Analytical Data Package Prepared For

Fluor Hanford

Radiochemical Analysis By

TAL Richland TARL

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

Data Package Contains 92 *Pages*

Report Nbr: 37689

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MAR 28 2008
EDMC

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05254	S08-010	B1PW18	J7J170325-1	J87C41AA	9J87C410	7305570
	I08-002	B1PV25	J7J170338-1	J87G71AA	9J87G710	7305565
		B1PV25	J7J170338-1	J87G71AC	9J87G710	7305566
		B1PV25	J7J170338-1	J87G71AD	9J87G710	7305570
		B1PTY2	J7J170338-2	J87H01AA	9J87H010	7305565
		B1PTY2	J7J170338-2	J87H01AC	9J87H010	7305566
		B1PV21	J7J170338-3	J87JP1AA	9J87JP10	7305565
		B1PV21	J7J170338-3	J87JP1AC	9J87JP10	7305566
	G08-010	B1PPN2	J7J180326-1	J9APP1AA	9J9APP10	7305566
	I08-002	B1PV47	J7J180330-1	J9ARL1AA	9J9ARL10	7305565
		B1PV47	J7J180330-1	J9ARL1AC	9J9ARL10	7305566
		B1PV33	J7J180330-2	J9ARV1AA	9J9ARV10	7305565
		B1PV33	J7J180330-2	J9ARV1AC	9J9ARV10	7305566
	S08-010	B1PVY8	J7J180341-1	J9AVG1AA	9J9AVG10	7305570
		B1PVY8	J7J180341-1	J9AVG1AC	9J9AVG10	7305569

DEC 2007
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Comments:

0076619

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SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05254	S08-010	B1PVK8	J7J180341-2	J9AV41AA	9J9AV410	7305565
		B1PVK8	J7J180341-2	J9AV41AC	9J9AV410	7305566
		B1PVD2	J7J180341-3	J9AWD1AA	9J9AWD10	7305565
		B1PVD2	J7J180341-3	J9AWD1AC	9J9AWD10	7305566
		B1PVD2	J7J180341-3	J9AWD1AD	9J9AWD10	7305569
		B1PVD3	J7J180341-4	J9AWX1AA	9J9AWX10	7305565
		B1PVD3	J7J180341-4	J9AWX1AC	9J9AWX10	7305566
		B1PVD3	J7J180341-4	J9AWX1AD	9J9AWX10	7305569
		B1PVJ3	J7J180341-5	J9AXF1AA	9J9AXF10	7305565
		B1PVJ3	J7J180341-5	J9AXF1AC	9J9AXF10	7305566
		B1PVJ3	J7J180341-5	J9AXF1AD	9J9AXF10	7305569
		B1PW16	J7J180341-6	J9AXV1AA	9J9AXV10	7305565
		B1PW16	J7J180341-6	J9AXV1AC	9J9AXV10	7305566
	I08-002	B1PTT6	J7J240110-1	J9NRG1AA	9J9NRG10	7305565
		B1PTT6	J7J240110-1	J9NRG1AC	9J9NRG10	7305566
		B1PV43	J7J240110-2	J9NRH1AA	9J9NRH10	7305565
		B1PV43	J7J240110-2	J9NRH1AC	9J9NRH10	7305566
		B1PV17	J7J240110-3	J9NRK1AA	9J9NRK10	7305565
		B1PV17	J7J240110-3	J9NRK1AC	9J9NRK10	7305566
		B1PV17	J7J240110-3	J9NRK1AD	9J9NRK10	7305569
		B1PTN6	J7J240110-4	J9NRM1AA	9J9NRM10	7305565
		B1PTN6	J7J240110-4	J9NRM1AC	9J9NRM10	7305566
		B1PTN6	J7J240110-4	J9NRM1AD	9J9NRM10	7305570
		B1PTN6	J7J240110-4	J9NRM1AE	9J9NRM10	7305569
	A08-010	B1PPJ0	J7J240116-1	J9NTP1AA	9J9NTP10	7305567
		B1PPJ1	J7J240116-2	J9NTR1AA	9J9NTR10	7305567

Comments:

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SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05254	S08-010	B1PVH9	J7J240120-1	J9NVM1AA	9J9NVM10	7305565
		B1PVH9	J7J240120-1	J9NVM1AC	9J9NVM10	7305566

Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

December 10, 2007

Attention: Steve Trent

SAF Number	:	S08-010, I08-002, G08-010, A08-010
Date SDG Closed	:	October 24, 2007
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05254
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between October 17, 2007 and October 24, 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
B1PW18	J87C4	10/17/07	WATER
B1PV25	J87G7	10/17/07	WATER
B1PTY2	J87H0	10/17/07	WATER
B1PV21	J87JP	10/17/07	WATER
B1PPN2	J91PP	10/18/07	WATER
B1PV47	J9ARL	10/18/07	WATER
B1PV33	J9ARV	10/18/07	WATER
B1PVY8	J9AVG	10/18/07	WATER
B1PVK8	J9AV4	10/18/07	WATER
B1PVD2	J9AWD	10/18/07	WATER
B1PVD3	J9AWX	10/18/07	WATER
B1PVJ3	J9AXF	10/18/07	WATER
B1PW16	J9AXV	10/18/07	WATER

B1PTT6	J9NRG	10/19/07	WATER
B1PV43	J9NRH	10/19/07	WATER
B1PV17	J9NRK	10/19/07	WATER
B1PTN6	J9NRM	10/19/07	WATER
B1PPJ0	J9NTP	10/22/07	WATER
B1PPJ1	J9NTR	10/22/07	WATER
B1PVH9	J9NVM	10/23/07	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
Iodine-129 (LL) by method RICH-RC-5025
Liquid Scintillation Counting
Carbon-14 by method RICH-RC-5022

IV. Quality Control

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

QC and sample results are reported in the same units.

V. Comments

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:

The LCS had a low recovery. The LCS was recounted with acceptable results. Samples B1PTY2, B1PV47, B1PV33, B1PVK8, B1PVJ3, B1PW16, B1PTT6, B1PV43, B1PV17, B1PTN6, B1PVH9 and B1PVH9 DUP were analyzed with reduced aliquots based on weight screen results. Except as noted, the LCS, batch blank, samples and sample duplicate (B1PVH9) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:

Samples B1PV47, B1PVK8, B1PVJ3, B1PW16, B1PV43, B1PV17 amd B1PVH9 DUP were analyzed with reduced aliquots based on weight screen results. B1PVK8 and B1PVH9 did not meet the CRDL due to the reduced aliquots. The activity detected in these samples were greater than the IDC, therefore the data can be accepted. Except as noted, the LCS, batch blank, samples and sample duplicate (B1PTT6) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006

The LCS, batch blank, samples and sample duplicate (B1PVY8) results are within contractual requirements.

Gamma Spectroscopy

Iodine-129 (LL) by method RICH-RC-5025:

The LCS, batch blank, samples and sample duplicate (B1PPJ0) results are within contractual requirements.

Liquid Scintillation Counting

Carbon-14 by method RICH-RC-5022:

The LCS, batch blank, samples and sample duplicate (B1PW18) results are within contractual requirements.

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

Reviewed and approved:

Sandra Seger
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.

12/10/2007 10:19:40 AM

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 37689 File Name: h:\Reportdb\edd\FeadIV\Rad\W05254.Edd, h:\Reportdb\edd\FeadIV\Rad\37689.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:
9J87C410	B1PW18		MW6-SBB-A1	S08-010	W05254					10/17/2007 09:02

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7305570	C-14	14762-75-5	1.99E+01	pCi/L	4.3E+00	5.2E+00		8.81E+00	100.0	C14_LSC	2.00E-01	L	11/10/2007 02:03	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:
9J87G710	B1PV25		MW6-SBB-A1	I08-002	W05254					10/17/2007 11:24

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7305565	ALPHA	12587-46-1	1.60E+00	pCi/L	1.1E+00	1.2E+00		1.30E+00	100.0	9310_ALPHABETA	2.004E-01	L	11/30/2007 03:05	I
7305566	BETA	12587-47-2	9.14E+00	pCi/L	1.9E+00	2.3E+00		3.00E+00	100.0	9310_ALPHABETA	2.002E-01	L	11/29/2007 14:41	I
7305570	C-14	14762-75-5	1.83E+02	pCi/L	7.6E+00	1.1E+01		8.81E+00	100.0	C14_LSC	2.00E-01	L	11/10/2007 03:29	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J87H010	B1PTY2		MW6-SBB-A1	I08-002	W05254					10/17/2007 10:22

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7305565	ALPHA	12587-46-1	3.83E-01	pCi/L	6.9E-01	7.0E-01	U	1.41E+00	100.0	9310_ALPHABETA	1.858E-01	L	11/30/2007 03:05	I
7305566	BETA	12587-47-2	2.51E+01	pCi/L	2.6E+00	4.2E+00		2.89E+00	100.0	9310_ALPHABETA	2.006E-01	L	11/29/2007 14:41	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J87JP10	B1PV21		MW6-SBB-A1	I08-002	W05254					10/17/2007 09:02

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7305565	ALPHA	12587-46-1	4.59E-01	pCi/L	8.7E-01	8.8E-01	U	1.85E+00	100.0	9310_ALPHABETA	1.982E-01	L	11/30/2007 03:05	I
7305566	BETA	12587-47-2	2.74E+01	pCi/L	2.7E+00	4.4E+00		2.66E+00	100.0	9310_ALPHABETA	2.011E-01	L	11/29/2007 14:41	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J9APP10	B1PPN2		MW6-SBB-A1	G08-010	W05254					10/18/2007 12:25

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7305566	BETA	12587-47-2	1.39E+03	pCi/L	1.7E+01	1.8E+02		2.78E+00	100.0	9310_ALPHABETA	1.997E-01	L	11/29/2007 14:41	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J9ARL10	B1PV47		MW6-SBB-A1	I08-002	W05254					10/18/2007 12:05

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7305565	ALPHA	12587-46-1	2.58E+00	pCi/L	1.4E+00	1.6E+00		1.50E+00	100.0	9310_ALPHABETA	1.907E-01	L	11/30/2007 03:05	I
7305566	BETA	12587-47-2	1.37E+01	pCi/L	2.1E+00	2.7E+00		2.69E+00	100.0	9310_ALPHABETA	1.984E-01	L	11/29/2007 14:41	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.

