TESTAMERICA RICHLAND

Analytical Data Package Prepared For

Fluor Hanford

RECEIVED MAY 22 2008 EDMC

Radiochemical Analysis By

TAL Richland TARL

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

Data Package Contains 94 *Pages*

Report Nbr: 37874

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05262	I08-005	B1R168	J7K070156-1	KANJ91AA	9KANJ910	7317618
		B1R168	J7K070156-1	KANJ91AC	9KANJ910	7317616
		B1R168	J7K070156-1	KANJ91AD	9KANJ910	7317611
		B1R168	J7K070156-1	KANJ91AE	9KANJ910	7317612
		B1R1J1	J7K070156-2	KANKF1AA	9KANKF10	7317611
		B1R1J1	J7K070156-2	KANKF1AC	9KANKF10	7317612
		B1R1C4	J7K070156-3	KANKH1AA	9KANKH10	7317611
		B1R1C4	J7K070156-3	KANKH1AC	9KANKH10	7317612
		B1R1C7	J7K070156-4	KANKM1AA	9KANKM10	7317611
		B1R1C7	J7K070156-4	KANKM1AC	9KANKM10	7317612
		B1R1J5	J7K070156-5	KANKQ1AA	9KANKQ10	7317611
		B1R1J5	J7K070156-5	KANKQ1AC	9KANKQ10	7317612
		B1R1K5	J7K070156-6	KANKW1AA	9KANKW10	7317611
		B1R1K5	J7K070156-6	KANKW1AC	9KANKW10	7317612
		B1R173	J7K070156-7	KANK11AA	9KANK110	7317611

RECEIVED JAN 03 2008

Comments:

0072554

Report Nbr: 37874

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05262	I08-005	B1R173	J7K070156-7	KANK11AC	9KANK110	7317612
		B1R1L0	J7K070156-8	KANK51AA	9KANK510	7317614
		B1R1M4	J7K080121-1	KAQ971AA	9KAQ9710	7317614
		B1R1L8	J7K080121-2	KARAG1AA	9KARAG10	7317614
		B1R1L5	J7K080121-3	KARAJ1AA	9KARAJ10	7317614
		B1R203	J7K080121-4	KARAL1AA	9KARAL10	7317611
		B1R203	J7K080121-4	KARAL1AC	9KARAL10	7317612
		B1R1T1	J7K080121-5	KARAM1AA	9KARAM10	7317614
		B1R229	J7K080121-6	KARAR1AA	9KARAR10	7317611
		B1R229	J7K080121-6	KARAR1AC	9KARAR10	7317612
		B1R1T0	J7K080121-7	KARAX1AA	9KARAX10	7317614
		B1R228	J7K080121-8	KARA11AA	9KARA110	7317611
		B1R228	J7K080121-8	KARA11AC	9KARA110	7317612
	I08-008	B1R313	J7K080303-1	KATTW1AA	9KATTW10	7317610
	W08-011	B1R615	J7K080309-1	KATVH1AA	9KATVH10	7317611
		B1R615	J7K080309-1	KATVH1AC	9KATVH10	7317612
		B1R607	J7K080309-2	KATVP1AA	9KATVP10	7317611
		B1R607	J7K080309-2	KATVP1AC	9KATVP10	7317612
		B1R607	J7K080309-2	KATVP1AD	9KATVP10	7317613
	I08-007	B1R2N2	J7K090395-1	KA0Q01AA	9KA0Q010	7317610

Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

December 26, 2007

Attention: Steve Trent

SAF Number	:	I08-005, I08-008, W08-011, I08-007
Date SDG Closed	:	November 9, 2007
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05262
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between November 6, 2007 and November 9, 2007 twenty water samples were received at STL Richland (STLR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Fluor Hanford specific IDs:

PGW ID#	STLR ID#	DATE OF RECEIPT	MATRIX
B1R168	KANJ9	11/06/07	WATER
B1R1J1	KANKF	11/06/07	WATER
B1R1L0	KANK5	11/06/07	WATER
B1R1C4	KANKH	11/06/07	WATER
B1R1C7	KANKM	11/06/07	WATER
B1R1J5	KANKQ	11/06/07	WATER
B1R1K5	KANKW	11/06/07	WATER
B1R173	KANK1	11/06/07	WATER
B1R1M4	KAQ97	11/07/07	WATER
B1R1L8	KARAG	11/07/07	WATER
B1R1L5	KARAJ	11/07/07	WATER
B1R203	KARAL	11/07/07	WATER
B1R1T1	KARAM	11/07/07	WATER
B1R229	KARAR	11/07/07	WATER

B1R1T0	KARAX	11/07/07	WATER
B1R228	KARA1	11/07/07	WATER
B1R313	KATTW	11/08/07	WATER
B1R615	KATVH	11/08/07	WATER
B1R607	KATVP	11/08/07	WATER
B1R2N2	KA0Q0	11/08/07	WATER

II. Sample Receipt

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

III. Analytical Results/Methodology

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

The requested analyses were:

Gas Proportional Counting
Gross Alpha by method RICH-RC-5014
Gross Beta by method RICH-RC-5014
Strontium-90 by method RICH-RC-5006
Gamma Spectroscopy
Gamma Spec (LL) by method RICH-RC-5017
Iodine-129 (LL) by method RICH-RC-5025
Liquid Scintillation Counting
Tritium by method RICH-RC-5007
Chemical Analysis
Hexavalent Chromium by EPA method 7196A

IV. Quality Control

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

QC and sample results are reported in the same units.

V. Comments

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:

Samples B1R173, B1R1J1, B1R1C4, B1R1C7, B1R1J5, B1R1K5, B1R615, B1R607 and B1R615 DUP were analyzed with reduced aliquots based on weight screens. Sample B1R607 did not meet the CRDL even though it was counted for the maximum of 200 minutes. Except as noted, the LCS, batch blank, samples and sample duplicate (B1R615) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:

Samples B1R615 and B1R607 did not meet the CRDL due to reduced aliquot sizes which were based on weight screens. The activity detected was greater than the IDC, therefore the data is acceptable. Except as noted, the LCS, batch blank, samples and sample duplicate (B1R168) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006

The LCS, batch blank, samples and sample duplicate (B1R1L8) results are within contractual requirements.

Gamma Spectroscopy

Gamma Spec (LL) by method RICH-RC-5017:

B1R607 DUP had an aliquot size of 1909.9 ml due to insufficient sample volume. Except as noted, the LCS, batch blank, samples and sample duplicate (B1R607) results are within contractual requirements.

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

The LCS, batch blank, samples and sample duplicate (B1R313) results are within contractual requirements.

Liquid Scintillation Counting

Tritium by method RICH-RC-5007:

The LCS, batch blank, samples and sample duplicate (B1R168) results are within contractual requirements.

Chemical Analysis

Hexavalent Chromium by EPA method 7196A

The LCS, batch blank, samples, sample duplicate (B1R168), sample matrix spike (B1R168), and matrix spike duplicate (B1R168) 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.

12/26/2007 11:08:45 AM

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 37874 File Name: h:\Reportdb\edd\FeadIV\Rad\W05262.Edd, h:\Reportdb\edd\FeadIV\Rad\37874.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:
9KA0Q010	B1R2N2		MW6-SBB-A1	I08-007	W05262					11/09/2007 12:55

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7317610	I-129L	15046-84-1	1.13E+00	pCi/L	2.6E-01	2.6E-01	U	5.22E-01	101.6	I129LL_SEP_LEPS	3.8747E+00	L	12/21/2007 16:11	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KANJ910	B1R168		MW6-SBB-A1	I08-005	W05262					11/06/2007 13:01

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7317616	H-3	10028-17-8	1.52E+04	pCi/L	5.0E+02	7.2E+02		2.99E+02	100.0	906.0_H3_LSC	1.00E-02	L	11/30/2007 19:29	I
7317611	ALPHA	12587-46-1	1.38E+00	pCi/L	1.3E+00	1.3E+00	U	2.20E+00	100.0	9310_ALPHABETA	2.003E-01	L	12/21/2007 07:00	I
7317612	BETA	12587-47-2	1.26E+01	pCi/L	2.1E+00	2.7E+00		3.06E+00	100.0	9310_ALPHABETA	2.003E-01	L	12/19/2007 18:21	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KANK110	B1R173		MW6-SBB-A1	I08-005	W05262					11/06/2007 09:52

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7317611	ALPHA	12587-46-1	0.00E+00	pCi/L	8.7E-01	8.7E-01	U	2.32E+00	100.0	9310_ALPHABETA	1.219E-01	L	12/21/2007 05:33	I
7317612	BETA	12587-47-2	9.25E+01	pCi/L	4.6E+00	1.2E+01		2.88E+00	100.0	9310_ALPHABETA	2.002E-01	L	12/19/2007 18:21	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KANK510	B1R1L0		MW6-SBB-A1	I08-005	W05262					11/06/2007 10:41

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7317614	SR-90	10098-97-2	2.51E-01	pCi/L	2.6E-01	2.7E-01	U	5.15E-01	74.5	SRISO_SEP_PRE	1.0045E+00	L	12/21/2007 09:00	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KANKF10	B1R1J1		MW6-SBB-A1	I08-005	W05262					11/06/2007 10:41

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7317611	ALPHA	12587-46-1	1.32E+00	pCi/L	1.1E+00	1.1E+00	U	1.79E+00	100.0	9310_ALPHABETA	1.282E-01	L	12/21/2007 05:33	I
7317612	BETA	12587-47-2	4.59E+00	pCi/L	1.6E+00	1.7E+00		2.67E+00	100.0	9310_ALPHABETA	2.001E-01	L	12/19/2007 18:21	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KANKH10	B1R1C4		MW6-SBB-A1	I08-005	W05262					11/06/2007 11:57

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7317611	ALPHA	12587-46-1	1.83E+00	pCi/L	1.2E+00	1.3E+00		1.81E+00	100.0	9310_ALPHABETA	1.469E-01	L	12/21/2007 05:33	I
7317612	BETA	12587-47-2	4.22E+00	pCi/L	1.5E+00	1.6E+00		2.71E+00	100.0	9310_ALPHABETA	2.001E-01	L	12/19/2007 18:21	I

TAL Richland

rptFeadRadSummaryEdd v3.48

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

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 37874 File Name: h:\Reportdb\edd\FeadIV\Rad\W05262.Edd, h:\Reportdb\edd\FeadIV\Rad\37874.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:
9KANKM10	B1R1C7		MW6-SBB-A1	I08-005	W05262					11/06/2007 12:43

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7317611	ALPHA	12587-46-1	1.37E+00	pCi/L	9.7E-01	1.0E+00	U	1.44E+00	100.0	9310_ALPHABETA	1.251E-01	L	12/21/2007 05:33	I
7317612	BETA	12587-47-2	1.23E+01	pCi/L	2.1E+00	2.6E+00		2.81E+00	100.0	9310_ALPHABETA	2.00E-01	L	12/19/2007 18:21	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KANKQ10	B1R1J5		MW6-SBB-A1	I08-005	W05262					11/06/2007 12:49

