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PTN2		W	10/5/07	1139	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1PTN2		W	↓	↓	2x1000-mL G/P	C14_LSC: C-14 (1)	None
						J8F00	

R. Wall 10/5/07

Relinquished By	Date/Time	Received By	Date/Time
Fluor Hanford R. T. SICKLE (Print) (Sign) OCT 0 5 2007	1245	FM Hall (Print) (Sign) OCT 0 5 2007	1245
FM Hall (Print) (Sign)	1340 10-5-07	LS LANE TAL-R	1340 10-5-07
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

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I08-002-68
Fluor Hanford R. T. SICKLE	J7J080130 W05345 Due 11-19-07	Page 1 of 1

Collector	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100KR4IAM(1/2) OCTOBER 2007	Logbook: HNF-N-506-11	**Ice Chest No.** 6W-1 **Temp.**
Shipped To (Lab) TestAmerica 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 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PTP0		W	10/5/07	1119	1x20-mL P	Activity Scan	None
B1PTP0		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1PTP0		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1PTP0		W	↓	↓	2x1000-mL G/P	C14_LSC: C-14 (1)	None
						J8FIC	

R. Wade 10/5/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			1245 OCT 0 5 2007	FM Hall			1245 OCT 0 5 2007
FM Hall			1340 10-5-07	LJLANE TAL-R			1340 10-5-07

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	

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

TAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J080130 W05245 Due 11-19-07

C.O.C. # I08-002-108

Collector: F. H. Hall, Fluor Hanford Inc	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: 108-002	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100KR4IAM(1/2), OCTOBER 2007	HNF-N-506 5	Ice Chest No. SINL 595 Temp.
Shipped To (Lab): TestAmerica 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 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis		Preservative
B1PTR1		W	10-5-07	0945	1x20-mL P	Activity Scan		None
B1PTR1		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	J8F1G	HNO3 to pH <2
B1PTY6		W			1x20-mL P	Activity Scan		None
B1PTY6		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	J8F1K	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F. H. Hall, Fluor Hanford Inc			OCT 0 5 2007 1340		LJ LANE TAL-12		OCT 0 5 2007 1340
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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 10-5-07 1340

Client: PGW **SDG #:** W05245 NA[ ] **SAF #:** I08-002 NA [ ]

Work Order Number: JTJ080130 **Chain of Custody #** I08-002-195, -12, -13, -56, -68, -108

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? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 7
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ___ Tape
   - ✓ Custody Seals
   - ___ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ___ Broken
   - ___ Leaking
   - ___ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] **Date:** 10-5-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TAL RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J7J090186 W05245 Due 11-22-07	C.O.C. # S08-010-20 Page 1 of 1

Collector: J.G. Hogan	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S08-010	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV OCTOBER 2007	HWF-N-506 10 pg 17	Ice Chest No.: GRP-04-009 Temp.
Shipped To (Lab): TestAmerica 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
B1PVF3		W	10/8/07	0943	1x20-mL P	Activity Scan	None
B1PVF3		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1PVF3		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						J8HT1	

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
J.G. Hogan / J G Hogan	OCT 0 8 2007 1310	KB Hulse / KB Hulse	OCT 0 8 2007 1310
KB Hulse / KB Hulse	10/8/07 1400	LVLAWE TAL-R	10/8/07 1400

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

77

TAL RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S08-010-26
	J7J090186 W05245 Due 11-22-07	Page 1 of 1

Collector: J.G. Hogan	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S08-010 Fluor Hanford	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV. OCTOBER 2007	HWF-N-506 10 Pg-17	Ice Chest No.: GRP-04-009 Temp.
Shipped To (Lab): TestAmerica 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
B1PVF7		W	10/8/07	1050	1x20-mL P	Activity Scan	None
B1PVF7		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1PVF7		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						J8HVF	

Relinquished By	Received By
Print: J.G. Hogan Sign: J G Hogan Date/Time: OCT 0 8 2007 1310	Print: KB Hulse Sign: KB Hulse Date/Time: OCT 0 8 2007 1310
Relinquished By: Fluor Hanford KB Hulse Date/Time: 10/8/07 1400	Received By: LJLANE TAL-R Date/Time: 10/8/07 1400
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

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S08-010-32
	JTJ090186 W05245 Due 11-22-07	Page 1 of 1

Collector: J.G. Hogan	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S08-010 Fluor Hanford	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV. OCTOBER 2007	HNF-N-506 10 P&17	Ice Chest No.: GRP-UY-009 Temp.
Shipped To (Lab): TestAmerica 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
B1PVH1		W	10/8/07	1142	1x20-mL P	Activity Scan	None
B1PVH1		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1PVH1		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						JTHVK	

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
J.G. Hogan / [signature]	OCT 0 8 2007 1310	KB Hulse / [signature]	OCT 0 8 2007 1310
KB Hulse / [signature]	10/8/07 1400	WLANE TAL-R	10/8/07 1400
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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 10-8-07 1400

Client: PGW **SDG #:** W05245 NA[ ] **SAF #:** 508-010 NA [ ]

Work Order Number: JTJ090186 **Chain of Custody #** 508-010-20,-26,-32

Shipping Container ID: _____ **Air Bill #** _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] 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 Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ___ Broken
   - ___ Leaking
   - ___ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: RJP Date: 10-8-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TAL RICHLAND

11/20/2007 10:49:41 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: 235

AnalyDueDate: 11/19/2007 1105245

Sep1 DT/Tm Tech:

Batch: 7283572 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 J8D2E-1-AD J7J050345-1-SAMP 10/05/2007 09:24		141.70g,in AmtRec: 20ML,500ML,7XLP #Containers: 9		1.5	30.9	100	1F	1856	11/21/07	Scr: Alpha: -9.85E-04 uCi/Sa Beta: -2.56E-04 uCi/Sa
2 J8D6C-1-AA J7J050365-1-SAMP 10/05/2007 08:36		198.60g,in AmtRec: 20ML,6XLP #Containers: 7			32.7	50	1A	1245	11/21/07	Scr: Alpha: 1.56E-04 uCi/Sa Beta: 1.19E-04 uCi/Sa
3 J8D6C-1-AG-X J7J050365-1-DUP 10/05/2007 08:36		201.50g,in AmtRec: 20ML,6XLP #Containers: 7			20.6		1B			Scr: Alpha: 1.56E-04 uCi/Sa Beta: 1.19E-04 uCi/Sa
4 J8FX2-1-AA J7J080130-1-SAMP 10/05/2007 08:15		199.40g,in AmtRec: 20ML,4XLP #Containers: 5			0.8		1C			Scr: Alpha: 1.10E-04 uCi/Sa Beta: -7.42E-04 uCi/Sa
5 J8F0M-1-AA J7J080130-2-SAMP 10/05/2007 09:02		166.10g,in AmtRec: 20ML,4XLP #Containers: 5			25.5		1D			Scr: Alpha: -1.89E-04 uCi/Sa Beta: 3.63E-03 uCi/Sa 9.9E-02L
6 J8F0T-1-AA J7J080130-3-SAMP 10/05/2007 09:02		171.70g,in AmtRec: 20ML,4XLP #Containers: 5			18.7		1E			Scr: Alpha: 1.38E-03 uCi/Sa Beta: 2.55E-03 uCi/Sa 1.4E-01L
7 J8F00-1-AA J7J080130-4-SAMP 10/05/2007 11:39		199.70g,in AmtRec: 3XLP #Containers: 3			108.3		1F	1350	11/21/07	Scr: Alpha: -2.87E-04 uCi/Sa Beta: 7.82E-04 uCi/Sa

TAL RICHLAND

11/20/2007 10:49:43 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 11/19/2007

Sep1 DT/Tm Tech:

Batch: 7283572 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:
8 J8F1C-1-AA J7J080130-5-SAMP 10/05/2007 11:19	AmtRec: 20ML,6XLP	170.60g,in	#Containers: 7	1.5	33.2	50	10B	1350	11/21/07 B	Scr: Alpha: 5.97E-04 uCi/Sa Beta: 1.55E-03 uCi/Sa
9 J8F1K-1-AA J7J080130-7-SAMP 10/05/2007 09:45	AmtRec: 20ML,LP	196.90g,in	#Containers: 2		19.6		10C			Scr: Alpha: -1.59E-04 uCi/Sa Beta: 2.25E-04 uCi/Sa
10 J8HT1-1-AA J7J090186-1-SAMP 10/08/2007 09:43	AmtRec: 20ML,4XLP	200.50g,in	#Containers: 5		14.2		10D			Scr: Alpha: -2.08E-07 uCi/Sa Beta: -2.66E-07 uCi/Sa
11 J8HVF-1-AA J7J090186-2-SAMP 10/08/2007 10:50	AmtRec: 20ML,4XLP	168.70g,in	#Containers: 5		27.6		10F			Scr: Alpha: -4.61E-07 uCi/Sa Beta: 5.54E-07 uCi/Sa
12 J8HVK-1-AA J7J090186-3-SAMP 10/08/2007 11:42	AmtRec: 20ML,4XLP	201.60g,in	#Containers: 5		30.3		10A	1456	11/21/07 B	Scr: Alpha: 1.81E-07 uCi/Sa Beta: -3.95E-07 uCi/Sa
13 J8MTP-1-AA-B J7J100000-572-BLK 10/05/2007 08:36	AmtRec:	199.50g,in	#Containers: 1		0.3	100	10B	1700	11/21/07 CB	Scr: Alpha: Beta:
14 J8MTP-1-AC-C J7J100000-572-LCS 10/05/2007 08:36	AmtRec:	200.50g,in	ASD4333 10/31/07,pd #Containers: 1		0.7	100	10A			Scr: Alpha: Beta:

TA Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 2 ISV - Insufficient Volume for Analysis WO Cnt: 14
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4.8.29

82

TAL RICHLAND

11/20/2007 10:49:44 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 11/19/2007

Sep1 DT/Tm Tech:

Batch: 7283572 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: pH < 2.0 #1 J8D2E reduced due to weight screens. JS 11-20-07
#11 reduced aliquots due to weight screens. JS 11.20.07

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

J8D2E1AD-SAMP Constituent List:

ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:

J8MTP1AA-BLK:

ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:

J8MTP1AC-LCS:

Am-241	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

J8D2E1AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

J8MTP1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

J8MTP1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TAL RICHLAND

11/23/2007 2:47:28 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: 222

AnalyDueDate: 11/19/2007

Sep1 DT/Tm Tech:

Batch: 7327265 **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	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J8F00-2-AA J7J080130-4-SAMP 10/05/2007 11:39		68.40g,in AmtRec: 3XLP	#Containers: 3	1.5	41.0	200	10P	1710	11/26	
								Scr:	Alpha: -2.87E-04 uCi/Sa	Beta: 7.82E-04 uCi/Sa
2 KCTKH-1-AA-B J7K230000-265-BLK 10/05/2007 11:39		198.20g,in AmtRec:	#Containers: 1		1.5		10C	2053	11/24/07	
								Scr:	Alpha:	Beta:
3 KCTKH-1-AC-C J7K230000-265-LCS 10/05/2007 11:39		200.20g,in AmtRec:	ASD4341 10/31/07,pd 06/01/01,r #Containers: 1		1.2		10B			
								Scr:	Alpha:	Beta:

Comments: pH < 2.0. Aliquot reduced due to weight screen. JB 11-23-07

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

J8F002AA-SAMP Constituent List:

KCTKH1AA-BLK Constituent List:

KCTKH1AC-LCS:

J8F002AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KCTKH1AA-BLK Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KCTKH1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TAL RICHLAND

11/23/2007 2:47:29 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 11/19/2007

Sep1 DT/Tm Tech:

Batch: 7327265 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

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

Approved By _____ Date: _____

TAL RICHLAND

11/20/2007 10:18:24 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: 235

AnalyDueDate: 11/19/2007

Sep1 DT/Tm Tech:

Batch: 7283574 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ / Harris, D

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 J8D2E-1-AE J7J050345-1-SAMP 10/05/2007 09:24		132.00g,in AmtRec: 20ML,500ML,7XLP #Containers: 9		1.5	64.7	100	27A	1517	11/21/07	Scr: Alpha: -9.85E-04 uCi/Sa Beta: -2.56E-04 uCi/Sa
2 J8D6C-1-AC J7J050365-1-SAMP 10/05/2007 08:36		200.00g,in AmtRec: 20ML,6XLP #Containers: 7			74.3		27B			Scr: Alpha: 1.56E-04 uCi/Sa Beta: 1.19E-04 uCi/Sa
3 J8D6N-1-AA J7J050367-1-SAMP 10/05/2007 00:00		27.10g,in AmtRec: 20ML,LP #Containers: 2			17.3	200	31A	1730	11/21/07	Scr: Alpha: 1.36E-03 uCi/Sa 1.3E-01L Beta: 3.37E-03 uCi/Sa 2.7E-02L
4 J8D7V-1-AA J7J050367-2-SAMP 10/05/2007 11:59		82.00g,in AmtRec: 20ML,LP #Containers: 2			42.8	200	31B			Scr: Alpha: 6.82E-04 uCi/Sa 2.6E-01L Beta: 1.09E-03 uCi/Sa 8.2E-02L
5 J8D7W-1-AA J7J050367-3-SAMP 10/05/2007 10:39		200.00g,in AmtRec: 20ML,LP #Containers: 2			34.2		27C	1517	11/21/07	Scr: Alpha: -4.90E-05 uCi/Sa Beta: 4.09E-04 uCi/Sa
6 J8FX2-1-AC J7J080130-1-SAMP 10/05/2007 08:15		202.10g,in AmtRec: 20ML,4XLP #Containers: 5			0.4		27D			Scr: Alpha: 1.10E-04 uCi/Sa Beta: -7.42E-04 uCi/Sa
7 J8F0M-1-AC J7J080130-2-SAMP 10/05/2007 09:02		99.10g,in AmtRec: 20ML,4XLP #Containers: 5			50.9	200	31C	1730	11/21/07	Scr: Alpha: -1.89E-04 uCi/Sa Beta: 3.63E-03 uCi/Sa 9.9E-02L

TA 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

Page 1

ISV - Insufficient Volume for Analysis

WO Cnt: 7

Prep_SamplePrep v4.8.29

TAL RICHLAND

11/20/2007 10:18:26 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 11/19/2007

Sep1 DT/Tm Tech:

Batch: 7283574 **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	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 J8F0T-1-AC J7J080130-3-SAMP 10/05/2007 09:02	AmtRec: 20ML,4XLP	140.70g,in	#Containers: 5	1.5	74.3	100	28C	1650	11/21/07	Scr: Alpha: 1.38E-03 uCi/Sa Beta: 2.55E-03 uCi/Sa 1.4E-01L
9 J8F0T-1-AE-X J7J080130-3-DUP 10/05/2007 09:02	AmtRec: 20ML,4XLP	140.10g,in	#Containers: 5		63.1		28B			Scr: Alpha: 1.38E-03 uCi/Sa Beta: 2.55E-03 uCi/Sa 1.4E-01L
10 J8F00-1-AC J7J080130-4-SAMP 10/05/2007 11:39	AmtRec: 3XLP	92.60g,in	#Containers: 3		80.9	200	31D	1730		Scr: Alpha: -2.87E-04 uCi/Sa Beta: 7.82E-04 uCi/Sa
11 J8F1C-1-AC J7J080130-5-SAMP 10/05/2007 11:19	AmtRec: 20ML,6XLP	200.90g,in	#Containers: 7		82.0	100	28C	1650		Scr: Alpha: 5.97E-04 uCi/Sa Beta: 1.55E-03 uCi/Sa
12 J8F1K-1-AC J7J080130-7-SAMP 10/05/2007 09:45	AmtRec: 20ML,LP	200.40g,in	#Containers: 2		61.3		28D			Scr: Alpha: -1.59E-04 uCi/Sa Beta: 2.25E-04 uCi/Sa
13 J8HT1-1-AC J7J090186-1-SAMP 10/08/2007 09:43	AmtRec: 20ML,4XLP	200.20g,in	#Containers: 5		39.3		26B	1709	11/21/07	Scr: Alpha: -2.08E-07 uCi/Sa Beta: -2.66E-07 uCi/Sa
14 J8HVF-1-AC J7J090186-2-SAMP 10/08/2007 10:50	AmtRec: 20ML,4XLP	200.50g,in	#Containers: 5		81.9		26C 11/21/07 1000			Scr: Alpha: -4.61E-07 uCi/Sa Beta: 5.54E-07 uCi/Sa

TAL RICHLAND

11/20/2007 10:18:26 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 11/19/2007

Sep1 DT/Tm Tech:

Batch: 7283574 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:
15 J8HVK-1-AC J7J090186-3-SAMP 10/08/2007 11:42		200.10g,in AmtRec: 20ML,4XLP	#Containers: 5	1.5	68.0	100	26	1709	11/21/07	
							Scr:	Alpha: 1.81E-07 uCi/Sa		Beta: -3.95E-07 uCi/Sa
16 J8MVH-1-AA-B J7J100000-574-BLK 10/05/2007 09:02		201.90g,in AmtRec:	#Containers: 1		1.0	200	32	1730	11/21/07	
							Scr:	Alpha:		Beta:
17 J8MVH-1-AC-C J7J100000-574-LCS 10/05/2007 09:02		201.10g,in AmtRec:	BESB3159 10/22/07,pd #Containers: 1		0.8		32			
							Scr:	Alpha:		Beta:

Comments: pH < 2.0 [illegible] 11/20/07
Samples #3, #4, #7, #8 + 9 reduced due to high Screen results. All others reduced due to weight screens. JB 11-20-07

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

J8D2E1AE-SAMP Constituent List:
BETA RDL:4 pCi/L LCL: UCL: RPD:
J8MVH1AA-BLK:
BETA RDL:4 pCi/L LCL: UCL: RPD:
J8MVH1AC-LCS:
Sr-90 RDL: pCi/L LCL:70 UCL:130 RPD:20

J8D2E1AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8MVH1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8MVH1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TAL RICHLAND

11/20/2007 10:18:27 AM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 11/19/2007

Sep1 DT/Tm Tech:

Batch: 7283574 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:

Approved By _____ Date: _____

TAL RICHLAND

11/19/2007 7:10:54 PM

Sample Preparation/Analysis

Balance Id:1120373922,1120482733,1120

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 11/19/2007

Sep1 DT/Tm Tech: 11/09/2007 14:41,ManisD

Batch: 7283576 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech: 11/19/2007 10:02,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 J8D2N-1-AA J7J050345-2-SAMP		1000.05g,in	SRTB15456 10/30/07,pd 05/22/07		1.0	23.6	100	4A 1A	0814 1013	11/20 11/21/07	
						11/09/2007 14:41;s1, 11/19/2007					
10/05/2007 12:49		AmtRec: 20ML,3XLP	#Containers: 4					Scr:	Alpha: -1.02E-04 uCi/Sa		Beta: 3.20E-04 uCi/Sa
2 J8D2W-1-AA J7J050345-3-SAMP		1000.00g,in	SRTB15457 10/30/07,pd 05/22/07		1.0	23.7	100	4B 1B	0814 1013	11/20 11/21/07	
						11/09/2007 14:41;s1, 11/19/2007					
10/05/2007 12:49		AmtRec: 20ML,3XLP	#Containers: 4					Scr:	Alpha: -3.63E-04 uCi/Sa		Beta: 3.20E-04 uCi/Sa
3 J8D20-1-AA J7J050345-4-SAMP		1000.02g,in	SRTB15458 10/30/07,pd 05/22/07		1.0	24.3	100	4C 1C	0814 1013	11/20 11/21/07	
						11/09/2007 14:41;s1, 11/19/2007					
10/05/2007 10:35		AmtRec: 20ML,3XLP	#Containers: 4					Scr:	Alpha: -3.55E-04 uCi/Sa		Beta: 4.50E-04 uCi/Sa
4 J8D22-1-AA J7J050345-5-SAMP		1000.00g,in	SRTB15459 10/30/07,pd 05/22/07		1.0	23.7	100	4D 1D	0814 1013	11/20 11/21/07	
						11/09/2007 14:41;s1, 11/19/2007					
10/05/2007 11:23		AmtRec: 20ML,3XLP	#Containers: 4					Scr:	Alpha: 4.12E-04 uCi/Sa		Beta: 9.20E-05 uCi/Sa

TAL RICHLAND

11/19/2007 7:10:55 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:1120373922,1120373922,1120

Pipet #: _____

AnalyDueDate: 11/19/2007

Sep1 DT/Tm Tech: 11/09/2007 14:41,ManisD

Batch: 7283576 WATER pCi/L PM, Quote: SA , 57671

SEQ Batch, Test: None

Sep2 DT/Tm Tech: 11/19/2007 10:02,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 J8D23-1-AA J7J050345-6-SAMP		1000.06g,in	SRTB15460 10/30/07,pd 05/22/07,r		1.0	22.3	100	1A	0926	11/20/07 RC/LS	
						11/09/2007 14:41;s1, 11/19/2007		2A	1023	11/21/07	
10/05/2007 11:23		AmtRec: 20ML,3XLP		#Containers: 4				Scr:	Alpha: 7.13E-04 uCi/Sa	Beta: -7.18E-04 uCi/Sa	
6 J8D6C-1-AE J7J050365-1-SAMP		1000.06g,in	SRTB15461 10/30/07,pd 05/22/07,r		1.0	23.1	100	1B	0921	11/20/07 RC/LS	
						11/09/2007 14:41;s1, 11/19/2007		2B	1023	11/21/07	
10/05/2007 08:36		AmtRec: 20ML,6XLP		#Containers: 7				Scr:	Alpha: 1.56E-04 uCi/Sa	Beta: 1.19E-04 uCi/Sa	
7 J8FX2-1-AD J7J080130-1-SAMP		1000.01g,in	SRTB15462 10/30/07,pd 05/22/07,r		1.0	22.9	100	1C	0926	11/20/07 RC/LS	
						11/09/2007 14:41;s1, 11/19/2007		2C	1023	11/21/07	
10/05/2007 08:15		AmtRec: 20ML,4XLP		#Containers: 5				Scr:	Alpha: 1.10E-04 uCi/Sa	Beta: -7.42E-04 uCi/Sa	
8 J8F0M-1-AD J7J080130-2-SAMP		1000.02g,in	SRTB15463 10/30/07,pd 05/22/07,r		1.0	23.4	100	60 1D	0921	11/20/07 RC/LS	
						11/09/2007 14:41;s1, 11/19/2007		7A	0645	11/21/07	
10/05/2007 09:02		AmtRec: 20ML,4XLP		#Containers: 5				Scr:	Alpha: -1.89E-04 uCi/Sa	Beta: 3.63E-03 uCi/Sa	9.9E-02L

