

Analytical Data Package Prepared For

Fluor Hanford

Radiochemical Analysis By

TestAmerica TARL

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

Data Package Contains _____ Pages

Report Nbr: 39342

RECEIVED JUNE 23, 2008

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05397	S08-004	B1TWL2	J8E070119-1	KMNGQ1AA	9KMNGQ10	8134525
		B1TWL2	J8E070119-1	KMNGQ1AC	9KMNGQ10	8134511
		B1TWL2	J8E070119-1	KMNGQ1AD	9KMNGQ10	8134517
		B1TWL3	J8E070119-2	KMNGT1AA	9KMNGT10	8134525
		B1TWL3	J8E070119-2	KMNGT1AC	9KMNGT10	8134511
		B1TWL3	J8E070119-2	KMNGT1AD	9KMNGT10	8134517
		B1TWK1	J8E070119-3	KMNGV1AA	9KMNGV10	8134525
		B1TWK1	J8E070119-3	KMNGV1AC	9KMNGV10	8134510
		B1TWK1	J8E070119-3	KMNGV1AD	9KMNGV10	8134511
		B1TWK1	J8E070119-3	KMNGV1AE	9KMNGV10	8134513
		B1TWK1	J8E070119-3	KMNGV1AF	9KMNGV10	8134524
		B1TWK1	J8E070119-3	KMNGV1AG	9KMNGV10	8134523
		B1TWK5	J8E070119-4	KMNG91AA	9KMNG910	8134525
		B1TWK5	J8E070119-4	KMNG91AC	9KMNG910	8134510
		B1TWK5	J8E070119-4	KMNG91AD	9KMNG910	8134511

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 JAN 29 2009
EDMC

Comments:

0080012

Report Nbr: 39342

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05397	S08-004	B1TWK5	J8E070119-4	KMNG91AE	9KMNG910	8134513
		B1TWK5	J8E070119-4	KMNG91AF	9KMNG910	8134524
		B1TWK5	J8E070119-4	KMNG91AG	9KMNG910	8134523
	W08-005	B1V891	J8E070363-1	KMQPA1AA	9KMQPA10	8134526
		B1V896	J8E070363-2	KMQPD1AA	9KMQPD10	8134526
		B1V8B1	J8E070363-3	KMQPF1AA	9KMQPF10	8134526
		B1V8B6	J8E070363-4	KMQPJ1AA	9KMQPJ10	8134526
		B1V8C1	J8E070363-5	KMQPN1AA	9KMQPN10	8134526
	S08-003	B1TKC4	J8E070369-1	KMQQ01AA	9KMQQ010	8134510
		B1TKC4	J8E070369-1	KMQQ01AC	9KMQQ010	8134511
		B1TKC5	J8E070369-2	KMQQ31AA	9KMQQ310	8134510
		B1TKC5	J8E070369-2	KMQQ31AC	9KMQQ310	8134511
		B1TK86	J8E070369-3	KMQQ51AA	9KMQQ510	8134523
	I08-007	B1R2W3	J8E070372-1	KMQQ81AA	9KMQQ810	8134516
	S08-001	B1RTM4	J8E070373-1	KMQR31AA	9KMQR310	8134510
		B1RTM4	J8E070373-1	KMQR31AC	9KMQR310	8134511
		B1RTM4	J8E070373-1	KMQR31AD	9KMQR310	8134513
		B1RTM4	J8E070373-1	KMQR31AE	9KMQR310	8134517
		B1RTM9	J8E070373-2	KMQR61AA	9KMQR610	8134510
		B1RTM9	J8E070373-2	KMQR61AC	9KMQR610	8134511
		B1RTM9	J8E070373-2	KMQR61AD	9KMQR610	8134513
		B1RTM9	J8E070373-2	KMQR61AE	9KMQR610	8134517
	G08-004	B1TVP9	J8E080325-1	KMT8C1AA	9KMT8C10	8134511
		B1TVR1	J8E080325-2	KMT8K1AA	9KMT8K10	8134511
		B1TVR3	J8E080325-3	KMT8N1AA	9KMT8N10	8134511
	S08-004	B1TWM0	J8E080353-1	KMVGX1AA	9KMVGX10	8134510

Comments:

Report Nbr: 39342

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05397	S08-004	B1TWM0	J8E080353-1	KMVGX1AC	9KMVGX10	8134511
		B1TWM0	J8E080353-1	KMVGX1AD	9KMVGX10	8134513
		B1TWM0	J8E080353-1	KMVGX1AE	9KMVGX10	8134516

Comments:

Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

June 23, 2008

Attention: Steve Trent

SAF Number : S08-004, W08-005, S08-003, I08-007, S08-001,
G08-004
Date SDG Closed : May 8, 2008
Number of Samples : Twenty (20)
Sample Type : Water
SDG Number : W05397
Data Deliverable : 45-Day / Summary

CASE NARRATIVE

I. Introduction

Between May 6, 2008 and May 8, 2008 twenty water samples were received at STL Richland (STLR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Fluor Hanford specific IDs:

<u>PGW ID#</u>	<u>STLR ID#</u>	<u>DATE OF RECEIPT</u>	<u>MATRIX</u>
B1TWL2	KMNGQ	5/06/08	WATER
B1TWL3	KMNGT	5/06/08	WATER
B1WK1	KMNGV	5/06/08	WATER
B1WK5	KMNG9	5/06/08	WATER
B1V891	KMQPA	5/07/08	WATER
B1V896	KMQPD	5/07/08	WATER
B1V8B1	KMQPF	5/07/08	WATER
B1V8B6	KMQPJ	5/07/08	WATER
B1V8C1	KMQPN	5/07/08	WATER
B1TXB3	KMQP2	5/07/08	WATER
B1TKC4	KMQQ0	5/07/08	WATER
B1TKC5	KMQQ3	5/07/08	WATER
B1TK86	KMQQ5	5/07/08	WATER

Fluor Hanford
June 23, 2008

B1R2W3	JMQQ8	5/07/08	WATER
B1RTM4	KMQR3	5/07/08	WATER
B1RTM9	KMQR6	5/07/08	WATER
B1TVP9	KMT8C	5/08/08	WATER
B1TVR1	KMT8K	5/08/08	WATER
B1TVR3	KMT8N	5/08/08	WATER
B1TWM0	KMVGX	5/08/08	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

Enriched Tritium by method RICH-RC-5024

Technetium-99 by TEVA method RICH-RC-5065

Tritium by method RICH-RC-5007

Laser Induced Phosphorimetry

Total Uranium by method RICH-RC-5058

Chemical Analysis

Total Coliform by method 9223

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 B1TWK5, B1RTM9, B1TWM0 and B1TWM0 DUP were analyzed with reduced aliquots based on weight screens. Except as noted, the LCS, batch blank, samples and sample duplicate (B1TWM0) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:

Samples B1TWK5 and B1RTM9 DUP were analyzed with reduced aliquots based on weight screens. Except as noted, the LCS, batch blank, samples and sample duplicate (B1TKC4) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006

The LCS, batch blank, samples and sample duplicate (B1F9D9) results are within contractual requirements.

Gamma Spectroscopy

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

There was insufficient volume for a duplicate. Sample B1TWK1 was recounted on a different detector for the duplicate (B1TWK1 DUP). Except as noted, the LCS, batch blank, samples and sample duplicate (B1TWK1) results are within contractual requirements.

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

The LCS, batch blank, samples and sample duplicate (B1R2W3) results are within contractual requirements.

Liquid Scintillation Counting

Technetium-99 by TEVA method RICH-RC-5065:

The LCS, batch blank, samples, sample duplicate (B1TWK1), and sample matrix spike (B1TWK5) results are within contractual requirements.

Tritium by method RICH-RC-5007:

The LCS, batch blank, samples and sample duplicate (B1TWK5) results are within contractual requirements.

Enriched Tritium by method RICH-RC-5024

TestAmerica Richland proposed to report W05397 without the enriched tritium results on June 6, 2008. The client was contacted again by email on June 20, 2008. Monday, June 23, 2008 the client was contacted and asked about the status of the signed issue resolution form. Dana Widrig informed TestAmerica Richland to report the data package without the signed issue resolution form.

Total Uranium

Total Uranium by method RICH-RC-5058:

The LCS, batch blank, samples, sample duplicate (B1TWK1), and sample matrix spike (B1TWK5) results are within contractual requirements.

Fluor Hanford
June 23, 2008

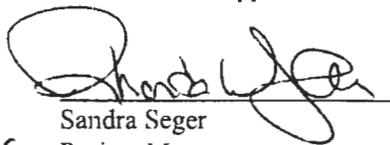
Chemical Analysis

Total Coliform by method 9223

The LCS, batch blank, samples and sample duplicate (B1V891) results are within contractual requirements.

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

Reviewed and approved:



Sandra Seger
Project Manager

Wagar, Rhonda

From: Wagar, Rhonda
Sent: Friday, June 20, 2008 10:29 AM
To: 'Heidi_Hampt@rl.gov'
Cc: 'Widrig, Dana L'; 'Trent, Stephen J'
Subject: FW: W05397 IRF (Due 6/23/08) (IRF for H3EE)

Attachments: IRFW05397.DOC

Hello,

Just checking on this IRF for SDG W05397. I have all of the data and can report it today.

Thanks:)

Rhonda

From: Seger, Sandra
Sent: Monday, June 02, 2008 7:42 AM
To: Hampt, Heidi
Cc: Widrig, Dana L; Felmy, Diana; ^CPP Sample Management; Trent, Stephen J; Thompson, Christopher J; Wagar, Rhonda
Subject: W05397 IRF (Due 6/23/08) (IRF for H3EE)

This is the last H3EE IRF I'm sending today. This takes us out until 6/23/08. We will see how the enrichment process is going at that time.

Once we get back to running samples, we will need to discuss a schedule. Will you want the oldest samples ran first or ? Something to think about and we can discuss this later.

Thanks Again,
Sandra



IRFW05397.DOC
(59 KB)

Drinking Water Method Cross References

DRINKING WATER ASTM METHOD CROSS REFERENCES		
Referenced Method	Isotope(s)	TestAmerica Richland's SOP No.
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

Results in this report relate only to the sample(s) analyzed.

Uncertainty Estimation

TestAmerica 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, $R = \text{constants} * f(x,y,z,\dots)$. 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 <i>greater</i> 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 TestAmerica.
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 TestAmerica "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%. $Lc = (1.645 * \text{Sqrt}(2 * (\text{BkgmdCnt}/\text{BkgmdCntMin})/\text{SCntMin})) * (\text{ConvFct}/(\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol})) * \text{IngrFct}$. 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%. $MDC = (4.65 * \text{Sqrt}((\text{BkgmdCnt}/\text{BkgmdCntMin})/\text{SCntMin}) + 2.71/\text{SCntMin}) * (\text{ConvFct}/(\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol})) * \text{IngrFct}$. 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 = $(S-D)/[\text{sqrt}(\text{TPUs}^2 + \text{TPUd}^2)]$ 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 TestAmerica 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.