12/10/2007 10:19:40 AM

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 37689 File Name: h:\Reportdb\edd\FeadIV\Rad\W05254.Edd, h:\Reportdb\edd\FeadIV\Rad\37689.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:
9J9ARV10	B1PV33		MW6-SBB-A1	I08-002	W05254					10/18/2007 10:46

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7305565	ALPHA	12587-46-1	1.58E+00	pCi/L	1.2E+00	1.2E+00	U	1.68E+00	100.0	9310_ALPHABETA	1.941E-01	L	11/30/2007 03:05	I
7305566	BETA	12587-47-2	7.30E+01	pCi/L	4.1E+00	1.1E+01		2.83E+00	100.0	9310_ALPHABETA	1.995E-01	L	11/29/2007 14:41	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J9AV410	B1PVK8		MW6-SBB-A1	S08-010	W05254					10/18/2007 12:36

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7305565	ALPHA	12587-46-1	5.33E+00	pCi/L	2.3E+00	2.6E+00		2.19E+00	100.0	9310_ALPHABETA	8.70E-02	L	11/30/2007 05:15	I
7305566	BETA	12587-47-2	2.55E+01	pCi/L	3.3E+00	4.6E+00		4.35E+00	100.0	9310_ALPHABETA	9.25E-02	L	11/29/2007 15:31	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:
9J9AVG10	B1PVY8		MW6-SBB-A1	S08-010	W05254					10/18/2007 10:46

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7305570	C-14	14762-75-5	4.38E+03	pCi/L	3.3E+01	1.6E+02		8.81E+00	100.0	C14_LSC	2.00E-01	L	11/10/2007 04:11	I
7305569	SR-90	10098-97-2	3.73E+01	pCi/L	1.1E+00	5.5E+00		5.11E-01	77.7	SRISO_SEP_PRE	1.0017E+00	L	11/28/2007 07:35	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:
9J9AWD10	B1PVD2		MW6-SBB-A1	S08-010	W05254					10/18/2007 10:24

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7305565	ALPHA	12587-46-1	2.10E+00	pCi/L	1.2E+00	1.3E+00		1.21E+00	100.0	9310_ALPHABETA	2.011E-01	L	11/30/2007 08:39	I
7305566	BETA	12587-47-2	5.05E+01	pCi/L	3.4E+00	7.1E+00		2.60E+00	100.0	9310_ALPHABETA	2.014E-01	L	11/29/2007 14:41	I
7305569	SR-90	10098-97-2	2.54E+01	pCi/L	9.9E-01	3.8E+00		5.99E-01	76.0	SRISO_SEP_PRE	1.0009E+00	L	11/28/2007 07:35	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:
9J9AWX10	B1PVD3		MW6-SBB-A1	S08-010	W05254					10/18/2007 10:24

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7305565	ALPHA	12587-46-1	2.20E+00	pCi/L	1.2E+00	1.3E+00		1.16E+00	100.0	9310_ALPHABETA	2.001E-01	L	11/30/2007 08:39	I
7305566	BETA	12587-47-2	5.12E+01	pCi/L	3.5E+00	7.3E+00		2.83E+00	100.0	9310_ALPHABETA	1.984E-01	L	11/29/2007 14:41	I
7305569	SR-90	10098-97-2	2.58E+01	pCi/L	9.8E-01	3.9E+00		5.27E-01	73.6	SRISO_SEP_PRE	1.0016E+00	L	11/28/2007 07:36	I

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

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.

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J9AXF10	B1PVJ3		MW6-SBB-A1	S08-010	W05254					10/18/2007 09:12

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7305565	ALPHA	12587-46-1	4.50E+00	pCi/L	1.5E+00	1.8E+00		1.02E+00	100.0	9310_ALPHABETA	1.539E-01	L	11/30/2007 05:15	I
7305566	BETA	12587-47-2	1.85E+01	pCi/L	2.5E+00	3.4E+00		3.05E+00	100.0	9310_ALPHABETA	1.872E-01	L	11/29/2007 14:41	I
7305569	SR-90	10098-97-2	6.90E+00	pCi/L	5.5E-01	1.1E+00		5.30E-01	71.4	SRISO_SEP_PRE	1.0017E+00	L	11/28/2007 07:36	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J9AXV10	B1PW16		MW6-SBB-A1	S08-010	W05254					10/18/2007 09:47

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7305565	ALPHA	12587-46-1	6.86E+00	pCi/L	2.4E+00	2.9E+00		2.30E+00	100.0	9310_ALPHABETA	9.51E-02	L	11/30/2007 05:15	I
7305566	BETA	12587-47-2	1.02E+01	pCi/L	2.3E+00	2.8E+00		3.53E+00	100.0	9310_ALPHABETA	1.694E-01	L	11/29/2007 14:41	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J9NRG10	B1PTT6		MW6-SBB-A1	I08-002	W05254					10/19/2007 10:39

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7305565	ALPHA	12587-46-1	2.83E-01	pCi/L	8.1E-01	8.1E-01	U	1.90E+00	100.0	9310_ALPHABETA	1.882E-01	L	11/30/2007 08:39	I
7305566	BETA	12587-47-2	6.11E+01	pCi/L	3.9E+00	8.5E+00		2.96E+00	100.0	9310_ALPHABETA	2.008E-01	L	11/29/2007 14:41	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J9NRH10	B1PV43		MW6-SBB-A1	I08-002	W05254					10/19/2007 11:37

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7305565	ALPHA	12587-46-1	2.26E+00	pCi/L	1.2E+00	1.3E+00		1.28E+00	100.0	9310_ALPHABETA	1.524E-01	L	11/30/2007 05:15	I
7305566	BETA	12587-47-2	9.90E+00	pCi/L	2.0E+00	2.7E+00		3.04E+00	100.0	9310_ALPHABETA	1.927E-01	L	11/29/2007 14:41	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J9NRK10	B1PV17		MW6-SBB-A1	I08-002	W05254					10/19/2007 09:07

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7305565	ALPHA	12587-46-1	2.95E+00	pCi/L	1.3E+00	1.5E+00		1.43E+00	100.0	9310_ALPHABETA	1.39E-01	L	11/30/2007 05:15	I
7305566	BETA	12587-47-2	7.42E+00	pCi/L	1.8E+00	2.0E+00		2.89E+00	100.0	9310_ALPHABETA	1.986E-01	L	11/29/2007 14:41	I
7305569	SR-90	10098-97-2	-7.34E-03	pCi/L	2.1E-01	2.1E-01	U	4.71E-01	75.8	SRISO_SEP_PRE	1.0009E+00	L	11/28/2007 07:36	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J9NRM10	B1PTN6		MW6-SBB-A1	I08-002	W05254					10/19/2007 08:17

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

12/10/2007 10:19:40 AM

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 37689 File Name: h:\Reportdb\edd\FeadIV\Rad\W05254.Edd, h:\Reportdb\edd\FeadIV\Rad\37689.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7305565	ALPHA	12587-46-1	1.61E+00	pCi/L	8.5E-01	9.3E-01		9.27E-01	100.0	9310_ALPHABETA	1.741E-01	L	11/30/2007 07:09	I
7305566	BETA	12587-47-2	2.06E+01	pCi/L	2.5E+00	3.6E+00		2.90E+00	100.0	9310_ALPHABETA	1.994E-01	L	11/29/2007 14:41	I
7305570	C-14	14762-75-5	8.86E+01	pCi/L	5.9E+00	7.7E+00		8.81E+00	100.0	C14_LSC	2.00E-01	L	11/10/2007 04:54	I
7305569	SR-90	10098-97-2	-6.78E-02	pCi/L	1.9E-01	2.4E-01	U	5.37E-01	71.0	SRISO_SEP_PRE	1.0011E+00	L	11/28/2007 07:36	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J9NTP10	B1PPJ0		MW6-SBB-A1	A08-010	W05254					10/22/2007 12:50

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7305567	I-129L	15046-84-1	1.03E+00	pCi/L	2.7E-01	2.7E-01	U	5.14E-01	95.7	I129LL_SEP_LEPS	3.8889E+00	L	11/27/2007 22:37	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:
9J9NTR10	B1PPJ1		MW6-SBB-A1	A08-010	W05254					10/22/2007 09:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7305567	I-129L	15046-84-1	-8.75E-02	pCi/L	1.2E-01	1.2E-01	U	2.01E-01	94.9	I129LL_SEP_LEPS	3.9291E+00	L	11/28/2007 06:52	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J9NVM10	B1PVH9		MW6-SBB-A1	S08-010	W05254					10/23/2007 09:15

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7305565	ALPHA	12587-46-1	4.80E+00	pCi/L	1.9E+00	2.2E+00		1.65E+00	100.0	9310_ALPHABETA	1.061E-01	L	11/30/2007 07:09	I
7305566	BETA	12587-47-2	1.08E+01	pCi/L	2.7E+00	3.0E+00		4.34E+00	100.0	9310_ALPHABETA	1.339E-01	L	11/29/2007 16:38	I

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

Monday, December 10, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05254.Edd, h:\Reportdb\edd\FeadIV\Rad\37689.Edd

Lab Sample Id:	KADD01AB	**Sdg/Rept Nbr:**	W05254 37689	**Collection Date:**	10/18/2007 10:46
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	10/18/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7305569	SR-90	1.88E-01	pCi/L	1.8E-01	U	3.40E-01	75.9		SRISO_SEP_P	1.0018E+00	11/28/2007				D
BLK	10098-97-2			1.8E-01						L	07:37				

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.