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7317611	ALPHA	12587-46-1	2.58E+00	pCi/L	1.3E+00	1.4E+00		1.27E+00	100.0	9310_ALPHABETA	1.352E-01	L	12/21/2007 05:33	I
7317612	BETA	12587-47-2	5.86E+00	pCi/L	1.7E+00	1.9E+00		2.77E+00	100.0	9310_ALPHABETA	2.002E-01	L	12/19/2007 18:21	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KANKW10	B1R1K5		MW6-SBB-A1	I08-005	W05262					11/06/2007 11:31

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7317611	ALPHA	12587-46-1	1.28E-01	pCi/L	5.8E-01	5.8E-01	U	1.54E+00	100.0	9310_ALPHABETA	1.786E-01	L	12/21/2007 07:00	I
7317612	BETA	12587-47-2	4.21E+00	pCi/L	1.5E+00	1.6E+00		2.72E+00	100.0	9310_ALPHABETA	2.001E-01	L	12/19/2007 18:21	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KAQ9710	B1R1M4		MW6-SBB-A1	I08-005	W05262					11/07/2007 11:46

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7317614	SR-90	10098-97-2	-3.14E-02	pCi/L	2.2E-01	2.2E-01	U	4.73E-01	81.4	SRISO_SEP_PRE	1.0093E+00	L	12/21/2007 09:00	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KARA110	B1R228		MW6-SBB-A1	I08-005	W05262					11/07/2007 10:54

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7317611	ALPHA	12587-46-1	8.66E-02	pCi/L	6.2E-01	6.2E-01	U	1.74E+00	100.0	9310_ALPHABETA	2.006E-01	L	12/21/2007 07:00	I
7317612	BETA	12587-47-2	6.46E+00	pCi/L	1.8E+00	1.9E+00		2.91E+00	100.0	9310_ALPHABETA	2.001E-01	L	12/19/2007 18:21	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KARAG10	B1R1L8		MW6-SBB-A1	I08-005	W05262					11/07/2007 09:44

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7317614	SR-90	10098-97-2	1.09E+00	pCi/L	3.6E-01	4.0E-01		6.06E-01	72.1	SRISO_SEP_PRE	1.0013E+00	L	12/21/2007 09:00	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.

12/26/2007 11:08:45 AM

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 37874 File Name: h:\Reportdb\edd\FeadIV\Rad\W05262.Edd, h:\Reportdb\edd\FeadIV\Rad\37874.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:
9KARAJ10	B1R1L5		MW6-SBB-A1	I08-005	W05262					11/07/2007 10:40

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7317614	SR-90	10098-97-2	2.07E-01	pCi/L	1.9E-01	2.2E-01	U	4.44E-01	76.2	SRISO_SEP_PRE	1.0006E+00	L	12/21/2007 08:55	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:
9KARAL10	B1R203		MW6-SBB-A1	I08-005	W05262					11/07/2007 09:06

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7317611	ALPHA	12587-46-1	2.72E+00	pCi/L	1.5E+00	1.6E+00		1.64E+00	100.0	9310_ALPHABETA	2.003E-01	L	12/21/2007 07:00	I
7317612	BETA	12587-47-2	5.72E+01	pCi/L	3.8E+00	8.0E+00		2.91E+00	100.0	9310_ALPHABETA	2.001E-01	L	12/19/2007 18:21	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KARAM10	B1R1T1		MW6-SBB-A1	I08-005	W05262					11/07/2007 10:54

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7317614	SR-90	10098-97-2	-3.78E-02	pCi/L	1.7E-01	1.7E-01	U	4.07E-01	83.4	SRISO_SEP_PRE	1.0008E+00	L	12/21/2007 08:55	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:
9KARAR10	B1R229		MW6-SBB-A1	I08-005	W05262					11/07/2007 10:54

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7317611	ALPHA	12587-46-1	3.75E-01	pCi/L	6.3E-01	6.3E-01	U	1.27E+00	100.0	9310_ALPHABETA	1.999E-01	L	12/21/2007 07:00	I
7317612	BETA	12587-47-2	4.44E+00	pCi/L	1.6E+00	1.7E+00		2.80E+00	100.0	9310_ALPHABETA	2.003E-01	L	12/19/2007 18:21	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KARAX10	B1R1T0		MW6-SBB-A1	I08-005	W05262					11/07/2007 10:54

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7317614	SR-90	10098-97-2	3.26E-01	pCi/L	2.2E-01	2.2E-01	U	4.21E-01	76.0	SRISO_SEP_PRE	1.0019E+00	L	12/21/2007 08:55	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:
9KATTW10	B1R313		MW6-SBB-A1	I08-008	W05262					11/08/2007 08:52

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7317610	I-129L	15046-84-1	3.82E-01	pCi/L	1.8E-01	1.8E-01	U	3.22E-01	101.6	I129LL_SEP_LEPS	3.9345E+00	L	12/21/2007 16:10	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KATVH10	B1R615		MW6-SBB-A1	W08-011	W05262					11/08/2007 08:52

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

12/26/2007 11:08:45 AM

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 37874 File Name: h:\Reportdb\edd\FeadIV\Rad\W05262.Edd, h:\Reportdb\edd\FeadIV\Rad\37874.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7317611	ALPHA	12587-46-1	7.25E-01	pCi/L	1.4E+00	1.4E+00	U	2.42E+00	100.0	9310_ALPHABETA	6.67E-02	L	12/20/2007 17:36	I
7317612	BETA	12587-47-2	4.36E+02	pCi/L	1.5E+01	5.7E+01		6.24E+00	100.0	9310_ALPHABETA	9.33E-02	L	12/19/2007 18:21	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KATVP10	B1R607		MW6-SBB-A1	W08-011	W05262					11/08/2007 10:23

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7317611	ALPHA	12587-46-1	3.48E-01	pCi/L	1.9E+00	1.9E+00	U	3.50E+00	100.0	9310_ALPHABETA	5.55E-02	L	12/20/2007 17:36	I
7317612	BETA	12587-47-2	2.20E+03	pCi/L	2.4E+01	2.8E+02		4.88E+00	100.0	9310_ALPHABETA	8.06E-02	L	12/20/2007 08:29	I
7317613	BE-7	13966-02-4	-6.38E+00	pCi/L	1.9E+01	1.9E+01	U	3.24E+01		GAMMALL_GS	1.9998E+00	L	12/14/2007 09:27	I
7317613	CO-60	10198-40-0	1.60E-01	pCi/L	2.0E+00	2.0E+00	U	3.74E+00		GAMMALL_GS	1.9998E+00	L	12/14/2007 09:27	I
7317613	CS-134	13967-70-9	-1.01E+00	pCi/L	1.7E+00	1.7E+00	U	2.74E+00		GAMMALL_GS	1.9998E+00	L	12/14/2007 09:27	I
7317613	CS-137	10045-97-3	5.90E-01	pCi/L	1.6E+00	1.6E+00	U	2.97E+00		GAMMALL_GS	1.9998E+00	L	12/14/2007 09:27	I
7317613	EU-152	14683-23-9	4.61E+00	pCi/L	3.7E+00	3.7E+00	U	7.14E+00		GAMMALL_GS	1.9998E+00	L	12/14/2007 09:27	I
7317613	EU-154	15585-10-1	1.09E+00	pCi/L	5.1E+00	5.1E+00	U	9.68E+00		GAMMALL_GS	1.9998E+00	L	12/14/2007 09:27	I
7317613	EU-155	14391-16-3	3.77E+00	pCi/L	3.5E+00	3.5E+00	U	6.67E+00		GAMMALL_GS	1.9998E+00	L	12/14/2007 09:27	I
7317613	K-40	13966-00-2	-5.55E+01	pCi/L	4.0E+01	4.0E+01	U	8.15E+01		GAMMALL_GS	1.9998E+00	L	12/14/2007 09:27	I
7317613	RU-106	13967-48-1	-8.98E+00	pCi/L	1.4E+01	1.4E+01	U	2.45E+01		GAMMALL_GS	1.9998E+00	L	12/14/2007 09:27	I
7317613	SB-125	14234-35-6	1.36E+00	pCi/L	3.8E+00	3.8E+00	U	6.88E+00		GAMMALL_GS	1.9998E+00	L	12/14/2007 09:27	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.

Wednesday, December 26, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05262.Edd, h:\Reportdb\edd\FeadIV\Rad\37874.Edd

Lab Sample Id:	KA68G1AB	**Sdg/Rept Nbr:**	W05262 37874	**Collection Date:**	11/08/2007 08:52
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	11/08/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7317610	I-129L	7.64E-02	pCi/L	1.2E-01	U	2.43E-01	98.9		I129LL_SEP_L	3.9774E+00	12/21/2007				D
BLK	15046-84-1			1.2E-01						L	18:00				

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 Uqualifier 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.

Wednesday, December 26, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05262.Edd, h:\Reportdb\edd\FeadIV\Rad\37874.Edd

Lab Sample Id:	KA68H1AB	**Sdg/Rept Nbr:**	W05262 37874	**Collection Date:**	11/08/2007 08:52
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	11/08/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7317611	ALPHA	1.58E-01	pCi/L	2.3E-01	U	3.71E-01	100.0		9310_ALPHAB	2.011E-01	12/20/2007				D
BLK	12587-46-1			2.2E-01						L	17:36				

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.

Wednesday, December 26, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05262.Edd, h:\Reportdb\edd\FeadIV\Rad\37874.Edd

Lab Sample Id:	KA68N1AB	**Sdg/Rept Nbr:**	W05262	37874	**Collection Date:** 11/06/2007 13:01
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 11/06/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7317612	BETA	1.31E+00	pCi/L	9.4E-01	U	1.73E+00	100.0		9310_ALPHAB	2.006E-01	12/20/2007				D
BLK	12587-47-2			9.2E-01						L	08:29				

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

Wednesday, December 26, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05262.Edd, h:\Reportdb\edd\FeadIV\Rad\37874.Edd

Lab Sample Id:	KA68R1AB	**Sdg/Rept Nbr:**	W05262	37874	**Collection Date:** 11/08/2007 10:23
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 11/08/2007

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
7317613	BE-7	-4.30E+00	pCi/L	1.6E+01	U	2.78E+01			GAMMALL_GS	2.0003E+00	12/14/2007				D
BLK	13966-02-4			1.6E+01						L	09:28				
7317613	CO-60	-5.88E-01	pCi/L	1.9E+00	U	3.43E+00			GAMMALL_GS	2.0003E+00	12/14/2007				D
BLK	10198-40-0			1.9E+00						L	09:28				
7317613	CS-134	-5.49E-01	pCi/L	2.0E+00	U	3.54E+00			GAMMALL_GS	2.0003E+00	12/14/2007				D
BLK	13967-70-9			2.0E+00						L	09:28				
7317613	CS-137	-1.44E-01	pCi/L	1.7E+00	U	2.94E+00			GAMMALL_GS	2.0003E+00	12/14/2007				D
BLK	10045-97-3			1.7E+00						L	09:28				
7317613	EU-152	4.85E-01	pCi/L	3.3E+00	U	6.06E+00			GAMMALL_GS	2.0003E+00	12/14/2007				D
BLK	14683-23-9			3.3E+00						L	09:28				
7317613	EU-154	4.05E+00	pCi/L	5.5E+00	U	1.09E+01			GAMMALL_GS	2.0003E+00	12/14/2007				D
BLK	15585-10-1			5.5E+00						L	09:28				
7317613	EU-155	1.36E-01	pCi/L	2.3E+00	U	4.14E+00			GAMMALL_GS	2.0003E+00	12/14/2007				D
BLK	14391-16-3			2.3E+00						L	09:28				
7317613	K-40	-3.54E+01	pCi/L	3.4E+01	U	6.62E+01			GAMMALL_GS	2.0003E+00	12/14/2007				D
BLK	13966-00-2			3.4E+01						L	09:28				
7317613	RU-106	-1.35E+01	pCi/L	1.6E+01	U	2.57E+01			GAMMALL_GS	2.0003E+00	12/14/2007				D
BLK	13967-48-1			1.6E+01						L	09:28				
7317613	SB-125	-3.87E+00	pCi/L	3.9E+00	U	6.26E+00			GAMMALL_GS	2.0003E+00	12/14/2007				D
BLK	14234-35-6			3.9E+00						L	09:28				

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.

