

Analytical Data Package Prepared For

Fluor Hanford

Radiochemical Analysis By

TAL Richland TARL

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

Data Package Contains 110 Pages

Report Nbr: 38072

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05265	I08-008	B1R357	J7K080383-1	KAVDV1AA	9KAVDV10	7324670
		B1R351	J7K080383-2	KAVDW1AA	9KAVDW10	7324670
	W08-011	B1R651	J7K090108-1	KAVVW1A	9KAVVW10	7324670
		B1R659	J7K090108-2	KAVWX1AA	9KAVWX10	7324661
		B1R659	J7K090108-2	KAVWX1AD	9KAVWX10	7324668
		B1R659	J7K090108-2	KAVWX3AC	9KAVWX30	8014157
		B1R655	J7K090108-3	KAVW11AA	9KAVW110	7324661
		B1R655	J7K090108-3	KAVW11AD	9KAVW110	7324668
		B1R655	J7K090108-3	KAVW11AE	9KAVW110	7324670
		B1R655	J7K090108-3	KAVW13AC	9KAVW130	8014157
		B1R647	J7K090110-1	KAVW41AA	9KAVW410	7324670
		B1R665	J7K090110-2	KAVW61AA	9KAVW610	7324661
		B1R665	J7K090110-2	KAVW62AC	9KAVW620	7355417
		B1R665	J7K090110-2	KAVW64AC	9KAVW640	8014157
		B1R639	J7K090110-3	KAVW71AA	9KAVW710	7324661

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JAN 23 2008

Report Nbr: 38072

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05265	W08-011	B1R639	J7K090110-3	KAVW71AD	9KAVW710	7324668
		B1R639	J7K090110-3	KAVW73AC	9KAVW730	8014157
		B1R675	J7K090110-4	KAVW81AA	9KAVW810	7324661
		B1R675	J7K090110-4	KAVW81AD	9KAVW810	7324668
		B1R675	J7K090110-4	KAVW83AC	9KAVW830	8014157
		B1R643	J7K090110-5	KAVW91AA	9KAVW910	7324661
		B1R643	J7K090110-5	KAVW91AD	9KAVW910	7324668
		B1R643	J7K090110-5	KAVW91AE	9KAVW910	7324670
		B1R643	J7K090110-5	KAVW93AC	9KAVW930	8014157
		B1R670	J7K090110-6	KAVXD1AA	9KAVXD10	7324661
		B1R670	J7K090110-6	KAVXD1AD	9KAVXD10	7324668
		B1R670	J7K090110-6	KAVXD1AE	9KAVXD10	7324670
		B1R670	J7K090110-6	KAVXD3AC	9KAVXD30	8014157
		B1R669	J7K090110-7	KAVXE1AA	9KAVXE10	7324661
		B1R669	J7K090110-7	KAVXE1AD	9KAVXE10	7324668
		B1R669	J7K090110-7	KAVXE1AE	9KAVXE10	7324670
		B1R669	J7K090110-7	KAVXE3AC	9KAVXE30	8014157
		B1R631	J7K090110-8	KAVXG1AA	9KAVXG10	7324661
		B1R631	J7K090110-8	KAVXG1AD	9KAVXG10	7324668
		B1R631	J7K090110-8	KAVXG1AE	9KAVXG10	7324670
		B1R631	J7K090110-8	KAVXG1AG	9KAVXG10	7324671
		B1R631	J7K090110-8	KAVXG2AF	9KAVXG20	8002374
		B1R631	J7K090110-8	KAVXG3AC	9KAVXG30	8014157
	G08-011	B1R142	J7K120212-1	KA3354AA	9KA33540	8014157
	I08-005	B1R179	J7K120214-1	KA34F1AA	9KA34F10	7324661
		B1R179	J7K120214-1	KA34F4AC	9KA34F40	8014157

Comments:

Report Nbr: 38072

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05265	I08-005	B1R177	J7K120214-2	KA34M1AA	9KA34M10	7324661
		B1R177	J7K120214-2	KA34M3AC	9KA34M30	8014157
	W08-011	B1R595	J7K130305-1	KA6171AA	9KA61710	7324661
		B1R595	J7K130305-1	KA6171AD	9KA61710	7324668
		B1R595	J7K130305-1	KA6173AC	9KA61730	8014157
		B1R591	J7K130305-2	KA62C1AA	9KA62C10	7324661
		B1R591	J7K130305-2	KA62C1AD	9KA62C10	7324668
		B1R591	J7K130305-2	KA62C3AC	9KA62C30	8014157
		B1R579	J7K130305-3	KA62F1AA	9KA62F10	7324661
		B1R579	J7K130305-3	KA62F1AD	9KA62F10	7324668
		B1R579	J7K130305-3	KA62F1AE	9KA62F10	7324646
		B1R579	J7K130305-3	KA62F3AC	9KA62F30	8014157
		B1R580	J7K130305-4	KA62K1AA	9KA62K10	7324661
		B1R580	J7K130305-4	KA62K1AD	9KA62K10	7324668
		B1R580	J7K130305-4	KA62K1AE	9KA62K10	7324646
		B1R580	J7K130305-4	KA62K3AC	9KA62K30	8014157

Comments:

Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

January 18, 2008

Attention: Steve Trent

SAF Number : I08-008, W08-011, G08-011, I08-005
Date SDG Closed : November 13, 2007
Number of Samples : Twenty (20)
Sample Type : Water
SDG Number : W05265
Data Deliverable : 45-Day / Summary

CASE NARRATIVE

I. Introduction

Between November 8, 2007 and November 13, 2007 twenty water samples were received at TestAmerica Richland (TALR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Fluor Hanford specific IDs:

<u>PGW ID#</u>	<u>TALR ID#</u>	<u>DATE OF RECEIPT</u>	<u>MATRIX</u>
B1R357	KAVDV	11/08/07	WATER
B1R351	KAVDW	11/08/07	WATER
B1R651	KAVWW	11/08/07	WATER
B1R659	KAVWX	11/08/07	WATER
B1R655	KAVW1	11/08/07	WATER
B1R647	KAVW4	11/08/07	WATER
B1R665	KAVW6	11/08/07	WATER
B1R639	KAVW7	11/08/07	WATER
B1R675	KAVW8	11/08/07	WATER
B1R643	KAVW9	11/08/07	WATER
B1R670	KAVXD	11/08/07	WATER
B1R669	KAVXE	11/08/07	WATER
B1R631	KAVXG	11/08/07	WATER

Fluor Hanford
January 18, 2008

B1R142	KA335	11/12/07	WATER
B1R179	KA34F	11/12/07	WATER
B1R177	KA34M	11/12/07	WATER
B1R595	KA617	11/13/07	WATER
B1R591	KA62C	11/13/07	WATER
B1R579	KA62F	11/13/07	WATER
B1R580	KA62K	11/13/07	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

Technetium-99 by method RICH-RC-5078

Nickel-63 by method RICH-RC-5069

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 B1R179, B1R177, B1R595, B1R591, B1R579, B1R580, B1R655, B1R665, B1R639, B1R675, B1R643, B1R659, B1R670, B1R669, B1R631 and B1R595 DUP were analyzed with reduced aliquots based on weight screens. Sample B1R591 did not meet the CRDL. It was counted the maximum of 200 minutes. Sample B1R595 and B1R595 DUP did not meet the CRDL but the results exceeded the achieved MDA. Except as noted, the LCS, batch blank, samples and sample duplicate (B1R595) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:

The achieved MDAs for samples B1R142, B1R142 DUP, B1R595, B1R591, B1R579, B1R580, B1R643 and B1R631 are greater than the CRDL due to sample matrix effects; reduced volumes were analyzed based on an elevated screen results. The detected activities exceed the achieved MDAs. The LCS, batch blank, samples and sample duplicate (B1R142) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006

The LCS, batch blank, samples and sample duplicate (B1R631) results are within contractual requirements.

Gamma Spectroscopy

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

The LCS, batch blank, samples and sample duplicate (B1R639) results are within contractual requirements.

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

The LCS, batch blank, samples and sample duplicate (B1R357) results are within contractual requirements.

Liquid Scintillation Counting

Technetium-99 by method RICH-RC-5078:

The LCS had a low recovery of 70%. The matrix spike (B1R580) had a recovery of 90%. The data was accepted based on that result. Except as noted, the batch blank, samples, sample duplicate (B1R579), and sample matrix spike (B1R580) results are within contractual requirements.

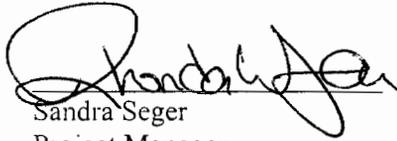
Nickel-63 by method RICH-RC-5069:

The TSIE was out on the instrument blank. The Ni63 carrier had not been added. A new instrument blank was made that included the Ni63 carrier. All the samples in batch 7324672 were recounted and had acceptable results. The recount batch number is 8002374. Except as noted, the LCS, batch blank, sample and sample duplicate (B1R631) results are within contractual requirements.

Fluor Hanford
January 18, 2008

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, $R = \text{constants} * f(x,y,z,...)$. 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/\sqrt{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) <i>u_c - Combined Uncertainty.</i>	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, <i>u_c the combined uncertainty</i> . 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%. $Lc = (1.645 * \sqrt{2 * (BkgndCnt / BkgndCntMin) / SCntMin}) * (ConvFct / (Eff * Yld * Abn * Vol) * IngrFct)$. 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%. $MDC = (4.65 * \sqrt{(BkgndCnt / BkgndCntMin) / SCntMin} + 2.71 / SCntMin) * (ConvFct / (Eff * Yld * Abn * Vol) * IngrFct)$. 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.

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TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 38072 File Name: h:\Reportdb\edd\Fead\Rad\W05265.Edd, h:\Reportdb\edd\Fead\Rad\38072.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:	Act			
9KA33540	B1R142		MW6-SBB-A1	G08-011	W05265									
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8014157	BETA	12587-47-2	1.49E+04	pCi/L	5.8E+01	1.9E+03	U	4.16E+00	100.0	9310_ALPHABETA	9.91E-02	L	01/15/2008 08:03	I
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:	Act			
9KA34F10	B1R179		MW6-SBB-A1	I08-005	W05265									
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7324661	ALPHA	12587-46-1	1.87E+00	pCi/L	1.5E+00	1.6E+00	U	1.96E+00	100.0	9310_ALPHABETA	1.724E-01	L	12/24/2007 18:35	I
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:	Act			
9KA34F40	B1R179		MW6-SBB-A1	I08-005	W05265									
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8014157	BETA	12587-47-2	6.38E+00	pCi/L	1.7E+00	2.0E+00	U	2.86E+00	100.0	9310_ALPHABETA	2.003E-01	L	01/14/2008 19:33	I
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:	Act			
9KA34M10	B1R177		MW6-SBB-A1	I08-005	W05265									
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7324661	ALPHA	12587-46-1	1.21E+00	pCi/L	5.9E-01	6.5E-01	U	6.98E-01	100.0	9310_ALPHABETA	1.924E-01	L	12/25/2007 11:01	I
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:	Act			
9KA34M30	B1R177		MW6-SBB-A1	I08-005	W05265									
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8014157	BETA	12587-47-2	6.15E+01	pCi/L	3.8E+00	8.6E+00	U	2.88E+00	100.0	9310_ALPHABETA	2.001E-01	L	01/14/2008 19:33	I
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:	Act			
9KA61710	B1R595		MW6-SBB-A1	W08-011	W05265									
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7324661	ALPHA	12587-46-1	1.44E+02	pCi/L	1.2E+01	3.6E+01	U	3.94E+00	100.0	9310_ALPHABETA	4.46E-02	L	12/24/2007 16:13	I
7324668	BE-7	13966-02-4	6.53E+00	pCi/L	2.4E+01	2.4E+01	U	4.38E+01	2.00E+00	GAMMALL_GS	2.00E+00	L	12/29/2007 14:49	I
7324668	CO-60	10198-40-0	5.74E+01	pCi/L	1.1E+01	1.1E+01	U	3.10E+00	2.00E+00	GAMMALL_GS	2.00E+00	L	12/29/2007 14:49	I
7324668	CS-134	13967-70-9	7.04E-01	pCi/L	2.4E+00	2.4E+00	U	4.29E+00	2.00E+00	GAMMALL_GS	2.00E+00	L	12/29/2007 14:49	I
7324668	CS-137	10045-97-3	7.77E-01	pCi/L	1.9E+00	1.9E+00	U	3.54E+00	2.00E+00	GAMMALL_GS	2.00E+00	L	12/29/2007 14:49	I
7324668	EU-152	14683-23-9	-3.89E+00	pCi/L	4.1E+00	4.1E+00	U	6.52E+00	2.00E+00	GAMMALL_GS	2.00E+00	L	12/29/2007 14:49	I

TAL Richland
 rptFeedRadSummaryEdd v3.48
 U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
 J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
 B Qual - Analyte was found in the associated laboratory blank above the MDC.

11/17/2008 5:36:44 PM

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 38072 File Name: h:\Reportdb\edd\Fead\VRad\W05265.Edd, h:\Reportdb\edd\Fead\VRad\38072.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:
7324668	EU-154	15585-10-1	-2.28E+00	pCi/L	5.2E+00	5.2E+00	U	8.92E+00	GAMMALL_GS	12/29/2007 14:49
7324668	EU-155	14391-16-3	9.53E-01	pCi/L	2.9E+00	2.9E+00	U	5.24E+00	GAMMALL_GS	12/29/2007 14:49
7324668	K-40	13966-00-2	6.43E-01	pCi/L	4.1E+01	4.1E+01	U	2.93E+01	GAMMALL_GS	12/29/2007 14:49
7324668	RU-106	13967-48-1	-4.74E+00	pCi/L	1.8E+01	1.8E+01	U	3.13E+01	GAMMALL_GS	12/29/2007 14:49
7324668	SB-125	14234-35-6	-8.16E-01	pCi/L	4.3E+00	4.3E+00	U	7.48E+00	GAMMALL_GS	12/29/2007 14:49

Lab Sample Id:	Client Id:	Test User	Contract Nbr	Result	Unit	CntU 2S	Sdg Nbr:	QC Type:	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8014157	BETA	12587-47-2	3.48E+03	pCi/L	3.6E+01	4.5E+02	W05265	4.5E+02	6.42E+00	100.0	9310_ALPHABETA	5.92E-02	L	01/15/2008 08:03	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	Result	Unit	CntU 2S	Sdg Nbr:	QC Type:	Moisture/Solids%:	Distilled Volume	Sample On Date:	Collection Date:
9KA62C10	B1R591	MW6-SBB-A1	W08-011	W08-011	W08-011	W05265	W05265	W05265	11/13/2007 09:31	11/13/2007 12:13		
7324668	BE-7	13966-02-4	-8.34E+00	pCi/L	2.0E+01	2.0E+01	U	3.53E+01	GAMMALL_GS	2.00E+00	L	12/31/2007 07:01
7324668	CO-60	10198-40-0	5.82E+00	pCi/L	2.6E+00	2.6E+00	U	5.56E+00	GAMMALL_GS	2.00E+00	L	12/31/2007 07:01
7324668	CS-134	13967-70-9	2.02E-01	pCi/L	1.7E+00	1.7E+00	U	3.08E+00	GAMMALL_GS	2.00E+00	L	12/31/2007 07:01
7324668	CS-137	10045-97-3	1.47E-01	pCi/L	1.6E+00	1.6E+00	U	2.91E+00	GAMMALL_GS	2.00E+00	L	12/31/2007 07:01
7324668	EU-152	14683-23-9	-1.98E+00	pCi/L	3.9E+00	3.9E+00	U	6.60E+00	GAMMALL_GS	2.00E+00	L	12/31/2007 07:01
7324668	EU-154	15585-10-1	5.43E-01	pCi/L	4.6E+00	4.6E+00	U	8.84E+00	GAMMALL_GS	2.00E+00	L	12/31/2007 07:01
7324668	EU-155	14391-16-3	1.41E+00	pCi/L	3.5E+00	3.5E+00	U	6.32E+00	GAMMALL_GS	2.00E+00	L	12/31/2007 07:01
7324668	K-40	13966-00-2	-2.88E+01	pCi/L	4.2E+01	4.2E+01	U	8.69E+01	GAMMALL_GS	2.00E+00	L	12/31/2007 07:01
7324668	RU-106	13967-48-1	-8.76E+00	pCi/L	1.5E+01	1.5E+01	U	2.42E+01	GAMMALL_GS	2.00E+00	L	12/31/2007 07:01
7324668	SB-125	14234-35-6	-7.83E-01	pCi/L	4.0E+00	4.0E+00	U	6.90E+00	GAMMALL_GS	2.00E+00	L	12/31/2007 07:01