6/23/2008 2:05:37 PM

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 39342 File Name: h:\Reportdb\ledd\Fead\VRad\W05397.Edd, h:\Reportdb\ledd\Fead\VRad\39342.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:				
9KMNG910	B1TWK5		MW6-SBB-A1	S08-004	W05397					05/06/2008 11:04				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8134525	H-3	10028-17-8	7.55E+02	pCi/L	1.3E+02	1.5E+02		2.50E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/04/2008 18:56	I
8134510	ALPHA	12587-46-1	3.29E+00	pCi/L	1.7E+00	1.8E+00		1.93E+00	100.0	9310_ALPHABETA	1.191E-01	L	06/11/2008 15:54	I
8134511	BETA	12587-47-2	6.33E+02	pCi/L	1.3E+01	8.1E+01		3.47E+00	100.0	9310_ALPHABETA	1.693E-01	L	06/11/2008 14:27	I
8134513	BE-7	13966-02-4	-1.54E+00	pCi/L	1.8E+01	1.8E+01	U	3.13E+01		GAMMALL_GS	2.0001E+00	L	06/11/2008 10:12	I
8134513	CO-60	10198-40-0	6.66E+00	pCi/L	3.6E+00	3.6E+00		3.18E+00		GAMMALL_GS	2.0001E+00	L	06/11/2008 10:12	I
8134513	CS-134	13967-70-9	1.05E+00	pCi/L	1.8E+00	1.8E+00	U	3.46E+00		GAMMALL_GS	2.0001E+00	L	06/11/2008 10:12	I
8134513	CS-137	10045-97-3	-7.89E-02	pCi/L	1.7E+00	1.7E+00	U	3.03E+00		GAMMALL_GS	2.0001E+00	L	06/11/2008 10:12	I
8134513	EU-152	14683-23-9	7.41E-01	pCi/L	4.2E+00	4.2E+00	U	7.51E+00		GAMMALL_GS	2.0001E+00	L	06/11/2008 10:12	I
8134513	EU-154	15585-10-1	1.00E-01	pCi/L	3.9E+00	3.9E+00	U	7.58E+00		GAMMALL_GS	2.0001E+00	L	06/11/2008 10:12	I
8134513	EU-155	14391-16-3	1.06E+00	pCi/L	2.9E+00	2.9E+00	U	5.33E+00		GAMMALL_GS	2.0001E+00	L	06/11/2008 10:12	I
8134513	K-40	13966-00-2	2.32E+01	pCi/L	3.4E+01	3.4E+01	U	2.40E+01		GAMMALL_GS	2.0001E+00	L	06/11/2008 10:12	I
8134513	RU-106	13967-48-1	-1.02E+00	pCi/L	1.4E+01	1.4E+01	U	2.42E+01		GAMMALL_GS	2.0001E+00	L	06/11/2008 10:12	I
8134513	SB-125	14234-35-6	2.12E-01	pCi/L	4.0E+00	4.0E+00	U	7.10E+00		GAMMALL_GS	2.0001E+00	L	06/11/2008 10:12	I
8134524	TC-99	14133-76-7	2.55E+03	pCi/L	2.7E+01	1.6E+02		9.18E+00	100.0	TC99_ETVDSK_LS	1.2535E-01	L	06/03/2008 05:58	I
8134523	Uranium	7440-61-1	4.64E+00	ug/L	4.7E-01	4.7E-01		8.32E-02		UTOT_KPA	2.52E-02	ML	06/12/2008 15:12	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:				
9KMNGQ10	B1TWL2		MW6-SBB-A1	S08-004	W05397					05/06/2008 13:03				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8134525	H-3	10028-17-8	7.78E+00	pCi/L	1.0E+02	1.1E+02	U	2.48E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/04/2008 21:40	I
8134511	BETA	12587-47-2	3.05E+02	pCi/L	8.2E+00	4.2E+01		3.15E+00	100.0	9310_ALPHABETA	2.003E-01	L	06/11/2008 14:27	I
8134517	SR-90	10098-97-2	1.81E+02	pCi/L	3.7E+00	2.6E+01		1.08E+00	46.2	SRISO_SEP_PRE	1.0011E+00	L	06/15/2008 06:01	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:				
9KMNGT10	B1TWL3		MW6-SBB-A1	S08-004	W05397					05/06/2008 13:03				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8134525	H-3	10028-17-8	-6.78E+01	pCi/L	9.9E+01	1.1E+02	U	2.48E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/04/2008 23:02	I
8134511	BETA	12587-47-2	3.18E+02	pCi/L	8.4E+00	4.2E+01		2.85E+00	100.0	9310_ALPHABETA	2.002E-01	L	06/11/2008 14:27	I
8134517	SR-90	10098-97-2	1.63E+02	pCi/L	3.7E+00	2.4E+01		1.54E+00	41.5	SRISO_SEP_PRE	1.0025E+00	L	06/15/2008 06:01	I

TestAmerica

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 (CRDI).

B Qual- Analyte was found in the associated laboratory blank above the MDC.

/

6/23/2008 2:05:37 PM

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 39342 File Name: h:\Reportdb\edd\Fead\VRad\W05397.Edd, h:\Reportdb\edd\Fead\VRad\39342.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:				
9KMNGV10	B1TWK1		MW6-SBB-A1	S08-004	W05397					05/06/2008 09:56				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8134525	H-3	10028-17-8	1.39E+02	pCi/L	1.1E+02	1.2E+02	U	2.50E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/05/2008 00:24	I
8134510	ALPHA	12587-46-1	1.28E+00	pCi/L	1.1E+00	1.2E+00	U	1.71E+00	100.0	9310_ALPHABETA	1.924E-01	L	06/11/2008 14:23	I
8134511	BETA	12587-47-2	3.74E+01	pCi/L	3.1E+00	5.7E+00		2.74E+00	100.0	9310_ALPHABETA	2.002E-01	L	06/11/2008 14:27	I
8134513	BE-7	13966-02-4	-3.99E+00	pCi/L	1.5E+01	1.5E+01	U	2.61E+01		GAMMALL_GS	2.00E+00	L	06/11/2008 10:12	I
8134513	CO-60	10198-40-0	9.19E-01	pCi/L	1.4E+00	1.4E+00	U	2.68E+00		GAMMALL_GS	2.00E+00	L	06/11/2008 10:12	I
8134513	CS-134	13967-70-9	1.22E+00	pCi/L	1.3E+00	1.3E+00	U	2.52E+00		GAMMALL_GS	2.00E+00	L	06/11/2008 10:12	I
8134513	CS-137	10045-97-3	-5.82E-02	pCi/L	1.3E+00	1.3E+00	U	2.33E+00		GAMMALL_GS	2.00E+00	L	06/11/2008 10:12	I
8134513	EU-152	14683-23-9	2.78E+00	pCi/L	3.5E+00	3.5E+00	U	6.34E+00		GAMMALL_GS	2.00E+00	L	06/11/2008 10:12	I
8134513	EU-154	15585-10-1	-3.11E+00	pCi/L	4.0E+00	4.0E+00	U	6.50E+00		GAMMALL_GS	2.00E+00	L	06/11/2008 10:12	I
8134513	EU-155	14391-16-3	-7.27E-01	pCi/L	2.7E+00	2.7E+00	U	4.69E+00		GAMMALL_GS	2.00E+00	L	06/11/2008 10:12	I
8134513	K-40	13966-00-2	1.32E+01	pCi/L	2.4E+01	2.4E+01	U	2.21E+01		GAMMALL_GS	2.00E+00	L	06/11/2008 10:12	I
8134513	RU-106	13967-48-1	2.86E+00	pCi/L	1.3E+01	1.3E+01	U	2.28E+01		GAMMALL_GS	2.00E+00	L	06/11/2008 10:12	I
8134513	SB-125	14234-35-6	1.19E+00	pCi/L	3.4E+00	3.4E+00	U	6.05E+00		GAMMALL_GS	2.00E+00	L	06/11/2008 10:12	I
8134524	TC-99	14133-76-7	1.06E+02	pCi/L	6.7E+00	1.1E+01		9.18E+00	100.0	TC99_ETVDSK_LS	1.2546E-01	L	06/03/2008 05:58	I
8134523	Uranium	7440-61-1	1.70E+00	ug/L	1.7E-01	1.7E-01		8.35E-02		UTOT_KPA	2.51E-02	ML	06/12/2008 15:09	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:				
9KMQQ010	B1TKC4		MW6-SBB-A1	S08-003	W05397					05/07/2008 10:45				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8134510	ALPHA	12587-46-1	9.60E+00	pCi/L	2.9E+00	3.5E+00		1.86E+00	100.0	9310_ALPHABETA	2.00E-01	L	06/11/2008 14:23	I
8134511	BETA	12587-47-2	1.66E+01	pCi/L	2.2E+00	3.0E+00		2.62E+00	100.0	9310_ALPHABETA	2.004E-01	L	06/11/2008 14:27	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:				
9KMQQ310	B1TKC5		MW6-SBB-A1	S08-003	W05397					05/07/2008 10:45				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8134510	ALPHA	12587-46-1	8.88E+00	pCi/L	2.8E+00	3.4E+00		2.17E+00	100.0	9310_ALPHABETA	1.724E-01	L	06/11/2008 14:23	I
8134511	BETA	12587-47-2	1.79E+01	pCi/L	2.4E+00	3.3E+00		3.05E+00	100.0	9310_ALPHABETA	2.001E-01	L	06/11/2008 14:27	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:
9KMQQ510	B1TK86		MW6-SBB-A1	S08-003	W05397					05/07/2008 11:36

TestAmerica

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.