TAL RICHLAND

11/19/2007 7:10:55 PM

Sample Preparation/Analysis

Balance Id:1120373922,1120373922,1120

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 11/19/2007

Sep1 DT/Tm Tech: 11/09/2007 14:41,ManisD

Batch: 7283576 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech: 11/19/2007 10:02,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:
9 J8F0T-1-AD		1000.04g,in	SRTB15464		1.0	23.8	100	2A	80 0721 1149	11/20/07 RC/LO	
J7J080130-3-SAMP			10/30/07,pd 05/22/07 r								
						11/09/2007 14:41;s1, 11/19/2007		7A	0929	11/21/07	
10/05/2007 09:02		AmtRec: 20ML,4XLP		#Containers: 5				Scr:	Alpha: 1.38E-03 uCi/Sa	Beta: 2.55E-03 uCi/Sa	1.4E-01L
10 J8F1C-1-AE		1000.02g,in	SRTB15465		1.0	23.8	100	2B	0721	11/20/07 RC/LO	
J7J080130-5-SAMP			10/30/07,pd 05/22/07 r								
						11/09/2007 14:41;s1, 11/19/2007		2D	1023	11/21/07	
10/05/2007 11:19		AmtRec: 20ML,6XLP		#Containers: 7				Scr:	Alpha: 5.97E-04 uCi/Sa	Beta: 1.55E-03 uCi/Sa	
11 J8F1G-1-AA		1000.02g,in	SRTB15466		1.0	23.4	100	2C	0721	11/20/07 RC/LO	
J7J080130-6-SAMP			10/30/07,pd 05/22/07 r								
						11/09/2007 14:41;s1, 11/19/2007		3A	1023	11/21/07	
10/05/2007 09:45		AmtRec: 20ML,3XLP		#Containers: 4				Scr:	Alpha: -5.71E-05 uCi/Sa	Beta: -1.68E-04 uCi/Sa	
12 J8HT1-1-AD		1000.02g,in	SRTB15467		1.0	23.7	100	2D	0721	11/20/07 RC/LO	
J7J090186-1-SAMP			10/30/07,pd 05/22/07 r								
						11/09/2007 14:41;s1, 11/19/2007		3B	1023	11/21/07	
10/08/2007 09:43		AmtRec: 20ML,4XLP		#Containers: 5				Scr:	Alpha: -2.08E-07 uCi/Sa	Beta: -2.66E-07 uCi/Sa	

TAL RICHLAND

11/19/2007 7:10:55 PM

Sample Preparation/Analysis

Balance Id:1120373922,1120373922,1120

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 11/19/2007

Sep1 DT/Tm Tech: 11/09/2007 14:41,ManisD

Batch: 7283576 WATER pCi/L PM, Quote: SA , 57671

SEQ Batch, Test: None

Sep2 DT/Tm Tech: 11/19/2007 10:02,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:
13 J8HT1-1-AE-X		1000.03g,in	SRTB15468		1.0	23	100	3A	0921	11/20/07 RC/CB	
J7J090186-1-DUP			10/30/07,pd 05/22/07,r								
						11/09/2007 14:41;s1, 11/19/2007		3C	1013	11/21/07	
10/08/2007 09:43		AmtRec: 20ML,4XLP		#Containers: 5				Scr:	Alpha: -2.08E-07 uCi/Sa		Beta: -2.66E-07 uCi/Sa
14 J8HVF-1-AD		1000.01g,in	SRTB15469		1.0	23.1	100	3B	0921	11/20/07 RC/CB	
J7J090186-2-SAMP			10/30/07,pd 05/22/07,r								
						11/09/2007 14:41;s1, 11/19/2007		3D	1013	11/21/07	
10/08/2007 10:50		AmtRec: 20ML,4XLP		#Containers: 5				Scr:	Alpha: -4.61E-07 uCi/Sa		Beta: 5.54E-07 uCi/Sa
15 J8HVK-1-AD		1000.03g,in	SRTB15470		1.0	23.9	100	3C	0921	11/20/07 RC/CB	
J7J090186-3-SAMP			10/30/07,pd 05/22/07,r								
						11/09/2007 14:41;s1, 11/19/2007		4A	1013	11/21/07	
10/08/2007 11:42		AmtRec: 20ML,4XLP		#Containers: 5				Scr:	Alpha: 1.81E-07 uCi/Sa		Beta: -3.95E-07 uCi/Sa
16 J8MVV-1-AA-B		1000.03g,in	SRTB15471		1.0	23	100	3D	0921	11/20/07 RC/CB	
J7J100000-576-BLK			10/30/07,pd 05/22/07,r								
						11/09/2007 14:41;s1, 11/19/2007		4B	1013	11/21/07	
10/08/2007 09:43		AmtRec:		#Containers: 1				Scr:	Alpha:		Beta:

TAL RICHLAND

11/19/2007 7:10:55 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:1120373922,1120373922,1120

Pipet #: _____

AnalyDueDate: 11/19/2007

Sep1 DT/Tm Tech: 11/09/2007 14:41,ManisD

Batch: 7283576 pCi/L

Sep2 DT/Tm Tech: 11/19/2007 10:02,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:
17 J8MVV-1-AC-C		1000.04g,in	SRSG1397		1.0	24.3	100	7A	0921	11/20/07 RC/S	
J7J100000-576-LCS			10/22/07,pd 05/22/07,r								
						~~11/09/2007 14:41;s1, 11/19/2007~~		4C	103	11/21/07	
10/08/2007 09:43		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:

Comments:

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

J8D2N1AA-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

J8MVV1AA-BLK:

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

J8MVV1AC-LCS:

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

J8D2N1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8MVV1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8MVV1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TAL RICHLAND

11/16/2007 8:31:51 AM

Sample Preparation/Analysis

Balance Id:1120373922

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 11/19/2007

Sep1 DT/Tm Tech:

Batch: 7283577 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,Barcotl/ARA

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 J8D2E-1-AG J7J050345-1-SAMP 10/05/2007 09:24	AmtRec: 20ML,500ML,7XLP	2501.60g,in	#Containers: 9		100mL 0.93		64	1246	11/20/07 RC/KB	Scr: Alpha: -9.85E-04 uCi/Sa Beta: -2.56E-04 uCi/Sa
2 J8D2E-1-AL-X J7J050345-1-DUP 10/05/2007 09:24	ISV for Dup IB 11-16-07						66	16:11	11/20/07 RC/KB	Scr: Alpha: -9.85E-04 uCi/Sa Beta: -2.56E-04 uCi/Sa
3 J8MVX-1-AA-B J7J100000-577-BLK 10/05/2007 09:24	AmtRec:	2500.50g,in	#Containers: 1		100mL 0.00		65	1249	11/20/07 RC/KB	Scr: Alpha: Beta:
4 J8MVX-1-AC-C J7J100000-577-LCS 10/05/2007 09:24	AmtRec:	2501.30g,in	QCAG1419 10/31/07,pd 03/07/05,r #Containers: 1				66	1246	11/20/07 RC/KB	Scr: Alpha: Beta:

Comments: ISV for Dup IB 11-16-07

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

J8D2E1AG-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:						
J8MVX1AA-BLK:											
Co-60	RDL:2.50E+01	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:

95

TAL RICHLAND

10/10/2007 3:32:35 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 11/19/2007 W05245

Batch: 7283578 **WATER** **pCi/L** **PM, Quote: SA , 57671**
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 10-23-07 0m
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 J8D2E-1-AC J7J050345-1-SAMP 10/05/2007 09:24		AmtRec: 20ML,500ML,7XLP	#Containers: 9			Scr:	Alpha: -9.85E-04 uCi/Sa	Beta: -2.56E-04 uCi/Sa
2 J8D2E-1-AM-X J7J050345-1-DUP 10/05/2007 09:24		AmtRec: 20ML,500ML,7XLP	#Containers: 9			Scr:	Alpha: -9.85E-04 uCi/Sa	Beta: -2.56E-04 uCi/Sa
3 J8MV0-1-AA-B J7J100000-578-BLK 10/05/2007 09:24		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
4 J8MV0-1-AC-C J7J100000-578-LCS 10/05/2007 09:24		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
5 J8MV0-1-AD-BX J7J100000-578-MBLK 10/05/2007 09:24		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 J8MV0-1-AE-CM J7J100000-578-MLCS 10/05/2007 09:24		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
7 J8MV0-1-AF-BN J7J100000-578-IBLK 10/05/2007 09:24		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

TAL RICHLAND

10/10/2007 3:32:36 PM

Sample Preparation/Analysis

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

Balance Id: 10445
Pipet #:
Sep1 DT/Tm Tech: 10-23-07 Bw
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 11/19/2007

Batch: 7283578 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 J8MV0-1-AG-BN J7J100000-578-IBLK 10/05/2007 09:24	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Comments:

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

J8D2E1AC-SAMP Constituent List:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
J8MV01AA-BLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
J8MV01AC-LCS:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
J8MV01AD-MBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
J8MV01AE-MLCS:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
J8MV01AF-IBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
J8MV01AG-IBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:

J8D2E1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8MV01AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8MV01AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8MV01AD-MBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8MV01AE-MLCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8MV01AF-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TAL RICHLAND

10/10/2007 3:32:37 PM

Sample Preparation/Analysis

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

Balance Id: 13445
Pipet #:
Sep1 DT/Tm Tech: 10 23 07 an
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 11/19/2007

Batch: 7283578 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:

J8MV01AG-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TAL RICHLAND

10/10/2007 3:32:28 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

AnalyDueDate: 11/19/2007 WO 5245

Batch: 7283571 **WATER** **pCi/L** **PM, Quote: SA , 57671**
SEQ Batch, Test: None

Balance Id: N/A
Pipet #:
Sep1 DT/Tm Tech: 11/7-0 7am
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 J8D2E-1-AF J7J050345-1-SAMP 10/05/2007 09:24		AmtRec: 20ML,500ML,7XLP	#Containers: 9			Scr:	Alpha: -9.85E-04 uCi/Sa	Beta: -2.56E-04 uCi/Sa
2 J8D6C-1-AD J7J050365-1-SAMP 10/05/2007 08:36		AmtRec: 20ML,6XLP	#Containers: 7			Scr:	Alpha: 1.56E-04 uCi/Sa	Beta: 1.19E-04 uCi/Sa
3 J8D6C-1-AF-X J7J050365-1-DUP 10/05/2007 08:36		AmtRec: 20ML,6XLP	#Containers: 7			Scr:	Alpha: 1.56E-04 uCi/Sa	Beta: 1.19E-04 uCi/Sa
4 J8F00-1-AD J7J080130-4-SAMP 10/05/2007 11:39		AmtRec: 3XLP	#Containers: 3			Scr:	Alpha: -2.87E-04 uCi/Sa	Beta: 7.82E-04 uCi/Sa
5 J8F1C-1-AD J7J080130-5-SAMP 10/05/2007 11:19		AmtRec: 20ML,6XLP	#Containers: 7			Scr:	Alpha: 5.97E-04 uCi/Sa	Beta: 1.55E-03 uCi/Sa
6 J8MR7-1-AA-B J7J100000-571-BLK 10/05/2007 08:36		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
7 J8MR7-1-AC-C J7J100000-571-LCS 10/05/2007 08:36		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

TAL RICHLAND

10/10/2007 3:32:29 PM

Sample Preparation/Analysis

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

Balance Id: N/A
Pipet #:
Sep1 DT/Tm Tech: 11-7-07 bm
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 11/19/2007

Batch: 7283571 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 J8MR7-1-AD-BN J7J100000-571-IBLK 10/05/2007 08:36	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Comments:

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

J8D2E1AF-SAMP Constituent List:
  C-14        RDL:2.00E+02    pCi/L    LCL:70      UCL:130     RPD:20
J8MR71AA-BLK:
  C-14        RDL:2.00E+02    pCi/L    LCL:        UCL:        RPD:
J8MR71AC-LCS:
  C-14        RDL:200         pCi/L    LCL:70      UCL:130     RPD:20
J8MR71AD-IBLK:
  C-14        RDL:2.00E+02    pCi/L    LCL:        UCL:        RPD:

J8D2E1AF-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J8MR71AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J8MR71AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J8MR71AD-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

TAL RICHLAND

10/5/2007 3:23:49 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 11/19/2007

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
EA Chromium, Hexavalent (7196A)
5I CLIENT: HANFORD

Batch: 7278533 WATER mg/L
SEQ Batch, Test: None All Tests: 7278533 88EA,

PM, Quote: SA , 57671

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

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J8D2E-1-AA J7J050345-1-SAMP 10/05/2007 09:24		AmtRec: 20ML,500ML,7XLP	#Containers: 9			Scr:	Alpha:	Beta:
2 J8D2E-1-AH-S J7J050345-1-MS 10/05/2007 09:24		AmtRec: 20ML,500ML,7XLP	#Containers: 9			Scr:	Alpha:	Beta:
3 J8D2E-1-AJ-D J7J050345-1-MSD 10/05/2007 09:24		AmtRec: 20ML,500ML,7XLP	#Containers: 9			Scr:	Alpha:	Beta:
4 J8D2E-1-AK-X J7J050345-1-DUP 10/05/2007 09:24		AmtRec: 20ML,500ML,7XLP	#Containers: 9			Scr:	Alpha:	Beta:
5 J8D5H-1-AA-B J7J050000-533-BLK 10/05/2007 09:24		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 J8D5H-1-AC-C J7J050000-533-LCS 10/05/2007 09:24		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

10/5/2007 3:23:52 PM

Sample Preparation/Analysis

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
EA Chromium, Hexavalent (7196A)
5I CLIENT: HANFORD

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

AnalyDueDate: 11/19/2007

Batch: 7278533 mg/L
SEQ Batch, Test: None

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

Comments:

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

J8D2E1AA-SAMP Constituent List:
HEXCHROME RDL:0.002 mg/L LCL:85 UCL:115 RPD:20
J8D2E1AH-MS Constituent List:
HEXCHROME RDL:0.002 mg/L LCL:85 UCL:115 RPD:20
J8D2E1AJ-MSD:
HEXCHROME RDL:0.002 mg/L LCL:85 UCL:115 RPD:20
J8D5H1AA-BLK:
HEXCHROME RDL:0.002 mg/L LCL: UCL: RPD:
J8D5H1AC-LCS:
HEXCHROME RDL:0.002 mg/L LCL:85 UCL:115 RPD:20

J8D2E1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8D2E1AH-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8D2E1AJ-MSD:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8D5H1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8D5H1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

11/30/2007 10:00:10 AM

ICOC Fraction Transfer/Status Report

ByDate: 11/30/2006, 12/5/2007, Batch: '7283572', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7283572						
AC		**CalcC**	**BockJ**	11/20/2007 10:42:09		
SC			wagarr	IsBatched	10/10/2007 3:42:23 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	11/20/2007 10:42:09 AM	RICH-RC-5014 Revision 7
SC			BockJ	Prep1C	11/20/2007 10:49:46 AM	RICH-RC-5014 REVISION 7
SC			BlackCL	InCnt1	11/21/2007 11:47:42 AM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	11/21/2007 10:05:42 PM	RICH-RD-0003 REVISION 5
AC			**BockJ**	11/20/2007 10:49:46		
AC			**BlackCL**	11/21/2007 11:47:42		
AC			**DAWKINSO**	11/21/2007 10:05:42		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.30

11/30/2007 9:53:59 AM

ICOC Fraction Transfer/Status Report

ByDate: 11/30/2006, 12/5/2007, Batch: '7327265', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7327265						
AC		CalcC	BockJ	11/23/2007 2:45:09		
SC			antonsonl	IsBatched	11/23/2007 1:02:19 PM	ICOC_RADCALC v4.8.29
SC			BockJ	InPrep	11/23/2007 2:45:09 PM	RICH-RC-5021 Revision 5
SC			BockJ	Prep1C	11/23/2007 2:47:39 PM	RICH-RC-5014 REVISION 7
SC			BostedD	Prep2C	11/28/2007 3:42:57 PM	RICH-RC-5014 REVISION 7
SC			DAWKINSO	InCnt1	11/28/2007 4:04:17 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	11/29/2007 10:23:22 PM	RICH-RD-0003 REVISION 5
AC			BockJ	11/23/2007 2:47:39		
AC			BostedD	11/28/2007 3:42:57		
AC			DAWKINSO	11/28/2007 4:04:17		
AC			DAWKINSO	11/29/2007 10:23:22		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.30

11/23/2007 2:06:37 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/23/2006, 11/28/2007, Batch: '7283574', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting				Comments
7283574							
AC		CalcC	BockJ	11/20/2007 10:03:55			
SC			wagarr	IsBatched	10/10/2007 3:42:23 PM		ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	11/20/2007 10:03:55 AM		RICH-RC-5014 Revision 7
SC			BockJ	Prep1C	11/20/2007 10:18:43 AM		RICH-RC-5014 REVISION 7
SC			HarrisD	Prep1C	11/20/2007 10:37:26 AM		RICH-RC-5014 REVISION 7
SC			BlackCL	InCnt1	11/21/2007 12:18:06 PM		RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	11/21/2007 10:05:30 PM		RICH-RD-0003 REVISION 5
AC			BockJ	11/20/2007 10:18:43			
AC			HarrisD	11/20/2007 10:37:26			
AC			BlackCL	11/21/2007 12:18:06			
AC			DAWKINSO	11/21/2007 10:05:30			