Lab Sample Id:	Client Id:	Test User	Contract Nbr	Result	Unit	CntU 2S	Sdg Nbr:	QC Type:	Moisture/Solids%:	Distilled Volume	Sample On Date:	Collection Date:
9KA62C30	B1R591	MW6-SBB-A1	W08-011	W08-011	W08-011	W05265	W05265	W05265	11/13/2007 12:13	11/13/2007 12:13		
8014157	BETA	12587-47-2	3.81E+02	pCi/L	1.2E+01	5.0E+01	5.0E+01	6.09E+00	9310_ALPHABETA	6.09E-02	L	01/15/2008 08:03

Lab Sample Id:	Client Id:	Test User	Contract Nbr	Result	Unit	Sdg Nbr:	QC Type:	Moisture/Solids%:	Distilled Volume	Sample On Date:	Collection Date:
9KA62F10	B1R579	MW6-SBB-A1	W08-011	W08-011	W05265	W05265	W05265	W05265	11/13/2007 10:54	11/13/2007 10:54	

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: 38072 File Name: h:\Reportdb\edd\FeadIVRad\W05265.Edd, h:\Reportdb\edd\FeadIVRad\38072.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7324661	ALPHA	12587-46-1	9.00E+01	pCi/L	8.5E+00	2.3E+01	U	2.83E+00	100.0	9310_ALPHABETA	6.08E-02	L	12/24/2007 16:13	I
7324668	BE-7	13966-02-4	-1.68E+01	pCi/L	2.4E+01	2.4E+01	U	3.85E+01		GAMMALL_GS	1.9999E+00	L	12/31/2007 07:03	I
7324668	CO-60	10198-40-0	2.16E+01	pCi/L	5.4E+00	5.4E+00	U	3.38E+00		GAMMALL_GS	1.9999E+00	L	12/31/2007 07:03	I
7324668	CS-134	13967-70-9	2.09E+00	pCi/L	2.1E+00	2.1E+00	U	4.04E+00		GAMMALL_GS	1.9999E+00	L	12/31/2007 07:03	I
7324668	CS-137	10045-97-3	-5.73E-01	pCi/L	1.7E+00	1.7E+00	U	2.89E+00		GAMMALL_GS	1.9999E+00	L	12/31/2007 07:03	I
7324668	EU-152	14683-23-9	2.25E+00	pCi/L	4.6E+00	4.6E+00	U	8.29E+00		GAMMALL_GS	1.9999E+00	L	12/31/2007 07:03	I
7324668	EU-154	15585-10-1	-8.85E-01	pCi/L	4.2E+00	4.2E+00	U	7.78E+00		GAMMALL_GS	1.9999E+00	L	12/31/2007 07:03	I
7324668	EU-155	14391-16-3	-5.14E-01	pCi/L	3.6E+00	3.6E+00	U	6.07E+00		GAMMALL_GS	1.9999E+00	L	12/31/2007 07:03	I
7324668	K-40	13966-00-2	-1.65E+01	pCi/L	3.7E+01	3.7E+01	U	7.36E+01		GAMMALL_GS	1.9999E+00	L	12/31/2007 07:03	I
7324668	RU-106	13967-48-1	-1.99E+00	pCi/L	1.6E+01	1.6E+01	U	2.83E+01		GAMMALL_GS	1.9999E+00	L	12/31/2007 07:03	I
7324668	SB-125	14234-35-6	-3.34E+00	pCi/L	4.3E+00	4.3E+00	U	7.12E+00		GAMMALL_GS	1.9999E+00	L	12/31/2007 07:03	I
7324646	TC-99	14133-76-7	7.07E+03	pCi/L	4.6E+01	4.2E+02	U	1.02E+01	100.0	TC99_SEP_LSC	1.2503E-01	L	12/20/2007 09:02	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:			
9KA62F30	B1R579		MW6-SBB-A1	W08-011	W05265					11/13/2007 10:54			
8014157	BETA	12587-47-2	1.97E+03	pCi/L	2.7E+01	2.5E+02	6.31E+00	100.0	9310_ALPHABETA	6.13E-02	L	01/15/2008 08:03	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%:	Distilled Volume	Sample On Date:	Collection Date:			
9KA62K10	B1R580		MW6-SBB-A1	W08-011	W05265					11/13/2007 10:54			
7324661	ALPHA	12587-46-1	1.01E+02	pCi/L	8.8E+00	2.5E+01	2.28E+00	100.0	9310_ALPHABETA	5.68E-02	L	12/24/2007 16:13	I
7324668	BE-7	13966-02-4	8.36E+00	pCi/L	2.2E+01	2.2E+01	4.03E+01		GAMMALL_GS	2.0001E+00	L	12/31/2007 07:03	I
7324668	CO-60	10198-40-0	2.23E+01	pCi/L	5.5E+00	5.5E+00	3.33E+00		GAMMALL_GS	2.0001E+00	L	12/31/2007 07:03	I
7324668	CS-134	13967-70-9	2.93E-01	pCi/L	1.7E+00	1.7E+00	3.08E+00		GAMMALL_GS	2.0001E+00	L	12/31/2007 07:03	I
7324668	CS-137	10045-97-3	-7.80E-01	pCi/L	1.8E+00	1.8E+00	3.14E+00		GAMMALL_GS	2.0001E+00	L	12/31/2007 07:03	I
7324668	EU-152	14683-23-9	-4.28E-01	pCi/L	3.9E+00	3.9E+00	6.85E+00		GAMMALL_GS	2.0001E+00	L	12/31/2007 07:03	I
7324668	EU-154	15585-10-1	6.67E-01	pCi/L	4.8E+00	4.8E+00	9.28E+00		GAMMALL_GS	2.0001E+00	L	12/31/2007 07:03	I
7324668	EU-155	14391-16-3	2.16E+00	pCi/L	3.9E+00	3.9E+00	6.98E+00		GAMMALL_GS	2.0001E+00	L	12/31/2007 07:03	I
7324668	K-40	13966-00-2	-6.07E+00	pCi/L	3.9E+01	3.9E+01	7.94E+01		GAMMALL_GS	2.0001E+00	L	12/31/2007 07:03	I
7324668	RU-106	13967-48-1	1.00E+01	pCi/L	1.5E+01	1.5E+01	2.92E+01		GAMMALL_GS	2.0001E+00	L	12/31/2007 07:03	I
7324668	SB-125	14234-35-6	8.64E-01	pCi/L	4.1E+00	4.1E+00	7.48E+00		GAMMALL_GS	2.0001E+00	L	12/31/2007 07:03	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.

1/17/2008 5:36:44 PM

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 38072 File Name: h:\Reportdb\edd\Fead\VRad\W05265.Edd, h:\Reportdb\edd\Fead\VRad\38072.Edd

7324646	TC-99	14133-76-7	7.02E+03	pCi/L	4.6E+01	4.2E+02	1.02E+01	100.0	TC99_SEP_LSC	1.2502E-01	L	12/20/2007	09:02	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:				
9KA62K30	B1R580	MW6-SBB-A1	W08-011	W05265					11/13/2007 10:54					

Batch	8014157	BETA	CAS#	12587-47-2	2.10E+03	pCi/L	2.9E+01	3.7E+02	6.74E+00	100.0	9310_ALPHABETA	5.84E-02	L	01/15/2008	08:03	I
Batch Analyte	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act					

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%:	Distilled Volume	Sample On Date:	Collection Date:						
9KAVDV10	B1R357	MW6-SBB-A1	108-008	W05265					11/08/2007 10:22							

Batch	7324670	I-129L	CAS#	15046-84-1	3.30E-02	pCi/L	1.5E-01	1.5E-01	2.88E-01	99.5	1129LL_SEP_LEPS	3.9001E+00	L	12/27/2007	16:01	I
Batch Analyte	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act					

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%:	Distilled Volume	Sample On Date:	Collection Date:						
9KAVDW10	B1R351	MW6-SBB-A1	108-008	W05265					11/08/2007 09:27							

Batch	7324670	I-129L	CAS#	15046-84-1	5.45E-02	pCi/L	1.5E-01	1.5E-01	2.73E-01	97.0	1129LL_SEP_LEPS	3.892E+00	L	12/27/2007	16:02	I
Batch Analyte	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act					

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%:	Distilled Volume	Sample On Date:	Collection Date:						
9KAVW110	B1R655	MW6-SBB-A1	W08-011	W05265					11/08/2007 11:07							

Batch	7324661	ALPHA	CAS#	12587-46-1	3.66E+00	pCi/L	1.6E+00	1.8E+00	1.66E+00	100.0	9310_ALPHABETA	1.428E-01	L	12/24/2007	13:22	I
Batch Analyte	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act					
7324668	BE-7	13966-02-4	1.25E+01	pCi/L	2.8E+01	2.8E+01	U	5.04E+01	GAMMALL_GS	1.9999E+00	L	12/29/2007	14:42	I		
7324668	CO-60	10198-40-0	-3.20E+00	pCi/L	2.4E+00	2.4E+00	U	3.59E+00	GAMMALL_GS	1.9999E+00	L	12/29/2007	14:42	I		
7324668	CS-134	13967-70-9	1.87E-01	pCi/L	2.2E+00	2.2E+00	U	3.92E+00	GAMMALL_GS	1.9999E+00	L	12/29/2007	14:42	I		
7324668	CS-137	10045-97-3	9.99E-01	pCi/L	2.1E+00	2.1E+00	U	3.88E+00	GAMMALL_GS	1.9999E+00	L	12/29/2007	14:42	I		
7324668	EU-152	14683-23-9	-2.29E-01	pCi/L	5.1E+00	5.1E+00	U	8.87E+00	GAMMALL_GS	1.9999E+00	L	12/29/2007	14:42	I		
7324668	EU-154	15585-10-1	-2.00E+00	pCi/L	5.2E+00	5.2E+00	U	9.19E+00	GAMMALL_GS	1.9999E+00	L	12/29/2007	14:42	I		
7324668	EU-155	14391-16-3	3.37E+00	pCi/L	4.1E+00	4.1E+00	U	7.25E+00	GAMMALL_GS	1.9999E+00	L	12/29/2007	14:42	I		
7324668	K-40	13966-00-2	-2.69E+01	pCi/L	4.9E+01	4.9E+01	U	1.00E+02	GAMMALL_GS	1.9999E+00	L	12/29/2007	14:42	I		
7324668	RU-106	13967-48-1	1.23E+01	pCi/L	2.0E+01	2.0E+01	U	3.68E+01	GAMMALL_GS	1.9999E+00	L	12/29/2007	14:42	I		
7324668	SB-125	14234-35-6	-2.30E-01	pCi/L	5.5E+00	5.5E+00	U	9.55E+00	GAMMALL_GS	1.9999E+00	L	12/29/2007	14:42	I		
7324670	I-129L	15046-84-1	1.91E-01	pCi/L	1.5E-01	1.5E-01	U	3.07E-01	1129LL_SEP_LEPS	3.9419E+00	L	12/27/2007	17:46	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:						
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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

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 38072 File Name: h:\Reportdb\edd\Fead\VRad\W05265.Edd, h:\Reportdb\edd\Fead\VRad\38072.Edd

11/08/2007 11:07

9KAVW130 B1R655 MW6-SBB-A1 W08-011 W05265

Batch	Analyte	CAS#	Result	Unit	TotU 2S	QC	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8014157	BETA	12587-47-2	1.27E+02	pCi/L	5.5E+00	1.7E+01	2.96E+00	100.0	9310_ALPHABETA	2.00E-01	L	01/14/2008 19:33	I

11/08/2007 10:21

9KAVW410 B1R647 MW6-SBB-A1 W08-011 W05265

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%:	Distilled Volume	Sample On Date:	Collection Date:			
7324670	I-129L	15046-84-1	7.93E-02	pCi/L	1.2E-01	1.2E-01	2.47E-01	99.2	1129LL_SEP_LEPS	3.9113E+00	L	12/27/2007 17:46	I

11/08/2007 09:27

9KAVW610 B1R665 MW6-SBB-A1 W08-011 W05265

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%:	Distilled Volume	Sample On Date:	Collection Date:			
7324661	ALPHA	12587-46-1	7.37E-01	pCi/L	1.2E+00	1.2E+00	2.40E+00	100.0	9310_ALPHABETA	1.613E-01	L	12/24/2007 18:35	I

11/08/2007 09:27

9KAVW620 B1R665 MW6-SBB-A1 W08-011 W05265

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%:	Distilled Volume	Sample On Date:	Collection Date:			
7355417	BETA	12587-47-2	3.28E+01	pCi/L	3.2E+00	5.7E+00	3.18E+00	100.0	9310_ALPHABETA	1.724E-01	L	12/27/2007 17:58	I

11/08/2007 09:27

9KAVW640 B1R665 MW6-SBB-A1 W08-011 W05265

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%:	Distilled Volume	Sample On Date:	Collection Date:			
8014157	BETA	12587-47-2	3.35E+01	pCi/L	3.2E+00	5.6E+00	3.15E+00	100.0	9310_ALPHABETA	1.723E-01	L	01/14/2008 19:33	I

11/08/2007 12:42

9KAVW710 B1R639 MW6-SBB-A1 W08-011 W05265

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%:	Distilled Volume	Sample On Date:	Collection Date:			
7324661	ALPHA	12587-46-1	1.64E+00	pCi/L	1.4E+00	1.4E+00	2.04E+00	100.0	9310_ALPHABETA	1.784E-01	L	12/24/2007 18:35	I
7324668	BE-7	13966-02-4	1.39E+00	pCi/L	2.0E+01	2.0E+01	3.58E+01		GAMMALL_GS	1.9999E+00	L	12/29/2007 14:43	I
7324668	CO-60	10198-40-0	-7.12E-01	pCi/L	1.8E+00	1.8E+00	3.06E+00		GAMMALL_GS	1.9999E+00	L	12/29/2007 14:43	I
7324668	CS-134	13967-70-9	6.77E-01	pCi/L	1.7E+00	1.7E+00	3.29E+00		GAMMALL_GS	1.9999E+00	L	12/29/2007 14:43	I
7324668	CS-137	10045-97-3	-1.46E+00	pCi/L	1.6E+00	1.6E+00	2.59E+00		GAMMALL_GS	1.9999E+00	L	12/29/2007 14:43	I
7324668	EU-152	14683-23-9	3.60E+00	pCi/L	3.8E+00	3.8E+00	7.30E+00		GAMMALL_GS	1.9999E+00	L	12/29/2007 14:43	I
7324668	EU-154	15585-10-1	-5.10E-01	pCi/L	4.5E+00	4.5E+00	8.25E+00		GAMMALL_GS	1.9999E+00	L	12/29/2007 14:43	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.