6/23/2008 2:05:37 PM

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 39342 File Name: h:\Reportdb\edd\Fead\Rad\W05397.Edd, h:\Reportdb\edd\Fead\Rad\39342.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8134523	Uranium	7440-61-1	3.82E+01	ug/L	4.5E+00	4.5E+00		8.38E-02		UTOT_KPA	2.50E-02	ML	06/12/2008 15:16	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:
9KMQQ810	B1R2W3		MW6-SBB-A1	I08-007	W05397					05/07/2008 09:38

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8134516	I-129L	15046-84-1	1.66E-02	pCi/L	1.5E-01	1.5E-01	U	2.72E-01	93.8	I129LL_SEP_LEPS	3.8943E+00	L	06/18/2008 10:56	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:
9KMQR310	B1RTM4		MW6-SBB-A1	S08-001	W05397					05/07/2008 10:55

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8134510	ALPHA	12587-46-1	1.23E+00	pCi/L	9.7E-01	1.0E+00	U	1.38E+00	100.0	9310_ALPHABETA	2.002E-01	L	06/11/2008 14:23	I
8134511	BETA	12587-47-2	3.52E+00	pCi/L	1.5E+00	1.6E+00		2.82E+00	100.0	9310_ALPHABETA	2.003E-01	L	06/11/2008 14:27	I
8134513	BE-7	13966-02-4	8.58E+00	pCi/L	2.4E+01	2.4E+01	U	4.26E+01		GAMMALL_GS	2.0003E+00	L	06/11/2008 10:13	I
8134513	CO-60	10198-40-0	-1.50E+00	pCi/L	2.1E+00	2.1E+00	U	3.41E+00		GAMMALL_GS	2.0003E+00	L	06/11/2008 10:13	I
8134513	CS-134	13967-70-9	-2.33E+00	pCi/L	2.2E+00	2.2E+00	U	3.47E+00		GAMMALL_GS	2.0003E+00	L	06/11/2008 10:13	I
8134513	CS-137	10045-97-3	1.79E+00	pCi/L	2.1E+00	2.1E+00	U	4.03E+00		GAMMALL_GS	2.0003E+00	L	06/11/2008 10:13	I
8134513	EU-152	14683-23-9	-2.43E+00	pCi/L	5.9E+00	5.9E+00	U	9.91E+00		GAMMALL_GS	2.0003E+00	L	06/11/2008 10:13	I
8134513	EU-154	15585-10-1	-2.83E+00	pCi/L	5.9E+00	5.9E+00	U	9.99E+00		GAMMALL_GS	2.0003E+00	L	06/11/2008 10:13	I
8134513	EU-155	14391-16-3	-3.27E-01	pCi/L	4.1E+00	4.1E+00	U	7.10E+00		GAMMALL_GS	2.0003E+00	L	06/11/2008 10:13	I
8134513	K-40	13966-00-2	-5.20E+01	pCi/L	4.8E+01	4.8E+01	U	9.82E+01		GAMMALL_GS	2.0003E+00	L	06/11/2008 10:13	I
8134513	RU-106	13967-48-1	-5.72E+00	pCi/L	1.7E+01	1.7E+01	U	3.03E+01		GAMMALL_GS	2.0003E+00	L	06/11/2008 10:13	I
8134513	SB-125	14234-35-6	-3.02E+00	pCi/L	5.6E+00	5.6E+00	U	9.28E+00		GAMMALL_GS	2.0003E+00	L	06/11/2008 10:13	I
8134517	SR-90	10098-97-2	1.18E-01	pCi/L	2.5E-01	2.5E-01	U	5.38E-01	64.7	SRISO_SEP_PRE	1.0003E+00	L	06/15/2008 06:01	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:
9KMQR610	B1RTM9		MW6-SBB-A1	S08-001	W05397					05/07/2008 12:39

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8134510	ALPHA	12587-46-1	2.29E+00	pCi/L	1.6E+00	1.7E+00		2.18E+00	100.0	9310_ALPHABETA	1.667E-01	L	06/11/2008 14:23	I
8134511	BETA	12587-47-2	1.28E+01	pCi/L	2.5E+00	3.0E+00		3.77E+00	100.0	9310_ALPHABETA	1.667E-01	L	06/11/2008 14:27	I
8134513	BE-7	13966-02-4	-3.81E-01	pCi/L	2.0E+01	2.0E+01	U	3.47E+01		GAMMALL_GS	2.0003E+00	L	06/11/2008 10:14	I
8134513	CO-60	10198-40-0	-4.05E-01	pCi/L	1.7E+00	1.7E+00	U	3.08E+00		GAMMALL_GS	2.0003E+00	L	06/11/2008 10:14	I
8134513	CS-134	13967-70-9	-1.59E+00	pCi/L	1.8E+00	1.8E+00	U	2.94E+00		GAMMALL_GS	2.0003E+00	L	06/11/2008 10:14	I
8134513	CS-137	10045-97-3	-6.37E-01	pCi/L	1.8E+00	1.8E+00	U	3.06E+00		GAMMALL_GS	2.0003E+00	L	06/11/2008 10:14	I

TestAmerica

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.

6/23/2008 2:05:37 PM

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 39342 File Name: h:\Reportdb\edd\Fead\VRad\W05397.Edd, h:\Reportdb\edd\Fead\VRad\39342.Edd

8134513	EU-152	14683-23-9	1.57E+00	pCi/L	4.3E+00	4.3E+00	U	7.83E+00		GAMMALL_GS	2.0003E+00	L	06/11/2008	10:14	I
8134513	EU-154	15585-10-1	3.10E+00	pCi/L	4.8E+00	4.8E+00	U	9.65E+00		GAMMALL_GS	2.0003E+00	L	06/11/2008	10:14	I
8134513	EU-155	14391-16-3	1.17E+00	pCi/L	2.8E+00	2.8E+00	U	4.98E+00		GAMMALL_GS	2.0003E+00	L	06/11/2008	10:14	I
8134513	K-40	13966-00-2	-3.07E+00	pCi/L	4.1E+01	4.1E+01	U	8.31E+01		GAMMALL_GS	2.0003E+00	L	06/11/2008	10:14	I
8134513	RU-106	13967-48-1	-1.29E+01	pCi/L	1.8E+01	1.8E+01	U	2.88E+01		GAMMALL_GS	2.0003E+00	L	06/11/2008	10:14	I
8134513	SB-125	14234-35-6	-5.60E-01	pCi/L	4.2E+00	4.2E+00	U	7.38E+00		GAMMALL_GS	2.0003E+00	L	06/11/2008	10:14	I
8134517	SR-90	10098-97-2	1.97E-01	pCi/L	4.8E-01	4.8E-01	U	1.00E+00	49.7	SRISO_SEP_PRE	1.0035E+00	L	06/15/2008	06:01	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:				
9KMT8C10	B1TVP9		MW6-SBB-A1	G08-004	W05397					05/08/2008 10:18				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8134511	BETA	12587-47-2	1.47E+03	pCi/L	1.7E+01	2.3E+02		2.54E+00	100.0	9310_ALPHABETA	2.003E-01	L	06/11/2008 14:27	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:				
9KMT8K10	B1TVR1		MW6-SBB-A1	G08-004	W05397					05/08/2008 09:42				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8134511	BETA	12587-47-2	6.20E+02	pCi/L	1.2E+01	7.7E+01		2.91E+00	100.0	9310_ALPHABETA	2.004E-01	L	06/11/2008 14:27	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:				
9KMT8N10	B1TVR3		MW6-SBB-A1	G08-004	W05397					05/08/2008 08:57				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8134511	BETA	12587-47-2	9.47E+02	pCi/L	1.4E+01	1.2E+02		2.72E+00	100.0	9310_ALPHABETA	2.001E-01	L	06/11/2008 14:27	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:				
9KMVGX10	B1TWM0		MW6-SBB-A1	S08-004	W05397					05/08/2008 13:59				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8134510	ALPHA	12587-46-1	3.16E+00	pCi/L	1.5E+00	1.6E+00		1.70E+00	100.0	9310_ALPHABETA	1.317E-01	L	06/11/2008 15:54	I
8134511	BETA	12587-47-2	3.71E+02	pCi/L	9.2E+00	4.8E+01		3.07E+00	100.0	9310_ALPHABETA	2.004E-01	L	06/11/2008 14:27	I
8134513	BE-7	13966-02-4	-1.66E+00	pCi/L	1.1E+01	1.1E+01	U	1.99E+01		GAMMALL_GS	2.0004E+00	L	06/11/2008 13:20	I
8134513	CO-60	10198-40-0	4.52E+00	pCi/L	2.0E+00	2.0E+00	U	4.05E+00		GAMMALL_GS	2.0004E+00	L	06/11/2008 13:20	I
8134513	CS-134	13967-70-9	2.92E-01	pCi/L	1.2E+00	1.2E+00	U	2.27E+00		GAMMALL_GS	2.0004E+00	L	06/11/2008 13:20	I
8134513	CS-137	10045-97-3	2.06E+00	pCi/L	1.2E+00	1.2E+00	U	2.37E+00		GAMMALL_GS	2.0004E+00	L	06/11/2008 13:20	I
8134513	EU-152	14683-23-9	-5.03E-02	pCi/L	2.6E+00	2.6E+00	U	4.47E+00		GAMMALL_GS	2.0004E+00	L	06/11/2008 13:20	I
8134513	EU-154	15585-10-1	-5.09E-01	pCi/L	3.1E+00	3.1E+00	U	5.55E+00		GAMMALL_GS	2.0004E+00	L	06/11/2008 13:20	I

TestAmerica

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.

4

rptFeadRadSummaryEdd v3.48

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.

6/23/2008 2:05:38 PM

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 39342 File Name: h:\Reportdb\edd\FeadIV\Rad\W05397.Edd, h:\Reportdb\edd\FeadIV\Rad\39342.Edd

8134513	EU-155	14391-16-3	-2.38E-01	pCi/L	2.2E+00	2.2E+00	U	3.82E+00	GAMMALL_GS	2.0004E+00	L	06/11/2008	13:20	I
8134513	K-40	13966-00-2	2.31E+01	pCi/L	2.9E+01	2.9E+01	U	2.17E+01	GAMMALL_GS	2.0004E+00	L	06/11/2008	13:20	I
8134513	RU-106	13967-48-1	-4.12E+00	pCi/L	1.1E+01	1.1E+01	U	1.85E+01	GAMMALL_GS	2.0004E+00	L	06/11/2008	13:20	I
8134513	SB-125	14234-35-6	-1.96E+00	pCi/L	2.6E+00	2.6E+00	U	4.28E+00	GAMMALL_GS	2.0004E+00	L	06/11/2008	13:20	I
8134516	I-129L	15046-84-1	-2.90E-04	pCi/L	1.2E-01	1.2E-01	U	2.26E-01 95.9	I129LL_SEP_LEPS	3.8592E+00	L	06/18/2008	10:58	I

Monday, June 23, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\Rad\W05397.Edd, h:\Reportdb\edd\Fead\Rad\39342.Edd

Lab Sample Id: KM5H01AB

Sdg/Rept Nbr: W05397 39342

Collection Date: 05/07/2008 10:45

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/07/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								AO	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	To/Cnt Uncert 2S	Qual	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8134511 BLK	BETA 12587-47-2	1.28E+00	pCi/L	1.1E+00 1.1E+00	U	2.20E+00	100.0		9310_ALPHAB	2.002E-01 L	06/11/2008 14:27				D

Monday, June 23, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\W05397.Edd, h:\Reportdb\edd\Fead\W05397.Edd