1

Monday, December 10, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05254.Edd, h:\Reportdb\edd\FeadIV\Rad\37689.Edd

Lab Sample Id:	KADD71AB	**Sdg/Rept Nbr:**	W05254	37689	**Collection Date:** 10/17/2007 09:02
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 10/17/2007

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
7305570	C-14	2.79E+00	pCi/L	4.5E+00	U	8.81E+00	100.0		C14_LSC	2.00E-01	11/10/2007				D
BLK	14762-75-5			3.7E+00						L	00:38				

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

Monday, December 10, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05254.Edd, h:\Reportdb\edd\FeadIV\Rad\37689.Edd

Lab Sample Id:	KADDJ1AB	**Sdg/Rept Nbr:**	W05254	37689	**Collection Date:** 10/23/2007 09:15
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 10/23/2007

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
7305565	ALPHA	-5.16E-02	pCi/L	1.9E-01	U	5.55E-01	100.0		9310_ALPHAB	1.99E-01	11/30/2007				D
BLK	12587-46-1			1.9E-01						L	07:09				

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

Monday, December 10, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05254.Edd, h:\Reportdb\edd\FeadIV\Rad\37689.Edd

Lab Sample Id:	KADDM1AB	**Sdg/Rept Nbr:**	W05254 37689	**Collection Date:**	10/19/2007 10:39
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	10/19/2007

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
7305566	BETA	5.63E-01	pCi/L	9.7E-01	U	1.91E+00	100.0		9310_ALPHAB	1.982E-01	11/29/2007				D
BLK	12587-47-2			9.7E-01						L	15:31				

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

Monday, December 10, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05254.Edd, h:\Reportdb\edd\FeadIV\Rad\37689.Edd

Lab Sample Id:	KADDT1AB	**Sdg/Rept Nbr:**	W05254 37689	**Collection Date:**	10/22/2007 12:50
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	10/22/2007

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
7305567	I-129L	-1.09E-01	pCi/L	1.3E-01	U	2.21E-01	93.5		I129LL_SEP_L	3.9825E+00	11/28/2007				D
BLK	15046-84-1			1.3E-01						L	06:53				

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

Monday, December 10, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05254.Edd, h:\Reportdb\edd\FeadIV\Rad\37689.Edd

Lab Sample Id:	KADD01CS	**Sdg/Rept Nbr:**	W05254 37689	**Collection Date:**	10/18/2007 10:46
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	10/18/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7305569	SR-90	1.64E+01	pCi/L	2.5E+00		4.15E-01	70.7	1.38E+01	SRISO_SEP_P	1.0004E+00	11/28/2007			70	D
BS	10098-97-2			8.6E-01				118.9		L	07:37			130	

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

Monday, December 10, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05254.Edd, h:\Reportdb\edd\FeadIV\Rad\37689.Edd

Lab Sample Id:	KADD71CS	**Sdg/Rept Nbr:**	W05254	37689	**Collection Date:** 10/17/2007 09:02
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 10/17/2007

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
7305570	C-14	3.91E+01	pCi/L	5.9E+00		8.81E+00	100.0	4.65E+01	C14_LSC	2.00E-01	11/10/2007			70	D
BS	14762-75-5			4.8E+00				84.0		L	01:21			130	

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

Monday, December 10, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05254.Edd, h:\Reportdb\edd\FeadIV\Rad\37689.Edd

Lab Sample Id: KADDJ2CS **Sdg/Rept Nbr:** W05254 37689 **Collection Date:** 10/23/2007 09:15

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 10/23/2007

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
7305565	ALPHA	1.74E+01	pCi/L	4.4E+00		4.16E-01	100.0	2.29E+01	9310_ALPHAB	1.989E-01	12/03/2007			70	D
BS	12587-46-1			1.9E+00				76.0		L	15:22			130	

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

Monday, December 10, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05254.Edd, h:\Reportdb\edd\FeadIV\Rad\37689.Edd

Lab Sample Id:	KADDM1CS	**Sdg/Rept Nbr:**	W05254	37689	**Collection Date:** 10/19/2007 10:39
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 10/19/2007

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
7305566	BETA	2.62E+01	pCi/L	4.0E+00		1.75E+00	100.0	2.24E+01	9310_ALPHAB	2.01E-01	11/29/2007			70	D
BS	12587-47-2			1.8E+00				116.7		L	15:31			130	

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

Monday, December 10, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05254.Edd, h:\Reportdb\edd\FeadIV\Rad\37689.Edd

Lab Sample Id: KADDT1CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05254 37689
Matrix: WATER WATER
QC Type: BS

Collection Date: 10/22/2007 12:50
Sample On Date:
Received Date: 10/22/2007

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
7305567	I-129	8.54E+00	pCi/L	1.1E+00		5.43E-01	94.2	9.67E+00	I129LL_SEP_L	3.9799E+00	11/28/2007			70	D
BS	15046-84-1			1.1E+00				88.3		L	08:44			130	

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

Monday, December 10, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05254.Edd, h:\Reportdb\edd\FeadIV\Rad\37689.Edd

Lab Sample Id:	J87C41CR	**Sdg/Rept Nbr:**	W05254	37689	**Collection Date:** 10/17/2007 09:02
Client Id:	B1PW18	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 10/17/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-010	MW6-SBB-A19981								AU	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7305570	C-14	1.55E+01	pCi/L	5.0E+00		8.81E+00	100.0		C14_LSC	2.00E-01	11/10/2007	24.7	1.2		D
DUP	14762-75-5	1.99E+01		4.1E+00						L	02:46	20.0	3		

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

Monday, December 10, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05254.Edd, h:\Reportdb\edd\FeadIV\Rad\37689.Edd

Lab Sample Id:	J9AVG1DR	**Sdg/Rept Nbr:**	W05254 37689	**Collection Date:**	10/18/2007 10:46
Client Id:	B1PVY8	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	10/18/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-010	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
7305569	SR-90	3.99E+01	pCi/L	5.9E+00		5.43E-01	71.1		SRISO_SEP_P	1.0015E+00	11/28/2007	6.6	0.6		D
DUP	10098-97-2	3.73E+01		1.2E+00						L	07:35	20.0	3		

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

Monday, December 10, 2007

TAL Richland QC Duplicate Report

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadI\\Rad\W05254.Edd, h:\Reportdb\edd\FeadI\\Rad\37689.Edd Lab Code: TARL

Lab Sample Id:	J9NRG1DR	**Sdg/Rept Nbr:**	W05254	37689	**Collection Date:** 10/19/2007 10:39
Client Id:	B1PTT6	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 10/19/2007

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
7305566	BETA	6.04E+01	pCi/L	8.5E+00		2.89E+00	100.0		9310_ALPHAB	1.994E-01	11/29/2007	1.1	0.1		
DUP	12587-47-2	6.11E+01		3.8E+00						L	14:41	20.0	3		D

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

Monday, December 10, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05254.Edd, h:\Reportdb\edd\FeadIV\Rad\37689.Edd

Lab Sample Id:	J9NTP1CR	**Sdg/Rept Nbr:**	W05254	37689	**Collection Date:** 10/22/2007 12:50
Client Id:	B1PPJ0	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 10/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A08-010	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
7305567	I-129L	9.38E-01	pCi/L	3.8E-01	U	5.65E-01	85.7		I129LL_SEP_L	3.9273E+00	11/28/2007	9.8	0.4		D
DUP	15046-84-1	1.03E+00		3.8E-01						L	06:50	20.0	3		

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

Monday, December 10, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05254.Edd, h:\Reportdb\edd\FeadIV\Rad\37689.Edd

Lab Sample Id:	J9NVM1DR	**Sdg/Rept Nbr:**	W05254	37689	**Collection Date:** 10/23/2007 09:15
Client Id:	B1PVH9	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 10/23/2007

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
7305565	ALPHA	5.65E+00	pCi/L	2.5E+00		2.18E+00	100.0		9310_ALPHAB	1.072E-01	11/30/2007	16.2	0.5		D
DUP	12587-46-1	4.80E+00		2.1E+00						L	07:09	20.0	3		

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

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

12/4/2007 11:24:35 AM

Lot No., Due Date: J7J170338,J7J180330,J7J180341,J7J240110,J7J240120; 12/10/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7305565; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05254; 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 => J87H01AA 185.80<200.00 J9AV41AA 87.00<200.00 J9AXF1AA 153.90<200.00 J9AXV1AA 95.10<200.00 J9NRG1AA 188.20<200.00 J9NRH1AA 152.40<200.00 J9NRK1AA 139.00<200.00 J9NRM1AA 174.10<200.00 J9NVM1AA 106.10<200.00 Q:VB		✓	
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK	✓		
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	✓		
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => J87G71AA ALPHA 1.6E+00 L:1.3E+00 J9ARL1AA ALPHA 2.6E+00 L:1.5E+00 J9AV41AA ALPHA 5.3E+00 L:2.2E+00 J9AWD1AA ALPHA 2.1E+00 L:1.2E+00		✓	

J9AWX1AA ALPHA 2.2E+00 L:1.2E+00
J9AXF1AA ALPHA 4.5E+00 L:1.0E+00
J9AXV1AA ALPHA 6.9E+00 L:2.3E+00
J9NRH1AA ALPHA 2.3E+00 L:1.3E+00
J9NRK1AA ALPHA 2.9E+00 L:1.4E+00
J9NRM1AA ALPHA 1.6E+00 L:9.3E-01
J9NVM1AA ALPHA 4.8E+00 L:1.7E+00

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

OK; No Callin Level Found => ALPHA

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 10-11380

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

First Level Review: Lisa Quistorson Date 12/4/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7305565
W05254

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 NCR

Second Level Review: Sheryl A. Adam Date: 12-5-07

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

Clouseau
Nonconformance Memo

TestAmerica

NCM #:	10-11380		
NCM Initiated By:	Lisa Antonson	Classification:	**Anomaly**
Date Opened:	12/04/2007	Status:	**PMREVIEW**
Date Closed:		Production Area:	Environmental - Prep
		Tests:	Alpha by GPC-Am
		Lot #'s (Sample #'s):	J7J170338 (1,2,3), J7J180330 (1,2), J7J180341 (2,3,4,5,6), J7J240110 (1,2,3,4), J7J240120 (1), J7K010000 (565),
		QC Batches:	7305565,
Nonconformance:	LCS result out of limits		
Subcategory:	Analyte was recovered low in the LCS		

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	12/04/2007	The LCS was recovered low in this Alpha batch

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	12/04/2007	The LCS was recounted with acceptable results.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 12/4/2007

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/30/2007 9:47:56 AM

Lot No., Due Date: J7J170338,J7J180326,J7J180330,J7J180341,J7J240110,J7J240120; 12/10/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7305566; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: ~~W05253~~,W05254; WATER

SLS 12/10/07

	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#10-11359

First Level Review [signature] **Date** 11-30-7

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 7305566
~~W05255~~, W05254
SKS 12/10/07

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 R Adam Date: 11-30-07

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-11359**
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): J7J180341 (2), J7J240120 (1),
QC Batches: None.,

Nonconformance: MDA not met
Subcategory: Data accepted

Problem Description / Root Cause

Name	Date	Description
John Norton	11/30/2007	These samples did not meet the RDLdue to reduced aliquots.