1/17/2008 5:36:44 PM

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 38072 File Name: h:\Reportdb\edd\FeadIVRad\W05265.Edd, h:\Reportdb\edd\FeadIVRad\38072.Edd

7324668	EU-155	14391-16-3	5.32E-01	pCi/L	3.5E+00	3.5E+00	U	6.30E+00	GAMMALL_GS	1.9999E+00	L	12/29/2007	14:43	I
7324668	K-40	13966-00-2	-3.45E+01	pCi/L	4.1E+01	4.1E+01	U	8.55E+01	GAMMALL_GS	1.9999E+00	L	12/29/2007	14:43	I
7324668	RU-106	13967-48-1	-1.02E+01	pCi/L	1.5E+01	1.5E+01	U	2.37E+01	GAMMALL_GS	1.9999E+00	L	12/29/2007	14:43	I
7324668	SB-125	14234-35-6	-2.57E+00	pCi/L	4.1E+00	4.1E+00	U	6.77E+00	GAMMALL_GS	1.9999E+00	L	12/29/2007	14:43	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:			
9KAVW730 B1R639			MW6-SBB-A1	W08-011	W05265					11/08/2007 12:42			
Batch Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8014157 BETA	12587-47-2	3.38E+01	pCi/L	2.9E+00	5.9E+00	U	2.76E+00	100.0	9310_ALPHABETA	2.001E-01	L	01/14/2008 19:33	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:			
9KAVW810 B1R675			MW6-SBB-A1	W08-011	W05265					11/08/2007 10:22			
Batch Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7324661 ALPHA	12587-46-1	2.00E+00	pCi/L	1.2E+00	1.3E+00	U	1.73E+00	100.0	9310_ALPHABETA	1.515E-01	L	12/24/2007 13:22	I
7324668 BE-7	13966-02-4	1.46E+01	pCi/L	2.6E+01	2.6E+01	U	4.66E+01		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:45	I
7324668 CO-60	10198-40-0	1.30E+00	pCi/L	1.7E+00	1.7E+00	U	3.47E+00		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:45	I
7324668 CS-134	13967-70-9	-8.28E-01	pCi/L	1.8E+00	1.8E+00	U	3.03E+00		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:45	I
7324668 CS-137	10045-97-3	-1.02E+00	pCi/L	1.8E+00	1.8E+00	U	3.05E+00		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:45	I
7324668 EU-152	14683-23-9	3.07E-01	pCi/L	4.3E+00	4.3E+00	U	7.61E+00		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:45	I
7324668 EU-154	15585-10-1	3.85E+00	pCi/L	4.9E+00	4.9E+00	U	9.90E+00		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:45	I
7324668 EU-155	14391-16-3	2.32E+00	pCi/L	3.0E+00	3.0E+00	U	5.42E+00		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:45	I
7324668 K-40	13966-00-2	-8.40E+01	pCi/L	3.9E+01	3.9E+01	U	7.45E+01		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:45	I
7324668 RU-106	13967-48-1	-6.63E+00	pCi/L	1.6E+01	1.6E+01	U	2.79E+01		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:45	I
7324668 SB-125	14234-35-6	2.66E-01	pCi/L	4.3E+00	4.3E+00	U	7.66E+00		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:45	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:			
9KAVW830 B1R675			MW6-SBB-A1	W08-011	W05265					11/08/2007 10:22			
Batch Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8014157 BETA	12587-47-2	1.81E+01	pCi/L	2.7E+00	3.6E+00	U	3.57E+00	100.0	9310_ALPHABETA	1.667E-01	L	01/14/2008 19:33	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:			
9KAVW910 B1R643			MW6-SBB-A1	W08-011	W05265					11/08/2007 11:52			
Batch Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7324661 ALPHA	12587-46-1	1.71E+00	pCi/L	1.3E+00	1.3E+00	U	1.92E+00	100.0	9310_ALPHABETA	1.136E-01	L	12/24/2007 13:22	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: 38072 File Name: h:\Report\bld\FeaIVRad\W05265.Edd, h:\Report\bld\FeaIVRad\38072.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:
7324668	BE-7	13966-02-4	6.43E+00	pCi/L	2.1E+01	2.1E+01	U	3.86E+01	GAMMALL_GS	12/29/2007 14:45
7324668	CO-60	10198-40-0	1.16E+00	pCi/L	2.2E+00	2.2E+00	U	4.23E+00	GAMMALL_GS	12/29/2007 14:45
7324668	CS-134	13967-70-9	-8.34E-01	pCi/L	1.9E+00	1.9E+00	U	3.27E+00	GAMMALL_GS	12/29/2007 14:45
7324668	CS-137	10045-97-3	3.31E-01	pCi/L	1.5E+00	1.5E+00	U	2.75E+00	GAMMALL_GS	12/29/2007 14:45
7324668	EU-152	14683-23-9	-2.17E+00	pCi/L	4.2E+00	4.2E+00	U	7.18E+00	GAMMALL_GS	12/29/2007 14:45
7324668	EU-154	15585-10-1	1.69E+00	pCi/L	4.5E+00	4.5E+00	U	9.00E+00	GAMMALL_GS	12/29/2007 14:45
7324668	EU-155	14391-16-3	3.47E+00	pCi/L	3.4E+00	3.4E+00	U	6.10E+00	GAMMALL_GS	12/29/2007 14:45
7324668	K-40	13966-00-2	4.16E+00	pCi/L	3.8E+01	3.8E+01	U	2.70E+01	GAMMALL_GS	12/29/2007 14:45
7324668	RU-106	13967-48-1	-5.83E+00	pCi/L	1.7E+01	1.7E+01	U	2.91E+01	GAMMALL_GS	12/29/2007 14:45
7324668	SB-125	14234-35-6	-3.23E+00	pCi/L	4.1E+00	4.1E+00	U	6.72E+00	GAMMALL_GS	12/29/2007 14:45
7324670	I-129L	15046-84-1	8.95E+00	pCi/L	1.1E+00	1.1E+00	U	3.96E-01	1129LL_SEP_LEPS	12/27/2007 19:29

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%:	Distilled Volume	Sample On Date:	Collection Date:
9KAVW930	B1R643		MW6-SBB-A1	W08-011	W05265					11/08/2007 11:52
Batch	Analyste	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	Method	Alq Size
8014157	BETA	12587-47-2	6.94E+02	pCi/L	1.6E+01	9.1E+01	U	4.64E+00	9310_ALPHABETA	1.264E-01

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%:	Distilled Volume	Sample On Date:	Collection Date:
9KAVWW10	B1R651		MW6-SBB-A1	W08-011	W05265					11/08/2007 09:35
Batch	Analyste	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	Method	Alq Size
7324670	I-129L	15046-84-1	1.51E-01	pCi/L	1.5E-01	1.5E-01	U	2.90E-01	1129LL_SEP_LEPS	3.8976E+00

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%:	Distilled Volume	Sample On Date:	Collection Date:
9KAVWX10	B1R659		MW6-SBB-A1	W08-011	W05265					11/08/2007 12:33
Batch	Analyste	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	Method	Alq Size
7324661	ALPHA	12587-46-1	1.05E+00	pCi/L	9.7E-01	1.0E+00	U	1.65E+00	9310_ALPHABETA	1.514E-01
7324668	BE-7	13966-02-4	-2.25E+00	pCi/L	1.4E+01	1.4E+01	U	2.46E+01	GAMMALL_GS	2.00E+00
7324668	CO-60	10198-40-0	8.48E-02	pCi/L	1.2E+00	1.2E+00	U	2.32E+00	GAMMALL_GS	2.00E+00
7324668	CS-134	13967-70-9	1.01E-01	pCi/L	1.2E+00	1.2E+00	U	2.13E+00	GAMMALL_GS	2.00E+00
7324668	CS-137	10045-97-3	-4.95E-01	pCi/L	9.9E-01	9.9E-01	U	1.68E+00	GAMMALL_GS	2.00E+00
7324668	EU-152	14683-23-9	-5.79E-01	pCi/L	2.5E+00	2.5E+00	U	4.30E+00	GAMMALL_GS	2.00E+00
7324668	EU-154	15585-10-1	7.08E-02	pCi/L	2.7E+00	2.7E+00	U	5.23E+00	GAMMALL_GS	2.00E+00
7324668	EU-155	14391-16-3	1.34E+00	pCi/L	2.2E+00	2.2E+00	U	4.14E+00	GAMMALL_GS	2.00E+00

TAL Richland
6 rptFeaRadSummaryEdd 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.

1/17/2008 5:36:44 PM

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 38072 File Name: h:\Reportdb\edd\FeadIVRadW05265.Edd, h:\Reportdb\edd\FeadIVRad\38072.Edd

7324668	K-40	13966-00-2	-1.97E+01	pCi/L	2.4E+01	2.4E+01	U	4.72E+01	GAMMALL_GS	2.00E+00	L	12/29/2007	14:42	I
7324668	RU-106	13967-48-1	9.75E+00	pCi/L	9.9E+00	9.9E+00	U	1.93E+01	GAMMALL_GS	2.00E+00	L	12/29/2007	14:42	I
7324668	SB-125	14234-35-6	-1.14E+00	pCi/L	2.4E+00	2.4E+00	U	4.15E+00	GAMMALL_GS	2.00E+00	L	12/29/2007	14:42	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
9KAVWX30 B1R659	MW6-SBB-A1 W08-011				W05265					11/08/2007 12:33				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8014157	BETA	12587-47-2	1.08E+02	pCi/L	5.1E+00	1.4E+01	U	2.88E+00	100.0	9310_ALPHABETA	2.00E-01	L	01/14/2008 19:33	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
9KAVXD10 B1R670	MW6-SBB-A1 W08-011				W05265					11/08/2007 13:34				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7324661	ALPHA	12587-46-1	5.63E-01	pCi/L	1.1E+00	1.1E+00	U	2.53E+00	100.0	9310_ALPHABETA	1.612E-01	L	12/24/2007 18:35	I
7324668	BE-7	13966-02-4	7.50E+00	pCi/L	1.8E+01	1.8E+01	U	3.34E+01		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:46	I
7324668	CO-60	10198-40-0	8.55E-01	pCi/L	1.7E+00	1.7E+00	U	3.49E+00		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:46	I
7324668	CS-134	13967-70-9	-1.45E+00	pCi/L	1.8E+00	1.8E+00	U	2.86E+00		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:46	I
7324668	CS-137	10045-97-3	-2.34E-01	pCi/L	1.5E+00	1.5E+00	U	2.67E+00		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:46	I
7324668	EU-152	14683-23-9	-2.24E+00	pCi/L	3.6E+00	3.6E+00	U	5.87E+00		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:46	I
7324668	EU-154	15585-10-1	2.15E+00	pCi/L	3.8E+00	3.8E+00	U	7.88E+00		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:46	I
7324668	EU-155	14391-16-3	-6.20E-01	pCi/L	2.7E+00	2.7E+00	U	4.59E+00		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:46	I
7324668	K-40	13966-00-2	-6.38E+00	pCi/L	2.1E+01	2.1E+01	U	3.98E+01		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:46	I
7324668	RU-106	13967-48-1	3.32E+00	pCi/L	1.4E+01	1.4E+01	U	2.54E+01		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:46	I
7324668	SB-125	14234-35-6	-1.87E+00	pCi/L	3.3E+00	3.3E+00	U	5.65E+00		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:46	I
7324670	I-129L	15046-84-1	1.52E-01	pCi/L	1.5E-01	1.5E-01	U	3.06E-01	97.0	I129LL_SEP_LEPS	3.8968E+00	L	12/27/2007 19:30	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
9KAVXD30 B1R670	MW6-SBB-A1 W08-011				W05265					11/08/2007 13:34				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8014157	BETA	12587-47-2	3.55E+02	pCi/L	9.1E+00	4.7E+01	U	2.97E+00	100.0	9310_ALPHABETA	1.923E-01	L	01/14/2008 19:33	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
9KAVXE10 B1R669	MW6-SBB-A1 W08-011				W05265					11/08/2007 13:34				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7324661	ALPHA	12587-46-1	3.38E-01	pCi/L	8.6E-01	8.6E-01	U	2.07E+00	100.0	9310_ALPHABETA	1.611E-01	L	12/24/2007 18:35	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
9KAVXD30 B1R670	MW6-SBB-A1 W08-011				W05265					11/08/2007 13:34				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8014157	BETA	12587-47-2	3.55E+02	pCi/L	9.1E+00	4.7E+01	U	2.97E+00	100.0	9310_ALPHABETA	1.923E-01	L	01/14/2008 19:33	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
9KAVXE10 B1R669	MW6-SBB-A1 W08-011				W05265					11/08/2007 13:34				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7324661	ALPHA	12587-46-1	3.38E-01	pCi/L	8.6E-01	8.6E-01	U	2.07E+00	100.0	9310_ALPHABETA	1.611E-01	L	12/24/2007 18:35	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.

1/17/2008 5:36:44 PM

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 38072 File Name: h:\Reportdb\edd\Fead\VRad\W05265.Edd, h:\Reportdb\edd\Fead\VRad\38072.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:			
7324668	BE-7	13966-02-4	-7.14E+00	pCi/L	2.1E+01	2.1E+01	U	3.53E+01	GAMMALL_GS	1.9999E+00	L	12/29/2007	14:47
7324668	CO-60	10198-40-0	1.82E+00	pCi/L	1.9E+00	1.9E+00	U	3.66E+00	GAMMALL_GS	1.9999E+00	L	12/29/2007	14:47
7324668	CS-134	13967-70-9	4.54E-01	pCi/L	1.7E+00	1.7E+00	U	3.15E+00	GAMMALL_GS	1.9999E+00	L	12/29/2007	14:47
7324668	CS-137	10045-97-3	6.40E-01	pCi/L	1.6E+00	1.6E+00	U	2.87E+00	GAMMALL_GS	1.9999E+00	L	12/29/2007	14:47
7324668	EU-152	14683-23-9	1.41E+00	pCi/L	4.3E+00	4.3E+00	U	7.37E+00	GAMMALL_GS	1.9999E+00	L	12/29/2007	14:47
7324668	EU-154	15585-10-1	-1.15E+00	pCi/L	5.0E+00	5.0E+00	U	8.78E+00	GAMMALL_GS	1.9999E+00	L	12/29/2007	14:47
7324668	EU-155	14391-16-3	-1.19E+00	pCi/L	4.4E+00	4.4E+00	U	7.37E+00	GAMMALL_GS	1.9999E+00	L	12/29/2007	14:47
7324668	K-40	13966-00-2	-3.06E+01	pCi/L	4.9E+01	4.9E+01	U	1.02E+02	GAMMALL_GS	1.9999E+00	L	12/29/2007	14:47
7324668	RU-106	13967-48-1	-2.14E+00	pCi/L	1.5E+01	1.5E+01	U	2.61E+01	GAMMALL_GS	1.9999E+00	L	12/29/2007	14:47
7324668	SB-125	14234-35-6	2.54E+00	pCi/L	4.2E+00	4.2E+00	U	7.46E+00	GAMMALL_GS	1.9999E+00	L	12/29/2007	14:47
7324670	I-129L	15046-84-1	2.17E-01	pCi/L	1.2E-01	1.2E-01	U	2.69E-01	1129LL_SEP_LEPS	3.9479E+00	L	12/27/2007	19:30

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
9KAVXE30	B1R669		MW6-SBB-A1	W08-011	W05265					11/08/2007 13:34				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8014157	BETA	12587-47-2	3.94E+02	pCi/L	9.4E+00	5.1E+01		2.74E+00	100.0	9310_ALPHABETA	2.00E-01	L	01/14/2008	19:33

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
9KAVXG10	B1R631		MW6-SBB-A1	W08-011	W05265					11/08/2007 10:59				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7324661	ALPHA	12587-46-1	1.75E+00	pCi/L	1.2E+00	1.3E+00		1.62E+00	100.0	9310_ALPHABETA	1.25E-01	L	12/24/2007	13:22
7324668	BE-7	13966-02-4	3.94E+00	pCi/L	1.7E+01	1.7E+01	U	3.15E+01		GAMMALL_GS	2.0002E+00	L	12/29/2007	14:48
7324668	CO-60	10198-40-0	1.71E+00	pCi/L	1.7E+00	1.7E+00	U	3.30E+00		GAMMALL_GS	2.0002E+00	L	12/29/2007	14:48
7324668	CS-134	13967-70-9	7.88E-01	pCi/L	1.4E+00	1.4E+00	U	2.67E+00		GAMMALL_GS	2.0002E+00	L	12/29/2007	14:48
7324668	CS-137	10045-97-3	1.32E+00	pCi/L	1.3E+00	1.3E+00	U	2.52E+00		GAMMALL_GS	2.0002E+00	L	12/29/2007	14:48
7324668	EU-152	14683-23-9	1.42E+00	pCi/L	3.5E+00	3.5E+00	U	6.17E+00		GAMMALL_GS	2.0002E+00	L	12/29/2007	14:48
7324668	EU-154	15585-10-1	5.45E-01	pCi/L	3.3E+00	3.3E+00	U	6.28E+00		GAMMALL_GS	2.0002E+00	L	12/29/2007	14:48
7324668	EU-155	14391-16-3	7.97E-01	pCi/L	3.0E+00	3.0E+00	U	5.31E+00		GAMMALL_GS	2.0002E+00	L	12/29/2007	14:48
7324668	K-40	13966-00-2	5.28E+00	pCi/L	2.5E+01	2.5E+01	U	2.45E+01		GAMMALL_GS	2.0002E+00	L	12/29/2007	14:48
7324668	RU-106	13967-48-1	4.97E+00	pCi/L	1.3E+01	1.3E+01	U	2.31E+01		GAMMALL_GS	2.0002E+00	L	12/29/2007	14:48
7324668	SB-125	14234-35-6	1.88E+00	pCi/L	3.2E+00	3.2E+00	U	5.97E+00		GAMMALL_GS	2.0002E+00	L	12/29/2007	14:48
7324670	I-129L	15046-84-1	1.56E+01	pCi/L	1.8E+00	1.8E+00		5.12E-01	95.4	1129LL_SEP_LEPS	3.89E+00	L	12/27/2007	21:16
7324671	SR-90	10098-97-2	-2.03E-01	pCi/L	1.9E-01	1.9E-01	U	4.85E-01	74.5	SRISO_SEP_PRE	1.0016E+00	L	12/23/2007	10:41