Wednesday, December 26, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05262.Edd, h:\Reportdb\edd\FeadIV\Rad\37874.Edd

Lab Sample Id:	KA68T1AB	**Sdg/Rept Nbr:**	W05262	37874	**Collection Date:** 11/07/2007 09:44
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 11/07/2007

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
7317614	SR-90	-2.54E-01	pCi/L	1.7E-01	U	4.42E-01	78.0		SRISO_SEP_P	1.0002E+00	12/21/2007				D
BLK	10098-97-2			1.6E-01						L	08:55				

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.

Wednesday, December 26, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05262.Edd, h:\Reportdb\edd\FeadIV\Rad\37874.Edd

Lab Sample Id:	KA68X1AB	**Sdg/Rept Nbr:**	W05262 37874	**Collection Date:**	11/06/2007 13:01
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	11/06/2007

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
7317616	H-3	1.89E+01	pCi/L	1.3E+02	U	2.98E+02	100.0		906.0_H3_LSC	1.00E-02	11/30/2007				D
BLK	10028-17-8			1.2E+02						L	16:39				

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

Wednesday, December 26, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05262.Edd, h:\Reportdb\edd\FeadIV\Rad\37874.Edd

Lab Sample Id: KA68X1DX
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05262 37874
Matrix: WATER WATER
QC Type: BLK

Collection Date: 11/06/2007 13:01
Sample On Date:
Received Date: 11/06/2007

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
7317616	H-3	9.63E+01	pCi/L	1.4E+02	U	3.01E+02	100.0		906.0_H3_LSC	1.00E-02	11/30/2007				D
BLK	10028-17-8			1.3E+02						L	18:04				

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.

Wednesday, December 26, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05262.Edd, h:\Reportdb\edd\FeadIV\Rad\37874.Edd

Lab Sample Id: KA68G1CS **Sdg/Rept Nbr:** W05262 37874 **Collection Date:** 11/08/2007 08:52

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 11/08/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7317610	I-129L	8.79E+00	pCi/L	1.1E+00		4.09E-01	98.7	9.79E+00	I129LL_SEP_L	3.8839E+00	12/21/2007			70	D
BS	15046-84-1			1.1E+00				89.7		L	18:01			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.

Wednesday, December 26, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05262.Edd, h:\Reportdb\edd\FeadIV\Rad\37874.Edd

Lab Sample Id: KA68H1CS **Sdg/Rept Nbr:** W05262 37874 **Collection Date:** 11/08/2007 08:52

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 11/08/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7317611	ALPHA	1.78E+01	pCi/L	4.4E+00		4.69E-01	100.0	2.28E+01	9310_ALPHAB	1.995E-01	12/20/2007			70	D
BS	12587-46-1			1.4E+00				78.2		L	17:36			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.

Wednesday, December 26, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05262.Edd, h:\Reportdb\edd\FeadIV\Rad\37874.Edd

Lab Sample Id: KA68N1CS **Sdg/Rept Nbr:** W05262 37874 **Collection Date:** 11/06/2007 13:01

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 11/06/2007

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
7317612	BETA	2.19E+01	pCi/L	3.2E+00		1.77E+00	100.0	2.26E+01	9310_ALPHAB	2.004E-01	12/20/2007			70	D
BS	12587-47-2			1.7E+00				96.8		L	08:29			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.

Wednesday, December 26, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05262.Edd, h:\Reportdb\edd\FeadIV\Rad\37874.Edd

Lab Sample Id:	KA68R1CS	**Sdg/Rept Nbr:**	W05262	37874	**Collection Date:** 11/08/2007 10:23
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 11/08/2007

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
7317613	CO-60	3.89E+01	pCi/L	7.4E+00		3.55E+00		3.85E+01	GAMMALL_GS	2.0004E+00	12/14/2007			75	D
BS	10198-40-0			7.4E+00				101.0		L	09:28			125	
7317613	CS-137	5.64E+01	pCi/L	9.1E+00		3.68E+00		4.96E+01	GAMMALL_GS	2.0004E+00	12/14/2007			70	D
BS	10045-97-3			9.1E+00				113.7		L	09:28			130	
7317613	EU-152	7.54E+01	pCi/L	1.5E+01		8.92E+00		7.72E+01	GAMMALL_GS	2.0004E+00	12/14/2007			70	D
BS	14683-23-9			1.5E+01				97.8		L	09:28			130	

TAL Richland
rptFeadRadEdd v3.68

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

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Wednesday, December 26, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05262.Edd, h:\Reportdb\edd\FeadIV\Rad\37874.Edd

Lab Sample Id: KA68T1CS **Sdg/Rept Nbr:** W05262 37874 **Collection Date:** 11/07/2007 09:44

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 11/07/2007

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
7317614	SR-90	1.53E+01	pCi/L	2.4E+00		4.51E-01	75.5	1.39E+01	SRISO_SEP_P	1.0008E+00	12/21/2007			70	D
BS	10098-97-2			8.5E-01				109.8		L	08:55			130	

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

Wednesday, December 26, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05262.Edd, h:\Reportdb\edd\FeadIV\Rad\37874.Edd

Lab Sample Id:	KA68X1CS	**Sdg/Rept Nbr:**	W05262 37874	**Collection Date:**	11/06/2007 13:01
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	11/06/2007

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
7317616	H-3	2.56E+03	pCi/L	2.6E+02		3.01E+02	100.0	2.72E+03	906.0_H3_LSC	1.00E-02	11/30/2007			75	D
BS	10028-17-8			2.3E+02				94.3		L	17:22			125	

TAL Richland
rptFeadRadEdd v3.68

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

Wednesday, December 26, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05262.Edd, h:\Reportdb\edd\FeadIV\Rad\37874.Edd

Lab Sample Id: KA68X1EM **Sdg/Rept Nbr:** W05262 37874 **Collection Date:** 11/06/2007 13:01

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 11/06/2007

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
7317616	H-3	2.53E+03	pCi/L	2.6E+02		3.00E+02	100.0	2.72E+03	906.0_H3_LSC	1.00E-02	11/30/2007			75	D
BS	10028-17-8			2.3E+02				93.1		L	18:47			125	

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

Wednesday, December 26, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05262.Edd, h:\Reportdb\edd\FeadIV\Rad\37874.Edd

Lab Sample Id:	KANJ91FR	**Sdg/Rept Nbr:**	W05262 37874	**Collection Date:**	11/06/2007 13:01
Client Id:	B1R168	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	11/06/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I08-005	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
7317612	BETA	1.27E+01	pCi/L	2.7E+00		2.95E+00	100.0		9310_ALPHAB	2.001E-01	12/19/2007	1.3	0.1		D
DUP	12587-47-2	1.26E+01		2.1E+00						L	18:21	20.0	3		

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

Wednesday, December 26, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05262.Edd, h:\Reportdb\edd\FeadIV\Rad\37874.Edd

Lab Sample Id:	KANJ91GR	**Sdg/Rept Nbr:**	W05262 37874	**Collection Date:**	11/06/2007 13:01
Client Id:	B1R168	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	11/06/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I08-005	MW6-SBB-A19981								BJ	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7317616	H-3	1.57E+04	pCi/L	7.4E+02		3.01E+02	100.0		906.0_H3_LSC	1.00E-02	11/30/2007	3.1	0.9		D
DUP	10028-17-8	1.52E+04		5.1E+02						L	20:11	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.

Wednesday, December 26, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05262.Edd, h:\Reportdb\edd\FeadIV\Rad\37874.Edd

Lab Sample Id:	KARAG1CR	**Sdg/Rept Nbr:**	W05262	37874	**Collection Date:** 11/07/2007 09:44
Client Id:	B1R1L8	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 11/07/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I08-005	MW6-SBB-A19981								BK	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7317614	SR-90	1.17E+00	pCi/L	3.2E-01		3.73E-01	80.7		SRISO_SEP_P	1.001E+00	12/21/2007	6.7	0.3		D
DUP	10098-97-2	1.09E+00		2.7E-01						L	08:55	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.

Wednesday, December 26, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05262.Edd, h:\Reportdb\edd\FeadIV\Rad\37874.Edd

Lab Sample Id:	KATTW1CR	**Sdg/Rept Nbr:**	W05262	37874	**Collection Date:** 11/08/2007 08:52
Client Id:	B1R313	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 11/08/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I08-008	MW6-SBB-A19981								BL	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7317610	I-129L	8.16E-02	pCi/L	2.2E-01	U	2.99E-01	100.5		I129LL_SEP_L	3.954E+00	12/21/2007	129.7	1.9		D
DUP	15046-84-1	3.82E-01		2.2E-01						L	16:10	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.

Wednesday, December 26, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05262.Edd, h:\Reportdb\edd\FeadIV\Rad\37874.Edd

Lab Sample Id:	KATVH1DR	**Sdg/Rept Nbr:**	W05262	37874	**Collection Date:** 11/08/2007 08:52
Client Id:	B1R615	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 11/08/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W08-011	MW6-SBB-A19981								BM	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7317611	ALPHA	9.00E-01	pCi/L	1.4E+00	U	2.25E+00	100.0		9310_ALPHAB	6.66E-02	12/20/2007	21.6	0.2		D
DUP	12587-46-1	7.25E-01		1.3E+00						L	17:36	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.