Corrective Action

Name	Date	Corrective Action
John Norton	11/30/2007	The activity detected in the samples was greater than the IDC, the data can be accepted.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 11/30/2007

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/29/2007 11:23:41 AM

Lot No., Due Date: J7J180341,J7J240110; 12/10/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7305569; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05254; 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 Matt Landy **Date** 11-29-07

TA Richland

QAS_RADCALCv4.8.30

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7J05569
W05254

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

Comments on any "No" response: _____

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/29/2007 3:55:27 PM

Lot No., Due Date: J7J240116; 12/10/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7305567; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05254; 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 ✓ SAK 11-30-07

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

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

5.4 Was transcription checked? Yes ✓ No N/A

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

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

6.0 Comments on any No response:

First Level Review Lisa Anderson **Date** 11/29/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7305567
W05254

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

Comments on any "No" response: _____

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

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

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/23/2007 10:53:29 AM

Lot No., Due Date: J7J170325,J7J170338,J7J180341,J7J240110; 12/10/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7305570; RC14 C-14 by LSC

SDG, Matrix: ~~W05253~~,W05254; WATER

1.0 COC

SKS 12/10/07

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: 7305570
W05253, W05254

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

TestAmerica Richland

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S08-010-164
	J7J170325 W05257 DUE 11-30-07 J87C4	Page 1 of 1

Collector: DJ SPARKS	Contact/Requester: Steve Trent 10/17/07	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 10	Ice Chest No.: Jump-4 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
B1PW18		W	10-17-07	0900	1x20-mL P	Activity Scan	None
B1PW18		W	↓	↓	2x1000-mL G/P	C14_LSC: C-14 (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DJ SPARKS		[signature]	10-17-07 1400	[signature]	W LANE	TAL-R	10-17-07 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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

DUE 11-30-07

Date/Time Received: 10-17-07 1400

Client: PGW SDG #: W05257 4 NA[ ] SAF #: 508-010 NA [ ]
RW 10/17/07

Work Order Number: J7J170325 Chain of Custody # 508-010-164

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: 10-17-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I08-002-148

Page 1 of 1

J7J170338 W05257 DUE 11-30-07 J87G7

Collector: DJ SPARKS	Contact/Requester: Steve Trent PW 01/17/07	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 10	Ice Chest No.: Jump 4 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
B1PV25		W	10-17-07	1129	1x20-mL P	Activity Scan	None
B1PV25		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1PV25		W	↓	↓	2x1000-mL G/P	C14_LSC: C-14 (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DJ SPARKS			OCT 17 2007 1400		W LANE	TAL-N	OCT 17 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

TestAmerica Richland

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J170338 W05257 4 DUE 11-30-07 J87H0

C.O.C. # I08-002-102

Page 1 of 1

Collector: DJ SPARKS	Contact/Requester: Steve Trent RW 10/17/07	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	1FNF-SDG 10	Ice Chest No.: Jump 4 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
B1PTY2		W	10-17-07	1022	1x20-mL P	Activity Scan	None
B1PTY2		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
D J SPARKS	OCT 17 2007 1400	LJ LANE TAL-R	OCT 17 2007 1400

Matrix *

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

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J170338 W05257 DUE 11-30-07 J87JP

C.O.C. # **I08-002-142**

Page 1 of 1

Collector: DJ SPARKS	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 10	Ice Chest No.: Jump-4 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
B1PV21		W	10-17-07	0900	1x20-mL P	Activity Scan	None
B1PV21		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DJ SPARKS			10-17-07 1400		W LANE	TAL-R	10-17-07 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

TestAmerica Richland

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

DUE 11-30-07

Date/Time Received: 10-17-07 1400

Client: PGW SDG #: W0S257 4 NA[ ] SAF #: I08-002 NA [ ]
RW 10/17/07

Work Order Number: J7J170338 Chain of Custody # I08-002-148,-102,-142

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: RJ Date: 10-17-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TestAmerica Richland

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

JTJ180326 W05254 Due 12-03-07

C.O.C. # G08-010-10

Page 1 of 1

Collector: Josh Herrick, Fluor Hanford	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-506-12	Ice Chest No.: SmL-438 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
B1PPN2		W	10-15-07	1225	1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
B1PPN2		W	↓	↓	1x20-mL P	Activity Scan	None
						J9APP	

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
Josh Herrick, Fluor Hanford	Herrick	OCT 18 2007 1350	Fluor Hanford, K. B. HULSE	KB Hulse	OCT 18 2007 1350
Fluor Hanford, K. B. HULSE	KB Hulse	OCT 18 2007 1430	LJ LANE	THL-IL	10/18/07 1430
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: 10-18-07 1430

Client: PGW SDG #: W05254 NA[ ] SAF #: G08-010 NA [ ]

Work Order Number: J7J180326 Chain of Custody # G08-010-10

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: 10-18-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

JTJ180330 W05254 Due 12.03.07

C.O.C. # **108-002-180**

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-506-11 pg 12	Ice Chest No.: SmL-438 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
B1PV47		W	10/18/07	1205	1x20-mL P	Activity Scan	None
B1PV47		W	10/18/07	1205	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						JQARL	

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Fluor Hanford K. B. HULSE	OCT 18 2007 1450	L. LANE	10/18/07 1450

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

TestAmerica Richland

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J180330 W05254 Due 12-03-07

C.O.C. # **I08-002-160**

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: 100KR4JAM(1/2), OCTOBER 2007	HNF-N-506-11 pg 12	Ice Chest No.: 3mL-438 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
B1PV33		W	10-18-07	1046	1x20-mL P	Activity Scan	None
B1PV33		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						GGARY	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Fluor Hanford	[signature]	10/18/07 1430		L J LANE	TAL-R	10/18/07 1450
Relinquished By	K. B. HULSE		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: 10-18-07 1430

Client: PGW SDG #: W05254 NA[ ] SAF #: I08-002 NA [ ]

Work Order Number: JTJ180330 Chain of Custody # I08-002-180,-160

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: 2
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: 10-18-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TestAmerica Richland

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J180341 W05254 Due 12-03-07

C.O.C. # S08-010-178

Page 1 of 1

Collector: Fluor Hanford K. B. HULSE	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-506-11 Zg 12	Ice Chest No.: 5mL-438 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: SURV	Priority: 45 Days	Offsite Property No.: N/A

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PVY8		W	10-18-07	1044	1x20-mL P	Activity Scan	None
B1PVY8		W			2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1PVY8		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						J9AVG	

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Fluor Hanford K. B. HULSE	OCT 18 2007 1450	L. J. LANE TAL-R	OCT 18 2007 1450
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J180341 WO5254 Due 12-03-07

C.O.C. # S08-010-72

Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	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.: 438 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
B1PVK8		W	10/18/07	1230	1x20-mL P	Activity Scan	None
B1PVK8		W	10/18/07	1230	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						J9AV4	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			OCT 18 2007 1330	Fluor Hanford K. B. HULSE			OCT 18 2007 1330
Fluor Hanford K. B. HULSE			OCT 18 2007 1450		LJLANE	TAL-IL	10/18/07 1430
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J180341 W05254 Due 12-03-07

C.O.C. # S08-010-10

Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	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.: 438 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
B1PVD2		W	10/18/07	1024	1x20-mL P	Activity Scan	None
B1PVD2		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1PVD2		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						J9AWD	

Relinquished By	Date/Time	Received By	Date/Time
Fluor Hanford R. T. SICKLE (Sign)	OCT 18 2007 1350	Fluor Hanford K. B. HULSE (Print) (Sign)	OCT 18 2007 1350
Fluor Hanford K. B. HULSE	OCT 18 2007 1430	W LANE TAL-R	10/18/07 1430

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 Richland

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J180341 W05254 Due 12-03-07

C.O.C. # S08-010-11

Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	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-N506-5	Ice Chest No. 438 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
B1PVD3		W	10/18/07	1024	1x20-mL P	Activity Scan	None
B1PVD3		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1PVD3		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						J9AWX	

Relinquished By	Received By
Print: Fluor Hanford R. T. SICKLE; Sign; Date/Time 1370 OCT 18 2007	Print: Fluor Hanford K. B. HULSE; Sign; Date/Time OCT 18 2007 1330
Relinquished By: Fluor Hanford K. B. HULSE; Date/Time OCT 18 2007 1430	Received By: LVLANE TALK; Date/Time 10/18/07 1430
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 Richland

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J180341 W05254 Due 12.03.07

C.O.C. # S08-010-50

Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	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.: 438 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
B1PVJ3		W	10/18/07	0912	1x20-mL P	Activity Scan	None
B1PVJ3		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1PVJ3		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						J9AXF	

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Fluor Hanford R. T. SICKLE	OCT 18 2007 1330	Fluor Hanford K. B. HULSE	OCT 18 2007 1330
Fluor Hanford K. B. HULSE	OCT 18 2007 1450	LJ LANE TAL-R	10/18/07 1450

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 Richland

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FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J7G180341 W05254 Due 12.03.07	C.O.C. # S08-010-142 Page 1 of 1

Collector: Fluor Hanford K. B. HULSE	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-506-11 pg 12	Ice Chest No.: 5mL-438 Temp.
Shipped To (Lab): TestAmerica Incorporated Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: SURV	Priority: 45 Days	Offsite Property No.: N/A

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PW16		W	10-18-07	0947	1x20-mL P	Activity Scan	None
B1PW16		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						J9AXV	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Fluor Hanford K. B. HULSE		OCT 18 2007 1430		LJLANE	TAL-K	OCT 18 2007 1430
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum 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: 10-18-07 1430

Client: PGW SDG #: W05254 NA[ ] SAF #: S08-010 NA [ ]

Work Order Number: J7J180341 Chain of Custody # S08-010-178,-72,-10,-11,-50,-142

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: [signature] Date: 10-18-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TestAmerica Richland

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J240110 W05254 DUE 12-3-07 J9NRG

C.O.C. # I08-002-4

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	HNF-N-506-5	Ice Chest No.: 803	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
B1PTT6		W	10-19-07	1039	1x20-mL P	Activity Scan	None
B1PTT6		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			1200 OCT 19 2007	J.G. Hogan Fluor Hanford			1200 OCT 19 2007
J.G. Hogan Fluor Hanford			1420 10-19-07	LVLANE	TAL-R		1420 10-19-07
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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7JZ40110 W05254 DUE 12-3-07 J9NRH

C.O.C. # I08-002-172

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	HNF-N-506-5	Ice Chest No.: 803	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
B1PV43		W	10-19-07	1137	1x20-mL P	Activity Scan	None
B1PV43		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			OCT 19 2007 1200	J.G. Hogan Fluor Hanford			OCT 19 2007 1200
J.G. Hogan Fluor Hanford			10-19-07 1420				10-19-07 1420