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

1/17/2008 5:36:45 PM

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 38072 File Name: h:\Reportdb\ledd\Fead\VRad\W05265.Edd, h:\Reportdb\ledd\Fead\VRad\38072.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:			
9KAVXG20 B1R631	B1R631		MW6-SBB-A1	W08-011	W05265				11/08/2007 10:59				
Batch 8002374	Analyte NI-63	CAS# 13981-37-8	Result 1.22E+02	Unit pCi/L	CntU 2S 3.6E+00	TotU 2S 9.2E+00	MDA 3.90E+00	TrcYield 90.1	Method NI63_LSC	Alq Size 4.00E-01	Unit L	Analy Date/Time 01/03/2008 07:39	Act 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:			
9KAVXG30 B1R631	B1R631		MW6-SBB-A1	W08-011	W05265				11/08/2007 10:59				
Batch 8014157	Analyte BETA	CAS# 12587-47-2	Result 7.72E+02	Unit pCi/L	CntU 2S 1.6E+01	TotU 2S 9.9E+01	MDA 4.26E+00	TrcYield 100.0	Method 9310_ALPHABETA	Alq Size 1.266E-01	Unit L	Analy Date/Time 01/14/2008 19:33	Act I

Thursday, January 17, 2008

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\ledd\Fead\W05265.Edd, h:\Reportdb\ledd\Fead\W05265.Edd, h:\Reportdb\ledd\Fead\W05265.Edd

Lab Sample Id: KCNMA1AB **Sdg/Rept Nbr:** W05265 **38072** **Collection Date:** 11/13/2007 10:54
Client Id: NA **Matrix:** WATER **WATER** **Sample On Date:**
Moisture/Solids%*: **QC Type:** BLK **Received Date:** 11/13/2007

SAF Nbr	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType
7324646	TC-99	-1.48E-02	pCi/L	6.0E+00	U	1.02E+01	100.0	TC99_SEP_LS	1.2503E-01	12/20/2007	L	D
BLK	14133-76-7			4.2E+00						09:02		
											BT	H
											RER/ UCL	LCS LCL/UCL
											RPD/ UCL	R Typ

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

Thursday, January 17, 2008

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\Rad\W05265.Edd, h:\Reportdb\edd\Fead\Rad\38072.Edd

Lab Sample Id: KCNP61AB **Sdg/Rept Nbr:** W05265 **38072** **Collection Date:** 11/08/2007 12:42
Client Id: NA **Matrix:** WATER **WATER** **Sample On Date:**
Moisture/Solids%*: **QC Type:** BLK **BLK** **Received Date:** 11/08/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType					
	MW6-SBB-A19981								BV	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7324668	BE-7	1.53E+01	pCi/L	1.8E+01	U	3.38E+01			GAMMALL_GS	2.0005E+00	12/31/2007 07:04				D
BLK	13966-02-4	5.06E-01	pCi/L	1.4E+00	U	2.66E+00			GAMMALL_GS	2.0005E+00	12/31/2007 07:04				D
7324668	CO-60	6.69E-01	pCi/L	1.3E+00	U	2.48E+00			GAMMALL_GS	2.0005E+00	12/31/2007 07:04				D
BLK	10198-40-0	-8.53E-01	pCi/L	1.2E+00	U	1.99E+00			GAMMALL_GS	2.0005E+00	12/31/2007 07:04				D
7324668	CS-134	1.83E+00	pCi/L	3.4E+00	U	6.23E+00			GAMMALL_GS	2.0005E+00	12/31/2007 07:04				D
BLK	13967-70-9	3.44E+00	pCi/L	3.6E+00	U	7.37E+00			GAMMALL_GS	2.0005E+00	12/31/2007 07:04				D
7324668	CS-137	-6.15E-01	pCi/L	2.8E+00	U	4.81E+00			GAMMALL_GS	2.0005E+00	12/31/2007 07:04				D
BLK	10045-97-3	-2.04E+01	pCi/L	1.9E+01	U	3.52E+01			GAMMALL_GS	2.0005E+00	12/31/2007 07:04				D
7324668	EU-152	1.11E+01	pCi/L	1.2E+01	U	2.35E+01			GAMMALL_GS	2.0005E+00	12/31/2007 07:04				D
BLK	14683-23-9	-3.96E-01	pCi/L	3.3E+00	U	5.65E+00			GAMMALL_GS	2.0005E+00	12/31/2007 07:04				D
7324668	EU-154		pCi/L	3.3E+00	U				GAMMALL_GS	2.0005E+00	12/31/2007 07:04				D
BLK	15585-10-1		pCi/L	3.3E+00	U				GAMMALL_GS	2.0005E+00	12/31/2007 07:04				D
7324668	EU-155		pCi/L	3.3E+00	U				GAMMALL_GS	2.0005E+00	12/31/2007 07:04				D
BLK	14391-16-3		pCi/L	3.3E+00	U				GAMMALL_GS	2.0005E+00	12/31/2007 07:04				D
7324668	K-40		pCi/L	3.3E+00	U				GAMMALL_GS	2.0005E+00	12/31/2007 07:04				D
BLK	13966-00-2		pCi/L	3.3E+00	U				GAMMALL_GS	2.0005E+00	12/31/2007 07:04				D
7324668	RU-106		pCi/L	3.3E+00	U				GAMMALL_GS	2.0005E+00	12/31/2007 07:04				D
BLK	13967-48-1		pCi/L	3.3E+00	U				GAMMALL_GS	2.0005E+00	12/31/2007 07:04				D
7324668	SB-125		pCi/L	3.3E+00	U				GAMMALL_GS	2.0005E+00	12/31/2007 07:04				D
BLK	14234-35-6		pCi/L	3.3E+00	U				GAMMALL_GS	2.0005E+00	12/31/2007 07:04				D

TAL Richland
 rptFeadRadEdd v3.68

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

Thursday, January 17, 2008

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\Rad\W05265.Edd, h:\Reportdb\edd\Fead\Rad\38072.Edd

Lab Sample Id: KCNPG1AB **Sdg/Rept Nbr:** W05265 **Collection Date:** 11/13/2007 09:31
Client Id: NA **Matrix:** WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** BLK **Received Date:** 11/13/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt	Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7324661	ALPHA	6.06E-02	pCi/L	1.8E-01	1.8E-01	U	3.92E-01	100.0		9310_ALPHA	2.004E-01	12/25/2007				D
BLK	12587-46-1										L	11:01				

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

Thursday, January 17, 2008

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\ledd\Fead\VRad\W05265.Edd, h:\Reportdb\ledd\Fead\VRad\38072.Edd

Lab Sample Id: KCNPT3AB **Sdg/Rept Nbr:** W05265 **Collection Date:** 11/12/2007 10:53
Client Id: NA **Matrix:** WATER **Decant:** 38072 **Sample On Date:**
Moisture/Solids%*: **QC Type:** BLK **Distilled Volume:** **Received Date:** 11/12/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8014157	BETA	4.89E-01	pCi/L	9.0E-01	U	1.78E+00	100.0		9310_ALPHA	2.001E-01	01/15/2008				D
BLK	12587-47-2			9.0E-01						L	08:03				

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

Thursday, January 17, 2008

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Report\bledd\Fead\Rad\W05265.Edd, h:\Report\bledd\Fead\Rad\38072.Edd

Lab Sample Id: KCNQ71AB **Sdg/Rept Nbr:** W05265 **Collection Date:** 11/08/2007 10:59
Client Id: NA **Matrix:** 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	RType
	MW6-SBB-A19981								CB	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Concl/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Type
7324671	SR-90	-6.01E-02	pCi/L	2.3E-01	U	5.24E-01	73.2		SRISO_SEP_P	1.0003E+00	12/23/2007				D
BLK	10098-97-2			2.3E-01						L	10:41				

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

Thursday, January 17, 2008

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\ledd\FeadI\Rad\W05265.Edd, h:\Reportdb\ledd\FeadI\Rad\38072.Edd

Lab Sample Id: KCNQQ1AB **Sdg/Rept Nbr:** W05265 **38072** **Collection Date:** 11/08/2007 10:22
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	RType
	MW6-SBB-A19981								CD	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Type
7324670	I-129L	-8.77E-02	pCi/L	1.6E-01	U	2.70E-01	93.2		I129LL_SEP_L	3.8591E+00	12/27/2007				D
BLK	15046-84-1			1.6E-01						L	21:17				

Thursday, January 17, 2008

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\ledd\Fead\W05265.Edd, h:\Reportdb\ledd\Fead\Rad\38072.Edd

Lab Sample Id: KEFP1AB Sdg/Rept Nbr: W05265 38072 Collection Date: 11/08/2007 09:27
 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	RType
	MW6-SBB-A19981								CH	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7355417	BETA	9.13E-01	pCi/L	1.3E+00	U	2.62E+00	100.0		9310_ALPHA	2.001E-01	12/27/2007				D
BLK	12587-47-2			1.2E+00						L	17:58				

Thursday, January 17, 2008

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\W05265.Edd, h:\Reportdb\edd\Fead\W05265.Edd

Lab Sample Id: KGNMA1CS Sdg/Rept Nbr: W05265 38072 Collection Date: 11/13/2007 10:54

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

Moisture/Solids%*: QC Type: BS Received Date: 11/13/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7324646	TC-99	3.83E+02	pCi/L	2.8E+01	1.02E+01	100.0		5.45E+02	TC99_SEP_LS	1.2504E-01	12/20/2007			70	D
BS	14133-76-7			1.1E+01				70.4		L	09:02			130	

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TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\Rad\W05265.Edd, h:\Reportdb\edd\Fead\Rad\38072.Edd

Lab Sample Id: KCNP61CS Sdg/Rept Nbr: W05265 38072 Collection Date: 11/08/2007 12:42

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	F Suffix	R Typ					
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
7324668	CO-60	4.58E+01	pCi/L	7.5E+00	2.06E+00			3.79E+01	GAMMALL_GS	2.0002E+00	12/31/2007			70	D
BS	10198-40-0			7.5E+00				121.0		L	07:05			130	
7324668	CS-137	5.26E+01	pCi/L	7.7E+00	2.20E+00			5.00E+01	GAMMALL_GS	2.0002E+00	12/31/2007			70	D
BS	10045-97-3			7.7E+00				105.3		L	07:05			130	
7324668	EU-152	7.46E+01	pCi/L	1.3E+01	6.54E+00			7.65E+01	GAMMALL_GS	2.0002E+00	12/31/2007			70	D
BS	14683-23-9			1.3E+01				97.5		L	07:05			130	

Thursday, January 17, 2008

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\ledd\Fead\VRad\W05265.Edd, h:\Reportdb\ledd\Fead\VRad\38072.Edd

Lab Sample Id: KCNPG1CS Sdg/Rept Nbr: W05265 38072 Collection Date: 11/13/2007 09:31

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

Moisture/Solids%*: QC Type: BS Received Date: 11/13/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert	2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	RER/ UCL	LCS LCL/UCL	R Typ
7324661	ALPHA	1.78E+01	pCi/L	4.3E+00			3.63E-01	100.0	2.26E+01	9310_ALPHAB	2.004E-01		70	D
BS	12587-46-1			1.4E+00					78.9		L		130	

Thursday, January 17, 2008

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05

File Name: h:\Reportdb\ledd\Fead\W05265.Edd, h:\Reportdb\ledd\Fead\W05265.Edd, h:\Reportdb\ledd\Fead\W05265.Edd

Lab Sample Id: KCNPT3CS **Sdg/Rept Nbr:** W05265 **38072** **Collection Date:** 11/12/2007 10:53
Client Id: NA **Matrix:** WATER **WATER** **Sample On Date:**
Moisture/Solids%*: **QC Type:** BS **Received Date:** 11/12/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Concl/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCU/ UCL	R Typ
8014157	BETA	2.35E+01	pCi/L	3.5E+00		1.74E+00	100.0	2.26E+01	9310_ALPHA	2.00E-01	01/15/2008 08:03			70	D
BS	12587-47-2			1.7E+00				103.9		L				130	

Thursday, January 17, 2008

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Report\bledd\Fead\VRad\W05265.Edd, h:\Report\bledd\Fead\VRad\38072.Edd

Lab Sample Id: KCNQ71CS **Sdg/Rept Nbr:** W05265 **Collection Date:** 11/08/2007 10:59
Client Id: NA **Matrix:** WATER **Decant:** 38072 **Sample On Date:**
Moisture/Solids%*: **QC Type:** BS **Received Date:** 11/08/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7324671	SR-90	1.47E+01	pCi/L	2.3E+00		5.21E-01	71.3	1.38E+01	SRISO_SEP_P	1.0002E+00	12/23/2007			70	D
BS	10098-97-2			8.8E-01				106.3		L	10:41			130	

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

Thursday, January 17, 2008

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\ledd\Fead\Rad\W05265.Edd, h:\Reportdb\ledd\Fead\Rad\38072.Edd

Lab Sample Id: KCNQ1CS **Sdg/Rept Nbr:** W05265 **38072** **Collection Date:** 11/08/2007 10:22
Client Id: NA **Matrix:** WATER **WATER**
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	RType
	MW6-SBB-A19981								CE	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt	Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7324670	I-129L	9.75E+00	pCi/L	1.2E+00	1.2E+00	3.64E-01	96.1	9.78E+00	1129LL_SEP_L	3.9031E+00	12/27/2007	21:17	70	70	130	D
BS	15046-84-1							99.7		L						

Thursday, January 17, 2008

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05

File Name: h:\Reportdb\ledd\Fead\IVRad\W05265.Edd, h:\Reportdb\ledd\Fead\IVRad\38072.Edd

Lab Sample Id: KCNRC2CS **Sdg/Rept Nbr:** W05265 **38072** **Collection Date:** 11/08/2007 10:59
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	RType
	MW6-SBB-A19981								CG	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	Typ
8002374	Ni-63	3.41E+02	pCi/L	2.2E+01		3.93E+00	88.7	3.80E+02	Ni63_LSC	4.0002E-01	01/03/2008			70	D
BS	13981-37-8			5.6E+00				89.6		L	12:46			130	

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

Thursday, January 17, 2008

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\ledd\Fead\VA\Rad\W05265.E.dd, h:\Reportdb\ledd\Fead\VA\Rad\38072.E.dd

Lab Sample Id: KEFP1CS **Sdg/Rept Nbr:** W05265 **Collection Date:** 11/08/2007 09:27
Client Id: NA **Matrix:** 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	RType
	MW6-SBB-A19981								Cl	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt	Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7355417	BETA	2.08E+01	pCi/L	4.0E+00			2.29E+00	100.0	2.27E+01	9310_ALPHA	1.999E-01	12/27/2007			70	D
BS	12587-47-2			2.2E+00					91.7		L	17:58			130	

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

Thursday, January 17, 2008

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\ledd\Fead\Rad\W05265.Edd, h:\Reportdb\ledd\Fead\Rad\38072.Edd

Lab Sample Id: KA3351CR **Sdg/Rept Nbr:** W05265 **38072** **Collection Date:** 11/12/2007 09:36
Client Id: B1R142 **Matrix:** WATER **WATER** **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **Received Date:** 11/12/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType
G08-011	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 Type
8014157	BETA	1.51E+04	pCi/L	2.0E+03		4.40E+00	100.0		9310_ALPHAB	9.90E-02	01/15/2008	1.2	0.1		D
DUP	12587-47-2	1.49E+04		5.8E+01						L	08:03	20.0	3		

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

Thursday, January 17, 2008

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\ledd\Fead\IRad\W05265.Edd, h:\Reportdb\ledd\Fead\IRad\38072.Edd

Lab Sample Id: KA6171ER Sdg/Rept Nbr: W05265 38072 Collection Date: 11/13/2007 09:31
 Client Id: B1R595 Matrix: WATER WATER Sample On Date:
 Moisture/Solids%*: QC Type: DUP Received Date: 11/13/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType
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
7324661	ALPHA	1.44E+02	pCi/L	3.5E+01		3.88E+00	100.0		9310_ALPHA	4.45E-02	12/24/2007	.3	0.		D
DUP	12587-46-1	1.44E+02		1.2E+01						L	16:13	20.0	3		