Wednesday, December 26, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05262.Edd, h:\Reportdb\edd\FeadIV\Rad\37874.Edd

Lab Sample Id:	KATVP1ER	**Sdg/Rept Nbr:**	W05262	37874	**Collection Date:** 11/08/2007 10:23
Client Id:	B1R607	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 11/08/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W08-011	MW6-SBB-A19981								BN	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7317613	BE-7	5.52E+00	pCi/L	1.8E+01	U	3.35E+01			GAMMALL_GS	1.9069E+00	12/14/2007	0.0	0.9		D
DUP	13966-02-4	-6.38E+00		1.8E+01						L	09:27	20.0	3		
7317613	CO-60	8.21E-01	pCi/L	1.7E+00	U	3.46E+00			GAMMALL_GS	1.9069E+00	12/14/2007	134.7	0.6		D
DUP	10198-40-0	1.60E-01		1.7E+00						L	09:27	20.0	3		
7317613	CS-134	-4.78E-03	pCi/L	1.9E+00	U	3.44E+00			GAMMALL_GS	1.9069E+00	12/14/2007	0.0	0.7		D
DUP	13967-70-9	-1.01E+00		1.9E+00						L	09:27	20.0	3		
7317613	CS-137	-5.63E-01	pCi/L	1.6E+00	U	2.78E+00			GAMMALL_GS	1.9069E+00	12/14/2007	8388.6	1.		D
DUP	10045-97-3	5.90E-01		1.6E+00						L	09:27	20.0	3		
7317613	EU-152	1.96E+00	pCi/L	3.9E+00	U	7.24E+00			GAMMALL_GS	1.9069E+00	12/14/2007	80.7	1.		D
DUP	14683-23-9	4.61E+00		3.9E+00						L	09:27	20.0	3		
7317613	EU-154	-8.89E-01	pCi/L	5.0E+00	U	9.16E+00			GAMMALL_GS	1.9069E+00	12/14/2007	1950.2	0.6		D
DUP	15585-10-1	1.09E+00		5.0E+00						L	09:27	20.0	3		
7317613	EU-155	8.58E-02	pCi/L	3.3E+00	U	5.69E+00			GAMMALL_GS	1.9069E+00	12/14/2007	191.1	1.6		D
DUP	14391-16-3	3.77E+00		3.3E+00						L	09:27	20.0	3		
7317613	K-40	-3.94E+01	pCi/L	3.6E+01	U	7.24E+01			GAMMALL_GS	1.9069E+00	12/14/2007	0.0	0.6		D
DUP	13966-00-2	-5.55E+01		3.6E+01						L	09:27	20.0	3		
7317613	RU-106	2.06E+00	pCi/L	1.7E+01	U	3.01E+01			GAMMALL_GS	1.9069E+00	12/14/2007	0.0	0.9		D
DUP	13967-48-1	-8.98E+00		1.7E+01						L	09:27	20.0	3		
7317613	SB-125	5.98E-02	pCi/L	4.5E+00	U	8.01E+00			GAMMALL_GS	1.9069E+00	12/14/2007	183.2	0.4		D
DUP	14234-35-6	1.36E+00		4.5E+00						L	09:27	20.0	3		

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

TestAmerica

TA Richland
Hexavalent Chromium - Water

Analyst:	J. Peterson	Calibration Curve Information				SOP Information		BATCH #	7317618
Start Date:	11/8/2007		Amount	Conc.(mg/L)	ABS.	RICH-WC-5003		SDG #	WO5262
Start Time:	8:30	Blank	0.000	0.000	0.000	Revision 7		Matrix	Water
End Date:	11/8/2007	Std. 1	0.100	0.050	0.098				
End Time	9:30	Std. 2	0.500	0.250	0.475			Instrument Information	
		Std. 3	0.750	0.375	0.72	MDL (mg/L)	0.002	Instrument:	Hach DR2010
Analyst Signature:		Std. 4	1.500	0.750	1.412			Wavelength:	540
		Std 5	2.000	1.000	1.880			R Squared	0.99995
Date:	11/14/07	Standard Volume (mL):			100.000			Slope:	1.87755
		Date of Curve:			11/8/2007			Intercept:	0.00532

	Calibration Information:	ICV Information:		LCS Information:		Matrix Spike Information:	
Dilution ID #	Cr-07-0143	Cr-07-0144		Cr-07-0143		Cr-07-0143	
Prep Date:	11/08/07	11/08/07		11/08/07		11/08/07	
Concentration (mg/L)	50	50		50		50	
Expiration Date:	11/09/07	11/09/07		11/09/07		11/09/07	
Pipettor(s)	70,190	190		190		190	
Volume Used (Expected Value		1.000	0.50000	1.00	0.50000	0.50	0.26316

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

Sample ID	Client ID	Type	Sample Volume (mL)	Sample ABS.	Blank ABS.	Corrected ABS.	Dilution Factor	Curve Conc. (mg/L)	Final Conc. (mg/L)	% Rec.
n/a	n/a	ICV	100.000	0.957	0.000	0.957	1	0.5069	0.507	101.37%
n/a	n/a	ICB	100.000	0.000	0.000	0.000	1	<MDL	<MDL	
KA681-1AA	n/a	Prep Blank	100.000	0.000		0.000	1	<MDL	<MDL	
KA681-1AC	n/a	LCS	100.000	0.966		0.966	1	0.5117	0.512	102.33%
KANJ9-1AA	B1R168	Sample	100.000	0.003	0.006	-0.003	1	<MDL	<MDL	
KANJ9-1AC~~S~~	B1R168-MS	MS	100.000	0.516	0.006	0.510	1	0.2688	0.269	102.14%
KANJ9-1A~~D~~D	B1R168-MSD	MSD	100.000	0.519	0.006	0.513	1	0.2704	0.270	102.75%
KANJ9-1A~~E~~-X	B1R168-DUP	Duplicate	100.000	0.004	0.006	-0.002	1	<MDL	<MDL	
J			100.000				1			
			100.000				1			
			100.000				1			
n/a	n/a	CCV	100.000	0.956		0.956	1	0.5063	0.506	101.27%
n/a	n/a	CCB	100.000	0.000		0.000	1	<MDL	<MDL	
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			

Corrections ARE 1AH(MS), 1AK(MSD) & 1AJ (Dup) SK 10/26/07

TESTAMERICA RICHLAND 32

Lot No., Due Date: J7K070156,J7K080121,J7K080309; 12/26/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7317611; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05262,~~W05256~~; WATER
SRS 12/21/07

1.0 COC

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

2.0 QC Batch

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

3.0 QC & Samples

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

4.0 Raw Data

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

5.0 Other

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

6.0 Comments on any No response:
NCM 10-11524

First Level Review Lisa Anderson **Date** 12/21/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7317611

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: Jodie Ce Date: 12/21/07

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

Clouseau
Nonconformance Memo

TestAmerica

NCM #:	**10-11524**		
NCM Initiated By:	Lisa Antonson	Classification:	**Anomaly**
Date Opened:	12/21/2007	Status:	**PMREVIEW**
Date Closed:		Production Area:	Environmental - Prep
		Tests:	Alpha by GPC-Am
		Lot #'s (Sample #'s):	J7K070156 (1,2,3,4,5,6,7), J7K080121 (4,6,8), J7K080309 (1,2), J7K130000 (611),
		QC Batches:	7317611,
Nonconformance:	MDA not met		
Subcategory:	Sample size reduced due to high residue mass		

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	12/21/2007	Sample KATVP didn't meet CRDL due to reduced aliquots based on weight screens. The sample was counted for the maximum of 200 minutes.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	12/21/2007	NA

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

SEVERN TRENT STL

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

12/21/2007 7:44:10 AM

Lot No., Due Date: J7K070156,J7K080121,J7K080309; 12/26/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7317612; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05262,~~W05256~~; WATER
SKS 12/21/07

1.0 COC

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

2.0 QC Batch

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

3.0 QC & Samples

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

4.0 Raw Data

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

5.0 Other

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

6.0 Comments on any No response:
Please see NCM # 10-11522

First Level Review [signature] **Date** 12-21-7

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7317612

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: B1R615 and B1R607 activities > MDA > CRDL

Second Level Review: Jodie Date: 12/21/07

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-11522**
NCM Initiated By: John Norton
Date Opened: 12/21/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: None
Lot #'s (Sample #'s): J7K080309 (1,2),
QC Batches: None.,

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

Problem Description / Root Cause

Name	Date	Description
John Norton	12/21/2007	The samples did not meet the RDL due to reduced aliquot sizes caused by high residual weights.

Corrective Action

Name	Date	Corrective Action
John Norton	12/21/2007	In each case the activity detected 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: 12/21/2007

STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

12/21/2007 2:32:16 PM

Lot No., Due Date: J7K070156,J7K080121; 12/26/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7317614; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05262,W~~05256~~; WATER

SKS 12/26/07

1.0 COC

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

2.0 QC Batch

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

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

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

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

3.0 QC & Samples

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

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

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

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

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

4.0 Raw Data

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

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

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

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

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

5.0 Other

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

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

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

5.4 Was transcription checked? Yes ✓ No N/A

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

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 12-21-7

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7317614

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: Jodie C. Date: 12/21/07

RADIOCHEMISTRY, First Level Review

Lot No., Due Date:	J7K080309; 12/26/2007
Client, Site:	384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test:	7317613; RGAMMA Gamma by GER
SDG, Matrix:	W05262; 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 Steven E. Mikelson **Date** 12/14/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7317613

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: Erika Jordan Date: 12/17/7

Lot No., Due Date: J7K090395,J7K080303; 12/26/2007
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 7317610; RGAMLEPS Gamma by LEPS
SDG, Matrix: W05262; WATER

1.0 COC

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

2.0 QC Batch

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

3.0 QC & Samples

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

4.0 Raw Data

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

5.0 Other

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

6.0 Comments on any No response:

First Level Review Thomas E. Wheland **Date** 12/24/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7317610

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: Jodie G Date: 12/24/07

Lot No., Due Date: J7K070156; 12/26/2007
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 7317616; RTRITIUM H-3 by LSC
SDG, Matrix: W05262; 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 Steven E. Mitchell **Date** 12/14/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7317616

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: Erika Jade Date: 12/17/7

SEVERN TRENT STL

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): **7317618** WD5262 J7K070156

Lab Sample Numbers or

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

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

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

Comments on any "No" response:

Analyst: [signature] Date: 11/14//2007

Second-Level Review: Sandra Segu Date: 12/26/07

TESTAMERICA RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7K070156 WP5262 Due 12-21-07

C.O.C. # I08-005-12

Page 1 of 1

Collector Fluor Hanford D. R. BREWINGTON	Contact/Requester Steve trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. I08-005	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 100HR3IAM(1/2), NOVEMBER 2007	HWF-N-506-12 pg. 17	Ice Chest No. GW-1 Temp.
Shipped To (Lab) TestAmerica Incorporated Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol CERCLA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1R168		W	11/6/07	1301	1x20-mL P	Activity Scan	None
B1R168		W			1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	Cool~4C
B1R168		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1R168		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						KANJ9	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON	D. R. Brewington		NOV 16 2007 1535	L. Smith	S. Smith		1535
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

J7K070156 W05262 Due 12-21-07

C.O.C. # I08-005-140

Page 1 of 1

Collector: D. J. Sparks	Contact/Requester: Steve trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: 108-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100HR3IAM(1/2), NOVEMBER 2007	H NF-N. 506-5	Ice Chest No.: 119 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
B1R1J1		W	11607	1041	1x20-mL P	Activity Scan	None
B1R1J1		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1R1L0		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1) RANK5	HNO3 to pH <2
						KANKF	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. J. Sparks			NOV 0 6 2007 1430	Fluor Hanford	D.R. BREWINGTON	D.R. Brewington	NOV 0 6 2007 1430
Fluor Hanford	D.R. BREWINGTON	D.R. Brewington	1535 11-6-07	S. Smith		S. Smith	1535 11-6-07
			Date/Time				Date/Time
			Date/Time				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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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7K070156 W05262 Due 12-21-07