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 Richland

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J240110 W05254 DUE 12-3-07 J9NRK

C.O.C. # I08-002-136

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	HNF-N-506-5	Ice Chest No.: 809 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
B1PV17		W	10-19-07	0907	1x20-mL P	Activity Scan	None
B1PV17		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1PV17		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Fluor Hanford R. T. SICKLE	OCT 19 2007 1200	J.G. Hogan Fluor Hanford	OCT 19 2007 1200
J.G. Hogan Fluor Hanford	10-19-07 1420	R. L. WLANE TAL-R	10-19-07 1420

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 Richland

TestAmerica Richland

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J240110 W05254 DUE 12-3-07 J9NRM

C.O.C. # I08-002-62

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	HNF-N-506-5	Ice Chest No.: 503 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
B1PTN6		W	10-19-07	0817	1x20-mL P	Activity Scan	None
B1PTN6		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1PTN6		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1PTN6		W			2x1000-mL G/P	C14_LSC: C-14 (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			OCT 19 2007 1200	J.G. Hogan Fluor Hanford			OCT 19 2007 1200
J.G. Hogan Fluor Hanford			10-19-07 1420	LJ LANE TALER			10-19-07 1420

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

DUE 12-3-07

Date/Time Received: 10-19-07 1420

Client: PGW SDG #: W05254 NA[ ] SAF #: I08-002 NA [ ]

Work Order Number: J7J240110 Chain of Custody # I08-002-4,-172,-136,-62

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: 4
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: 10-19-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TestAmerica Richland

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J240116 W05254 DUE 12-6-07 J9NTP

C.O.C. # A08-010-1

Page 1 of 1

Collector: Josh Herrick, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: A08-010	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: LLWMA(2)-PA, OCTOBER 2007	HNF-N-506-5	Ice Chest No.: STING-1 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: Other	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS

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

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

All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 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
B1PPJ0		W	10-22-07	1250	1x20-mL P	Activity Scan	None
B1PPJ0		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
Josh Herrick, Fluor Hanford	J. Herrick	OCT 22 2007 1509		WLANE TAL-R	OCT 22 2007 1509
Relinquished By		Date/Time	Received By		Date/Time
Relinquished By		Date/Time	Received By		Date/Time
Relinquished By		Date/Time	Received By		Date/Time

Matrix *

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

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J240116 W05254 DUE 12-6-07 J9NTR

C.O.C. # A08-010-2

Page 1 of 1

Collector: Josh Herrick, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: A08-010	Sampling Origin: Hanford Site	Purchase Order/Charge Code: STING-1 DA 10-22-07
Project Title: LLWMA(2)-PA, OCTOBER 2007	HNF N-506-5	Ice Chest No.: ~~GRP 03-028~~ Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: Other	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS

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

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

All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 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
B1PPJ1		W	10-22-07	0900	1x20-mL P	Activity Scan	None
B1PPJ1		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Josh Herrick, Fluor Hanford			1500 OCT 22 2007		LWLANE	TAL-R	1505 OCT 22 2007
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica Richland

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

DUE 12-6-07

Date/Time Received: 10-22-07 1509

Client: PGW SDG #: W05254 NA[ ] SAF #: A08-010 NA [ ]

Work Order Number: J7J240116 Chain of Custody # A08-010-1,-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: 2
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: 10-22-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TestAmerica Richland

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S08-010-44
	J7J240120 W05254 DUE 12-7-07 J9NVM	Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	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.: 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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PVH9		W	10/23/07	0915	1x20-mL P	Activity Scan	None
B1PVH9		W	10/23/07	0915	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2

Relinquished By	Date/Time	Received By	Date/Time
Print: Fluor Hanford R. T. SICKLE Sign:	10-23-07 1425	Print: R. R. WILANE Sign: TAL-R	10-23-07 1425
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

S = Soil		DS = Drum Solid	
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

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

DUE 12-7-07

Date/Time Received: 10-23-07 1425

Client: PGW SDG #: W05254 NA[ ] SAF #: 508-010 NA [ ]

Work Order Number: J7J240120 Chain of Custody # 508-010-44

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: RP Date: 10-23-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TestAmerica Richland

11/21/2007 8:20:38 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 #: _____

AnalyDueDate: 11/30/2007 W05254

Sep1 DT/Tm Tech:

Batch: 7305565 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

[redacted]

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 J87G7-1-AA J7J170338-1-SAMP [redacted] 10/17/2007 11:24		200.40g,in AmtRec: VIAL20,3XLP	#Containers: 4	1.5	30.8	50	10A	0330	11/30/07	
								Scr: Alpha: -4.21E-05 uCi/Sa		Beta: -4.55E-06 uCi/Sa
2 J87H0-1-AA J7J170338-2-SAMP [redacted] 10/17/2007 10:22		185.80g,in AmtRec: VIAL20,LP	#Containers: 2		34.7		10B			
								Scr: Alpha: 5.27E-05 uCi/Sa		Beta: -1.42E-04 uCi/Sa
3 J87JP-1-AA J7J170338-3-SAMP [redacted] 10/17/2007 09:02		198.20g,in AmtRec: VIAL20,LP	#Containers: 2		38.6		10C			
								Scr: Alpha: 1.40E-04 uCi/Sa		Beta: 4.17E-05 uCi/Sa
4 J9ARL-1-AA J7J180330-1-SAMP [redacted] 10/18/2007 12:05		190.70g,in AmtRec: 20ML,LP	#Containers: 2		32.6		10D			
								Scr: Alpha: 6.37E-05 uCi/Sa		Beta: 3.09E-05 uCi/Sa
5 J9ARV-1-AA J7J180330-2-SAMP [redacted] 10/18/2007 10:46		194.10g,in AmtRec: 20ML,LP	#Containers: 2		30.4		10F			
								Scr: Alpha: 2.19E-04 uCi/Sa		Beta: -7.73E-05 uCi/Sa
6 J9AV4-1-AA J7J180341-2-SAMP [redacted] 10/18/2007 12:36		87.00g,in AmtRec: 20ML,LP	#Containers: 2		40.4	100	10[illegible]	[illegible]	11/30/07	
								Scr: Alpha: 1.18E-03 uCi/Sa 1.5E-01L		Beta: 5.40E-04 uCi/Sa 1.7E-01L
7 J9AWD-1-AA J7J180341-3-SAMP [redacted] 10/18/2007 10:24		201.10g,in AmtRec: 20ML,4XLP	#Containers: 5		26.3	50	10F	0905		
								Scr: Alpha: -7.50E-04 uCi/Sa		Beta: 6.88E-04 uCi/Sa

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11/21/2007 8:20:39 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 #: _____

AnalyDueDate: 11/30/2007

Sep1 DT/Tm Tech:

Batch: 7305565 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

[redacted]

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 J9AWX-1-AA J7J180341-4-SAMP [redacted] 10/18/2007 10:24		200.10g,in AmtRec: 20ML,4XLP	#Containers: 5	1.5	11-29-07 ~~30.8~~ 26.6	50	103	0505	11/30/07	Scr: Alpha: 5.75E-04 uCi/Sa Beta: -3.10E-04 uCi/Sa
9 J9AXF-1-AA J7J180341-5-SAMP [redacted] 10/18/2007 09:12		153.90g,in AmtRec: 20ML,4XLP	#Containers: 5		~~34.7~~ 31.2	100	103	0606	11/30/07	Scr: Alpha: 3.94E-04 uCi/Sa Beta: 2.54E-04 uCi/Sa
10 J9AXV-1-AA J7J180341-6-SAMP [redacted] 10/18/2007 09:47		95.10g,in AmtRec: 20ML,LP	#Containers: 2		~~38.6~~ 32.6		10C			Scr: Alpha: 5.38E-05 uCi/Sa Beta: 4.18E-05 uCi/Sa
11 J9NRG-1-AA J7J240110-1-SAMP [redacted] 10/19/2007 10:39		188.20g,in AmtRec: VIAL20,LP	#Containers: 2		~~32.6~~ 36.7	50	10C	0505	11/30/07	Scr: Alpha: -1.03E-04 uCi/Sa Beta: 1.39E-04 uCi/Sa
12 J9NRH-1-AA J7J240110-2-SAMP [redacted] 10/19/2007 11:37		152.40g,in AmtRec: VIAL20,LP	#Containers: 2		~~30.4~~ 36.9	100	10D	0606	11/30/07	Scr: Alpha: 2.88E-06 uCi/Sa Beta: 9.59E-05 uCi/Sa
13 J9NRK-1-AA J7J240110-3-SAMP [redacted] 10/19/2007 09:07		139.00g,in AmtRec: VIAL20,4XLP	#Containers: 5		~~40.4~~ 26.1		10F			Scr: Alpha: 2.71E-04 uCi/Sa Beta: 3.83E-04 uCi/Sa
14 J9NRM-1-AA J7J240110-4-SAMP [redacted] 10/19/2007 08:17		174.10g,in AmtRec: VIAL20,6XLP	#Containers: 7		29.1		10A	0606	11/30/07	Scr: Alpha: -7.36E-04 uCi/Sa Beta: 9.64E-04 uCi/Sa

TestAmerica Richland
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TestAmerica Richland

11/21/2007 8:20:40 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 #:

AnalyDueDate: 11/30/2007

Sep1 DT/Tm Tech:

Batch: 7305565 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

[redacted]

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 J9NVM-1-AA J7J240120-1-SAMP [redacted] 10/23/2007 09:15		106.10g,in AmtRec: VIAL20,LP	#Containers: 2	1.5	38.7	100	13	0800	1/B Bon,	Scr: Alpha: 4.02E-05 uCi/Sa Beta: -1.62E-06 uCi/Sa
16 J9NVM-1-AD-X J7J240120-1-DUP [redacted] 10/23/2007 09:15		107.20g,in AmtRec: VIAL20,LP	#Containers: 2		37.0		13 C			Scr: Alpha: 4.02E-05 uCi/Sa Beta: -1.62E-06 uCi/Sa
17 KADDJ-1-AA-B J7K010000-565-BLK [redacted] 10/23/2007 09:15		199.00g,in AmtRec:	#Containers: 1		0.4		13 D			Scr: Alpha: Beta:
18 KADDJ-1-AC-C J7K010000-565-LCS [redacted] 10/23/2007 09:15		198.90g,in AmtRec:	ASD4339 10/31/07,pd #Containers: 1		0.6		13 F			Scr: Alpha: Beta:

Comments: J9AWD-SAMP "Comments. Aliquot poured up with sample from bottle marked for stont.90. We couldn't find a bottle for alpha/beta. JB 11/21/07"
PH <2.0. Aliquots reduced due to weight Screens. JB 11-21-07

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

J87G71AA-SAMP Constituent List:
ALPHA RDL:3 pCi/L LCL: UCL: RPD:
KADDJ1AA-BLK:

KADDJ1AC-LCS:

J87G71AA-SAMP Calc Info:

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11/21/2007 8:20:40 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: 11/30/2007

Sep1 DT/Tm Tech:

Batch: 7305565 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

[redacted]

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:

Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KADDJ1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KADDJ1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

SEVERN TRENT STL

*** RE-COUNT REQUEST ***

DUE DATE 11/30/07

CUSTOMER PGW

ANALYSIS Alpha

MATRIX water

LOT NUMBER J7J170338

SAMPLE DELIVERY GROUP

OLD BATCH NUMBER 7305516

	LAB SAMPLE ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1)	KA0DJ1ACU	70% LCS
2)		
3)		
4)		
5)		
6)		
7)		
8)		
9)		
10)		
11)		
12)		
13)		
14)		
15)		
16)		
17)		
18)		
19)		
20)		

RC-126 10/03 REV 4

12/3/2007 9:10:51 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: 11/30/2007

Sep1 DT/Tm Tech:

Batch: 7305565 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

[redacted]

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 J87G7-1-AA		200.40g,in								
J7J170338-1-SAMP [redacted]										
10/17/2007 11:24		AmtRec: VIAL20,3XLP	#Containers: 4					Scr:	Alpha: -4.21E-05 uCi/Sa	Beta: -4.55E-06 uCi/Sa
2 J87H0-1-AA		185.80g,in								
J7J170338-2-SAMP [redacted]										
10/17/2007 10:22		AmtRec: VIAL20,LP	#Containers: 2					Scr:	Alpha: 5.27E-05 uCi/Sa	Beta: -1.42E-04 uCi/Sa
3 J87JP-1-AA		198.20g,in								
J7J170338-3-SAMP [redacted]										
10/17/2007 09:02		AmtRec: VIAL20,LP	#Containers: 2					Scr:	Alpha: 1.40E-04 uCi/Sa	Beta: 4.17E-05 uCi/Sa
4 J9ARL-1-AA		190.70g,in								
J7J180330-1-SAMP [redacted]										
10/18/2007 12:05		AmtRec: 20ML,LP	#Containers: 2					Scr:	Alpha: 6.37E-05 uCi/Sa	Beta: 3.09E-05 uCi/Sa
5 J9ARV-1-AA		194.10g,in								
J7J180330-2-SAMP [redacted]										
10/18/2007 10:46		AmtRec: 20ML,LP	#Containers: 2					Scr:	Alpha: 2.19E-04 uCi/Sa	Beta: -7.73E-05 uCi/Sa
6 J9AV4-1-AA		87.00g,in								
J7J180341-2-SAMP [redacted]										
10/18/2007 12:36		AmtRec: 20ML,LP	#Containers: 2					Scr:	Alpha: 1.18E-03 uCi/Sa 1.5E-01L	Beta: 5.40E-04 uCi/Sa 1.7E-01L
7 J9AWD-1-AA		201.10g,in								
J7J180341-3-SAMP [redacted]										
10/18/2007 10:24		AmtRec: 20ML,4XLP	#Containers: 5					Scr:	Alpha: -7.50E-04 uCi/Sa	Beta: 6.88E-04 uCi/Sa

TestAmerica Richland

TestAmerica Richland

12/3/2007 9:10:51 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: 11/30/2007

Sep1 DT/Tm Tech:

Batch: 7305565 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

[redacted]

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 J9AWX-1-AA		200.10g,in								
J7J180341-4-SAMP [redacted]										
10/18/2007 10:24		AmtRec: 20ML,4XLP	#Containers: 5					Scr:	Alpha: 5.75E-04 uCi/Sa	Beta: -3.10E-04 uCi/Sa
9 J9AXF-1-AA		153.90g,in								
J7J180341-5-SAMP [redacted]										
10/18/2007 09:12		AmtRec: 20ML,4XLP	#Containers: 5					Scr:	Alpha: 3.94E-04 uCi/Sa	Beta: 2.54E-04 uCi/Sa
10 J9AXV-1-AA		95.10g,in								
J7J180341-6-SAMP [redacted]										
10/18/2007 09:47		AmtRec: 20ML,LP	#Containers: 2					Scr:	Alpha: 5.38E-05 uCi/Sa	Beta: 4.18E-05 uCi/Sa
11 J9NRG-1-AA		188.20g,in								
J7J240110-1-SAMP [redacted]										
10/19/2007 10:39		AmtRec: VIAL20,LP	#Containers: 2					Scr:	Alpha: -1.03E-04 uCi/Sa	Beta: 1.39E-04 uCi/Sa
12 J9NRH-1-AA		152.40g,in								
J7J240110-2-SAMP [redacted]										
10/19/2007 11:37		AmtRec: VIAL20,LP	#Containers: 2					Scr:	Alpha: 2.88E-06 uCi/Sa	Beta: 9.59E-05 uCi/Sa
13 J9NRK-1-AA		139.00g,in								
J7J240110-3-SAMP [redacted]										
10/19/2007 09:07		AmtRec: VIAL20,4XLP	#Containers: 5					Scr:	Alpha: 2.71E-04 uCi/Sa	Beta: 3.83E-04 uCi/Sa
14 J9NRM-1-AA		174.10g,in								
J7J240110-4-SAMP [redacted]										
10/19/2007 08:17		AmtRec: VIAL20,6XLP	#Containers: 7					Scr:	Alpha: -7.36E-04 uCi/Sa	Beta: 9.64E-04 uCi/Sa

TestAmerica Richland

12/3/2007 9:10:52 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: 11/30/2007

Sep1 DT/Tm Tech:

Batch: 7305565 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

[redacted]

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 J9NVM-1-AA J7J240120-1-SAMP [redacted] 10/23/2007 09:15		106.10g,in AmtRec: VIAL20,LP	#Containers: 2					Scr:	Alpha: 4.02E-05 uCi/Sa	Beta: -1.62E-06 uCi/Sa
16 J9NVM-1-AD-X J7J240120-1-DUP [redacted] 10/23/2007 09:15		107.20g,in AmtRec: VIAL20,LP	#Containers: 2					Scr:	Alpha: 4.02E-05 uCi/Sa	Beta: -1.62E-06 uCi/Sa
17 KADDJ-1-AA-B J7K010000-565-BLK [redacted] 10/23/2007 09:15		199.00g,in AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:
18 KADDJ-1-AC-C J7K010000-565-LCS [redacted] 10/23/2007 09:15		198.90g,in AmtRec:	ASD4339 10/31/07,pd #Containers: 1					Scr:	Alpha:	Beta:
[redacted] J7K010000-565-LCS [redacted] 10/23/2007 09:15		198.90 g AmtRec:	ASD 4339 #Containers: 1	1.5	0.L	100	100	Scr:	16.13 Alpha:	10/30/07 Beta:

Comments: J9AWD-SAMP "Comments. Aliquot poured up with sample from bottle marked for stont.90. We couldn't find a bottle for alpha/beta. JB 11/21/07"

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

J87G71AA-SAMP Constituent List:

12/4/2007 11:24:12 AM

ICOC Fraction Transfer/Status Report

ByDate: 12/4/2006, 12/9/2007, Batch: '7305565', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting				Comments
7305565							
AC		CalcC	BockJ	11/21/2007 8:07:50			
SC			wagarr	IsBatched	11/2/2007 9:30:10 AM		ICOC_RADCALC v4.8.29
SC			BockJ	InPrep	11/21/2007 8:07:50 PM		RICH-RC-5014 Revision 7
SC			BockJ	Prep1C	11/21/2007 8:20:42 PM		RICH-RC-5014 REVISION 7
SC			BostedD	Prep2C	11/29/2007 1:28:45 PM		RICH-RC-5014 REVISION 7
SC			BlackCL	InCnt1	11/29/2007 1:32:35 PM		RICH-RD-0003 REVISION 5
SC			BlackCL	CalcC	11/30/2007 9:57:16 AM		RICH-RD-0003 REVISION 5
SC			BlackCL	InCnt1	12/3/2007 10:40:53 AM		RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	12/3/2007 10:26:44 PM		RICH-RD-0003 REVISION 5
AC			BockJ	11/21/2007 8:20:42			
AC			BostedD	11/29/2007 1:28:45			
AC			BlackCL	11/29/2007 1:32:35			
AC			BlackCL	11/30/2007 9:57:16			
AC			BlackCL	12/3/2007 10:40:53			
AC			DAWKINSO	12/3/2007 10:26:44			

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.30

11/21/2007 8:04:25 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: 235

AnalyDueDate: 11/30/2007 WD5254

Sep1 DT/Tm Tech:

Batch: 7305566 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7305565 AZS7, 7305566 BCS8, 7305570 5SS3,

[redacted]

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 J87G7-1-AC J7J170338-1-SAMP [redacted] 10/17/2007 11:24		200.20g,in AmtRec: VIAL20,3XLP	#Containers: 4	1.5	76.1	100	26A	1527	11/29/07	Scr: Alpha: -4.21E-05 uCi/Sa Beta: -4.55E-06 uCi/Sa
2 J87H0-1-AC J7J170338-2-SAMP [redacted] 10/17/2007 10:22		200.60g,in AmtRec: VIAL20,LP	#Containers: 2		86.5		26B			Scr: Alpha: 5.27E-05 uCi/Sa Beta: -1.42E-04 uCi/Sa
3 J87JP-1-AC J7J170338-3-SAMP [redacted] 10/17/2007 09:02		201.10g,in AmtRec: VIAL20,LP	#Containers: 2		79.7		26C			Scr: Alpha: 1.40E-04 uCi/Sa Beta: 4.17E-05 uCi/Sa
4 J9APP-1-AA J7J180326-1-SAMP [redacted] 10/18/2007 12:25		199.70g,in AmtRec: 20ML,LP	#Containers: 2		104.8		26D			Scr: Alpha: 7.60E-05 uCi/Sa Beta: 2.26E-04 uCi/Sa
5 J9ARL-1-AC J7J180330-1-SAMP [redacted] 10/18/2007 12:05		198.40g,in AmtRec: 20ML,LP	#Containers: 2		69.2		27A			Scr: Alpha: 6.37E-05 uCi/Sa Beta: 3.09E-05 uCi/Sa
6 J9ARV-1-AC J7J180330-2-SAMP [redacted] 10/18/2007 10:46		199.50g,in AmtRec: 20ML,LP	#Containers: 2		79.7		27B			Scr: Alpha: 2.19E-04 uCi/Sa Beta: -7.73E-05 uCi/Sa
7 J9AV4-1-AC J7J180341-2-SAMP [redacted] 10/18/2007 12:36		92.50g,in AmtRec: 20ML,LP	#Containers: 2		98.0	200	32A	1707		Scr: Alpha: 1.18E-03 uCi/Sa 1.5E-01L Beta: 5.40E-04 uCi/Sa 1.7E-01L