Thursday, January 17, 2008

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\ledd\Fead\I\Rad\W05265.Edd, h:\Reportdb\ledd\Fead\I\Rad\38072.Edd

Lab Sample Id: KA62F1FR **Sdg/Rept Nbr:** W05265 **Collection Date:** 11/13/2007 10:54
Client Id: B1R579 **Matrix:** WATER **Water:** WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **Received Date:** 11/13/2007

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
7324646	TC-99	6.63E+03	pCi/L	3.9E+02		1.02E+01	100.0		TC99_SEP_LS	1.2503E-01	12/20/2007 09:02	6.5	1.6		D
DUP	14133-76-7	7.07E+03		4.4E+01						L		20.0	3		

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

Thursday, January 17, 2008

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\ledd\Fead\W05265.Edd, h:\Reportdb\ledd\Fead\W05265.Edd

Lab Sample Id: KAVDV1CR **Sdg/Rept Nbr:** W05265 **Collection Date:** 11/08/2007 10:22
Client Id: B1R357 **Matrix:** 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
108-008	MW6-SBB-A19981								BP	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7324670	I-129L	1.07E-01	pCi/L	1.3E-01	U	2.66E-01	100.5		1129LL_SEP_L	3.8842E+00	12/27/2007	106.0	0.8		D
DUP	15046-84-1	3.30E-02		1.3E-01						L	16:01	20.0	3		

TAL Richland QC Duplicate Report

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\ledd\Fead\Rad\W05265.Edd, h:\Reportdb\ledd\Fead\Rad\38072.Edd

Lab Sample Id: KAVW71ER **Sdg/Rept Nbr:** W05265 **38072** **Collection Date:** 11/08/2007 12:42
Client Id: B1R639 **Matrix:** WATER **WATER** **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **DUP** **Received Date:** 11/08/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType					
W08-011	MW6-SBB-A19981								BQ	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7324668 BE-7		-2.69E+01	pCi/L	2.3E+01	U	3.55E+01			GAMMALL_GS	1.8596E+00	12/29/2007 14:44	0.0	1.7		D
DUP	13966-02-4	1.39E+00		2.3E+01						L		20.0	3		
7324668 CO-60		4.68E-01	pCi/L	1.8E+00	U	3.48E+00			GAMMALL_GS	1.8596E+00	12/29/2007 14:44	0.0	0.9		D
DUP	10198-40-0	-7.12E-01		1.8E+00						L		20.0	3		
7324668 CS-134		6.39E-01	pCi/L	1.9E+00	U	3.64E+00			GAMMALL_GS	1.8596E+00	12/29/2007 14:44	5.8	0.		D
DUP	13967-70-9	6.77E-01		1.9E+00						L		20.0	3		
7324668 CS-137		-7.29E-01	pCi/L	1.6E+00	U	2.80E+00			GAMMALL_GS	1.8596E+00	12/29/2007 14:44	0.0	0.6		D
DUP	10045-97-3	-1.46E+00		1.6E+00						L		20.0	3		
7324668 EU-152		3.43E+00	pCi/L	4.7E+00	U	8.58E+00			GAMMALL_GS	1.8596E+00	12/29/2007 14:44	4.7	0.		D
DUP	14683-23-9	3.60E+00		4.7E+00						L		20.0	3		
7324668 EU-154		-6.68E-01	pCi/L	4.7E+00	U	8.66E+00			GAMMALL_GS	1.8596E+00	12/29/2007 14:44	0.0	0.		D
DUP	15585-10-1	-5.10E-01		4.7E+00						L		20.0	3		
7324668 EU-155		7.41E-01	pCi/L	3.4E+00	U	6.08E+00			GAMMALL_GS	1.8596E+00	12/29/2007 14:44	32.9	0.1		D
DUP	14391-16-3	5.32E-01		3.4E+00						L		20.0	3		
7324668 K-40		6.74E+00	pCi/L	4.4E+01	U	3.19E+01			GAMMALL_GS	1.8596E+00	12/29/2007 14:44	0.0	1.3		D
DUP	13966-00-2	-3.45E+01		4.4E+01						L		20.0	3		
7324668 RU-106		-5.20E+00	pCi/L	1.7E+01	U	2.90E+01			GAMMALL_GS	1.8596E+00	12/29/2007 14:44	0.0	0.4		D
DUP	13967-48-1	-1.02E+01		1.7E+01						L		20.0	3		
7324668 SB-125		-4.73E-01	pCi/L	4.2E+00	U	7.50E+00			GAMMALL_GS	1.8596E+00	12/29/2007 14:44	0.0	0.7		D
DUP	14234-35-6	-2.57E+00		4.2E+00						L		20.0	3		

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

Thursday, January 17, 2008

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\VRad\W05265.Edd, h:\Reportdb\edd\Fead\VRad\38072.Edd

Lab Sample Id: KAVXG1HR **Sdg/Rept Nbr:** W05265 **38072** **Collection Date:** 11/08/2007 10:59
Client Id: B1R631 **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	RType
W08-011	MW6-SBB-A19981								BR	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Concl/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7324671	SR-90	6.66E-02	pCi/L	2.3E-01	U	5.14E-01	66.5		SRISO_SEP_P	1.0016E+00	12/23/2007	0.0	1.6		D
DUP	10098-97-2	-2.03E-01		2.1E-01						L	10:41	20.0	3		

Thursday, January 17, 2008

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\ledd\Fead\W05265.Edd, h:\Reportdb\ledd\Fead\W05265.Edd, h:\Reportdb\ledd\Fead\W05265.Edd

Lab Sample Id: KAVXG2JR **Sdg/Rept Nbr:** W05265 **38072** **Collection Date:** 11/08/2007 10:59
Client Id: B1R631 **Matrix:** WATER **WATER**
Moisture/Solids%*: **QC Type:** DUP

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8002374	Ni-63	1.13E+02	pCi/L	8.6E+00		3.73E+00	92.8		Ni63_LSC	4.0001E-01	01/03/2008	7.7	1.5		D
DUP	13981-37-8	1.22E+02		3.4E+00						L	09:22	20.0	3		

Thursday, January 17, 2008

TAL Richland Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\ledd\Fead\Rad\W05265.Edd, h:\Reportdb\ledd\Fead\Rad\38072.Edd

Lab Sample Id: KA62K1FW Sdg/Rept Nbr: W05265 38072 Collection Date: 11/13/2007 10:54
 Client Id: B1R580 Matrix: WATER WATER Sample On Date:
 Moisture/Solids%*: QC Type: MS Received Date: 11/13/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt	Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7324646 MS	TC-99 14133-76-7	3.30E+03	pCi/L	7.4E+02	5.5E+01	1.02E+01	100.0	100.0	3.66E+03 90.1	TC99_SEP_LS	1.2503E-01	12/20/2007 09:02			60 140	D

TAL Richland

4 rad\FeadRadEdd 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.

Lot No., Due Date: J7K120214,J7K130305,J7K090108,J7K090110; 12/31/2007
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 7324661; RALPHA-A Alpha by GPC-Am
SDG, Matrix: W05265; WATER

8.0 Correction Calculation Protocol Used. OK	Yes	No	N/A
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	Yes	No	N/A
8.02 Final Results Are in the Appropriate Activity Units OK	Yes	No	N/A
8.03 Batch Contains the Required QC Appropriate for the Method OK	Yes	No	N/A
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	Yes	No	N/A
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	Yes	No	N/A
8.06 At Least the Minimum Sample Volume Was Used Analysis Volume => KAVWX1AA 151.40<200.00 KAVW11AA 142.80<200.00 KAVW61AA 161.30<200.00 KAVW71AA 178.40<200.00 KAVW81AA 151.50<200.00 KAVW91AA 113.60<200.00 KAVXD1AA 161.20<200.00 KAVXE1AA 161.10<200.00 KAVXG1AA 125.00<200.00 KA34F1AA 172.40<200.00 KA6171AA 44.60<200.00 KA62C1AA 31.70<200.00 KA62F1AA 60.80<200.00 KA62K1AA 56.80<200.00 Q:VB	Yes	No	N/A
8.07 The Correct Count Geometry was Used. OK	Yes	No	N/A
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	Yes	No	N/A
8.09 Method Blank is within Control Limits. OK	Yes	No	N/A
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBLks) found in Batch!	Yes	No	N/A
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	Yes	No	N/A
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	Yes	No	N/A
8.14 LCS within Control Limits. OK	Yes	No	N/A
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!	Yes	No	N/A
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!	Yes	No	N/A
8.17 Tracer within Control Limits. OK	Yes	No	N/A
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	Yes	No	N/A
8.19 Sample Specific MDC <= CRDL. MDC/MDA > CRDL => KA6171AA ALPHA 3.9E+00>3.0E+00 KA6171AE ALPHA 3.9E+00>3.0E+00 KA62C1AA ALPHA 4.3E+00>3.0E+00 Q:C1	Yes	No	N/A
8.2 Comments:			

8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!	Yes	No	N/A
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => KAVW11AA ALPHA 3.7E+00 L:1.7E+00 KAVW81AA ALPHA 2.0E+00 L:1.7E+00 KAVXG1AA ALPHA 1.7E+00 L:1.6E+00 KA34M1AA ALPHA 1.2E+00 L:7.0E-01 KA6171AA ALPHA 1.4E+02 L:3.9E+00 KA62F1AA ALPHA 9.0E+01 L:2.8E+00 KA62K1AA ALPHA 1.0E+02 L:2.3E+00	Yes	No	N/A
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => ALPHA OK; No Callin Level Found => ALPHA	Yes	No	N/A
8.24 Result + 3s >=0, Not Too Negative. OK	Yes	No	N/A
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!	Yes	No	N/A
8.26 Instruments have Current Calibrations.	Yes	No	N/A
8.27 Correct Count Library Used. No Count Library found in Batch Data!	Yes	No	N/A
8.28 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later version)	Yes	No	N/A
8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later version)	Yes	No	N/A
8.3 Comments: NCM 10-11531			
8.31 Results Blank Subtracted as Appropriate. OK	Yes	No	N/A

First Level Review *Aisa Gustafson*

Date *12/26/07*

Data Review Checklist
RADIOCHEMISTRY
 Second Level Review

Batch Number: 7324601

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

Comments on any "No" response: See NCR

Second Level Review: Erika Ford Date: 12/18/17

Clouseau Nonconformance Memo



NCM #: 10-11531 NCM Initiated By: Lisa Antonson Date Opened: 12/26/2007 Date Closed:	Classification: Anomaly Status: PMREVIEW Production Area: Environmental - Prep Tests: Alpha by GPC-Am Lot #'s (Sample #'s): J7K090108 (2,3), J7K090110 (2,3,4,5,6,7,8), J7K120214 (1,2), J7K130305 (1,2,3,4), J7K200000 (661), QC Batches: 7324661,
Nonconformance: MDA not met Subcategory: Sample size reduced due to high residue mass	

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	12/26/2007	Sample KA62C didn't meet CRDL. It was counted for the maximum of 200 minutes. KA617 and it's dup didn't meet CRDL but had results that exceed the MDA achieved. Samples had reduced aliquots due to weight screens. Data accepted.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	12/26/2007	NA

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note
			<u>Response</u>		<u>Response Note</u>

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position
---------------	-------------	----------

Lot No., Due Date: J7K120212,J7K120214,J7K130305,J7K090108,J7K090110; 12/31/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8014157; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05265; 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: The samples did not meet the RDL due to reduced aliquots The activity detected in the samples was greater than the IDC the data can be accepted.		

First Level Review *John Horton*

Date 1-15-8

Data Review Checklist
RADIOCHEMISTRY
 Second Level Review

Batch Number: 8014157

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 Date: 1/16/08

Lot No., Due Date: J7K090110; 12/31/2007
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 7324671; RSR85907 Sr-85/90 by GPC-7
SDG, Matrix: W05265; 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

Stuart E. Whitcomb

Date

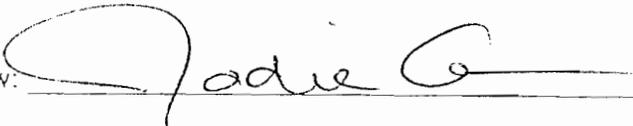
12/24/07

Data Review Checklist
RADIOCHEMISTRY
 Second Level Review

Batch Number: 7324671

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:  Date: 12/24/07

Lot No., Due Date: J7K130305,J7K090108,J7K090110; 12/31/2007
 Client, Site: 384868; PGW 615HANFORD HANFORD
 QC Batch No., Method Test: 7324668; RGAMMA Gamma by GER
 SDG, Matrix: W05265; WATER

1.0 COC

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

✓ 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

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

3.0 QC & Samples

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

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

4.0 Raw Data

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

✓ Yes No N/A

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

✓ Yes No N/A

4.3 Were Yields entered correctly? Yes No N/A

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

5.0 Other

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

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

5.4 Was transcription checked? Yes No N/A

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

6.0 Comments on any No response:

First Level Review

Liza Austenson

Date

12/31/07

Data Review Checklist
RADIOCHEMISTRY
 Second Level Review

Batch Number: 7324668

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: 12/31/07

Lot No., Due Date: J7K080383,J7K090108,J7K090110; 12/31/2007
 Client, Site: 384868; PGW 615HANFORD HANFORD
 QC Batch No., Method Test: 7324670; RGAMLEPS Gamma by LEPS
 SDG, Matrix: W05265; WATER

1.0 COC

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

✓ 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

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

3.0 QC & Samples

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

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

4.0 Raw Data

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

✓ Yes No N/A

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

✓ Yes No N/A

4.3 Were Yields entered correctly? Yes No N/A

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

5.0 Other

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

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

5.4 Was transcription checked? Yes No N/A

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

6.0 Comments on any No response:

First Level Review

Andrea Antonson

Date 12/28/07

Data Review Checklist
RADIOCHEMISTRY
 Second Level Review

Batch Number: 7324670

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: *Erin Ford* Date: 12/28/17

Lot No., Due Date: J7K130305; 12/31/2007
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 7324646; RTC99 Tc-99 by LSC
SDG, Matrix: W05265; WATER

8.0 Correction Calculation Protocol Used. OK	Yes	No	N/A
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	Yes	No	N/A
8.02 Final Results Are in the Appropriate Activity Units OK	Yes	No	N/A
8.03 Batch Contains the Required QC Appropriate for the Method OK	Yes	No	N/A
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	Yes	No	N/A
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	Yes	No	N/A
8.06 At Least the Minimum Sample Volume Was Used OK	Yes	No	N/A
8.07 The Correct Count Geometry was Used. OK	Yes	No	N/A
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	Yes	No	N/A
8.09 Method Blank is within Control Limits. OK	Yes	No	N/A
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBLks) found in Batch!	Yes	No	N/A
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	Yes	No	N/A
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	Yes	No	N/A
8.14 LCS within Control Limits. OK	Yes	No	N/A
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!	Yes	No	N/A
8.16 MS within Control Limits. OK	Yes	No	N/A
8.17 Tracer within Control Limits. No Tracers found in Batch!	Yes	No	N/A
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!	Yes	No	N/A
8.19 Sample Specific MDC <= CRDL. OK	Yes	No	N/A
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!	Yes	No	N/A
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK Calc_IDL Not Calculated	Yes	No	N/A
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => TC-99 OK; No Callin Level Found => TC-99	Yes	No	N/A
8.24 Result + 3s >=0, Not Too Negative. OK	Yes	No	N/A
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!	Yes	No	N/A

8.26 Instruments have Current Calibrations.	Yes	No	N/A
8.27 Correct Count Library Used. No Count Library found in Batch Data!	Yes	No	N/A <input checked="" type="checkbox"/>
8.28 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later versions)	Yes	No	N/A
8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later versions)	Yes	No	N/A
8.3 Comments: NCM 10-11556			
8.31 Results Blank Subtracted as Appropriate. OK	Yes <input checked="" type="checkbox"/>	No	N/A

First Level Review

[Handwritten Signature]

Date

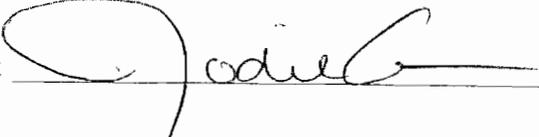
12/31/07

Data Review Checklist RADIOCHEMISTRY Second Level Review

Batch Number: 7324646

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 RCM

Second Level Review:  Date: 12/31/07

Clouseau Nonconformance Memo



NCM #: 10-11556 NCM Initiated By: Lisa Antonson Date Opened: 12/31/2007 Date Closed:	Classification: Anomaly Status: PMREVIEW Production Area: Environmental - Sep Tests: Tc-99 by LSC Lot #'s (Sample #'s): J7K130305 (3,4), J7K200000 (646), QC Batches: 7324646,
Nonconformance: LCS result out of limits Subcategory: Analyte was recovered low in the LCS	

Problem Description / Root Cause

<u>Name</u>	<u>Date</u>	<u>Description</u>
Lisa Antonson	12/31/2007	The LCS in this batch was recovered low at 70%. A recount brought it to 72%. The MS is acceptable at 90% and the data will be accepted based on that result.