C.O.C. # I08-005-84

Page 1 of 1

Collector Roy Shepard, Fluor Hanford	**Contact/Requester** Steve trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100HR3IAM(1/2), NOVEMBER 2007	HNF-N-506 11	**Ice Chest No.** GW1 **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
B1R1C4		W	11-6-07	1157	1x20-mL P	Activity Scan	None
B1R1C4		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2

KANKH

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
Roy Shepard, Fluor Hanford		NOV 06 2007 1430	Fluor Hanford D. R. BREWINGTON	D.R. Brewington	NOV 06 2007 1430
Fluor Hanford D. R. BREWINGTON	D.R. Brewington	11-6-07 1535	S. Smith	S. Smith	11-6-07 1535
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 J7K070156 W05262 Due 12-21-07	C.O.C. # I08-005-90 Page 1 of 1

Collector Roy Shepard ~~Fluor Hanford~~	**Contact/Requester** Steve trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100HR3IAM(1/2), NOVEMBER 2007	HNF-N-506 11	**Ice Chest No.** GW1 **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
B1R1C7		W	11-6-07	1243	1x20-mL P	Activity Scan	None
B1R1C7		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						KANKM	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Roy Shepard Fluor Hanford			1430 NOV 06 2007	Fluor Hanford D. R. BREWINGTON		D.R. Brewington	1430 NOV 06 2007
Fluor Hanford D. R. BREWINGTON		D.R. Brewington	1535 11-6-07			S. Smith	1535 11-6-07
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

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7K070156 W05262 Due 12-21-07

C.O.C. # **I08-005-146**

Page 1 of 1

Collector D. J. Sparks	**Contact/Requester** Steve trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100HR3JAM(1/2), NOVEMBER 2007	HNF-N-506-5	**Ice Chest No.** 114 **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
B1R1J5		W	11607	1249	1x20-mL P	Activity Scan	None
B1R1J5		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						KANKQ	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. J. Sparks			NOV 0 6 2007 1439	Fluor Hanford	D. R. BREWINGTON	D.R. Brewington	NOV 0 6 2007 1430
Fluor Hanford	D. R. BREWINGTON	D.R. Brewington	11-6-07 1535	S. Smith		S. Smith	11-6-07 1535

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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FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J7K070156 W05262 Due 12-21-07	C.O.C. # I08-005-162 Page 1 of 1

Collector: D. J. Sparks	Contact/Requester: Steve trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I08-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100HR3IAM(1/2), NOVEMBER 2007	HNF-N-506	Ice Chest No.: 119 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
B1R1K5		W	11607	1131	1x20-mL P	Activity Scan	None
B1R1K5		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						KANKW	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. J. Sparks			NOV 06 2007 1430	Fluor Hanford	D. R. BREWINGTON		NOV 06 2007 1430
Fluor Hanford	D. R. BREWINGTON		1535 11-6-07				1535 11-6-07

Matrix *

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

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

TESTAMERICA RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I08-005-20
	J7K070156 W05263 Due 12/21/07	Page 1 of 1

Collector Fluor Hanford D.R. BREWINGTON	**Contact/Requester** Steve trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100HR3IAM(1/2), NOVEMBER 2007	HWF-N-506-12 pg. 17	**Ice Chest No.** GW1 **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
B1R173		W	11/8/07	0952	1x20-mL P	Activity Scan	None
B1R173		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						KANKI	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Fluor Hanford D.R. BREWINGTON	D.R. Brewington	NOV 06 2007 1535	S. Smith	S. Smith		1535
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: 11-6-07 1535

Client: PGW SDG #: W05262 NA[ ] SAF #: I08-005 NA [ ]

Work Order Number: J7K070156 Chain of Custody # I08-005-84,-90,-140-146,-162,-20,-12

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: 8
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: 11-6-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7K080121 W05262 DUE 122407 KAQ97

C.O.C. # I08-005-228

Page 1 of 1

Collector: Roy Shepard, Fluor Hanford	Contact/Requester: Steve trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: 108-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100HR3IAM(1/2) NOVEMBER 2007	H1-F-N-506 11	Ice Chest No.: SML 538 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
B1R1M4		W	11-7-07	1146	1x20-mL P	Activity Scan	None
B1R1M4		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Roy Shepard, Fluor Hanford			NOV 07 2007 1335	S. Smith	S. Smith		NOV 07 2007 1335
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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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7K080121 W05262 DUE 12-21-07 KARAG

C.O.C. # I08-005-216

Page 1 of 1

Collector F. H. Hall Fluor Hanford Inc	Contact/Requester Steve trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. 108-005	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 100HR3IAM(1/2), NOVEMBER 2007	HNF-N-506 11	Ice Chest No. SMC 538 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
B1R1L8		W	11-7-07	0944	1x20-mL P	Activity Scan	None
B1R1L8		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F. H. Hall Fluor Hanford Inc			NOV 07 2007 1585		S. Smith	S. Smith	NOV 07 2007 1585
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 = Stiff		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 RICHLAND

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FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I08-005-210
	J7K080121 WO5262 DUE 12-21-07 KARAJ	Page 1 of 1

Collector: F. H. Hall, Fluor Hanford Inc	Contact/Requester: Steve trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I08-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100HR3IAM(1/2), NOVEMBER 2007	HNF-N-506 11	Ice Chest No.: SMC 533 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
B1R1L5		W	11-7-07	1040	1x20-mL P	Activity Scan	None
B1R1L5		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F. H. Hall, Fluor Hanford Inc			NOV 07 2007 1505	A. Smith	S. Smith		NOV 07 2007 1505
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	C.O.C. # 108-005-274
	J7K080121 WO5262 DUE 12-21-07 KARAL	Page 1 of 1

Collector: Fluor Hanford D. R. BREWINGTON	Contact/Requester: Steve trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: 108-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100HR3JAM(1/2), NOVEMBER 2007	HNF-N-506-12 pg. 18	Ice Chest No.: GW-1 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1R203		W	11/7/07	0906	1x20-mL P	Activity Scan	None
B1R203		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 D. R. BREWINGTON D. R. Brewington	NOV 07 2007 1535	S. Smith S. Smith	NOV 07 2007 1535
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

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

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

TESTAMERICA RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I08-005-321
	J7K080121 W05262 DUE 122107 KARAM	Page 1 of 1

Collector Fluor Hanford D. R. BREWINGTON	**Contact/Requester** Steve trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100HR3IAM(1/2), NOVEMBER 2007	HNF-N-506-12 pg 18	**Ice Chest No.** GW-1 **Temp.**
Shipped To (Lab) TestAmerica Incorporated Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol CERCLA	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1R1T1		W	11/7/07	1054	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1) KARAM	HNO3 to pH <2
B1R229		W	↓		1x20-mL P	Activity Scan	None
B1R229		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2) KARAR	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON	D. R. Brewington	D. R. Brewington	NOV 07 2007 1505	L. Smith	L. S. Smith	L. S. Smith	NOV 07 2007 1505
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TESTAMERICA RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7K080121 W05262 DUE 122107

C.O.C. # I08-005-320

Page 1 of 1

Collector: Fluor Hanford	Contact/Requester: Steve trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No: D. R. BREWINGTON 108-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100HR3IAM(1/2), NOVEMBER 2007	HWF-W-506-12 pg. 18	Ice Chest No.: GW-1 Temp.
Shipped To (Lab): TestAmerica Incorporated Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis		Preservative
B1R1T0		W	11/7/07	1054	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	KARAX	HNO3 to pH <2
B1R228		W	↓	↓	1x20-mL P	Activity Scan		None
B1R228		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	KARAI	HNO3 to pH <2

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Fluor Hanford D. R. BREWINGTON D.R. Brewington	NOV 07 2007 1505	R. Smith S. Smith	NOV 07 2007 1505
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 12-21-07

Date/Time Received: 11-7-07 1505

Client: PGW SDG #: W05262 NA[ ] SAF #: I08-005 NA [ ]

Work Order Number: J7K080121 Chain of Custody # I08-005-228,-216,-210,-274,-321,-320

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: 8
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: 11-7-07

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

J7K080303 W05262 DUE122407 KATTW

C.O.C. # I08-008-26

Page 1 of 1

Collector Fluor Hanford D. A. BREWINGTON	**Contact/Requester** Steve trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-008	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2ZP1, NOVEMBER 2007	HNF-N-506-12 pg. 19	**Ice Chest No.** GW-1 **Temp.**
Shipped To (Lab) TestAmerica Incorporated Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol CERCLA	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1R313		W	11/8/07	0852	1x20-mL P	Activity Scan	None
B1R313		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
Fluor Hanford D. R. BREWINGTON	D.R. Brewington		NOV 08 2007 1240		LJLANE	TAL-R	NOV 08 2007 1240
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 122407

Date/Time Received: 11-8-07 1240

Client: PGW SDG #: W05262 NA[ ] SAF #: I08-008 NA [ ]

Work Order Number: J7K080303 Chain of Custody # I08-008-26

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: 11-8-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TESTAMERICA RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7K080309 W05262 DUE 122407 KATVH

C.O.C. # **W08-011-332**

Page 1 of 1

Collector Fluor Hanford	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. D. R. BREWINGTON W08-011	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, NOVEMBER 2007	HNF-N-506-12 pg. 19	**Ice Chest No.** Gw-1 **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 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
B1R615		W	11/8/07	0852	1x20-mL P	Activity Scan	None
B1R615		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 D. R. BREWINGTON	D. R. Brewington		NOV 14 2007		LJ LANE	TAL-R	NOV 14 2007 1240
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	C.O.C. # W08-011-314
	N7K080309 W05262 DUE 122407 KATVP	Page 1 of 1

Collector Fluor Hanford D. R. BREWINGTON	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. W08-011	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA NOVEMBER 2007	HNF-N-506-12 Rev 19	Ice Chest No. GW-1 Temp.
Shipped To (Lab) TestAmerica Incorporated Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol RCRA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 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
B1R607		W	11/8/07	1023	1x20-mL P	Activity Scan	None
B1R607		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1R607		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	D. R. BREWINGTON	DR Brewington	NOV 08 2007 1240		LVLANE	TAL-R	NOV 08 2007 1240
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 122407

Date/Time Received: 11-8-07 1240

Client: PGW SDG #: W05262 NA[ ] SAF #: W08-011 NA [ ]

Work Order Number: J7K080309 Chain of Custody # W08-011-332,-314

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: RJ Date: 11-8-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TESTAMERICA RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7K090395 W05262 DUE 122407 KAOQO