Lab Sample Id: KM5H61AB

Sdg/Rept Nbr: W05397 39342

Collection Date: 05/06/2008 09:56

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/06/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								AQ	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
8134513	BE-7	4.28E+00	pCi/L	1.7E+01	U	3.17E+01			GAMMALL_GS	2.0005E+00	06/11/2008				D
	BLK 13966-02-4			1.7E+01						L	13:21				
8134513	CO-60	1.91E-01	pCi/L	1.5E+00	U	2.93E+00			GAMMALL_GS	2.0005E+00	06/11/2008				D
	BLK 10198-40-0			1.5E+00						L	13:21				
8134513	CS-134	-9.36E-01	pCi/L	1.7E+00	U	2.90E+00			GAMMALL_GS	2.0005E+00	06/11/2008				D
	BLK 13967-70-9			1.7E+00						L	13:21				
8134513	CS-137	-8.37E-01	pCi/L	1.6E+00	U	2.80E+00			GAMMALL_GS	2.0005E+00	06/11/2008				D
	BLK 10045-97-3			1.6E+00						L	13:21				
8134513	EU-152	-2.82E+00	pCi/L	3.8E+00	U	6.21E+00			GAMMALL_GS	2.0005E+00	06/11/2008				D
	BLK 14683-23-9			3.8E+00						L	13:21				
8134513	EU-154	3.77E+00	pCi/L	4.9E+00	U	1.01E+01			GAMMALL_GS	2.0005E+00	06/11/2008				D
	BLK 15585-10-1			4.9E+00						L	13:21				
8134513	EU-155	2.28E-01	pCi/L	3.0E+00	U	5.26E+00			GAMMALL_GS	2.0005E+00	06/11/2008				D
	BLK 14391-16-3			3.0E+00						L	13:21				
8134513	K-40	-1.79E+01	pCi/L	3.2E+01	U	6.51E+01			GAMMALL_GS	2.0005E+00	06/11/2008				D
	BLK 13966-00-2			3.2E+01						L	13:21				
8134513	RU-106	9.03E+00	pCi/L	1.5E+01	U	2.83E+01			GAMMALL_GS	2.0005E+00	06/11/2008				D
	BLK 13967-48-1			1.5E+01						L	13:21				
8134513	SB-125	1.63E+00	pCi/L	3.8E+00	U	7.10E+00			GAMMALL_GS	2.0005E+00	06/11/2008				D
	BLK 14234-35-6			3.8E+00						L	13:21				

Monday, June 23, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\ledd\FeadIV\Rad\W05397.Edd, h:\Reportdb\ledd\FeadIV\Rad\39342.Edd

Lab Sample Id: KM5H71AB

Sdg/Rept Nbr: W05397 39342

Collection Date: 05/07/2008 09:38

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/07/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								AS	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qual	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8134516 BLK	I-129L 15046-84-1	5.62E-02	pCi/L	1.5E-01 1.5E-01	U	2.80E-01	93.8		I129LL_SEP_L	3.842E+00 L	06/18/2008 12:46				D

Monday, June 23, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\ledd\Fead\I\Rad\W05397.Edd, h:\Reportdb\ledd\Fead\I\Rad\39342.Edd

Lab Sample Id: KM5H91AB

Sdg/Rept Nbr: W05397

39342

Collection Date: 05/07/2008 10:55

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/07/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								AU	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	To/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
8134517 BLK	SR-90 10098-97-2	7.57E-02	pCi/L	2.8E-01 2.3E-01	U	5.73E-01	77.6		SRISO_SEP_P	1.0013E+00 L	06/15/2008 06:01				D

Monday, June 23, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05397.Edd, h:\Reportdb\edd\Fead\I\Rad\39342.Edd

Lab Sample Id: KM5HR1AB

Sdg/Rept Nbr: W05397 39342

Collection Date: 05/08/2008 13:59

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/08/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								AW	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qual	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Alq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8134510 BLK	ALPHA 12587-46-1	-4.11E-02	pCi/L	2.0E-01 2.0E-01	U	6.05E-01	100.0		9310_ALPHAB	2.002E-01 L	06/11/2008 15:54				D

Monday, June 23, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\Rad\W05397.Edd, h:\Reportdb\edd\Fead\Rad\39342.Edd

Lab Sample Id: KM5J31AB

Sdg/Rept Nbr: W05397 39342

Collection Date: 05/06/2008 11:04

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/06/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								AY	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8134525 BLK	H-3 10028-17-8	1.27E+02	pCi/L	1.2E+02 1.1E+02	U	2.48E+02	100.0		906.0_H3_LSC	5.00E-03 L	06/04/2008 13:29				D

Monday, June 23, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05397.Edd, h:\Reportdb\edd\Fead\I\Rad\39342.Edd

Lab Sample Id: KM5J31DX

Sdg/Rept Nbr: W05397 39342

Collection Date: 05/06/2008 11:04

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/06/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BA	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/ L	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8134525 BLK	H-3 10028-17-8	8.33E+01	pCi/L	1.2E+02 1.1E+02	U	2.55E+02	100.0		906.0_H3_LSC	5.00E-03	06/04/2008 16:13				D

Monday, June 23, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\VRad\W05397.Edd, h:\Reportdb\edd\Fead\VRad\39342.Edd

Lab Sample Id: KM5JT1AB

Sdg/Rept Nbr: W05397 39342

Collection Date: 05/06/2008 09:56

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/06/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BC	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	To/Cnt Uncert 2S	Qual	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8134523	Uranium	5.35E-02	ug/L	7.4E-03	U	8.35E-02			UTOT_KPA	2.51E-02	06/12/2008				D
BLK	7440-61-1			7.4E-03						ML	15:02				

Monday, June 23, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\Rad\W05397.Edd, h:\Reportdb\edd\Fead\Rad\39342.Edd

Lab Sample Id: KM5JX1AB

Sdg/Rept Nbr: W05397 39342

Collection Date: 05/06/2008 09:56

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/06/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BF	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qual	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Alq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8134524	TC-99	3.72E+00	pCi/L	5.4E+00	U	9.16E+00	100.0		TC99_ETVDSK	1.2546E-01	06/03/2008				D
BLK	14133-76-7			3.9E+00						L	05:58				

Monday, June 23, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\ledd\Fead\I\Rad\W05397.Edd, h:\Reportdb\ledd\Fead\I\Rad\39342.Edd

Lab Sample Id: KM5H01CS

Sdg/Rept Nbr: W05397 39342

Collection Date: 05/07/2008 10:45

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/07/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								AP	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/ L	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8134511 BS	BETA 12587-47-2	2.49E+01	pCi/L	4.1E+00 2.5E+00		2.71E+00	100.0	2.29E+01 109.0	9310_ALPHAB	2.002E-01	06/11/2008 14:27			70 130	D

Monday, June 23, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\ledd\Fead\I\Rad\W05397.Edd, h:\Reportdb\ledd\Fead\I\Rad\39342.Edd

Lab Sample Id: KM5H61CS

Sdg/Rept Nbr: W05397

39342

Collection Date: 05/06/2008 09:56

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/06/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								AR	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	To/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
8134513 BS	CO-60 10198-40-0	4.19E+01	pCi/L	8.7E+00 8.7E+00		3.59E+00		3.82E+01 109.5	GAMMALL_GS	2.0001E+00 L	06/11/2008 13:22			75 125	D
8134513 BS	CS-137 10045-97-3	5.37E+01	pCi/L	8.5E+00 8.5E+00		3.81E+00		4.95E+01 108.5	GAMMALL_GS	2.0001E+00 L	06/11/2008 13:22			70 130	D
8134513 BS	EU-152 14683-23-9	8.69E+01	pCi/L	1.5E+01 1.5E+01	U	1.88E+01		7.57E+01 114.9	GAMMALL_GS	2.0001E+00 L	06/11/2008 13:22			70 130	D

Monday, June 23, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05397.Edd, h:\Reportdb\edd\Fead\I\Rad\39342.Edd

Lab Sample Id: KM5H71CS

Sdg/Rept Nbr: W05397 39342

Collection Date: 05/07/2008 09:38

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/07/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								AT	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
8134516 BS	I-129L 15046-84-1	1.01E+01	pCi/L	1.3E+00 1.3E+00		3.68E-01	94.5	1.01E+01 100.0	I129LL_SEP_L	3.8336E+00 L	06/18/2008 12:48			70 130	D

Monday, June 23, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Fead\VRad\W05397.Edd, h:\Reportdb\edd\Fead\VRad\39342.Edd

Lab Sample Id: KM5H91CS **Sdg/Rept Nbr:** W05397 39342 **Collection Date:** 05/07/2008 10:55
Client Id: NA **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** BS **Received Date:** 05/07/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								AV	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qual	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8134517 BS	SR-90 10098-97-2	1.37E+01	pCi/L	2.1E+00 7.9E-01		4.51E-01	80.0	1.36E+01 100.9	SRISO_SEP_P	1.0011E+00 L	06/15/2008 06:01			70 130	D

Monday, June 23, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\VRad\W05397.Edd, h:\Reportdb\edd\Fead\VRad\39342.Edd

Lab Sample Id: KM5HR1CS

Sdg/Rept Nbr: W05397 39342

Collection Date: 05/08/2008 13:59

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/08/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								AX	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	To/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
8134510 BS	ALPHA 12587-46-1	1.94E+01	pCi/L	4.5E+00 2.0E+00		6.43E-01	100.0	2.27E+01 85.7	9310_ALPHAB	2.001E-01 L	06/11/2008 15:54			70 130	D

Monday, June 23, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05397.Edd, h:\Reportdb\edd\Fead\I\Rad\39342.Edd

Lab Sample Id: KM5J31CS

Sdg/Rept Nbr: W05397 39342

Collection Date: 05/06/2008 11:04

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/06/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								AZ	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8134525 BS	H-3 10028-17-8	2.13E+03	pCi/L	2.1E+02 1.7E+02		2.49E+02	100.0	2.71E+03 78.4	906.0_H3_LSC	5.00E-03 L	06/04/2008 14:51			75 125	D

Monday, June 23, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\VRad\W05397.Edd, h:\Reportdb\edd\Fead\VRad\39342.Edd

Lab Sample Id: KM5J31EM

Sdg/Rept Nbr: W05397 39342

Collection Date: 05/06/2008 11:04

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/06/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BB	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8134525 BS	H-3 10028-17-8	2.24E+03	pCi/L	2.1E+02 1.8E+02		2.62E+02	100.0	2.71E+03 82.6	906.0_H3_LSC	5.00E-03 L	06/04/2008 17:35			75 125	D

Monday, June 23, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\Rad\W05397.Edd, h:\Reportdb\edd\Fead\Rad\39342.Edd

Lab Sample Id: KM5JT1CS

Sdg/Rept Nbr: W05397 39342

Collection Date: 05/06/2008 09:56

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/06/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BD	H					
Batch # / Qc Type	Analyt / CAS#	Result / Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc / %Rec	Analy Method	Aliq Size /	Date/Time Analyzed	RPD / UCL	RER / UCL	LCS LCL/UCL	R Typ
8134523 BS	Uranium 7440-61-1	3.45E+01	ug/L	4.1E+00 4.1E+00		8.35E-02		3.59E+01 95.9	UTOT_KPA	2.51E-02 ML	06/12/2008 15:05			75 125	D