Corrective Action

<u>Name</u>	<u>Date</u>	<u>Corrective Action</u>
Lisa Antonson	12/31/2007	Investigation will continue into the reason for low recoveries on Tc99 LCS's.

Client Notification Summary

<u>Client</u>	<u>Project Manager</u>	<u>Notified</u>	<u>Response</u>	<u>How Notified</u>	<u>Note</u>
			<u>Response</u>		<u>Response Note</u>

Quality Assurance Verification

<u>Verified By</u>	<u>Due Date</u>	<u>Status</u>	<u>Notes</u>
		This section not yet completed by QA.	

Approval History

<u>Date Approved</u>	<u>Approved By</u>	<u>Position</u>
----------------------	--------------------	-----------------

Lot No., Due Date: J7K090110; 12/31/2007
 Client, Site: 384868; PGW 615HANFORD HANFORD
 QC Batch No., Method Test: 8002374; RNI63 Ni-63 by LSC
 SDG, Matrix: W05265; 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:
Please see NCM #10-11581

First Level Review *[Signature]*

Date 1-4-8

Data Review Checklist
RADIOCHEMISTRY
 Second Level Review

Batch Number: 8002374

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: 1/7/08

MEMORANDUM

Date: 1/7/08

To: Whom it May Concern

From: Sandra Seger

Subject: W06265 Ni63 Batches 7324672 and 8002374

The TSIE was out on the instrument blank. The Ni63 carrier had not been added.

A new instrument blank was made that included the Ni63 carrier. All the samples in batch 7324672 was recounted and had acceptable results. The recount batch number is 8002374.

Clouseau was not working at the time the memo was wrote.

Sample Check-in List

DUE 122407

Date/Time Received: 11-08-05 1500

Client: P6W SDG #: W05265 NA [] SAF #: I08-008 NA []

Work Order Number: JTK080383 Chain of Custody # I08-008-90,82

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 Labels
 _____ Appropriate Sample Labels
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: A. Smith Date: 11-08-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____

Sample Check-in List

DUE 122407

Date/Time Received: 11-08-07 15:00

Client: P6W SDG #: W05265 NA [] SAF #: W08-011 NA []

Work Order Number: J7K090108 Chain of Custody # W08-011, 384, 378, 372

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [] Yes No []
2. Custody Seals dated and signed? NA [] Yes No []
3. Chain of Custody record present? NA [] Yes No []
4. Cooler Temperature: _____ NA 5. Vermiculite/packing materials is NA Wet [] Dry []
6. Number of samples in shipping container: 3
7. Sample holding times exceeded? NA Yes [] No []
8. Samples have:

<input type="checkbox"/> Tape <input type="checkbox"/> Custody Seals	<input type="checkbox"/> Hazard Labels <input checked="" type="checkbox"/> Appropriate Sample Labels
---	---
9. Samples are:

<input checked="" type="checkbox"/> In Good Condition <input type="checkbox"/> Broken	<input type="checkbox"/> Leaking <input type="checkbox"/> Have Air Bubbles <small>(Only for samples requiring no head space.)</small>
--	---
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: S. Smith Date: 11-08-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____



Sample Check-in List

DUE 122407

Date/Time Received: 11-08-07 15:00

Client: P6W SDG #: W05265 NA [] SAF #: W08-011 NA []

Work Order Number: J7K090110 Chain of Custody # W08-011-366, 360, 342, 354, 396, 403, 402, 408

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 Labels
 - _____ Appropriate Sample Labels
- 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: S. Sm. Va Date: 11-08-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____

Sample Check-in List

DUE 122707

Date/Time Received: 11/20/07 1315

Client: PGW SDG #: W05265 NA [] SAF #: G08-011 NA []

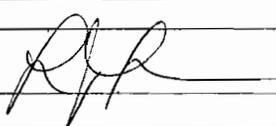
Work Order Number: JTK120212 Chain of Custody # G08-011-17

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:

<input checked="" type="checkbox"/> Tape <input checked="" type="checkbox"/> Custody Seals	<input checked="" type="checkbox"/> Hazard Labels <input checked="" type="checkbox"/> Appropriate Sample Labels
---	--
9. Samples are:

<input checked="" type="checkbox"/> In Good Condition <input type="checkbox"/> Broken	<input type="checkbox"/> Leaking <input type="checkbox"/> 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:  Date: 11/20/07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____



Sample Check-in List

DUE 122707

Date/Time Received: 11/20/07 1315

Client: PGW SDG #: W05265 NA [] SAF #: I08-005 NA []

Work Order Number: JKJTK12021-4RP Chain of Custody # I08-005-26432

Shipping Container ID: _____ Air Bill # _____

- 1. Custody Seals on shipping container intact? NA [] Yes [X] No []
- 2. Custody Seals dated and signed? NA [] Yes [X] No []
- 3. Chain of Custody record present? NA [] Yes [X] No []
- 4. Cooler Temperature: _____ NA [X] 5. Vermiculite/packing materials is NA [X] Wet [] Dry []
- 6. Number of samples in shipping container: 2
- 7. Sample holding times exceeded? NA [X] 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 [X] 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 [X]
- 13. Description of anomalies (include sample numbers): _____

Sample Custodian: [Signature] Date: 11/20/07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____

Sample Check-in List

Date/Time Received: 11/30/07 1330

Client: PGW SDG #: W05265 NA [] SAF #: W08-011 NA []

Work Order Number: J7K130305 Chain of Custody # W08-011-36,-30,-18,-19

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [] Yes [X] No []
2. Custody Seals dated and signed? NA [] Yes [X] No []
3. Chain of Custody record present? NA [] Yes [X] No []
4. Cooler Temperature: _____ NA [X] 5. Vermiculite/packing materials is NA [X] Wet [] Dry []
6. Number of samples in shipping container: 4
7. Sample holding times exceeded? NA [X] Yes [] No []
8. Samples have:

_____ Tape	_____ Hazard Labels
_____ Custody Seals	_____ Appropriate Sample Labels
9. Samples are:

_____ In Good Condition	_____ Leaking
_____ Broken	_____ Have Air Bubbles

(Only for samples requiring no head space.)
10. Sample pH taken? NA [] pH<2 [X] 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 [X]
13. Description of anomalies (include sample numbers): _____

Sample Custodian:  Date: 11/30/07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____

12/17/2007 4:53:31 PM
 384868, Pacific Northwest National Laboratory
 Pacific Northwest National Lab
 Balance Id: 1120482733
 Pipet #: 235
 Sep1 DT/Tm Tech: Sep2 DT/Tm Tech:
 AZ Gross Alpha PrpRC5014
 S7 Gross Alpha by GPC using Am-241 curve
 51 CLIENT: HANFORD
 PM, Quote: SA, 57671

Batch: 7324661 WATER pCi/L
 SEQ Batch, Test: None
 AnalytDueDate: 12/31/2007 WWSaes
 Prep Tech: HarrisD / APA

Work Order, Lot, Sample Date/Time	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 KAVWX-1-AA J7K090108-2-SAMP 11/08/2007 12:33	151.40g.in	151.40g.in		1.5	46.3	100	10A	1412		12/24/07 RC
2 KAVW1-1-AA J7K090108-3-SAMP 11/08/2007 11:07	142.80g.in	142.80g.in		44.9			10B			
3 KAVW6-1-AA J7K090110-2-SAMP 11/08/2007 09:27	161.30g.in	161.30g.in		46.5	50		00A	1901		12/24/07 00
4 KAVW7-1-AA J7K090110-3-SAMP 11/08/2007 12:42	178.40g.in	178.40g.in		44.0			10B			
5 KAVW8-1-AA J7K090110-4-SAMP 11/08/2007 10:22	151.50g.in	151.50g.in		43.3	100		10C	1412		12/24/07 RC
6 KAVW9-1-AA J7K090110-5-SAMP 11/08/2007 11:52	113.60g.in	113.60g.in		43.1			10D			
7 KAVXD-1-AA J7K090110-6-SAMP 11/08/2007 13:34	161.20g.in	161.20g.in		44.7	50		10C	1901		12/24/07 00

12/17/2007 4:53:33 PM **Sample Preparation/Analysis** Balance Id:1120482733
 384868, Pacific Northwest National Laboratory, AZ Gross Alpha PrpRC5014 Pipet #:
 Pacific Northwest National Lab S7 Gross Alpha by GPC using Am-241 curve
 5I CLIENT: HANFORD AnlyDueDate: 12/31/2007

Batch: 7324661 WATER pCi/L PM, Quote: SA, 57671
 SEQ Batch, Test: None

Work Order, Lot, Sample Date/Time	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 KAVXE-1-AA J7K090110-7-SAMP 11/08/2007 13:34	161.10g.in			#Containers: 5 AmiRec: VIAL20,LP,3X4LP		1.5 41.8 50	10D	1901	12/24/07	1.70E-03 uCi/Sa
9 KAVXG-1-AA J7K090110-8-SAMP 11/08/2007 10:59	125.00g.in			#Containers: 9 AmiRec: VIAL20,5XLP,3X4LP		53.9 100	10F	1412	12/24/07	Alpha: 1.05E-03 uCi/Sa Beta: 1.70E-04 uCi/Sa
10 KA34F-1-AA J7K120214-1-SAMP 11/12/2007 10:53	172.40g.in			#Containers: 2 AmiRec: VIAL20,LP		59.4 50	10F	1901	12/24/07	Alpha: 1.13E-03 uCi/Sa Beta: 5.25E-04 uCi/Sa
11 KA34M-1-AA J7K120214-2-SAMP 11/12/2007 12:06	192.40g.in			#Containers: 2 AmiRec: VIAL20,LP		48.4 200	10B	1241	12/25/07	Alpha: Beta:
12 KA617-1-AA J7K130305-1-SAMP 11/13/2007 09:31	44.60g.in			#Containers: 3 AmiRec: 20ML,LP,4LP		51.3 200	10A	1754	12/24/07	Alpha: Beta: 3.71E-07 uCi/Sa
13 KA617-1-AE-X J7K130305-1-DUP 11/13/2007 09:31	44.50g.in			#Containers: 3 AmiRec: 20ML,LP,4LP		52.7	10B			Alpha: 3.45E-06 uCi/Sa Beta: 3.71E-07 uCi/Sa
14 KA62C-1-AA J7K130305-2-SAMP 11/13/2007 12:13	31.70g.in			#Containers: 3 AmiRec: 20ML,LP,4LP		26.6	10C			Alpha: 3.45E-06 uCi/Sa Beta: 8.19E-07 uCi/Sa

12/17/2007 4:53:33 PM **Sample Preparation/Analysis** Balance Id:1120482733
 384868, Pacific Northwest National Laboratory, AZ Gross Alpha PrpRC5014 Pipet #:
 Pacific Northwest National Lab S7 Gross Alpha by GPC using Am-241 curve
 51 CLIENT: HANFORD

AnalyteDate: 12/31/2007 PM, Quote: SA, 57671
Batch: 7324661 WATER pCi/L
 SEQ Batch, Test: None

Work Order, Lot, Sample Date/Time	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 KA62F-1-AA J7K130305-3-SAMP 11/13/2007 10:54	60.80g.in	1.5 59.6 200	AmitRec: 20ML_4XLP_4LP	#Containers: 6		1754	10D	Alpha: 2.43E-03 uCi/Sa	12/24/0700	Beta: 1.65E-03 uCi/Sa
16 KA62K-1-AA J7K130305-4-SAMP 11/13/2007 10:54	56.80g.in	52.5	AmitRec: 20ML_4XLP_4LP	#Containers: 6			10F	Alpha: 1.56E-03 uCi/Sa		Beta: 7.91E-04 uCi/Sa
17 KCNPG-1-AA-B J7K200000-661-BLK 11/13/2007 09:31	200.40g.in	0.4	AmitRec: 20ML_4XLP_4LP	#Containers: 6			10C	Alpha: 1.56E-03 uCi/Sa	12/25/0700	
18 KCNPG-1-AC-C J7K200000-661-LCS 11/13/2007 09:31	200.40g.in	0.6	ASD4364 12/11/07.pd	#Containers: 1			10D	Alpha: 1.56E-03 uCi/Sa		Beta:

Comments: *QALC O. Aliquots reduced due to weight swings. Out 12/17/07*

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

KAVWX1AA-SAMP Constituent List:
 ALPHA RDL:3 pCi/L LCL: UCL: RPD:
 KCNPG1AA-BLK: RDL:3 pCi/L LCL: UCL: RPD:
 ALPHA RDL:3 pCi/L LCL: UCL: RPD:
 Am-241 RDL: LCL:70 UCL:130 RPD:20

KAVWX1AA-SAMP Calc Info:
 Uncert Level (#): 2 Decay to radT: Y Blk Subt.: N Sci.Not.: Y ODRs: B

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

Richland Wa. Page 3
 ISV - Insufficient Volume for Analysis
 WO Cnt: 18
 Prep_SamplePrep v4.8.29

12/17/2007 4:53:34 PM

Sample Preparation/Analysis

Balance Id:1120482733

AZ Gross Alpha PrpRC5014

S7 Gross Alpha by GPC using Am-241 curve

5I CLIENT: HANFORD

AnalytDueDate: 12/31/2007

Batch: 7324661

SEQ Batch, Test: None

pCi/L

Prep Tech: ,HarrisD

Work Order, Lot, Sample Date Time	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:
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KCNPG1AA-BLK:

Uncert Level (#s): 2

Decay to Sadt: Y

Blk Subt.: N

Sci.Not.: Y

ODRs: B

KCNPG1AC-LCS:

Uncert Level (#s): 2

Decay to Sadt: Y

Blk Subt.: N

Sci.Not.: Y

ODRs: B

Approved BY

Date:

ICOC Fraction Transfer/Status Report

ByDate: 12/26/2006, 12/31/2007, Batch: '7324661', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
7324661				
AC	CalcC	HarrisD	12/17/2007 4:41:21	
SC		wagarr	IsBatched 11/20/2007 4:11:51 PM	ICOC_RADCALC v4.8.29
SC		HarrisD	InPrep 12/17/2007 4:41:21 PM	RICH-RC-5014 Revision 7
SC		HarrisD	Prep1C 12/17/2007 4:53:34 PM	RICH-RC-5014 REVISION 7
SC		BockJ	InPrep2 12/20/2007 9:12:53 AM	RICH-RC-5014 REVISION 7
SC		AshworthA	Prep2C 12/24/2007 12:16:17 PM	RICH-RC-5014 REVISION 7
SC		ClarkR	InCnt1 12/24/2007 12:21:28 PM	RICH-RD-0003 REVISION 5
SC		DAWKINSO	CalcC 12/25/2007 1:26:35 PM	RICH-RD-0003 REVISION 5
AC		HarrisD	12/17/2007 4:53:34	
AC		BockJ	12/20/2007 9:12:53	Revision 7
AC		AshworthA	12/24/2007 12:16:17	
AC		ClarkR	12/24/2007 12:21:28	
AC		DAWKINSO	12/25/2007 1:26:35	

AC: Accepting Entry; SC: Status Change

1/14/2008 10:11:28 AM Balance Id:1120482733
 384868, Pacific Northwest National Laboratory BC Gross Beta PrpRC5014 Pipet #: 245
 Pacific Northwest National Lab S8 Gross Beta by GPC using Sr/Y-90 curve **PRIORITY**
 51 CLIENT: HANFORD Sep1 DT/Tm Tech: Sep2 DT/Tm Tech: Prep Tech: ,HarrisD *Barry G.*

AnalyDueDate: 12/31/2007 PM, Quote: SA, 57671
 Batch: 8014157 WATER pCi/L
 SEQ Batch, Test: None