C.O.C. # I08-007-2

Page 1 of 1

Collector Fluor Hanford D. R. BREWINGTON	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-007	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2UPL NOVEMBER 2007	Logbook: HNF-N-506-B	**Ice Chest No.** **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
B1R2N2		W	11/9/07	1255	1x20-mL P	Activity Scan	None
B1R2N2		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

D. Well 11/9/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON			NOV 09 2007 1258	KB Hulse			NOV 09 2007 1258
KB Hulse			11/9/07 1330	LJ LANE	TAL-R		11-9-07 1330

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 122407

Date/Time Received: 11-9-07 1330

Client: PGW SDG #: W05262 NA[ ] SAF #: I08-007 NA [ ]

Work Order Number: J7K090395 Chain of Custody # _____

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: RJ Date: 11-9-07

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

12/13/2007 9:02:28 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 #: 222

AnalyDueDate: 12/21/2007 1052162

Sep1 DT/Tm Tech:

Batch: 7317611 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: HarrisD

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 KANJ9-1-AD J7K070156-1-SAMP 11/06/2007 13:01		200.30g,in AmtRec: 20ML,500ML,2XLP #Containers: 4		1.5	50.7	50	1D1	0726	12/21/07	Scr: Alpha: -3.52E-04 uCi/Sa Beta: 2.68E-04 uCi/Sa
2 KANKF-1-AA J7K070156-2-SAMP 11/06/2007 10:41		128.20g,in AmtRec: 20ML,LP #Containers: 2			33.8	100	1DA	0624	12/21/07	Scr: Alpha: -1.16E-05 uCi/Sa Beta: 4.22E-05 uCi/Sa
3 KANKH-1-AA J7K070156-3-SAMP 11/06/2007 11:57		146.90g,in AmtRec: 20ML,LP #Containers: 2			47.6		1D3			Scr: Alpha: -1.61E-04 uCi/Sa Beta: 1.28E-04 uCi/Sa
4 KANKM-1-AA J7K070156-4-SAMP 11/06/2007 12:43		125.10g,in AmtRec: 20ML,LP #Containers: 2			26.7		1DC			Scr: Alpha: 2.07E-05 uCi/Sa Beta: 2.03E-05 uCi/Sa
5 KANKQ-1-AA J7K070156-5-SAMP 11/06/2007 12:49		135.20g,in AmtRec: 20ML,LP #Containers: 2			40.8		1DD			Scr: Alpha: -1.18E-04 uCi/Sa Beta: 1.50E-04 uCi/Sa
6 KANKW-1-AA J7K070156-6-SAMP 11/06/2007 11:31		178.60g,in AmtRec: 20ML,LP #Containers: 2			20.4	50	1D5	0726	12/21/07	Scr: Alpha: -1.07E-04 uCi/Sa Beta: 1.50E-04 uCi/Sa
7 KANK1-1-AA J7K070156-7-SAMP 11/06/2007 09:52		121.90g,in AmtRec: 20ML,LP #Containers: 2			52.8	100	1DF	0624	12/21/07	Scr: Alpha: 3.22E-05 uCi/Sa Beta: 7.42E-05 uCi/Sa

TESTAMERICA RICHLAND

12/13/2007 9:02:29 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: 12/21/2007

Sep1 DT/Tm Tech:

Batch: 7317611 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD

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 KARAL-1-AA J7K080121-4-SAMP 11/07/2007 09:06	AmtRec: VIAL20,LP #Containers: 2	200.30g,in		1.5	30.9	50	10C Scr:	0726 Alpha: 8.20E-05 uCi/Sa	12/8/07 Beta: 6.34E-05 uCi/Sa	
9 KARAR-1-AA J7K080121-6-SAMP 11/07/2007 10:54	AmtRec: VIAL20,LP #Containers: 2	199.90g,in			35.9		10D Scr:	Alpha: -4.27E-04 uCi/Sa	Beta: 6.87E-04 uCi/Sa	
10 KARA1-1-AA J7K080121-8-SAMP 11/07/2007 10:54	AmtRec: VIAL20,LP #Containers: 2	200.60g,in			35.3		10F Scr:	Alpha: -1.27E-04 uCi/Sa	Beta: 5.13E-04 uCi/Sa	
11 KATVH-1-AA J7K080309-1-SAMP 11/08/2007 08:52	AmtRec: VIAL20,LP #Containers: 2	66.70g,in			43.3	200	10F Scr:	1916 Alpha: 3.91E-05 uCi/Sa	12/20/2007 Beta: 2.31E-05 uCi/Sa	
12 KATVH-1-AD-X J7K080309-1-DUP 11/08/2007 08:52	AmtRec: VIAL20,LP #Containers: 2	66.60g,in			43.9		10D Scr:	Alpha: 3.91E-05 uCi/Sa	Beta: 2.31E-05 uCi/Sa	
13 KATVP-1-AA J7K080309-2-SAMP 11/08/2007 10:23	AmtRec: VIAL20,LP,4LP #Containers: 3	55.50g,in			43.0		10C Scr:	Alpha: 1.78E-06 uCi/Sa	Beta: -9.09E-07 uCi/Sa	
14 KA68H-1-AA-B J7K130000-611-BLK 11/08/2007 08:52	AmtRec: #Containers: 1	201.10g,in			0.5		10B Scr:	Alpha:	Beta:	

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TESTAMERICA RICHLAND

12/13/2007 9:02:30 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 12/21/2007

Batch: 7317611 pCi/L
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 KA68H-1-AC-C J7K130000-611-LCS 11/08/2007 08:52		199.50g,in AmtRec:	asd4361 11/27/07,pd 06/01/01,r #Containers: 1	1.5	0.1	200	10A	19 | 6	12/20/07	

Scr: Alpha: Beta:

Comments: pH<2.0 DLH 12/13/07
Aliquots reduced due to weight screens.

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

KANJ91AD-SAMP Constituent List:
ALPHA RDL:3 pCi/L LCL: UCL: RPD:
KA68H1AA-BLK:
ALPHA RDL:3 pCi/L LCL: UCL: RPD:
KA68H1AC-LCS:
Am-241 RDL: pCi/L LCL:70 UCL:130 RPD:20

KANJ91AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KA68H1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KA68H1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

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12/21/2007 11:19:24 AM

ICOC Fraction Transfer/Status Report

ByDate: 12/21/2006, 12/26/2007, Batch: '7317611', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7317611						
AC		CalcC	HarrisD	12/13/2007 8:47:06		
SC			wagarr	IsBatched	11/14/2007 8:09:22 AM	ICOC_RADCALC v4.8.29
SC			HarrisD	InPrep	12/13/2007 8:47:06 AM	RICH-RC-5014 Revision 7
SC			HarrisD	Prep1C	12/13/2007 9:02:43 AM	RICH-RC-5014 REVISION 7
SC			BockJ	InPrep2	12/18/2007 8:33:35 AM	RICH-RC-5014 REVISION 7
SC			BockJ	Prep2C	12/20/2007 11:45:29 AM	RICH-RC-5014 REVISION 7
SC			BlackCL	InCnt1	12/20/2007 11:57:30 AM	RICH-RD-0003 REVISION 5
SC			ClarkR	CalcC	12/21/2007 9:48:16 AM	RICH-RD-0003 REVISION 5
AC			HarrisD	12/13/2007 9:02:43		
AC			BockJ	12/18/2007 8:33:35		
AC			BockJ	12/20/2007 11:45:29		
AC			BlackCL	12/20/2007 11:57:30		
AC			ClarkR	12/21/2007 9:48:16		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt:6

ICOCFractions v4.8.30

TESTAMERICA RICHLAND

12/13/2007 9:18:37 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: 222

AnalyDueDate: 12/21/2007 W052602

Sep1 DT/Tm Tech:

Batch: 7317612 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: HarrisD | Beck

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 KANJ9-1-AE J7K070156-1-SAMP 11/06/2007 13:01		200.30g,in AmtRec: 20ML,500ML,2XLP #Containers: 4		1.5	95.6	100	26A Scr: Alpha: -3.52E-04 uCi/Sa	1911	12/19/07 OW Beta: 2.68E-04 uCi/Sa	
2 KANJ9-1-AF-X J7K070156-1-DUP 11/06/2007 13:01		200.10g,in AmtRec: 20ML,500ML,2XLP #Containers: 4			92.6		26B Scr: Alpha: -3.52E-04 uCi/Sa		Beta: 2.68E-04 uCi/Sa	
3 KANKF-1-AC J7K070156-2-SAMP 11/06/2007 10:41		200.10g,in AmtRec: 20ML,LP #Containers: 2			90.3		26C Scr: Alpha: -1.16E-05 uCi/Sa		Beta: 4.22E-05 uCi/Sa	
4 KANKH-1-AC J7K070156-3-SAMP 11/06/2007 11:57		200.10g,in AmtRec: 20ML,LP #Containers: 2			80.1		26D Scr: Alpha: -1.61E-04 uCi/Sa		Beta: 1.28E-04 uCi/Sa	
5 KANKM-1-AC J7K070156-4-SAMP 11/06/2007 12:43		200.00g,in AmtRec: 20ML,LP #Containers: 2			107.3		27A Scr: Alpha: 2.07E-05 uCi/Sa		Beta: 2.03E-05 uCi/Sa	
6 KANKQ-1-AC J7K070156-5-SAMP 11/06/2007 12:49		200.20g,in AmtRec: 20ML,LP #Containers: 2			110.5		27B Scr: Alpha: -1.18E-04 uCi/Sa		Beta: 1.50E-04 uCi/Sa	
7 KANKW-1-AC J7K070156-6-SAMP 11/06/2007 11:31		200.10g,in AmtRec: 20ML,LP #Containers: 2			49.7		27C Scr: Alpha: -1.07E-04 uCi/Sa		Beta: 1.50E-04 uCi/Sa	

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TA Richland
Richland Wa.