Monday, June 23, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\VRad\W05397.Edd, h:\Reportdb\edd\Fead\VRad\39342.Edd

Lab Sample Id: KM5JT1DS

Sdg/Rept Nbr: W05397

39342

Collection Date: 05/06/2008 09:56

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/06/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BE	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8134523 BS	Uranium 7440-61-1	3.40E+00	ug/L	3.5E-01 3.5E-01		8.45E-02		3.63E+00 93.9	UTOT_KPA	2.48E-02 ML	06/12/2008 15:07			75 125	D

Monday, June 23, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05397.Edd, h:\Reportdb\edd\Fead\I\Rad\39342.Edd

Lab Sample Id: KM5JX1CS

Sdg/Rept Nbr: W05397 39342

Collection Date: 05/06/2008 09:56

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/06/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BG	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8134524 BS	TC-99 14133-76-7	4.87E+02	pCi/L	3.4E+01 1.2E+01		9.16E+00	100.0	5.42E+02 89.8	TC99_ETVDSK	1.2545E-01 L	06/03/2008 05:58			75 125	D

Monday, June 23, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\ledd\Fead\VRad\W05397.Edd, h:\Reportdb\ledd\Fead\VRad\39342.Edd

Lab Sample Id: KMNG91KR

Sdg/Rept Nbr: W05397 39342

Collection Date: 05/06/2008 11:04

Client Id: B1TWK5

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 05/06/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
S08-004	MW6-SBB-A19981								BJ	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Allq Size/ L	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8134525 DUP	H-3 10028-17-8	6.48E+02 7.55E+02	pCi/L	1.4E+02 1.3E+02		2.50E+02	100.0		906.0_H3_LSC	5.00E-03	06/04/2008 20:18	15.2 20.0	1. 3		D

Monday, June 23, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\Rad\W05397.Edd, h:\Reportdb\edd\Fead\Rad\39342.Edd

Lab Sample Id: KMNGV1HR

Sdg/Rept Nbr: W05397 39342

Collection Date: 05/06/2008 09:56

Client Id: B1TWK1

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 05/06/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
S08-004	MW6-SBB-A19981								BK	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8134513 DUP	BE-7 13966-02-4	-1.15E+00 -3.99E+00	pCi/L	2.0E+01 2.0E+01	U	3.47E+01			GAMMALL_GS	2.00E+00 L	06/11/2008 13:46	0.0 20.0	0.2 3		D
8134513 DUP	CO-60 10198-40-0	3.65E-01 9.19E-01	pCi/L	2.1E+00 2.1E+00	U	3.96E+00			GAMMALL_GS	2.00E+00 L	06/11/2008 13:46	86.4 20.0	0.4 3		D
8134513 DUP	CS-134 13967-70-9	-4.37E-01 1.22E+00	pCi/L	1.9E+00 1.9E+00	U	3.30E+00			GAMMALL_GS	2.00E+00 L	06/11/2008 13:46	424.7 20.0	1.3 3		D
8134513 DUP	CS-137 10045-97-3	2.96E-01 -5.82E-02	pCi/L	1.7E+00 1.7E+00	U	3.06E+00			GAMMALL_GS	2.00E+00 L	06/11/2008 13:46	298.2 20.0	0.3 3		D
8134513 DUP	EU-152 14683-23-9	-1.12E+00 2.78E+00	pCi/L	4.3E+00 4.3E+00	U	7.52E+00			GAMMALL_GS	2.00E+00 L	06/11/2008 13:46	468.7 20.0	1.3 3		D
8134513 DUP	EU-154 15585-10-1	3.70E+00 -3.11E+00	pCi/L	4.9E+00 4.9E+00	U	9.93E+00			GAMMALL_GS	2.00E+00 L	06/11/2008 13:46	2306.6 20.0	2. 3		D
8134513 DUP	EU-155 14391-16-3	6.51E-01 -7.27E-01	pCi/L	2.8E+00 2.8E+00	U	4.99E+00			GAMMALL_GS	2.00E+00 L	06/11/2008 13:46	0.0 20.0	0.7 3		D
8134513 DUP	K-40 13966-00-2	1.44E+01 1.32E+01	pCi/L	4.0E+01 4.0E+01	U	2.89E+01			GAMMALL_GS	2.00E+00 L	06/11/2008 13:46	8.3 20.0	0. 3		D
8134513 DUP	RU-106 13967-48-1	4.75E+00 2.86E+00	pCi/L	1.6E+01 1.6E+01	U	2.96E+01			GAMMALL_GS	2.00E+00 L	06/11/2008 13:46	49.6 20.0	0.2 3		D
8134513 DUP	SB-125 14234-35-6	5.49E+00 1.19E+00	pCi/L	4.3E+00 4.3E+00	U	8.17E+00			GAMMALL_GS	2.00E+00 L	06/11/2008 13:46	128.6 20.0	1.4 3		D

Monday, June 23, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Fead\Rad\W05397.Edd, h:\Reportdb\edd\Fead\Rad\39342.Edd

Lab Sample Id: KMNGV1JR Sdg/Rept Nbr: W05397 39342 Collection Date: 05/06/2008 09:56
 Client Id: B1TWK1 Matrix: WATER WATER Sample On Date:
 Moisture/Solids%*: QC Type: DUP Received Date: 05/06/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
S08-004	MW6-SBB-A19981								BL	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qual	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8134523	Uranium	1.77E+00	ug/L	1.8E-01		8.35E-02			UTOT_KPA	2.51E-02	06/12/2008	4.0	0.5		D
DUP	7440-61-1	1.70E+00		1.8E-01						ML	15:11	20.0	3		

Monday, June 23, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\VRad\W05397.Edd, h:\Reportdb\edd\Fead\VRad\39342.Edd

Lab Sample Id: KMNGV1KR

Sdg/Rept Nbr: W05397 39342

Collection Date: 05/06/2008 09:56

Client Id: B1TWK1

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 05/06/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
S08-004	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
8134524	TC-99	1.02E+02	pCi/L	1.1E+01		9.15E+00	100.0		TC99_ETVDSK	1.2579E-01	06/03/2008	3.7	0.5		D
DUP	14133-76-7	1.06E+02		6.6E+00						L	05:58	20.0	3		

Monday, June 23, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\Rad\W05397.Edd, h:\Reportdb\edd\Fead\Rad\39342.Edd

Lab Sample Id: KMQQ01DR

Sdg/Rept Nbr: W05397 39342

Collection Date: 05/07/2008 10:45

Client Id: B1TKC4

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 05/07/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
S08-003	MW6-SBB-A19981								BN	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
8134511	BETA	1.50E+01	pCi/L	3.1E+00		2.97E+00	100.0		9310_ALPHAB	2.001E-01	06/11/2008	10.1	0.7		D
DUP	12587-47-2	1.66E+01		2.2E+00						L	14:27	20.0	3		

Monday, June 23, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05397.Edd, h:\Reportdb\edd\Fead\I\Rad\39342.Edd

Lab Sample Id: KMQQ81CR

Sdg/Rept Nbr: W05397 39342

Collection Date: 05/07/2008 09:38

Client Id: B1R2W3

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 05/07/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
108-007	MW6-SBB-A19981								BO	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	To/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
8134516 DUP	I-129L 15046-84-1	1.71E-01 1.66E-02	pCi/L	2.2E-01 2.2E-01	U	3.28E-01	93.0		I129LL_SEP_L	3.873E+00 L	06/18/2008 10:58	164.7 20.0	1. 3		D

Monday, June 23, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\VRad\W05397.Edd, h:\Reportdb\edd\Fead\VRad\39342.Edd

Lab Sample Id: KMQR31FR

Sdg/Rept Nbr: W05397

39342

Collection Date: 05/07/2008 10:55

Client Id: B1RTM4

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 05/07/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
S08-001	MW6-SBB-A19981								BP	H					
Batch # / Qc Type	Analy/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qual	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8134517 DUP	SR-90 10098-97-2	1.42E-01 1.18E-01	pCi/L	2.8E-01 2.8E-01	U	5.84E-01	70.8		SRISO_SEP_P	9.9889E-01 L	06/15/2008 06:01	18.2 20.0	0.1 3		D

Monday, June 23, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Fead\Rad\W05397.Edd, h:\Reportdb\edd\Fead\Rad\39342.Edd

Lab Sample Id: KMSGX1FR **Sdg/Rept Nbr:** W05397 39342 **Collection Date:** 05/08/2008 13:59
Client Id: B1TWM0 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%: **QC Type:** DUP **Received Date:** 05/08/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
S08-004	MW6-SBB-A19981								BQ	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qual	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8134510 DUP	ALPHA 12587-46-1	2.77E+00 3.16E+00	pCi/L	1.6E+00 1.4E+00		1.91E+00	100.0		9310_ALPHAB	1.317E-01 L	06/11/2008 15:54	13.2 20.0	0.4 3		D

Monday, June 23, 2008

TestAmerica Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\ledd\Fead\Rad\W05397.Edd, h:\Reportdb\ledd\Fead\Rad\39342.Edd

Lab Sample Id: KMNG91HW

Sdg/Rept Nbr: W05397 39342

Collection Date: 05/06/2008 11:04

Client Id: B1TWK5

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: MS

Received Date: 05/06/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
S08-004	MW6-SBB-A19981								BH	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/ ML	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8134523 MS	Uranium 7440-61-1	4.01E+01	ug/L	4.8E+00 4.8E+00		8.35E-02		3.60E+01 111.6	UTOT_KPA	2.51E-02 ML	06/12/2008 15:14			60 140	D

Monday, June 23, 2008

TestAmerica Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\VRad\W05397.Edd, h:\Reportdb\edd\Fead\VRad\39342.Edd

Lab Sample Id: KMNG91JW

Sdg/Rept Nbr: W05397 39342

Collection Date: 05/06/2008 11:04

Client Id: B1TWK5

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: MS

Received Date: 05/06/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
S08-004	MW6-SBB-A19981								BI	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	To/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/ L	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8134524 MS	TC-99 14133-76-7	3.30E+03	pCi/L	3.8E+02 4.1E+01		9.19E+00	100.0	3.60E+03 91.6	TC99_ETVDSK	1.2509E-01 L	06/03/2008 05:58			60 140	D

RQC050

TestAmerica Laboratories, Inc.
WET CHEM BATCHSHEET

Run Date: 5/29/08
Time: 12:31:55

TestAmerica Richland

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE
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METHOD: IZ COLIFORM BY METHOD 9223
 QC BATCH #: 8134526
 PREP DATE: 5/13/08
 COMP DATE: 5/13/08
 USER: WAGARR