Work Order, Lot, Sample Date/Time	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 KAVWX-3-AC J7K090108-2-SAMP 11/08/2007 12:33	200.00g.in	200.00g.in		1.5	104.6	100	28A	2023	1/14/0808	
2 KAVW1-3-AC J7K090108-3-SAMP 11/08/2007 11:07	200.00g.in	200.00g.in		123.4			32A	2023		
3 KAVW6-4-AC J7K090110-2-SAMP 11/08/2007 09:27	172.30g.in	172.30g.in		94.5			32C			
4 KAVW7-3-AC J7K090110-3-SAMP 11/08/2007 12:42	200.10g.in	200.10g.in		93.1			32D			
5 KAVW8-3-AC J7K090110-4-SAMP 11/08/2007 10:22	166.70g.in	166.70g.in		92.7			26A	2023		
6 KAVW9-3-AC J7K090110-5-SAMP 11/08/2007 11:52	126.40g.in	126.40g.in		97.1			26B			
7 KAVXD-3-AC J7K090110-6-SAMP 11/08/2007 13:34	192.30g.in	192.30g.in		99.5			26C			

1/14/2008 10:11:29 AM Balance Id: 1120482733
 384868, Pacific Northwest National Laboratory Pipet #:
 Pacific Northwest National Lab
Sample Preparation/Analysis BC Gross Beta PrpRC5014
S8 Gross Beta by GPC using Sr/Y-90 curve
 5I CLIENT: HANFORD 5I DT/Tm Tech: Sep1 DT/Tm Tech: Sep2 DT/Tm Tech:

Batch: 8014157 WATER PM, Quote: SA, 57671
 SEQ Batch, Test: None Prep Tech: ,HarrisD

Work Order, Lot, Sample Date Time	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 KAVXE-3-AC J7K090110-7-SAMP 11/08/2007 13:34	200.00g.in	1.5	104.6	100	26D	2023	27A	Alpha: 1.05E-03 uCi/Sa	1/14/0800	Beta: 1.70E-03 uCi/Sa
9 KAVXG-3-AC J7K090110-8-SAMP 11/08/2007 10:59	126.60g.in	109.6	27A	27A	27A	27A	Alpha: 1.13E-03 uCi/Sa	Alpha: 1.05E-03 uCi/Sa	Beta: 1.70E-03 uCi/Sa	Beta: 5.25E-04 uCi/Sa
10 KA335-1-AC-X J7K120212-1-DUP 11/12/2007 09:36	99.00g.in	141.2	200	200	200	0937	26B	Alpha: 2.30E-03 uCi/Sa	1/13/0805	Beta: 1.45E-03 uCi/Sa 6.2E-02L
11 KA335-4-AA J7K120212-1-SAMP 11/12/2007 09:36	99.10g.in	146.0	26B	26B	26B	26B	Alpha: 2.30E-03 uCi/Sa	Alpha: 2.30E-03 uCi/Sa	Beta: 1.45E-03 uCi/Sa	Beta: 6.2E-02L
12 KA34F-4-AC J7K120214-1-SAMP 11/12/2007 10:53	200.30g.in	112.8	100	100	27B	2023	27B	Alpha: 2.30E-03 uCi/Sa	1/14/0800	Beta: 1.45E-03 uCi/Sa 6.2E-02L
13 KA34M-3-AC J7K120214-2-SAMP 11/12/2007 12:06	200.10g.in	110.6	27D	27D	27D	27D	Alpha:	Alpha:	Beta:	Beta:
14 KA617-3-AC J7K130305-1-SAMP 11/13/2007 09:31	59.20g.in	104.1	200	200	26C	0937	26C	Alpha: 3.45E-06 uCi/Sa	1/13/0805	Beta: 3.71E-07 uCi/Sa

1/14/2008 10:11:30 AM Balance Id:1120482733
 384868, Pacific Northwest National Laboratory BC Gross Beta PrpRC5014 Pipet #: _____
 Pacific Northwest National Lab S8 Gross Beta by GPC using Sr/Y-90 curve
 51 CLIENT: HANFORD
 Analyze Date: 12/31/2007
 Batch: 8014157 WATER pCi/L PM, Quote: SA, 57671
 SEQ Batch, Test: None
 Sep1 DT/Tm Tech: _____
 Sep2 DT/Tm Tech: _____
 Prep Tech: ,HarrisD

Work Order, Lot, Sample Date Time	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 KA62C-3-AC J7K130305-2-SAMP 11/13/2007 12:13	60.90g.in	20ML,LP,4LP		1.5	44.1	200	260	0937	1/15/08	Beta: 8.19E-07 uCi/Sa
16 KA62F-3-AC J7K130305-3-SAMP 11/13/2007 10:54	61.30g.in	20ML,4XLP,4LP		104.7			31A			Beta: 1.65E-03 uCi/Sa
17 KA62K-3-AC J7K130305-4-SAMP 11/13/2007 10:54	58.40g.in	20ML,4XLP,4LP		98.9			31B			Beta: 7.91E-04 uCi/Sa
18 KCNPT-3-AA-B J7K200000-663-BLK 11/12/2007 10:53	200.10g.in	20ML,4XLP,4LP		0.2			31C			Beta:
19 KCNPT-3-AC-C J7K200000-663-LCS 11/12/2007 10:53	200.00g.in	BESB3198 11/27/07.pd		0.2			31D			Beta:

Comments: KAVW7-SAMP "Comments: insuff. volume for duplicate. DLH 12/27/07"
 PACO. Aliquots reduced due to weight screens. Out 1/14/08
 All Clients for Batch:
 384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA, 57671
 KAVWX3AC-SAMP Constituent List:
 Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 3
 Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added
 WO Cnt: 19
 Prep_SamplePrep v4.8.32

ICOC Fraction Transfer/Status Report

ByDate: 1/15/2007, 1/20/2008, Batch: '8014157', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
8014157				
AC	Rev1C	HarrisD	1/14/2008 9:04:20	
SC		harrisd	IsBatched	1/14/2008 8:59:35 AM
SC		HarrisD	InPrep	1/14/2008 9:04:20 AM
SC		HarrisD	Prep1C	1/14/2008 10:10:38 AM
SC		BockJ	InPrep2	1/14/2008 12:51:44 PM
SC		BockJ	Prep2C	1/14/2008 5:09:26 PM
SC		DAWKINSO	InCnt1	1/14/2008 5:34:42 PM
SC		BlackCL	CalcC	1/15/2008 10:10:57 AM
SC		nortonj	Rev1C	1/15/2008 12:15:57 PM
AC		HarrisD	1/14/2008 10:10:38	
AC		BockJ	1/14/2008 12:51:44	
AC		BockJ	1/14/2008 5:09:26 PM	
AC		DAWKINSO	1/14/2008 5:34:42 PM	Revision 5
AC		DAWKINSO	1/14/2008 5:35:02 PM	
AC		BlackCL	1/15/2008 10:10:57	
AC		nortonj	1/15/2008 12:15:57	

AC: Accepting Entry; SC: Status Change

12/21/2007 4:49:05 PM **Sample Preparation/Analysis** Balance Id: 1120373922, 1120373922, 1120373922, 1120
 384868, Pacific Northwest National Laboratory CL SR-90 Prp/SepRC5006(5071) Pipet #:
 Pacific Northwest National Lab TL SR-85 by NaI and SR-90 by GPC 7 day ingrowth
AnalyteDate: 12/31/2007 5I CLIENT: HANFORD Sep1 DT/Tm Tech: 12/14/2007 14:29, ManisD
 Batch: 7324671 WATER pCi/L PM, Quote: SA, 57671 Sep2 DT/Tm Tech: 12/21/2007 10:14, ManisD
 SEQ Batch, Test: None

Work Order, Lot, Sample Date Time	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:
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1 KAVXG-1-AG 1001.63g.in SRTB15686 12/07/07.pd 1.0 22.8 100 41A 1048 12/22/07
 J7K090110-8-SAMP 1001.63g.in SRTB15686 12/07/07.pd 1.0 22.8 100 41A 1130 12/23/07
 12/14/2007-14:29.st; 12/21/2007

11/08/2007 10:59 AmtRec: VIAL20,5XLP,3X4LP #Containers: 9 Scr: Alpha: 1.13E-03 uCi/Sa Beta: -5.25E-04 uCi/Sa
 2 KAVXG-1-AH-X 1001.56g.in SRTB15687 12/07/07.pd 1.0 22.6 100 41B 1048 12/22/07
 J7K090110-8-DUP 1001.56g.in SRTB15687 12/07/07.pd 1.0 22.6 100 41B 1130 12/23/07
 12/14/2007-14:29.st; 12/21/2007

11/08/2007 10:59 AmtRec: VIAL20,5XLP,3X4LP #Containers: 9 Scr: Alpha: 1.13E-03 uCi/Sa Beta: -5.25E-04 uCi/Sa
 3 KCNQ7-1-AA-B 1000.25g.in SRTB15689 12/07/07.pd 1.0 22.6 100 41C 1048 12/22/07
 J7K200000-671-BLK 1000.25g.in SRTB15689 12/07/07.pd 1.0 22.6 100 41C 1130 12/23/07
 12/14/2007-14:29.st; 12/21/2007

11/08/2007 10:59 AmtRec: VIAL20,5XLP,3X4LP #Containers: 1 Scr: Alpha: 1.13E-03 uCi/Sa Beta: -5.25E-04 uCi/Sa
 4 KCNQ7-1-ACC 1000.21g.in SRS1409 11/12/07.pd 1.0 21.7 100 41D 1048 12/22/07
 J7K200000-671-LCS 1000.21g.in SRS1409 11/12/07.pd 1.0 21.7 100 41D 1130 12/23/07
 12/14/2007-14:29.st; 12/21/2007

11/08/2007 10:59 AmtRec: #Containers: 1 Scr: Alpha: Beta:
 11/08/2007 10:59 AmtRec: #Containers: 1 Scr: Alpha: Beta:

11/08/2007 10:59 AmtRec: #Containers: 1 Scr: Alpha: Beta:
 11/08/2007 10:59 AmtRec: #Containers: 1 Scr: Alpha: Beta:

12/21/2007 4:49:06 PM **Sample Preparation/Analysis** Balance Id:1120373922,1120373922,1120373922,1120
 CL Sr-90 Prp/SepRC5006(5071) Pipet #: _____
 TL Sr-85 by NaI and Sr-90 by GPC 7 day ingrowth
 5I CLIENT: HANFORD
 AnalyzeDate: 12/31/2007
 Batch: 7324671
 SEQ Batch, Test: None

Prep Tech: ,ManisD
 Sep1 DT/Tm Tech: 12/14/2007 14:29,ManisD
 Sep2 DT/Tm Tech: 12/21/2007 10:14,ManisD

Work Order, Lot, Sample Date/Time	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:

Comments:

All Clients for Batch:											
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA, 57671											
KAVXG1AG-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
KCNQ71AA-BLK:	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:	UCL:	RPD:
KCNQ71AC-LCS:	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:70	UCL:130	RPD:20
KAVXG1AG-SAMP Calc Info:											
Uncert Level (#s) : 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B											
KCNQ71AA-BLK:											
Uncert Level (#s) : 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B											
KCNQ71AC-LCS:											
Uncert Level (#s) : 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B											
Approved By _____ Date: _____											

ICOC Fraction Transfer/Status Report

ByDate: 12/24/2006, 12/29/2007, Batch: '7324671', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
7324671				
AC	CalcC	WoodT	12/10/2007 9:04:29	
SC		wagarr	IsBatched	11/20/2007 4:11:51 PM
SC		WoodT	InPrep	12/10/2007 9:04:29 AM
SC		WoodT	Prep1C	12/10/2007 9:29:31 AM
SC		ManisD	InSep1	12/10/2007 9:33:10 AM
SC		ManisD	Sep1C	12/14/2007 3:28:31 PM
SC		DAWKINSO	InCnt1	12/14/2007 6:55:06 PM
SC		DAWKINSO	Cnt1C	12/14/2007 8:40:08 PM
SC		ManisD	Sep2C	12/21/2007 4:50:39 PM
SC		DAWKINSO	InCnt2	12/21/2007 5:25:24 PM
SC		DAWKINSO	CalcC	12/23/2007 2:22:05 PM
AC		WoodT	12/10/2007 9:29:31	ICOC_RADCALC v4.8.29
AC		ManisD	12/10/2007 9:33:10	RICH-RC-5016 Revision 7
AC		ManisD	12/14/2007 3:28:31	RICH-RC-5016 REVISION 7
AC		DAWKINSO	12/14/2007 6:55:06	RICH-RC-5006 REV 7
AC		DAWKINSO	12/14/2007 8:40:08	RICH-RC-5006 REV 7
AC		ManisD	12/21/2007 4:50:39	RICH-RD-0007 REVISION 6
AC		DAWKINSO	12/21/2007 5:25:24	RICH-RD-0007 REVISION 6
AC		DAWKINSO	12/23/2007 2:22:05	RICH-RC-5071 REV 5
AC		DAWKINSO	12/23/2007 2:22:05	RICH-RD-0003 REVISION 5

AC: Accepting Entry; SC: Status Change

12/27/2007 11:21:19 AM

Sample Preparation/Analysis

Balance Id: 1120482733

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab
AW Gamma PrpRC5017
TA Gamma by HPGE
5I CLIENT: HANFORD

Pipet #:

AnalyDueDate: 12/31/2007

Sep1 DT/Tm Tech:

Batch: 7324668 WATER

PM, Quote: SA, 57671

SEQ Batch, Test: None All Tests: 7324661 AZ57, 7324663 BCS8, 7324668 AWTB, 7361199 BCS8,

Sep2 DT/Tm Tech:

Prep Tech: HarrisD

Work Order, Lot, Sample Date Time	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 KAVWX-1-AD		2000.00g,in								
J7K090108-2-SAMP										
11/08/2007 12:33										
2 KAVW1-1-AD		1999.90g,in								
J7K090108-3-SAMP										
11/08/2007 11:07										
3 KAVW7-1-AD		1999.90g,in								
J7K090110-3-SAMP										
11/08/2007 12:42										
4 KAVW7-1-AE-X		1859.60g,in								
J7K090110-3-DUP										
11/08/2007 12:42										
5 KAVW8-1-AD		2000.10g,in								
J7K090110-4-SAMP										
11/08/2007 10:22										
6 KAVW9-1-AD		2000.30g,in								
J7K090110-5-SAMP										
11/08/2007 11:52										
7 KAVXD-1-AD		2000.10g,in								
J7K090110-6-SAMP										
11/08/2007 13:34										

12/27/2007 11:21:21 AM **Sample Preparation/Analysis** Balance Id:1120482733
 384868, Pacific Northwest National Laboratory, AW Gamma PrpRRC5017 Pipet #:
 Pacific Northwest National Lab TA Gamma by HPGE
AnalyteDueDate: 12/31/2007 5I CLIENT: HANFORD Sep1 DT/Tm Tech:
 PM, Quote: SA, 57671 Sep2 DT/Tm Tech:

Batch: 7324668 WATER pCi/L **Prep Tech: ,HarrisD**
 SEQ Batch, Test: None

Work Order, Lot, Sample Date/Time	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 KAVXE-1-AD J7K090110-7-SAMP 11/08/2007 13:34	1999.90g.in	VIAL20.5XLP,3X4LP	#Containers: 5	100ml	200	G13	1807	12/29/07		
9 KAVXG-1-AD J7K090110-8-SAMP 11/08/2007 10:59	2000.20g.in	VIAL20.5XLP,3X4LP	#Containers: 9			G10	1808			Beta: 1.70E-03 uCi/Sa
10 KA617-1-AD J7K130305-1-SAMP 11/13/2007 09:31	2000.00g.in	20ML,LP,4LP	#Containers: 3			G10	1809			Beta: -5.25E-04 uCi/Sa
11 KA62C-1-AD J7K130305-2-SAMP 11/13/2007 12:13	2000.00g.in	20ML,LP,4LP	#Containers: 3			G4	1021	12/29/07		Beta: -3.71E-07 uCi/Sa
12 KA62F-1-AD J7K130305-3-SAMP 11/13/2007 10:54	1999.90g.in	20ML,4XLP,4LP	#Containers: 6			G5	1023			Beta: 8.19E-07 uCi/Sa
13 KA62K-1-AD J7K130305-4-SAMP 11/13/2007 10:54	2000.10g.in	20ML,4XLP,4LP	#Containers: 6			G7	1023			Beta: 1.65E-03 uCi/Sa
14 KCNP6-1-AA-B J7K200000-668-BLK 11/08/2007 12:42	2000.50g.in	20ML,4XLP,4LP	#Containers: 6			G10	1024			Beta: 7.91E-04 uCi/Sa
			#Containers: 1							Beta:

12/27/2007 11:21:23 AM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #:

AnalyseDate: 12/31/2007

Sep1 DT/Tm Tech:

Batch: 7324668

pCi/L

Sep2 DT/Tm Tech:

Prep Tech: ,HarrisD

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

Approved By

Date:

ICOC Fraction Transfer/Status Report

ByDate: 12/31/2006, 1/5/2008, Batch: '7324668', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
7324668				
AC	CalcC	HarrisD	12/27/2007 10:12:16	
SC		wagarr	IsBatched	11/20/2007 4:11:51 PM
SC		HarrisD	InPrep	12/27/2007 10:12:16 AM
SC		HarrisD	Prep1C	12/27/2007 11:21:29 AM
SC		BockJ	InPrep2	12/27/2007 12:18:43 PM
SC		BockJ	Prep2C	12/29/2007 11:56:22 AM
SC		DAWKINSO	InCnt1	12/29/2007 1:16:11 PM
SC		ClarkR	CalcC	12/31/2007 12:16:57 PM
AC		HarrisD	12/27/2007 11:21:29	
AC		BockJ	12/27/2007 12:18:43	
AC		BockJ	12/29/2007 11:56:22	
AC		DAWKINSO	12/29/2007 1:16:11	
AC		ClarkR	12/31/2007 12:16:57	

AC: Accepting Entry; SC: Status Change

12/26/2007 7:40:02 AM **Sample Preparation/Analysis** Balance Id: 2113224201
 384868, Pacific Northwest National Laboratory, BN I-129 Prp/SepRC5025 Pipet #: _____
 Pacific Northwest National Lab TB Gamma by LEPD
Analyte Due Date: 12/31/2007 W05265 5I CLIENT: HANFORD Sep1 DT/Tm Tech: _____
 PM, Quote: SA, 57671 Sep2 DT/Tm Tech: _____

Batch: 7324670 WATER pCi/L Prep Tech: , BostedD
 SEQ Batch, Test: None All Tests: 7324670 BNTB,

Work Order, Lot, Sample Date/Time	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 KAVDV-1-AA J7K080383-1-SAMP 11/08/2007 10:22	3900.10g,in	ITA6838 12/06/07	AmiRec: VIAL20,2X4LP #Containers: 3	36.8	L4	1741	12/27/07 0749	Alpha: -6.47E-04 uCi/Sa Beta: 1.05E-03 uCi/Sa		
2 KAVDV-1-AC-X J7K080383-1-DUP 11/08/2007 10:22	3884.20g,in	ITA6839 12/06/07	AmiRec: VIAL20,2X4LP #Containers: 3	37.2	L5	1741		Alpha: -6.47E-04 uCi/Sa Beta: 1.05E-03 uCi/Sa		
3 KAVDW-1-AA J7K080383-2-SAMP 11/08/2007 09:27	3892.00g,in	ITA6840 12/06/07	AmiRec: VIAL20,2X4LP #Containers: 3	35.9	L2	1742		Alpha: -6.47E-04 uCi/Sa Beta: 1.05E-03 uCi/Sa		
4 KAVWW-1-AA J7K090108-1-SAMP 11/08/2007 09:35	3897.60g,in	ITA6841 12/06/07	AmiRec: VIAL20,2X4LP #Containers: 3	36.0	L2	1915		Alpha: -2.78E-04 uCi/Sa Beta: 1.31E-03 uCi/Sa		
5 KAVW1-1-AE J7K090108-3-SAMP 11/09/2007 11:07	3941.90g,in	ITA6842 12/06/07	AmiRec: VIAL20,LP,3X4LP #Containers: 5	37.7	L4	1926		Alpha: 9.48E-04 uCi/Sa Beta: -4.19E-04 uCi/Sa		
6 KAVW4-1-AA J7K090110-1-SAMP 11/09/2007 10:21	3911.30g,in	ITA6843 12/06/07	AmiRec: VIAL20,2X4LP #Containers: 3	36.7	L5	2109		Alpha: -4.41E-03 uCi/Sa Beta: 3.24E-03 uCi/Sa		
7 KAVW9-1-AE J7K090110-5-SAMP 11/08/2007 11:52	3905.80g,in	ITA6844 12/06/07	AmiRec: VIAL20,LP,3X4LP #Containers: 5	35.8	L2	2109		Alpha: 1.77E-03 uCi/Sa Beta: -9.37E-04 uCi/Sa		

12/26/2007 7:40:09 AM **Sample Preparation/Analysis** Balance Id: 2113224201
 384868, Pacific Northwest National Laboratory, BN I-129 Prp/SepRC5025 Pipet #: _____
 Pacific Northwest National Lab TB Gamma by LEPD
 Analyze Date: 12/31/2007 51 CLIENT: HANFORD Sep1 DT/Tm Tech: _____
 Batch: 7324670 WATER pCi/L PM, Quote: SA, 57671 Sep2 DT/Tm Tech: _____
 SEQ Batch, Test: None Prep Tech: BostedqD

Work Order, Lot, Sample Date/Time	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 KAVXD-1-AE J7K090110-6-SAMP 11/08/2007 13:34	3896.80g.in	IT A6845 12/06/07	12/06/07	#Containers: 5	35.9	100	L4	2110	12/27/0900	Beta: 2.68E-03 uCi/Sa
9 KAVXE-1-AE J7K090110-7-SAMP 11/08/2007 13:34	3947.90g.in	IT A6846 12/06/07	12/06/07	#Containers: 5	36.1		L5			Beta: 1.98E-03 uCi/Sa
10 KAVXG-1-AE J7K090110-8-SAMP 11/08/2007 13:34	3890.00g.in	IT A6847 12/06/07	12/06/07	#Containers: 5	35.3		L2	2250		Beta: 1.70E-03 uCi/Sa
11 KCNQG-1-AA-B J7K200000-670-BLK 11/08/2007 10:22	3859.10g.in	IT A6848 12/06/07	12/06/07	#Containers: 9	34.5		L4	2250		Beta: -5.25E-04 uCi/Sa
12 KCNQG-1-AC-C J7K200000-670-LCS 11/08/2007 10:22	3903.10g.in	ISD0796 11/27/07	11/27/07	#Containers: 1	36.4		L5	2257		Beta: _____

Comments:

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

KAVDV1AA-SAMP Constituent List:
 I-129 RDL: 1.00E+00 pCi/L LCL: _____ UCL: _____ RPD: _____

9 A Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 2
 Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added
 WO Cnt: 12
 Prep_SamplePrep v4.8.29

12/26/2007 7:40:12 AM

Sample Preparation/Analysis

Balance Id:2113224201

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

Pipet #:

AnalyDueDate: 12/31/2007

Sep1 DT/Tm Tech:

Batch: 7324670

pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BostedID

Work Order, Lot, Sample Date/Time	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:
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KCNQQ1AA-BLK:

I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:

KCNQQ1AC-LCS:

I-129 RDL:5 pCi/L LCL:70 UCL:130 RPD:20

KAVDV1AA-SAMP Calc Info:

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

KCNQQ1AA-BLK:

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

KCNQQ1AC-LCS:

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

Approved By

Date:

ICOC Fraction Transfer/Status Report

ByDate: 12/28/2006, 1/2/2008, Batch: '7324670', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
7324670				
AC	CalcC	BostedD	12/27/2007 3:54:40	
SC		wagarr	IsBatched	11/20/2007 4:11:51 PM
SC		BostedD	Prep2C	12/27/2007 3:54:40 PM
SC		DAWKINSO	InCnt1	12/27/2007 4:05:02 PM
SC		ClarkR	CalcC	12/28/2007 8:29:40 AM
AC		DAWKINSO		12/27/2007 4:05:02
AC		ClarkR		12/28/2007 8:29:40

AC: Accepting Entry; SC: Status Change

12/11/2007 7:56:49 AM
 384868, Pacific Northwest National Laboratory
 Pacific Northwest National Lab
 Analyte: AM Tc-99 Prp/SepRC5078
 S5 Technetium-99 by Liquid Scint
 5I CLIENT: HANFORD
 Balance Id: 1120373922
 Pipet #: _____
 Sep1 DT/Tm Tech: _____
 Sep2 DT/Tm Tech: _____

Batch: 7324646 WATER pCi/L PM, Quote: SA, 57671
 SEQ Batch, Test: None
 Prep Tech: ,Barcott

Work Order, Lot, Sample Date/Time	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 KA62F-1-AE J7K130305-3-SAMP 11/13/2007 10:54	125.03g,in	20ML,4XLP,4LP #Containers: 6						Beta: 1.65E-03 uCi/Sa
2 KA62F-1-AF-X J7K130305-3-DUP 11/13/2007 10:54	125.03g,in	20ML,4XLP,4LP #Containers: 6						Beta: 1.65E-03 uCi/Sa
3 KA62K-1-AE J7K130305-4-SAMP 11/13/2007 10:54	125.02g,in	20ML,4XLP,4LP #Containers: 6						Beta: 7.91E-04 uCi/Sa
4 KA62K-1-AF-S J7K130305-4-MS 11/13/2007 10:54	125.03g,in	20ML,4XLP,4LP #Containers: 6	TCSG1936 11/20/07,pd 01/10/06					Beta: 7.91E-04 uCi/Sa
5 KCNMA-1-AA-B J7K200000-646-BLK 11/13/2007 10:54	125.03g,in	20ML,4XLP,4LP #Containers: 1						Beta:
6 KCNMA-1-AC-C J7K200000-646-LCS 11/13/2007 10:54	125.04g,in	20ML,4XLP,4LP #Containers: 1	TCSE2181 11/20/07,pd 01/10/06					Beta:
7 KCNMA-1-AD-BN J7K200000-646-BLK 11/13/2007 10:54		20ML,4XLP,4LP #Containers: 1						Beta:

12/11/2007 7:56:50 AM

Sample Preparation/Analysis

Balance Id: _____

AM Tc-99 Prp/SepRC5078

Pipet #: _____

S5 Technetium-99 by Liquid Scint

AnalyDueDate: 12/31/2007

Sep1 DT/Tm Tech: _____

Batch: 7324646

pCi/L

Sep2 DT/Tm Tech: _____

SEQ Batch, Test: None

Prep Tech: _____



Work Order, Lot, Sample Date/Time	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:
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Comments:

All Clients for Batch:

384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA, 57671

KA62FLAE-SAMP Constituent List:

TC-99 RDL:1.50E+01 pCi/L LCL:70 UCL:130 RPD:20

KA62KIAF-MS:

KCNMALAA-BLK: TC-99 RDL:1.50E+01 pCi/L LCL: UCL: RPD:

KCNMALAC-LCS: TC-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20

KCNMALAD-IBLK: TC-99 RDL:1.50E+01 pCi/L LCL: UCL: RPD:

KA62FLAE-SAMP Calc Info:

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

KA62KIAF-MS: Uncert Level (#s): 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

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

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

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

Approved By _____ Date: _____

ICOC Fraction Transfer/Status Report

ByDate: 12/31/2006, 1/5/2008, Batch: '7324646', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
7324646				
AC		CalcC	Barcotl	12/11/2007 7:59:47
SC		wagarr	IsBatched	11/20/2007 4:11:51 PM
SC		Barcotl	InPrep	12/11/2007 7:59:47 AM
SC		Barcotl	Prep1C	12/11/2007 8:00:03 AM
SC		FABREM	Sep1C	12/19/2007 6:37:11 PM
SC		DAWKINSO	InCnt1	12/19/2007 7:45:54 PM
SC		BlackCL	CalcC	12/20/2007 12:50:50 PM
AC		Barcotl		12/11/2007 8:00:03
AC		FABREM		12/19/2007 6:37:11
AC		DAWKINSO		12/19/2007 7:45:54
AC		BlackCL		12/20/2007 12:50:50

AC: Accepting Entry; SC: Status Change



RE-COUNT REQUEST

DUE DATE 12-31

CUSTOMER PGW

ANALYSIS N: 63

MATRIX H₂O

LOT NUMBER J7K090110

SAMPLE DELIVERY GROUP _____

OLD BATCH NUMBER 7324672

NEW BATCH NUMBER 8002374

LAB SAMPLE ID	CLIENT ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1) KCNRL ¹⁰¹² N	PGW	TSIE OUT / NO CARRIER IN N BLK
2) KAVXG _{IAF}	↓	
3) KAVXG _{IAJ R}		
4) KCNRC _{IAA B}		
5) KCNRC _{IAc S}		
6)		
7)		
8)		
9)		
10)		
11)		
12)		
13)		
14)		
15)		
16)		
17)		
18)		
19)		
20)		

1/2/2008 2:00:58 PM **Sample Preparation/Analysis** Balance Id: _____ Pipet #: _____
 384868, Pacific Northwest National Laboratory AA Ni-63 PrpRC5016, SepRC5069
 Pacific Northwest National Lab S4 Nickel by ICP and Nickel-63 by Liquid Scint
 AnalyzeDate: 12/31/2007 5I CLIENT: HANFORD Sep1 DT/Tm Tech: _____
 Batch: 8002374 WATER pCi/L PM, Quote: SA, 57671 Sep2 DT/Tm Tech: _____
 SEQ Batch, Test: None

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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1 KAVXG-2-AF
 J7K090110-8-SAMP
 11/08/2007 10:59
 AmtRec: VIAL20,5XLP,3X4LP #Containers: 9
 Scr: Alpha: 1.13E-03 uCi/Sa Beta: -5.25E-04 uCi/Sa

2 KAVXG-2-AJ-X
 J7K090110-8-DJUP
 11/08/2007 10:59
 AmtRec: VIAL20,5XLP,3X4LP #Containers: 9
 Scr: Alpha: 1.13E-03 uCi/Sa Beta: -5.25E-04 uCi/Sa

3 KCNRC-2-AA-B
 J7K200000-672-BLK
 11/08/2007 10:59
 AmtRec: _____ #Containers: 1
 Scr: Alpha: _____ Beta: _____

4 KCNRC-2-AC-C
 J7K200000-672-LCS
 11/08/2007 10:59
 AmtRec: _____ #Containers: 1
 Scr: Alpha: _____ Beta: _____

5 KCNRC-2-AD-B
 J7K200000-672-BLK
 11/08/2007 10:59
 AmtRec: _____ #Containers: 1
 Scr: Alpha: _____ Beta: _____

Comments:

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

KAVXG2AF-SAMP Constituent List:

1A Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1
 4 Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Page 1

WO Cnt: 5
 ICOC v4.8.29

1/2/2008 2:00:58 PM

Sample Preparation/Analysis

AA Ni-63 PrpRC5016, SepRC5069

S4 Nickel by ICP and Nickel-63 by Liquid Scint

5I CLIENT: HANFORD

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

Batch: 8002374

pCi/L

SEQ Batch, Test: None

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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KCNRC2AA-BLK:

KCNRC2AC-LCS:

KCNRC2AD-BLK:

KAVXG2AF-SAMP Calc Info:

Uncert Level (#s): 2

KCNRC2AA-BLK:

Uncert Level (#s): 2

KCNRC2AC-LCS:

Uncert Level (#s): 2

KCNRC2AD-BLK:

Uncert Level (#s): 2

Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B

Approved By _____

Date: _____

FA Richland

Richland Wa.

Key: In - Initial Amt, f1 - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2

pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

Page 2

ISV - Insufficient Volume for Analysis

WO Cnt: 5

ICOC v4.8.29

1/4/2008 10:53:05 AM

ICOC Fraction Transfer/Status Report

ByDate: 1/4/2007, 1/9/2008, Batch: '8002374', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
8002374				
AC	Rev1C	DAWKINSO	1/2/2008 2:56:08 PM	
SC		nortonj	IsBatched	1/2/2008 2:00:55 PM
SC		DAWKINSO	InCnt1	1/2/2008 2:56:08 PM
SC		BlackCL	CalcC	1/4/2008 7:31:24 AM
SC		nortonj	Rev1C	1/4/2008 10:45:36 AM
AC		BlackCL	1/4/2008 7:31:24 AM	
AC		nortonj	1/4/2008 10:45:36	

AC: Accepting Entry; SC: Status Change