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

Page 1

ISV - Insufficient Volume for Analysis

WO Cnt: 7
Prep_SamplePrep v4.8

TESTAMERICA RICHLAND

12/13/2007 9:18:39 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 12/21/2007

Sep1 DT/Tm Tech:

Batch: 7317612 WATER pCi/L PM, Quote: SA , 57671

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,HarrisD

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 KANK1-1-AC J7K070156-7-SAMP 11/06/2007 09:52		200.20g,in AmtRec: 20ML,LP #Containers: 2		1.5	76.4	100	27D Scr:	1911 Alpha: 3.22E-05 uCi/Sa	12/19/07 DR Beta: 7.42E-05 uCi/Sa	
9 KARAL-1-AC J7K080121-4-SAMP 11/07/2007 09:06		200.10g,in AmtRec: VIAL20,LP #Containers: 2			84.0		28A Scr:	Alpha: 3.20E-05 uCi/Sa	Beta: 6.34E-05 uCi/Sa	
10 KARAR-1-AC J7K080121-6-SAMP 11/07/2007 10:54		200.30g,in AmtRec: VIAL20,LP #Containers: 2			77.9		28B Scr:	Alpha: -4.27E-04 uCi/Sa	Beta: 6.87E-04 uCi/Sa	
11 KARA1-1-AC J7K080121-8-SAMP 11/07/2007 10:54		200.10g,in AmtRec: VIAL20,LP #Containers: 2			75.0		28C Scr:	Alpha: -1.27E-04 uCi/Sa	Beta: 5.13E-04 uCi/Sa	
12 KATVH-1-AC J7K080309-1-SAMP 11/08/2007 08:52		93.30g,in AmtRec: VIAL20,LP #Containers: 2			110.3	~~200~~ 100	28D Scr:	Alpha: 3.91E-05 uCi/Sa	Beta: 2.31E-05 uCi/Sa	
13 KATVP-1-AC J7K080309-2-SAMP 11/08/2007 10:23		80.60g,in AmtRec: VIAL20,LP,4LP #Containers: 3			97.8	200	27A Scr:	1007 Alpha: 1.78E-06 uCi/Sa	12/20/07 DR Beta: -9.09E-07 uCi/Sa	
14 KA68N-1-AA-B J7K130000-612-BLK 11/06/2007 13:01		200.60g,in AmtRec: #Containers: 1			0.1		27B Scr:	Alpha:	Beta:	

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TESTAMERICA RICHLAND

12/13/2007 9:18:40 AM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 12/21/2007

Sep1 DT/Tm Tech:

Batch: 7317612 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD

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 KA68N-1-AC-C		200.40g.in	besb3179	1.5	1.0	200	37L	1 GET	12/20/07 MC	
J7K130000-612-LCS			11/12/07,pd 08/08/06,r							
11/06/2007 13:01		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:

Comments: pH 2.0. Aliquots reduced due to weight screens. DAH 12/13/07

KATVH1AC was counted for 100 minutes 12/19/07 MO to fill detectors

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

KANJ91AE-SAMP Constituent List:

BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
KA68N1AA-BLK:					
BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
KA68N1AC-LCS:					
Sr-90	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

KANJ91AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KA68N1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KA68N1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

12/21/2007 7:39:32 AM

ICOC Fraction Transfer/Status Report

ByDate: 12/21/2006, 12/26/2007, Batch: '7317612', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7317612						
AC		CalcC	HarrisD	12/13/2007 9:05:52		
SC			wagarr	IsBatched	11/14/2007 8:09:22 AM	ICOC_RADCALC v4.8.29
SC			HarrisD	InPrep	12/13/2007 9:05:52 AM	RICH-RC-5014 Revision 7
SC			HarrisD	Prep1C	12/13/2007 9:18:41 AM	RICH-RC-5014 REVISION 7
SC			BockJ	InPrep2	12/18/2007 8:33:48 AM	RICH-RC-5014 REVISION 7
SC			DAWKINSO	InCnt1	12/19/2007 5:49:20 PM	RICH-RD-0003 REVISION 5
SC			ClarkR	CalcC	12/20/2007 10:58:34 AM	RICH-RD-0003 REVISION 5
AC			HarrisD	12/13/2007 9:18:41		
AC			BockJ	12/18/2007 8:33:48		
AC			DAWKINSO	12/19/2007 5:49:20		
AC			DAWKINSO	12/19/2007 7:37:23		
AC			ClarkR	12/20/2007 10:58:34		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 6

ICOCFractions v4.8.30

TESTAMERICA RICHLAND

12/19/2007 5:03:32 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:I4
Pipet #: _____

AnalyDueDate: 12/21/2007

Sep1 DT/Tm Tech: 12/12/2007 16:01,ManisD

Batch: 7317614 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech: 12/19/2007 09:27,ManisD

SEQ Batch, Test: None

Prep Tech: ManisD

Work Order, Lot. Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KANK5-1-AA J7K070156-8-SAMP		1004.45g,in	SRTB15587 11/07/07,pd 05/22/07 r		1.0	23.1	100	2F	0907	12/20/07	
						12/12/2007 16:01;s1; 12/19/2007		7A	0945	12/20/07	
11/06/2007 10:41		AmtRec: 3XLP	#Containers: 3					Scr:	Alpha: -2.62E-04 uCi/Sa	Beta: 2.24E-04 uCi/Sa	
2 KAQ97-1-AA J7K080121-1-SAMP		1009.34g,in	SRTB15588 11/07/07,pd 05/22/07 r		1.0	22.8	100	2B	0907	12/20/07	
						12/12/2007 16:01;s1; 12/19/2007		7B	0945	12/20/07	
11/07/2007 11:46		AmtRec: VIAL20,3XLP	#Containers: 4					Scr:	Alpha: -9.63E-04 uCi/Sa	Beta: 8.38E-04 uCi/Sa	
3 KARAG-1-AA J7K080121-2-SAMP		1001.32g,in	SRTB15589 11/07/07,pd 05/22/07 r		1.0	23.2	100	2C	0907	12/20/07	
						12/12/2007 16:01;s1; 12/19/2007		7C	0945	12/20/07	
11/07/2007 09:44		AmtRec: VIAL20,3XLP	#Containers: 4					Scr:	Alpha: 5.11E-04 uCi/Sa	Beta: -2.31E-04 uCi/Sa	
4 KARAG-1-AC-X J7K080121-2-DUP		1001.00g,in	SRTB15660 12/07/07,pd 07/03/07 r		1.0	22.7	100	2D	0907	12/20/07	
						12/12/2007 16:01;s1; 12/19/2007		3A	0945	12/20/07	
11/07/2007 09:44		AmtRec: VIAL20,3XLP	#Containers: 4					Scr:	Alpha: 5.11E-04 uCi/Sa	Beta: -2.31E-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

TESTAMERICA RICHLAND

12/19/2007 5:03:32 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:I4 A,I4 A,I4 A,I4 A,E32905,I4

Pipet #: _____

AnalyDueDate: 12/21/2007

Batch: 7317614 WATER pCi/L PM, Quote: SA , 57671

SEQ Batch, Test: None

Sep1 DT/Tm Tech: 12/12/2007 16:01,ManisD

Sep2 DT/Tm Tech: 12/19/2007 09:27,ManisD

Prep Tech: ,ManisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
5 KARAJ-1-AA J7K080121-3-SAMP		1000.63g,in	SRTB15665 12/07/07,pd 07/03/07 r		1.0	22.8	100	3A	0627	12/20/07	
						12/12/2007 16:01;s1; 12/19/2007		3B	0945	12/21/07	
11/07/2007 10:40		AmtRec: VIAL20,3XLP		#Containers: 4				Scr:	Alpha: -2.26E-04 uCi/Sa		Beta: 2.87E-04 uCi/Sa
6 KARAM-1-AA J7K080121-5-SAMP		1000.83g,in	SRTB15666 12/07/07,pd 07/03/07 r		1.0	23.5	100	3B	0627	12/20/07	
						12/12/2007 16:01;s1; 12/19/2007		3C	0945	12/21/07	
11/07/2007 10:54		AmtRec: 3XLP		#Containers: 3				Scr:	Alpha: -6.11E-04 uCi/Sa		Beta: 7.11E-04 uCi/Sa
7 KARAX-1-AA J7K080121-7-SAMP		1001.91g,in	SRTB15667 12/07/07,pd 07/03/07 r		1.0	23	100	3C	0627	12/20/07	
						12/12/2007 16:01;s1; 12/19/2007		3D	0945	12/21/07	
11/07/2007 10:54		AmtRec: 3XLP		#Containers: 3				Scr:	Alpha: -3.87E-04 uCi/Sa		Beta: 4.84E-04 uCi/Sa
8 KA68T-1-AA-B J7K130000-614-BLK		1000.15g,in	SRTB15668 12/07/07,pd 07/03/07 r		1.0	23.2	100	3D	0627	12/20/07	
						12/12/2007 16:01;s1; 12/19/2007		4A	0945	12/21/07	
11/07/2007 09:44		AmtRec:		#Containers: 1				Scr:	Alpha:		Beta:

80

TESTAMERICA RICHLAND

12/19/2007 5:03:33 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:I4 A,I4 A,I4 A,I4 A,I4 A,I4 A,I4

Pipet #: _____

AnalyDueDate: 12/21/2007

Sep1 DT/Tm Tech: 12/12/2007 16:01,ManisD

Batch: 7317614 pCi/L

Sep2 DT/Tm Tech: 12/19/2007 09:27,ManisD

SEQ Batch, Test: None

Prep Tech: ManisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
9 KA68T-1-AC-C		1000.82g,in	SRSG1404		1.0	23	100	4A	0607	12/12/07	
J7K130000-614-LCS			11/12/07,pd 05/22/07,r					4B	0945	12/13/07	
						12/12/2007 16:01;s1; 12/19/2007					
11/07/2007 09:44		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:

Comments: KANK5-SAMP "Comments Sr-sample yellow in color drm 12-10-07"

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

KANK51AA-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

KA68T1AA-BLK:

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

KA68T1AC-LCS:

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

KANK51AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KA68T1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KA68T1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

12/21/2007 2:31:29 PM

ICOC Fraction Transfer/Status Report

ByDate: 12/21/2006, 12/26/2007, Batch: '7317614', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7317614						
AC		CalcC	WoodT	12/10/2007 6:48:56		
SC			wagarr	IsBatched	11/14/2007 8:09:22 AM	ICOC_RADCALC v4.8.29
SC			WoodT	InPrep	12/10/2007 6:48:56 AM	RICH-RC-5016 Revision 7
SC			WoodT	Prep1C	12/10/2007 7:25:58 AM	RICH-RC-5016 REVISION 7
SC			ManisD	InSep1	12/10/2007 8:57:00 AM	RICH-RC-5006 REV 7
SC			ManisD	Sep1C	12/12/2007 4:26:33 PM	RICH-RC-5006 REV 7
SC			DAWKINSO	InCnt1	12/12/2007 4:34:01 PM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	Cnt1C	12/12/2007 7:48:35 PM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	InCnt2	12/19/2007 5:21:30 PM	RICH-RD-0003 REVISION 5
SC			ClarkR	CalcC	12/21/2007 10:32:23 AM	RICH-RD-0003 REVISION 5
AC			**WoodT**	12/10/2007 7:25:58		
AC			**ManisD**	12/10/2007 8:57:00		
AC			**ManisD**	12/12/2007 4:26:33		
AC			**DAWKINSO**	12/12/2007 4:34:01		
AC			**DAWKINSO**	12/12/2007 7:48:35		
AC			**DAWKINSO**	12/19/2007 5:21:30		
AC			**ClarkR**	12/21/2007 10:32:23		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 8

ICOCFractions v4.8.30

TESTAMERICA RICHLAND

12/12/2007 1:53:39 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 12/24/2007 WO 52628

Sep1 DT/Tm Tech:

Batch: 7317613 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD 1Bock 9.