INITIALS: _____
 PREP Dm
 ANAL ↓

DATA ENTRY: _____
 INITIALS _____
 DATE _____

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
KMQPA-1-AA	J-8E070363-001	XX I 88 IZ 5I	E	5/7/08	B1V891
KMQPA-1-AC	J-8E070363-001-X	XX I 88 IZ 5I	E		B1V891 DUP
KMQPD-1-AA	J-8E070363-002	XX I 88 IZ 5I	E		B1V896
KMQPF-1-AA	J-8E070363-003	XX I 88 IZ 5I	E		B1V8B1
KMQPJ-1-AA	J-8E070363-004	XX I 88 IZ 5I	E		B1V8B6
KMQPN-1-AA	J-8E070363-005	XX I 88 IZ 5I	E		B1V8C1
KM5J8-1-AA	J-8E130000-526-B	XX I 88 IZ 5I			INTRA-LAB BLANK
KM5J8-1-AC	J-8E130000-526-C	XX I 88 IZ 5I			INTRA-LAB CHECK 8,3

← COL/100ml
 ↓
 ↓

Control Limits

(0-0)

Lot No., Due Date: J8E070119,J8E070369,J8E070373,J8E080353; 06/23/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8134510; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05397; WATER

1.0 COC

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

2.0 QC Batch

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

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

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

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

3.0 QC & Samples

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

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

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

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

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

4.0 Raw Data

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

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

4.3 Were Yields entered correctly? Yes No N/A

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

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

5.0 Other

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

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

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

5.4 Was transcription checked? Yes No N/A

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

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

6.0 Comments on any No response:

First Level Review *John Horta*

Date 6-12-08

Data Review Checklist
RADIOCHEMISTRY
 Second Level Review

Batch Number: 8134510

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: *Erich Jod* Date: 6/12/18

Lot No., Due Date: J8E070119,J8E070369,J8E070373,J8E080325,J8E080353; 06/23/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8134511; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05397; WATER

1.0 COC

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

2.0 QC Batch

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

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

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

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

3.0 QC & Samples

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

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

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

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

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

4.0 Raw Data

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

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

4.3 Were Yields entered correctly? Yes No N/A

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

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

5.0 Other

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

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

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

5.4 Was transcription checked? Yes No N/A

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

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

6.0 Comments on any No response:

First Level Review

John Netto

Date

6-12-8

Data Review Checklist
RADIOCHEMISTRY
 Second Level Review

Batch Number: 8134S11

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: Eike Ford Date: 6/12/18

Lot No., Due Date: J8E070119, J8E070373; 06/23/2008
 Client, Site: 384868; PGW 615HANFORD HANFORD
 QC Batch No., Method Test: 8134517; RSR85907 Sr-85/90 by GPC-7
 SDG, Matrix: W05397; 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

John Vester

Date

6-16-8

Data Review Checklist
RADIOCHEMISTRY
 Second Level Review

Batch Number: 8134517

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 Jord Date: 6/16/08

Lot No., Due Date: J8E070119, J8E070373, J8E080353; 06/23/2008
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 8134513; RGAMMA Gamma by GER
SDG, Matrix: W05397; 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: Sample J8E070119-3 was re-counted on a different detector for the duplicate.	

First Level Review John North Date 6-12-8

Data Review Checklist
RADIOCHEMISTRY
 Second Level Review

Batch Number: 8134513

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

Comments on any "No" response: _____

Second Level Review: Erika Ford Date: 6/12/18

Lot No., Due Date: J8E070372,J8E080353; 06/23/2008
 Client, Site: 384868; PGW 615HANFORD HANFORD
 QC Batch No., Method Test: 8134516; RGAMLEPS Gamma by LEPS
 SDG, Matrix: W05397; 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 *Joe Anderson*

Date 6/19/08

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8134516

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: Erike Jord Date: 6/19/18

Lot No., Due Date: J8E070119; 06/23/2008
 Client, Site: 384868; PGW 615HANFORD HANFORD
 QC Batch No., Method Test: 8134524; RTC99 Tc-99 by LSC
 SDG, Matrix: W05397; 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 *John Norton*

Date *6-9-8*



Data Review Checklist
RADIOCHEMISTRY
 Second Level Review

Batch Number: 8134524

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?	✓		✓ <i>2/19/18</i>
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: *Ericka [Signature]* Date: 6/19/18

Lot No., Due Date: J8E070119; 06/23/2008
 Client, Site: 384868; PGW 615HANFORD HANFORD
 QC Batch No., Method Test: 8134525; RTRITIUM H-3 by LSC
 SDG, Matrix: W05397; 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 *John Norton*

Date 6-9-8

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8134525

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

Comments on any "No" response: _____

Second Level Review: Erika Jod Date: 6/9/18

Lot No., Due Date: J8E070119, J8E070369; 06/23/2008
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 8134523; RUNAT UNat by KPA
SDG, Matrix: W05397; 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 John Horton Date 6-13-8

Data Review Checklist
RADIOCHEMISTRY
 Second Level Review

Batch Number: 8134523

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 [Signature]* Date: 10/13/18

Lot No., Due Date: J8E070363; 06/23/2008
 Client, Site: 384868; PGW 615HANFORD HANFORD
 QC Batch No., Method Test: 8134526; Coliform
 SDG, Matrix: W05397; WATER

1.0 COC

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

2.0 QC Batch

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

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

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

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

3.0 QC & Samples

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

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

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

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

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

4.0 Raw Data

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

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

4.3 Were Yields entered correctly? Yes No N/A

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

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

5.0 Other

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

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

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

5.4 Was transcription checked? Yes No N/A

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

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

6.0 Comments on any No response:

First Level Review

[Signature]

Date

5/30/08

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8134526

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: *[Signature]* Date: 6/20/08

TestAmerica

FLUOR HANFORD		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			C.O.C. #	S08-004-855
		J8E070119 W05397 DUE 62008 KMNGO			Page 1 of 0	
Collector		Contact/Requester		Telephone No.		MSIN FAX
S08-004		Steve Trent		509-373-2869		
SAF No.		Sampling Origin		Purchase Order/Charge Code		
S08-004		Hanford Site				
Project Title		Method of Shipment		Ice Chest No. Temp.		
SURV APRIL 2008		HNF-N-506-15		SML-600		
Shipped To (Lab)		Method of Shipment		Bill of Lading/Air Bill No.		
TestAmerica Incorporated Richland		Govt. Vehicle				
Protocol		Priority: 45 Days		Offsite Property No.		
SURV						
POSSIBLE SAMPLE HAZARDS/REMARKS				SPECIAL INSTRUCTIONS		Hold Time Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
.. ..				Site-Wide Generator Knowledge Information Form applies		

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TWL2		W	5/6/08	1303	1x20-mL P	Activity Scan	None
B1TWL2		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1) -	HNO3 to pH <2
B1TWL2		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1) -	HNO3 to pH <2
B1TWL2		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1) -	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix * S - Soil DS - Drum Solid SE - Sediment DI - Drum Lium SO - Solid T - Tissue SL - Sludge W - Wine W - Water L - Liquid O - Oil V - Vegetation A - Air X - Other
<i>DR BREWSTER</i>			MAY 06 2008 1515 5/6/08 NT	<i>R LVLANE TAL</i>			MAY 06 2008 1515 5/6/08 NT	
Relinquished By			Date/Time	Received By			Date/Time	
Relinquished By			Date/Time	Received By			Date/Time	
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)						Disposed By	Date/Time

TESTAMERICA

FLUOR HANFORD		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				C.O.C. # S08-004-856	
		JSE070119 W05397 DUE 62008 KMNGT				Page 1 of 0	
Collector G.F. BREWINGTON		Contact/Requester Steve Trent		Telephone No. 509-373-5869		MSIN FAX	
SAF No. S08-004		Sampling Origin Hanford Site		Purchase Order/Charge Code			
Project Title SURV APRIL 2008		HNF-N-506-15		Ice Chest No. SML-600 Temp.			
Shipped To (Lab) TestAmerica Incorporated, Richland		Method of Shipment Govt. Vehicle		Bill of Lading/Air Bill No.			
Protocol SURV		Priority: 45 Days		Offsite Property No.			
POSSIBLE SAMPLE HAZARDS/REMARKS * * *				SPECIAL INSTRUCTIONS Site-Wide Generator Knowledge Information Form applies.		Hold Time Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TWL3		W	5/6/08	1303	1x20-mL P	Activity Scan	None
B1TWL3		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1TWL3		W			1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
B1TWL3		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None

Relinquished By <i>G.F. Brewington</i> G.F. BREWINGTON	Date/Time 1515 5/6/08 MAY 06 2008	Received By <i>L. LANE</i> L. LANE TAL	Date/Time 1515 5/6/08 MAY 06 2008	Matrix *
Relinquished By	Date/Time	Received By	Date/Time	S - Soil DS - Drum Solid SF - Sediment DL - Drum Liquid SO - Solid T - Tissue SL - Sludge WI - Wine W - Water L - Lintoid O - Oil V - Vegetation A - Air X - Other
Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	Date/Time	
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)		Disposed By	Date/Time

TestAmerica

FLUOR HANFORD		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			C.O.C. # S08-004-837	
		J8E070119 W05397 DUE 62008 KMNGV			Page 1 of 0	
Collector D.L. BREWINGTON	Contact/Requester Steve Trent	Telephone No. 509-373-2809	MSIN	FAX		
SAF No. S08-004	Sampling Origin Hanford Site	Purchase Order/Charge Code				
Project Title SURV. APRIL 2008	HNF-N-506-15			Ice Chest No. SML-600	Temp.	
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.				
Protocol SURV	Priority: 45 Days			Offsite Property No.		
POSSIBLE SAMPLE HAZARDS/REMARKS ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)			SPECIAL INSTRUCTIONS Site-Wide Generator Knowledge Information Form applies.		Hold Time Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TWK1		W	5/6/08	0956	1x20-mL P	Activity Scan	None
B1TWK1		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1) -	HCl to pH <2
B1TWK1		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1) -	HNO3 to pH <2
B1TWK1		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2) -	HNO3 to pH <2
B1TWK1		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9) -	HNO3 to pH <2
B1TWK1		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1) -	None

Relinquished By D.L. BREWINGTON	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time 1515 5/6/08 BH	Received By LILANE TAL	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time 1515 5/6/08 BH	Matrix * S - Soil DS - Drum Solid SF - Sediment DI - Drum Liquid SO - Solid T - Tissue SL - Sludge WI - Wine W - Water L - Liquid O - Oil V - Vegetation A - Air X - Other
Relinquished By	Date/Time	Received By	Date/Time	Received By	Date/Time	Date/Time		
Relinquished By	Date/Time	Received By	Date/Time	Received By	Date/Time	Date/Time		
Relinquished By	Date/Time	Received By	Date/Time	Received By	Date/Time	Date/Time		
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)			Disposed By			Date/Time	