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt:5

ICOCFractions v4.8.30

11/21/2007 3:57:37 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/21/2006, 11/26/2007, Batch: '7283576', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7283576						
AC		CalcC	WoodT	11/6/2007 7:20:47		
SC			wagarr	IsBatched	10/10/2007 3:42:23 PM	ICOC_RADCALC v4.8.26
SC			WoodT	InPrep	11/6/2007 7:20:47 AM	rich-rc-5015 Revision 6
SC			WoodT	Prep1C	11/6/2007 8:50:54 AM	RICH-RC-5006 REVISION 7
SC			ManisD	InSep1	11/6/2007 9:49:47 AM	RICH-RC-5006 REV 7
SC			ManisD	Sep1C	11/9/2007 2:50:58 PM	RICH-RC-5006 REV 7
SC			DAWKINSO	InCnt1	11/9/2007 3:14:28 PM	RICH-RD-0007 REVISION 6
SC			BlackCL	Cnt1C	11/12/2007 8:28:45 AM	RICH-RD-0007 REVISION 6
SC			ManisD	InSep2	11/19/2007 7:35:38 AM	RICH-RC-5071 REV 5
SC			ManisD	Sep2C	11/19/2007 7:13:23 PM	RICH-RC-5071 REV 5
SC			DAWKINSO	InCnt2	11/19/2007 7:25:52 PM	RICH-RD-0003 REVISION 5
SC			ClarkR	CalcC	11/21/2007 11:04:10 AM	RICH-RD-0003 REVISION 5
AC			WoodT	11/6/2007 8:50:54		
AC			ManisD	11/6/2007 9:49:47		
AC			ManisD	11/9/2007 2:50:58 PM		
AC			DAWKINSO	11/9/2007 3:14:28 PM		
AC			BlackCL	11/12/2007 8:28:45		
AC			ManisD	11/19/2007 7:35:38		
AC			ManisD	11/19/2007 7:13:23		
AC			DAWKINSO	11/19/2007 7:25:52		
AC			ClarkR	11/21/2007 11:04:10		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 10

ICOCFractions v4.8.30

11/21/2007 3:55:34 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/21/2006, 11/26/2007, Batch: '7283577', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7283577						
AC		**CalcC**	**Barcotl**	11/16/2007 8:34:34		
SC			wagarr	IsBatched	10/10/2007 3:42:23 PM	ICOC_RADCALC v4.8.26
SC			Barcotl	InPrep2	11/16/2007 8:34:34 AM	RICH-RC-5017 REVISION 6
SC			Barcotl	Prep2C	11/16/2007 8:35:18 AM	RICH-RC-5017 REVISION 6
SC			BockJ	InPrep2	11/16/2007 8:43:10 AM	RICH-RC-5017 REVISION 6
SC			AshworthA	Prep2C	11/20/2007 7:28:03 AM	RICH-RC-5017 REVISION 6
SC			ClarkR	InCnt1	11/20/2007 7:49:40 AM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	CalcC	11/20/2007 7:26:05 PM	RICH-RD-0007 REVISION 6
AC			**Barcotl**	11/16/2007 8:34:50		
AC			**Barcotl**	11/16/2007 8:35:18		
AC			**BockJ**	11/16/2007 8:43:10		
AC			**AshworthA**	11/20/2007 7:28:03		
AC			**ClarkR**	11/20/2007 7:49:40		
AC			**DAWKINSO**	11/20/2007 7:26:05		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt:7

ICOCFractions v4.8.30

11/23/2007 8:41:37 AM

ICOC Fraction Transfer/Status Report

ByDate: 11/23/2006, 11/28/2007, Batch: '7283578', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7283578						
AC		**CalcC**	**McDowellD**	10/24/2007 4:18:24		
SC			wagarr	IsBatched	10/10/2007 3:42:23 PM	ICOC_RADCALC v4.8.26
SC			McDowellD	Sep1C	10/24/2007 4:18:24 PM	RICH-RC-5007 REVISION 6
SC			DAWKINSO	InCnt1	10/24/2007 5:18:05 PM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	10/26/2007 8:26:40 AM	RICH-RD-0001 REVISION 4
AC			**DAWKINSO**	10/24/2007 5:18:05		
AC			**BlackCL**	10/26/2007 8:26:40		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 3

ICOCFractions v4.8.30

11/23/2007 8:42:57 AM

ICOC Fraction Transfer/Status Report

ByDate: 11/23/2006, 11/28/2007, Batch: '7283571', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7283571						
AC		CalcC	McDowellD	10/23/2007 1:45:17		
SC			wagarr	IsBatched	10/10/2007 3:42:23 PM	ICOC_RADCALC v4.8.26
SC			McDowellD	InSep1	10/23/2007 1:45:17 PM	RICH-RC-5022 REVISION 3
SC			McDowellD	Sep1C	11/8/2007 8:29:02 AM	RICH-RC-5022 REVISION 3
SC			BlackCL	InCnt1	11/8/2007 8:38:02 AM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	11/9/2007 8:29:13 AM	RICH-RD-0001 REVISION 4
AC			McDowellD	11/8/2007 8:29:02		
AC			BlackCL	11/8/2007 8:38:02		
AC			BlackCL	11/9/2007 8:29:13		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8 30

W05245

REPORT COVER PAGE 1

CASE NARRATIVE 4

SAMPLE RESULTS SUMMARY 9

DATA REVIEW CHECKLIST/NCM 37

CHAIN OF CUSTODY 57

SAMPLE PREP ANALYSIS SHEETS 81

ICOC 103

TOTAL # PAGES IN DOCUMENT 109

RECEIVED

NOV 3 0 2007

DEa 4/11/08

110