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 KATVP-1-AD J7K080309-2-SAMP 11/08/2007 10:23		1999.80g,in AmtRec: VIAL20,LP,4LP #Containers: 3			100mls	200	64	1247	12/14/07	Scr: Alpha: 1.78E-06 uCi/Sa Beta: -9.09E-07 uCi/Sa
2 KATVP-1-AE-X J7K080309-2-DUP 11/08/2007 10:23		1906.90g,in AmtRec: VIAL20,LP,4LP #Containers: 3					65	1247		Scr: Alpha: 1.78E-06 uCi/Sa Beta: -9.09E-07 uCi/Sa
3 KA68R-1-AA-B J7K130000-613-BLK 11/08/2007 10:23		2000.30g,in AmtRec: #Containers: 1					66	1248		Scr: Alpha: Beta:
4 KA68R-1-AC-C J7K130000-613-LCS 11/08/2007 10:23		2000.40g,in AmtRec: #Containers: 1	QCAG1427 11/12/07,pd 03/07/05				67	1248		Scr: Alpha: Beta:

Comments: Pt L.D.D. Duplicate poured at 1906.9mls due to insuff sample volume

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

KATVP1AD-SAMP Constituent List:

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

KA68R1AA-BLK:

Co-60	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:

12/12/2007 1:53:40 PM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 12/24/2007

Sep1 DT/Tm Tech:

Batch: 7317613 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD

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

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

KA68R1AC-LCS:

Cs-137	RDL:15	pCi/L	LCL:70	UCL:130	RPD:20	Cs-137DA	RDL:15	pCi/L	LCL:70	UCL:130	RPD:20
K-40	RDL:6	pCi/L	LCL:70	UCL:130	RPD:20	Ra-226	RDL:--	pCi/L	LCL:70	UCL:130	RPD:20
RA-228	RDL:--	pCi/L	LCL:70	UCL:130	RPD:20	RA-228DA	RDL:--	pCi/L	LCL:70	UCL:130	RPD:20
U-238	RDL:--	pCi/L	LCL:70	UCL:130	RPD:20						

KATVP1AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

KA68R1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

KA68R1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

12/14/2007 4:20:46 PM

ICOC Fraction Transfer/Status Report

ByDate: 12/14/2006, 12/19/2007, Batch: '7317613', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7317613						
AC		CalcC	HarrisD	12/12/2007 1:41:51		
SC			wagarr	IsBatched	11/14/2007 8:09:22 AM	ICOC_RADCALC v4.8.29
SC			HarrisD	InPrep	12/12/2007 1:41:51 PM	RICH-RC-5014 Revision 7
SC			HarrisD	Prep1C	12/12/2007 1:53:44 PM	RICH-RC-5017 REVISION 6
SC			BockJ	InPrep2	12/13/2007 9:42:46 AM	RICH-RC-5017 REVISION 6
SC			BockJ	Prep2C	12/14/2007 9:27:25 AM	RICH-RC-5017 REVISION 6
SC			BlackCL	InCnt1	12/14/2007 9:31:05 AM	RICH-RD-0007 REVISION 6
SC			BlackCL	CalcC	12/14/2007 1:04:57 PM	RICH-RD-0007 REVISION 6
AC			HarrisD	12/12/2007 1:53:44		
AC			BockJ	12/13/2007 9:42:46		
AC			BockJ	12/14/2007 9:27:25		
AC			BlackCL	12/14/2007 9:31:05		
AC			BlackCL	12/14/2007 1:04:57		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

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Grp Rec Cnt: 6

ICOCFractions v4.8.30

12/12/2007 2:27:38 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: 12/24/2007 W05262

Sep1 DT/Tm Tech:

Batch: 7317610 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7317610 BNTB,

Prep Tech: ,BostedD

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 KATTW-1-AA J7K080303-1-SAMP 11/08/2007 08:52		3934.50g,in AmtRec: VIAL20,2X4LP #Containers: 3	ITA6831 12/06/07		37.6	100	L2	1749	12/21/07 JCD Scr: Alpha: -1.60E-03 uCi/Sa Beta: 1.99E-03 uCi/Sa	
2 KATTW-1-AC-X J7K080303-1-DUP 11/08/2007 08:52		3954.00g,in AmtRec: VIAL20,2X4LP #Containers: 3	ITA6832 12/06/07		37.2		L4	1750	Scr: Alpha: -1.60E-03 uCi/Sa Beta: 1.99E-03 uCi/Sa	
3 KA0Q0-1-AA J7K090395-1-SAMP 11/09/2007 12:55		3874.70g,in AmtRec: VIAL20,2X4LP #Containers: 3	ITA6833 12/06/07		37.6		L5	175[illegible]	Scr: Alpha: 8.70E-04 uCi/Sa Beta: -3.33E-04 uCi/Sa	
4 KA68G-1-AA-B J7K130000-610-BLK 11/08/2007 08:52		3977.40g,in AmtRec: #Containers: 1	ITA6834 12/06/07		36.6		L4	[illegible]	Scr: Alpha: Beta:	
5 KA68G-1-AC-C J7K130000-610-LCS 11/08/2007 08:52		3883.90g,in AmtRec: #Containers: 1	ISD0795 11/27/07		37.4		L5	1941	Scr: Alpha: Beta:	

Comments:

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

KATTW1AA-SAMP Constituent List:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:

TESTAMERICA RICHLAND

Sample Preparation/Analysis

Balance Id:2113224201

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

Pipet #: _____

AnalyDueDate: 12/24/2007

Sep1 DT/Tm Tech:

Batch: 7317610 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BostedD

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:

```
KA68G1AA-BLK:
  I-129        RDL:1.00E+00    pCi/L    LCL:        UCL:        RPD:
KA68G1AC-LCS:
  I-129        RDL:5           pCi/L    LCL:70      UCL:130     RPD:20
KATTW1AA-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
KA68G1AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
KA68G1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

Approved By _____ Date: _____

TESTAMERICA RICHLAND

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12/24/2007 10:03:11 AM

ICOC Fraction Transfer/Status Report

ByDate: 12/24/2006, 12/29/2007, Batch: '7317610', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7317610						
AC		CalcC	BostedD	12/12/2007 2:37:29		
SC			wagarr	IsBatched	11/14/2007 8:09:22 AM	ICOC_RADCALC v4.8.29
SC			BostedD	InPrep2	12/12/2007 2:37:29 PM	RICHRC5025 REVISION 4
SC			BostedD	Prep2C	12/21/2007 3:56:59 PM	RICHRC5025 REVISION 4
SC			DAWKINSO	InCnt1	12/21/2007 7:11:16 PM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	CalcC	12/21/2007 8:39:09 PM	RICH-RD-0007 REVISION 6
AC			BostedD	12/21/2007 3:56:59		
AC			DAWKINSO	12/21/2007 7:11:16		rEVISION 6
AC			DAWKINSO	12/21/2007 8:39:09		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.30

TESTAMERICA RICHLAND

11/14/2007 8:05:08 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 12/21/2007 WO52162

Batch: 7317616 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 11-30-07 xm
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KANJ9-1-AC J7K070156-1-SAMP 11/06/2007 13:01		AmtRec: 20ML,500ML,2XLP	#Containers: 4			Scr:	Alpha:	Beta:
2 KANJ9-1-AG-X J7K070156-1-DUP 11/06/2007 13:01		AmtRec: 20ML,500ML,2XLP	#Containers: 4			Scr:	Alpha:	Beta:
3 KA68X-1-AA-B J7K130000-616-BLK 11/06/2007 13:01		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
4 KA68X-1-AC-C J7K130000-616-LCS 11/06/2007 13:01		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
5 KA68X-1-AD-BX J7K130000-616-MBLK 11/06/2007 13:01		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 KA68X-1-AE-CM J7K130000-616-MLCS 11/06/2007 13:01		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
7 KA68X-1-AF-BN J7K130000-616-IBLK 11/06/2007 13:01		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

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 ICOC v4.8.

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TESTAMERICA RICHLAND

11/14/2007 8:05:09 AM

Sample Preparation/Analysis

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

Balance Id: 124415
Pipet #:
Sep1 DT/Tm Tech: 11-30-07 Tam
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 12/21/2007

Batch: 7317616 pCi/L
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 KA68X-1-AG-BN								
J7K130000-616-IBLK								
11/06/2007 13:01	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Comments:

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

KANJ91AC-SAMP Constituent List:

KA68X1AA-BLK:

KA68X1AC-LCS:

KA68X1AD-MBLK:

KA68X1AE-MLCS:

KA68X1AF-IBLK:

KA68X1AG-IBLK:

KANJ91AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KA68X1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KA68X1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KA68X1AD-MBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KA68X1AE-MLCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KA68X1AF-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

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11/14/2007 8:05:09 AM

Sample Preparation/Analysis

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

Balance Id:

Pipet #:

AnalyDueDate: 12/21/2007

Sep1 DT/Tm Tech:

Batch: 7317616 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

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

KA68X1AG-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

12/14/2007 4:29:23 PM

ICOC Fraction Transfer/Status Report

ByDate: 12/14/2006, 12/19/2007, Batch: '7317616', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7317616						
AC		**CalcC**	**McDowellD**	11/30/2007 8:22:40		
SC			wagarr	IsBatched	11/14/2007 8:09:22 AM	ICOC_RADCALC v4.8.29
SC			McDowellD	InSep1	11/30/2007 8:22:40 AM	RICH-RC-5007 REVISION 6
SC			McDowellD	Sep1C	11/30/2007 9:28:52 AM	RICH-RC-5007 REVISION 6
SC			BlackCL	InCnt1	11/30/2007 9:39:44 AM	RICH-RD-0001 REVISION 4
SC			ClarkR	CalcC	12/3/2007 8:35:19 AM	RICH-RD-0001 REVISION 4
AC			**McDowellD**	11/30/2007 9:28:52		
AC			**BlackCL**	11/30/2007 9:39:44		
AC			**ClarkR**	12/3/2007 8:35:19		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.30

TESTAMERICA RICHLAND

11/14/2007 8:05:09 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 12/21/2007 W05262

Batch: 7317618 WATER mg/L

PM, Quote: SA , 57671

SEQ Batch, Test: None

Balance Id:

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KANJ9-1-AA J7K070156-1-SAMP 11/06/2007 13:01		AmtRec: 20ML,500ML,2XLP	#Containers: 4			Scr:	Alpha:	Beta:
2 KANJ9-1-AH-S J7K070156-1-MS 11/06/2007 13:01		AmtRec: 20ML,500ML,2XLP	#Containers: 4			Scr:	Alpha:	Beta:
3 KANJ9-1-AJ-X J7K070156-1-DUP 11/06/2007 13:01		AmtRec: 20ML,500ML,2XLP	#Containers: 4			Scr:	Alpha:	Beta:
4 KANJ9-1-AK-S J7K070156-1-MS 11/06/2007 13:01		AmtRec: 20ML,500ML,2XLP	#Containers: 4			Scr:	Alpha:	Beta:
5 KA681-1-AA-B J7K130000-618-BLK 11/06/2007 13:01		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 KA681-1-AC-C J7K130000-618-LCS 11/06/2007 13:01		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

TESTAMERICA RICHLAND

11/14/2007 8:05:09 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 12/21/2007

Batch: 7317618 mg/L
SEQ Batch, Test: None

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

Comments:

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

KANJ91AA-SAMP Constituent List:

KANJ91AH-MS Constituent List:

KANJ91AK-MS:

KA6811AA-BLK:

KA6811AC-LCS:

KANJ91AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KANJ91AH-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KANJ91AK-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KA6811AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KA6811AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____