TestAmerica Richland

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TA Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1 ISV - Insufficient Volume for Analysis WO Cnt: 7
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4.8.29

TestAmerica Richland

11/21/2007 8:04:26 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 11/30/2007

Sep1 DT/Tm Tech:

Batch: 7305566 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

[redacted]

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 J9AWD-1-AC J7J180341-3-SAMP [redacted] 10/18/2007 10:24		201.40g,in AmtRec: 20ML,4XLP	#Containers: 5	15	61.6	100	27C Scr:	1527 Alpha: -7.50E-04 uCi/Sa	11/29/07 Beta: 6.88E-04 uCi/Sa	
9 J9AWX-1-AC J7J180341-4-SAMP [redacted] 10/18/2007 10:24		198.40g,in AmtRec: 20ML,4XLP	#Containers: 5		59.6		27D Scr:	Alpha: 5.75E-04 uCi/Sa	Beta: -3.10E-04 uCi/Sa	
10 J9AXF-1-AC J7J180341-5-SAMP [redacted] 10/18/2007 09:12		187.20g,in AmtRec: 20ML,4XLP	#Containers: 5		80.8		28A Scr:	Alpha: 3.94E-04 uCi/Sa	Beta: 2.54E-04 uCi/Sa	
11 J9AXV-1-AC J7J180341-6-SAMP [redacted] 10/18/2007 09:47		169.40g,in AmtRec: 20ML,LP	#Containers: 2		146.2		28B Scr:	Alpha: 5.38E-05 uCi/Sa	Beta: 4.18E-05 uCi/Sa	
12 J9NRG-1-AC J7J240110-1-SAMP [redacted] 10/19/2007 10:39		200.80g,in AmtRec: VIAL20,LP	#Containers: 2		80.4		28C Scr:	Alpha: -1.08E-04 uCi/Sa	Beta: 1.39E-04 uCi/Sa	
13 J9NRG-1-AD-X J7J240110-1-DUP [redacted] 10/19/2007 10:39		199.40g,in AmtRec: VIAL20,LP	#Containers: 2		82.9		31A ~~28D~~ 11/27/07 Scr:	Alpha: -1.03E-04 uCi/Sa	Beta: 1.39E-04 uCi/Sa	
14 J9NRH-1-AC J7J240110-2-SAMP [redacted] 10/19/2007 11:37		192.70g,in AmtRec: VIAL20,LP	#Containers: 2		112.1		31B ~~31A~~ Scr:	Alpha: 2.88E-06 uCi/Sa	Beta: 9.59E-05 uCi/Sa	

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11/21/2007 8:04:26 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 11/30/2007

Sep1 DT/Tm Tech:

Batch: 7305566 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

[redacted]

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 J9NRK-1-AC J7J240110-3-SAMP [redacted] 10/19/2007 09:07		198.60g,in AmtRec: VIAL20,4XLP	#Containers: 5	1.5	93.6	100	31C ~~31B~~ 11/30 Scr:	1827 Alpha: 2.71E-04 uCi/Sa	11/28/07 Beta: 3.83E-04 uCi/Sa	
16 J9NRM-1-AC J7J240110-4-SAMP [redacted] 10/19/2007 08:17		199.40g,in AmtRec: VIAL20,6XLP	#Containers: 7		80.4		31D Scr:	↓ Alpha: -7.36E-04 uCi/Sa	Beta: 9.64E-04 uCi/Sa	
17 J9NVM-1-AC J7J240120-1-SAMP [redacted] 10/23/2007 09:15		133.90g,in AmtRec: VIAL20,LP	#Containers: 2		100.5		28A ~~31B~~ 11/30 Scr:	1728 Alpha: 4.02E-05 uCi/Sa	11/29/07 [illegible] Beta: -1.62E-06 uCi/Sa	
18 KADDM-1-AA-B J7K010000-566-BLK [redacted] 10/19/2007 10:39		198.20g,in AmtRec:	#Containers: 1		0.2	200	32B Scr:	1707 Alpha:	11/28/07 Beta:	
19 KADDM-1-AC-C J7K010000-566-LCS [redacted] 10/19/2007 10:39		201.00g,in AmtRec: .	BESB3164 10/22/07,pd #Containers: 1		0.8		32C Scr:	Alpha:	Beta:	

Comments: J9AWD-SAMP "Comments. Aliquot poured up with sample from bottle marked for stont.90. We couldn't find a bottle for alpha/beta. JB 11/21/07"
Reduced aliquots are due to weight screen. JB 11-21-07
Pll < 2.0 JB 11-21-07

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

J87G71AC-SAMP Constituent List:

TestAmerica Richland
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Sample Preparation/Analysis

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

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

AnalyDueDate: 11/30/2007

Batch: 7305566 pCi/L
SEQ Batch, Test: None

[redacted]

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:

BETA RDL:4 pCi/L LCL: UCL: RPD:
KADDM1AA-BLK:

KADDM1AC-LCS:

J87G71AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KADDM1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KADDM1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

11/30/2007 9:46:40 AM

ICOC Fraction Transfer/Status Report

ByDate: 11/30/2006, 12/5/2007, Batch: '7305566', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7305566						
AC		CalcC	BockJ	11/21/2007 7:50:34		
SC			wagarr	IsBatched	11/2/2007 9:30:10 AM	ICOC_RADCALC v4.8.29
SC			BockJ	InPrep	11/21/2007 7:50:34 PM	RICH-RC-5014 Revision 7
SC			BockJ	Prep1C	11/21/2007 8:04:26 PM	RICH-RC-5014 REVISION 7
SC			BostedD	Prep2C	11/29/2007 1:30:06 PM	RICH-RC-5014 REVISION 7
SC			BlackCL	InCnt1	11/29/2007 1:33:13 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	11/29/2007 7:52:35 PM	RICH-RD-0003 REVISION 5
AC			BockJ	11/21/2007 8:04:26		
AC			BostedD	11/29/2007 1:30:06		
AC			BlackCL	11/29/2007 1:33:13		
AC			DAWKINSO	11/29/2007 7:52:35		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.30

11/26/2007 5:16:28 PM

Sample Preparation/Analysis

Balance Id:1120373922,E32905

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: 12/03/2007

Sep1 DT/Tm Tech: 11/17/2007 11:25,ManisD

Batch: 7305569 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7305565 AZS7, 7305566 BCS8, 7305569 CLTL, 7305570 5SS3,

[redacted]

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 J9AVG-1-AC J7J180341-1-SAMP		1001.73g,in	SRTB15546 11/07/07,pd		1.0	22.5	100	7A 7A	0848 0825	11/27/07 RC/S 11/28/07 RC	
						11/17/2007 11:25;s1					
10/18/2007 10:46		AmtRec: 20ML,5XLP		#Containers: 6				Scr:	Alpha: -2.25E-08 uCi/Sa	Beta: 7.50E-07 uCi/Sa	
2 J9AVG-1-AD-X J7J180341-1-DUP		1001.50g,in	SRTB15547 11/07/07,pd		1.0	22	100	7B 7B	0848 0825	11/27/07 RC/S 11/28/07 RC	
						11/17/2007 11:25;s1					
10/18/2007 10:46		AmtRec: 20ML,5XLP		#Containers: 6				Scr:	Alpha: -2.25E-08 uCi/Sa	Beta: 7.50E-07 uCi/Sa	
3 J9AWD-1-AD J7J180341-3-SAMP		1000.87g,in	SRTB15548 11/07/07,pd		1.0	22.2	100	7C 7C	0848 0825	11/27/07 RC/B 11/28/07 RC	
						11/17/2007 11:25;s1					
10/18/2007 10:24		AmtRec: 20ML,4XLP		#Containers: 5				Scr:	Alpha: -7.50E-04 uCi/Sa	Beta: 6.88E-04 uCi/Sa	
4 J9AWX-1-AD J7J180341-4-SAMP		1001.64g,in	SRTB15549 11/07/07,pd		1.0	21.9	100	1A 1A	0848 0825	11/27/07 RC/S 11/28/07 RC	
						11/17/2007 11:25;s1					
10/18/2007 10:24		AmtRec: 20ML,4XLP		#Containers: 5				Scr:	Alpha: 5.75E-04 uCi/Sa	Beta: -3.10E-04 uCi/Sa	

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: 4
Prep_SamplePrep v4.8.29

TestAmerica Richland

11/26/2007 5:16:29 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: 12/03/2007

Sep1 DT/Tm Tech: 11/17/2007 11:25,ManisD

Batch: 7305569 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

[redacted]

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 J9AXF-1-AD		1001.73g,in	SRTB15550		1.0	22.3	100	1B	0848	11/27/07 RC/D	
J7J180341-5-SAMP			11/07/07,pd					1B	0825	11/28/07 RC	
[redacted]		[redacted]									
						11/17/2007 11:25;s1					
10/18/2007 09:12		AmtRec: 20ML,4XLP		#Containers: 5				Scr:	Alpha: 3.94E-04 uCi/Sa	Beta: 2.54E-04 uCi/Sa	
6 J9NRK-1-AD		1000.92g,in	SRTB15551		1.0	21.9	100	1C	0848	11/27/07 RC/D	
J7J240110-3-SAMP			11/07/07,pd					1C	0825	11/28/07 RC	
[redacted]		[redacted]									
						11/17/2007 11:25;s1					
10/19/2007 09:07		AmtRec: VIAL20,4XLP		#Containers: 5				Scr:	Alpha: 2.71E-04 uCi/Sa	Beta: 3.83E-04 uCi/Sa	
7 J9NRM-1-AE		1001.08g,in	SRTB15552		1.0	22.9	100	1D	0848	11/27/07 RC/D	
J7J240110-4-SAMP			11/07/07,pd					1D	0825	11/28/07 RC	
[redacted]		[redacted]									
						11/17/2007 11:25;s1					
10/19/2007 08:17		AmtRec: VIAL20,6XLP		#Containers: 7				Scr:	Alpha: -7.36E-04 uCi/Sa	Beta: 9.64E-04 uCi/Sa	
8 KADD0-1-AA-B		1001.79g,in	SRTB15553		1.0	22.5	100	2A	0848	11/27/07 RC/D	
J7K010000-569-BLK			11/07/07,pd					2A	0825	11/28/07 RC	
[redacted]		[redacted]									
						11/17/2007 11:25;s1					
10/18/2007 10:46		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:	