TestAmerica

FLUOR HANFORD		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				C.O.C. # S08-004-843
		<i>J8E070119 W05397 DUE 6 20 08 KMNG9</i>				Page 1 of 0
Collector <i>D.R. BREWINGTON</i>		Contact/Requester Steve Trent		Telephone No. MSIN FAX 509-373-5869		
SAF No. S08-004		Sampling Origin Hanford Site		Purchase Order/Charge Code		
Project Title SURV APRIL 2008		<i>HNF-N-506-15</i>		Ice Chest No. <i>SML-600</i> Temp.		
Shipped To (Lab) TestAmerica Incorporated, Richland		Method of Shipment Govt. Vehicle		Bill of Lading/Air Bill No.		
Protocol SURV		Priority: 45 Days		Offsite Property No.		
POSSIBLE SAMPLE HAZARDS/REMARKS ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)				SPECIAL INSTRUCTIONS Hold Time Site-Wide Generator Knowledge Information Form applies.		
				Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B1TWK5		W	<i>5/6/08</i>	<i>1104</i>	1x20-mL P	Activity Scan	None
B1TWK5		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1TWK5		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1TWK5		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1TWK5		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1TWK5		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None

Relinquished By <i>D.R. Brewington</i>	Date/Time <i>1515 5/6/08 ACT</i> MAY 06 2008	Received By <i>R. L. WILSON</i>	Date/Time <i>1515 5/6/08 AN</i> MAY 06 2008	Matrix *
Relinquished By	Date/Time	Received By	Date/Time	S = Soil DS = Drum Solid SE = Sediment DI = Drum Ioniz SO = Solid T = Tissue SL = Sludge W = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	Date/Time	
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)		Disposed By	Date/Time

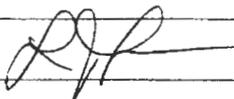


Sample Check-in List

Date/Time Received: 5608 1515 GM Screen Result 0.1K
 Client: PGW SDG #: W05397 NA [] SAF #: 508-004 NA []
 Work Order Number: JRE070119 Chain of Custody # 508-004-855,-856,-837,-843

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [] Yes No []
2. Custody Seals dated and signed? NA [] Yes No []
3. Chain of Custody record present? NA [] Yes No []
4. Cooler Temperature: _____ NA 5. Vermiculite/packing materials is NA Wet [] Dry []
6. Number of samples in shipping container: 4
7. Sample holding times exceeded? NA Yes [] No []
8. Samples have:
 Tape _____ 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 pH>2 pH>9 [] Amount HNO₃ Added _____
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: 5608

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____

TestAmerica

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. #	W08-005-426
J8E070363 W05397 Due 6 20 08 KMQPN		Page 1 of 1	

Collector Roy Sickle	Contact/Requester Steve Trent	Telephone No. 509-373-5869	MSIN FAX
SAF No. W08-005	Sampling Origin Hanford Site	Purchase Order/Charge Code	
Project Title RCRA MAY 2008	HNF-N-506-14	Ice Chest No. GW-1	Temp.
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.	
Protocol RCRA	Priority: 45 Days	Offsite Property No.	

POSSIBLE SAMPLE HAZARDS/REMARKS ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)	SPECIAL INSTRUCTIONS Hold Time Site-Wide Generator Knowledge Information Form applies. Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
--	--

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1V8C1		W	5/7/08	1140	1x20-mL P	Activity Scan	None
B1V8C1		W	5/7/08	1140	1x500-mL P	9223_COLIFORM: Coliform (1)	Na2S2O3 Cool-4C

Relinquished By Roy Sickle (Signature)	Date/Time MAY 07 2008	Received By R. W. LANE (Signature)	Date/Time MAY 07 2008	Matrix *
Relinquished By	Date/Time	Received By	Date/Time	S = Soil DS = Drum Solid SE = Sediment DI = Drum Lini SO = Solid T = Tissue SL = Sludge W1 = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	Date/Time	
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)		Disposed By	Date/Time



Sample Check-in List

Date/Time Received: 5708 1430 GM Screen Result 0.1K

Client: PCW SDG #: W05397 NA [] SAF #: W08-005 NA []

Work Order Number: J8E070363 Chain of Custody # W08-005-394,-402,-410,-418,-426

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: 5

7. Sample holding times exceeded? NA 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 [] pH>2 pH>9 [] Amount HNO₃ Added _____

11. Sample Location, Sample Collector Listed? *
*For documentation only. No corrective action needed.

12. Were any anomalies identified in sample receipt? Yes [] No

13. Description of anomalies (include sample numbers): _____

Sample Custodian: [Signature] Date: 5708

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: 5708 1410 GM Screen Result OK

Client: PCW SDG#: W05397 NA [] SAF#: S08-004 NA []

Work Order Number: J8E070366 Chain of Custody # S08-004-959

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [] Yes No []

2. Custody Seals dated and signed? NA [] Yes No []

3. Chain of Custody record present? NA [] Yes No []

4. Cooler Temperature: _____ NA 5. Vermiculite/packing materials is NA Wet [] Dry []

6. Number of samples in shipping container: 1

7. Sample holding times exceeded? NA Yes [] No []

8. Samples have:
 Tape Hazard Labels
 Custody Seals 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 [] Amount HNO₃ Added _____

11. Sample Location, Sample Collector Listed? *
*For documentation only. No corrective action needed.

12. Were any anomalies identified in sample receipt? Yes [] No

13. Description of anomalies (include sample numbers): _____

Sample Custodian: [Signature] Date: 5708

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: 5708 1410 GM Screen Result OK

Client: PAW SDG#: W05397 NA [] SAF#: SC8-003 NA []

Work Order Number: J8E070369 Chain of Custody # SC8-003-182,-183,-240

Shipping Container ID: _____ Air Bill # _____

- 1. Custody Seals on shipping container intact? NA [] Yes No []
- 2. Custody Seals dated and signed? NA [] Yes No []
- 3. Chain of Custody record present? NA [] Yes No []
- 4. Cooler Temperature: _____ NA 5. Vermiculite/packing materials is NA Wet [] Dry []

6. Number of samples in shipping container: 3

7. Sample holding times exceeded? NA Yes [] No []

8. Samples have:

Tape _____ 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 pH>2 [] pH>9 [] Amount HNO₃ Added _____

11. Sample Location, Sample Collector Listed? *
*For documentation only. No corrective action needed.

12. Were any anomalies identified in sample receipt? Yes [] No

13. Description of anomalies (include sample numbers): _____

Sample Custodian: [Signature] Date: 5708

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: 5708 1515 GM Screen Result 0.1K

Client: PCW SDG #: W05397 NA [] SAF #: I08-007 NA []

Work Order Number: JSE070372 Chain of Custody # I08-007-71

Shipping Container ID: _____ Air Bill # _____

- 1. Custody Seals on shipping container intact? NA [] Yes No []
- 2. Custody Seals dated and signed? NA [] Yes No []
- 3. Chain of Custody record present? NA [] Yes No []
- 4. Cooler Temperature: _____ NA 5. Vermiculite/packing materials is NA Wet [] Dry []

6. Number of samples in shipping container: 1

7. Sample holding times exceeded? NA Yes [] No []

8. Samples have:

- Tape
- Custody Seals
- Hazard 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 [] Amount HNO₃ Added _____

11. Sample Location, Sample Collector Listed? *
*For documentation only. No corrective action needed.

12. Were any anomalies identified in sample receipt? Yes [] No

13. Description of anomalies (include sample numbers) _____

Sample Custodian: [Signature] Date: 5708

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: 5 7 08 1515 GM Screen Result OK

Client: PCW SDG #: W05397 NA [] SAF #: 508-001 NA []

Work Order Number: JSE070373 Chain of Custody # 508-001-142,150

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 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 pH>2 [] pH>9 [] Amount HNO₃ Added _____

11. Sample Location, Sample Collector Listed? *
*For documentation only. No corrective action needed.

12. Were any anomalies identified in sample receipt? Yes [] No

13. Description of anomalies (include sample numbers): _____

Sample Custodian: [Signature] Date: 5 7 08

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: 5808 1200 GM Screen Result 0.1K

Client: PGW SDG #: W05397 NA [] SAF #: G08-004 NA []

Work Order Number: J8E080325 Chain of Custody # G08-00420,-22,-24

Shipping Container ID: _____ Air Bill # _____

- 1. Custody Seals on shipping container intact? NA [] Yes No []
- 2. Custody Seals dated and signed? NA [] Yes No []
- 3. Chain of Custody record present? NA [] Yes No []
- 4. Cooler Temperature: _____ NA 5. Vermiculite/packing materials is NA Wet [] Dry []

6. Number of samples in shipping container: 3

7. Sample holding times exceeded? NA Yes [] No []

8. Samples have:
 Tape 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 pH>2 [] pH>9 [] Amount HNO₃ Added _____

11. Sample Location, Sample Collector Listed? *
*For documentation only. No corrective action needed.

12. Were any anomalies identified in sample receipt? Yes [] No

13. Description of anomalies (include sample numbers): _____

Sample Custodian: [Signature] Date: 5808

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: 5 8 08 1500 GM Screen Result OK

Client: PGW SDG #: W05397 NA [] SAF #: 508-004 NA []

Work Order Number: J86780353 Chain of Custody # 508-004-861

Shipping Container ID: _____ Air Bill # _____

- 1. Custody Seals on shipping container intact? NA [] Yes No []
- 2. Custody Seals dated and signed? NA [] Yes No []
- 3. Chain of Custody record present? NA [] Yes No []
- 4. Cooler Temperature: _____ NA 5. Vermiculite/packing materials is NA Wet [] Dry []

6. Number of samples in shipping container: 1

7. Sample holding times exceeded? NA Yes [] No []

8. Samples have:

 Tape Hazard Labels

 / Custody Seals / Appropriate Sample Labels

9. Samples are:

 / In Good Condition Leaking

 Broken Have Air Bubbles

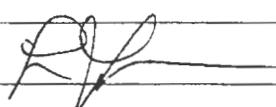
(Only for samples requiring no head space.)

10. Sample pH taken? NA [] pH<2 pH>2 pH>9 [] Amount HNO₃ Added _____

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: 5 8 08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client informed on _____ by _____ Person Contacted _____

[] No action necessary; process as is

Project Manager: _____ Date _____

TestAmerica

6/10/2008 10:18:00 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

Pipet #: 245

AnalyDueDate: 06/20/2008 W053977

Sep1 DT/Tm Tech:

Batch: 8134510 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

Prep Tech: HarrisD | Beck J.