TestAmerica Richland

11/26/2007 5:16:29 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: 12/03/2007

Sep1 DT/Tm Tech: 11/17/2007 11:25,ManisD

Batch: 7305569 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,ManisD

[redacted]

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 KADD0-1-AC-C		1000.42g,in	SRSG1400		1.0	22.6	100	2B	0848	11/27/07 RC	
J7K010000-569-LCS			10/22/07,pd					2B	0825	11/21/07 RC	

[redacted]

11/17/2007 11:25:s1

10/18/2007 10:46 AmtRec: #Containers: 1 Scr: Alpha: Beta:

Comments: J9AWD-SAMP "Comments. Aliquot poured up with sample from bottle marked for stont.90. We couldn't find a bottle for alpha/beta. JB 11/21/07"

85

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

J9AVG1AC-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

KADD01AA-BLK:

KADD01AC-LCS:

J9AVG1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KADD01AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KADD01AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

11/29/2007 11:22:38 AM

ICOC Fraction Transfer/Status Report

ByDate: 11/29/2006, 12/4/2007, Batch: '7305569', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7305569						
AC		CalcC	Barcotl	11/8/2007 10:10:30		
SC			wagarr	IsBatched	11/2/2007 9:30:10 AM	ICOC_RADCALC v4.8.29
SC			Barcotl	InPrep	11/8/2007 10:10:30 AM	RICH-RC-5006 REVISION 7
SC			Barcotl	Prep1C	11/8/2007 10:10:54 AM	RICH-RC-5006 REVISION 7
SC			ManisD	InSep1	11/9/2007 6:40:53 AM	RICH-RC-5006 REV 7
SC			ManisD	Sep1C	11/17/2007 11:26:53 AM	RICH-RC-5006 REV 7
SC			DAWKINSO	InCnt1	11/17/2007 1:45:31 PM	RICH-RD-0007 REVISION 6
SC			ClarkR	Cnt1C	11/19/2007 9:41:47 AM	RICH-RD-0007 REVISION 6
SC			ManisD	InSep2	11/26/2007 8:46:59 AM	RICH-RC-5071 REV 5
SC			ManisD	Sep2C	11/26/2007 5:30:12 PM	RICH-RC-5071 REV 5
SC			DAWKINSO	InCnt2	11/26/2007 5:58:21 PM	RICH-RD-0003 REVISION 5
SC			ClarkR	CalcC	11/28/2007 10:03:26 AM	RICH-RD-0003 REVISION 5
AC			Barcotl	11/8/2007 10:10:54		
AC			ManisD	11/9/2007 6:40:53		
AC			ManisD	11/17/2007 11:26:53		
AC			DAWKINSO	11/17/2007 1:45:31		
AC			ClarkR	11/19/2007 9:41:47		
AC			ManisD	11/26/2007 8:46:59		
AC			ManisD	11/26/2007 5:30:12		
AC			DAWKINSO	11/26/2007 5:58:21		rEVISION 5
AC			ClarkR	11/28/2007 10:03:26		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

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Grp Rec Cnt: 10

ICOCFractions v4.8.30

KGW I-129

11/23/2007 1:15:32 PM

Sample Preparation/Analysis

Balance Id:2113224201

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 12/06/2007 WO5254

Sep1 DT/Tm Tech:

Batch: 7305567 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ClarkR

[redacted]

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 J9NTP-1-AA J7J240116-1-SAMP [redacted] 10/22/2007 12:50		3888.90g,in AmtRec: VIAL20,2X4LP	ITA6758 11/08/07 #Containers: 3		35.4	100	L5	0017 Scr:	11/27/07 RD Alpha: -5.45E-04 uCi/Sa	Beta: 1.37E-03 uCi/Sa
2 J9NTP-1-AC-X J7J240116-1-DUP [redacted] 10/22/2007 12:50		3927.30g,in AmtRec: VIAL20,2X4LP	ITA6759 11/08/07 #Containers: 3		31.7		L4	0830 Scr:	11/28/07 [illegible] Alpha: -5.45E-04 uCi/Sa	Beta: 1.37E-03 uCi/Sa
3 J9NTR-1-AA J7J240116-2-SAMP [redacted] 10/22/2007 09:00		3929.10g,in AmtRec: VIAL20,2X4LP	ITA6760 11/08/07 #Containers: 3		35.1		L5	0832 Scr:	Alpha: 1.24E-03 uCi/Sa	Beta: -6.19E-04 uCi/Sa
4 KADDT-1-AA-B J7K010000-567-BLK [redacted] 10/22/2007 12:50		3982.50g,in AmtRec:	ITA6761 11/08/07 #Containers: 1		34.6		L2	0833 Scr:	Alpha:	Beta:
5 KADDT-1-AC-C J7K010000-567-LCS [redacted] 10/22/2007 12:50		3979.90g,in AmtRec:	ISD0792 10/31/07 #Containers: 1		35.7		L2	1024 Scr:	11/28/07 RC/B Alpha:	Beta:

Comments:

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

J9NTP1AA-SAMP Constituent List:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:

TestAmerica Richland

11/23/2007 1:15:35 PM

Sample Preparation/Analysis

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

Balance Id:2113224201

Pipet #: _____

AnalyDueDate: 12/06/2007

Sep1 DT/Tm Tech:

Batch: 7305567 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,ClarkR

[redacted]

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:

KADDT1AA-BLK:

KADDT1AC-LCS:

J9NTP1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KADDT1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KADDT1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

11/29/2007 3:46:32 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/29/2006, 12/4/2007, Batch: '7305567', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7305567						
AC		**CalcC**	**BostedD**	11/23/2007 12:32:37		
SC			wagarr	IsBatched	11/2/2007 9:30:10 AM	ICOC_RADCALC v4.8.29
SC			BostedD	InPrep2	11/23/2007 12:32:37 PM	RICHRC5025 REVISION 4
SC			BostedD	Prep2C	11/27/2007 5:05:31 PM	RICHRC5025 REVISION 4
SC			DAWKINSO	InCnt1	11/27/2007 5:23:58 PM	RICH-RD-0007 REVISION 6
SC			BlackCL	CalcC	11/28/2007 11:27:24 AM	RICH-RD-0007 REVISION 6
AC			**BostedD**	11/27/2007 5:05:31		
AC			**DAWKINSO**	11/27/2007 5:23:58		
AC			**BlackCL**	11/28/2007 11:27:24		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

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Grp Rec Cnt: 4

ICOCFractions v4.8.30

TestAmerica Richland

11/2/2007 9:27:14 AM

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: 11/30/2007 WO5254

Batch: 7305570 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

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

[redacted]

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 J87C4-1-AA								
J7J170325-1-SAMP [redacted]								
10/17/2007 09:02		AmtRec: VIAL20,2XLP	#Containers: 3			Scr:	Alpha: 4.96E-04 uCi/Sa	Beta: -2.85E-04 uCi/Sa
2 J87C4-1-AC-X								
J7J170325-1-DUP [redacted]								
10/17/2007 09:02		AmtRec: VIAL20,2XLP	#Containers: 3			Scr:	Alpha: 4.96E-04 uCi/Sa	Beta: -2.85E-04 uCi/Sa
3 J87G7-1-AD								
J7J170338-1-SAMP [redacted]								
10/17/2007 11:24		AmtRec: VIAL20,3XLP	#Containers: 4			Scr:	Alpha: -4.21E-05 uCi/Sa	Beta: -4.55E-06 uCi/Sa
4 J9AVG-1-AA								
J7J180341-1-SAMP [redacted]								
10/18/2007 10:46		AmtRec: 20mL,5XLP	#Containers: 6			Scr:	Alpha: -2.25E-08 uCi/Sa	Beta: 7.50E-07 uCi/Sa
5 J9NRM-1-AD								
J7J240110-4-SAMP [redacted]								
10/19/2007 08:17		AmtRec: VIAL20,6XLP	#Containers: 7			Scr:	Alpha: -7.36E-04 uCi/Sa	Beta: 9.64E-04 uCi/Sa
6 KADD7-1-AA-B								
J7K010000-570-BLK [redacted]								
10/17/2007 09:02		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
7 KADD7-1-AC-C								
J7K010000-570-LCS [redacted]								
10/17/2007 09:02		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

90

TestAmerica Richland

11/2/2007 9:27:15 AM

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 [illegible]
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 11/30/2007

Batch: 7305570 pCi/L
SEQ Batch, Test: None

[redacted]

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 KADD7-1-AD-BN								
J7K010000-570-IBLK								
[redacted]								
10/17/2007 09:02		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

J87C41AA-SAMP Constituent List:
C-14 RDL:2.00E+02 pCi/L LCL:70 UCL:130 RPD:20
KADD71AA-BLK:

KADD71AC-LCS:

KADD71AD-IBLK:

J87C41AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KADD71AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KADD71AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KADD71AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

11/23/2007 10:53:09 AM

ICOC Fraction Transfer/Status Report

ByDate: 11/23/2006, 11/28/2007, Batch: '7305570', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7305570						
AC		CalcC	McDowellD	11/7/2007 7:18:04		
SC			wagarr	IsBatched	11/2/2007 9:30:10 AM	ICOC_RADCALC v4.8.29
SC			McDowellD	InSep1	11/7/2007 7:18:04 AM	RICH-RC-5022 REVISION 3
SC			McDowellD	Sep1C	11/9/2007 1:47:56 PM	RICH-RC-5022 REVISION 3
SC			BlackCL	InCnt1	11/9/2007 2:16:35 PM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	11/10/2007 7:15:04 AM	RICH-RD-0001 REVISION 4
AC			McDowellD	11/9/2007 1:47:56 PM		
AC			BlackCL	11/9/2007 2:16:35 PM		
AC			BlackCL	11/10/2007 7:15:04		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.30