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 KMNGV-1-AC J8E070119-3-SAMP 05/06/2008 09:56 AmtRec: VIAL20,2X500MLP,2XLP,4LP #Containers: 6	192.40g,in			1.5	48.8	50	10A	1449	6/11/08/ML	
2 KMNG9-1-AC J8E070119-4-SAMP 05/06/2008 11:04 AmtRec: VIAL20,2X500MLP,2XLP,4LP #Containers: 6	119.10g,in				54.3	100	10A	1145	6/11/08/ML	
3 KMQQ0-1-AA J8E070369-1-SAMP 05/07/2008 10:45 AmtRec: VIAL20,LP #Containers: 2	200.00g,in				52.7	50	10B	1449	6/11/08/ML	
4 KMQQ3-1-AA J8E070369-2-SAMP 05/07/2008 10:45 AmtRec: VIAL20,LP #Containers: 2	172.40g,in				46.2		10C			
5 KMQR3-1-AA J8E070373-1-SAMP 05/07/2008 10:55 AmtRec: VIAL20,4XLP,4LP #Containers: 6	200.20g,in				32.7		10D			
6 KMQR6-1-AA J8E070373-2-SAMP 05/07/2008 12:39 AmtRec: VIAL20,4XLP,4LP #Containers: 6	166.70g,in				46.4		10E			
7 KMVGX-1-AA J8E080353-1-SAMP 05/08/2008 13:59 AmtRec: 20ML,LP,3X4LP #Containers: 5	131.70g,in				48.4	100	10F	1145	6/11/08/ML	

93

TestAmerica

6/10/2008 10:18:02 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

Pipet #: _____

Analysis Due Date: 06/20/2008

Sep1 DT/Tm Tech: _____

Batch: 8134510 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SS, 57671

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:
8 KMGVX-1-AF-X J8E080353-1-DUP 05/08/2008 13:59		131.70g,in		1.5	48.1	100	100	1140		6/11/08
AmtRec: 20ML,LP,3X4LP #Containers: 5			Scr: Alpha: 3.13E-04 uCi/Sa Beta: 1.89E-03 uCi/Sa							
9 KM5HR-1-AA-B J8E130000-510-BLK 05/08/2008 13:59		200.20g,in			0.5		10D			
AmtRec: #Containers: 1			Scr: Alpha: Beta:							
10 KM5HR-1-AC-C J8E130000-510-LCS 05/08/2008 13:59		200.10g,in	ASD4488 05/27/08,pd		0.6		10E			
AmtRec: #Containers: 1			Scr: Alpha: Beta:							

Comments: KMNGV-SAMP *Comments: ISV for gamma dup. Please recount on a different detector. DLH 6/9/08*

PH20.0 Aliquot reduced due to wet screens 6/10/08

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

KMNGV1AC-SAMP Constituent List:

ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
KM5HR1AA-BLK:					
ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
KM5HR1AC-LCS:					
Am-241	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

KMNGV1AC-SAMP Calc Info:

Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KM5HR1AA-BLK:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KM5HR1AC-LCS:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B

TAL 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

ISV - Insufficient Volume for Analysis

WO Cnt: 10
Prep_SamplePrep v4.8.32

6/12/2008 12:00:21 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/13/2007, 6/17/2008, Batch: '8134510', User: 'ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
8134510				
AC	Rev1C	HarrisD	6/10/2008 10:11:04	
SC		wagarr	IsBatched	5/14/2008 10:29:16 AM ICOC_RADCALC v4.8.32
SC		HarrisD	InPrep	6/10/2008 10:11:04 AM RICH-RC-5014 Revision 7
SC		HarrisD	Prep1C	6/10/2008 10:18:04 AM RICH-RC-5014 REVISION 7
SC		BockJ	InPrep2	6/10/2008 11:37:32 AM RICH-RC-5014 REVISION 7
SC		BockJ	Prep2C	6/11/2008 12:33:11 PM RICH-RC-5014 REVISION 7
SC		ClarkR	InCnt1	6/11/2008 12:49:02 PM RICH-RD-0003 REVISION 5
SC		DAWKINSO	CalcC	6/11/2008 8:22:35 PM RICH-RD-0003 REVISION 5
SC		nortonj	Rev1C	6/12/2008 12:00:15 PM RICH-RC-0002 REV 8
AC		HarrisD	6/10/2008 10:18:04	
AC		BockJ	6/10/2008 11:37:32	
AC		BockJ	6/11/2008 12:33:11	
AC		ClarkR	6/11/2008 12:49:02	
AC		DAWKINSO	6/11/2008 8:22:35 PM	
AC		nortonj	6/12/2008 12:00:15	

AC: Accepting Entry; SC: Status Change

TAL Richland
Richland Wa.

TestAmerica

6/10/2008 10:08:22 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

Pipet #: *215*

AnalyDueDate: 06/20/2008 *W053917*

Sep1 DT/Tm Tech:

Batch: 8134511 WATER pCi/L PM, Quote: SS, 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 8134510 AZS7, 8134511 BCS8, 8134513 AWTA, 8134517 CLTL, 8134523 DHSS, 8134524 FPS5, 8134525 ARS6.

Prep Tech: HarrisD/*back*

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, Ini/Date	Comments:
1 KMNGQ-1-AC J8E070119-1-SAMP 05/06/2008 13:03 AmtRec: VIAL20,5XLP #Containers: 6	200.30g,in				<i>1.5</i>		<i>203</i>	<i>1016</i>	<i>11/10/08</i>	<i>92.8 NU</i>
2 KMNGT-1-AC J8E070119-2-SAMP 05/06/2008 13:03 AmtRec: VIAL20,5XLP #Containers: 6	200.20g,in						<i>203</i>			<i>90.1</i>
3 KMNGV-1-AD J8E070119-3-SAMP 05/06/2008 09:56 AmtRec: VIAL20,2X500MLP,2XLP,4LP #Containers: 6	200.20g,in						<i>200</i>			<i>75.2</i>
4 KMNG9-1-AD J8E070119-4-SAMP 05/06/2008 11:04 AmtRec: VIAL20,2X500MLP,2XLP,4LP #Containers: 6	169.30g,in						<i>200</i>			<i>121.1</i>
5 KMQQ0-1-AC J8E070369-1-SAMP 05/07/2008 10:45 AmtRec: VIAL20,LP #Containers: 2	200.40g,in						<i>27A</i>			<i>91.3</i>
6 KMQQ0-1-AD-X J8E070369-1-DUP 05/07/2008 10:45 AmtRec: VIAL20,LP #Containers: 2	200.10g,in						<i>27B</i>			<i>98.5</i>
7 KMQQ3-1-AC J8E070369-2-SAMP 05/07/2008 10:45 AmtRec: VIAL20,LP #Containers: 2	200.10g,in						<i>27C</i>			<i>94.7</i>

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TestAmerica

6/10/2008 10:08:23 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 06/20/2008

Sep1 DT/Tm Tech:

Batch: 8134511 WATER pCi/L

PM, Quote: SS, 57671

Sep2 DT/Tm Tech:

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 (24hr)	On Off Circle	CR Analyst, Init/Date	Comments:
8 KMQR3-1-AC J8E070373-1-SAMP 05/07/2008 10:55 AmtRec: VIAL20,4XLP,4LP #Containers: 6	200.30g,in				1.5	100	27D	1516		6/10/08	
9 KMQR6-1-AC J8E070373-2-SAMP 05/07/2008 12:39 AmtRec: VIAL20,4XLP,4LP #Containers: 6	166.70g,in				104.4		28A				
10 KMT8C-1-AA J8E080325-1-SAMP 05/08/2008 10:18 AmtRec: VIAL20,LP #Containers: 2	200.30g,in				40.7		28B				
11 KMT8K-1-AA J8E080325-2-SAMP 05/08/2008 09:42 AmtRec: VIAL20,LP #Containers: 2	200.40g,in				38.6		28C				
12 KMT8N-1-AA J8E080325-3-SAMP 05/08/2008 08:57 AmtRec: VIAL20,LP #Containers: 2	200.10g,in				56.7		28D				
13 KMVGX-1-AC J8E080353-1-SAMP 05/08/2008 13:59 AmtRec: 20ML,LP,3X4LP #Containers: 5	200.40g,in				122.8		71A				
14 KM5H0-1-AA-B J8E130000-511-BLK 05/07/2008 10:45 AmtRec: #Containers: 1	200.20g,in				φ		31B				

97

TestAmerica

6/10/2008 10:08:25 AM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 06/20/2008

Sep1 DT/Tm Tech: _____

Batch: 8134511
SEQ Batch, Test: None

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:
15 KM5H0-1-AC-C		200.20g.in	BESB3258							
J8E130000-511-LCS			05/27/08,pd	1.5	0.1	700	710	170		6/11/08 KC
05/07/2008 10:45		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:

Comments: KMNGQ-SAMP "Comments: ISV for alpha/beta sample bottle, strontium bottle used for sample. DLH 6/9/08"
 KMNGV-SAMP "Comments: ISV for gamma dup. Please recount on a different detector. DLH 6/9/08"
 PH20.0 August reduced due to ut screens DLH 6/10/08
 DLH 6/10/08
 DLH 6/10/08

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

KMNGQ1AC-SAMP Constituent List:

BETA	RDL:4.00E+00	pCi/L	LCL:	UCL:	RPD:
KM5H01AA-BLK:					
BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
KM5H01AC-LCS:					
Sr-90	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

KMNGQ1AC-SAMP Calc Info:

Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KM5H01AA-BLK:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KM5H01AC-LCS:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B

Approved By _____ Date: _____

98

6/12/2008 12:01:54 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/13/2007, 6/17/2008, Batch: '8134511', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
8134511				
AC	Rev1C	HarrisD	6/10/2008 9:47:59	
SC		wagarr	IsBatched	5/14/2008 10:29:16 AM ICOC_RADCALC v4.8.32
SC		HarrisD	InPrep	6/10/2008 9:47:59 AM RICH-RC-5014 Revision 7
SC		HarrisD	Prep1C	6/10/2008 10:08:43 AM RICH-RC-5014 REVISION 7
SC		BockJ	InPrep2	6/10/2008 11:37:40 AM RICH-RC-5014 REVISION 7
SC		BockJ	Prep2C	6/11/2008 12:33:19 PM RICH-RC-5014 REVISION 7
SC		ClarkR	InCnt1	6/11/2008 12:49:13 PM RICH-RD-0003 REVISION 5
SC		DAWKINSO	CalcC	6/11/2008 8:22:25 PM RICH-RD-0003 REVISION 5
SC		nortonj	Rev1C	6/12/2008 12:01:48 PM RICH-RC-0002 REV 8
AC		HarrisD	6/10/2008 10:08:43	
AC		BockJ	6/10/2008 11:37:40	
AC		BockJ	6/11/2008 12:33:19	
AC		ClarkR	6/11/2008 12:49:13	
AC		DAWKINSO	6/11/2008 8:22:25 PM	
AC		nortonj	6/12/2008 12:01:48	

AC: Accepting Entry; SC: Status Change

TAL Richland
Richland Wa.

TestAmerica

6/13/2008 12:05:03 PM

Sample Preparation/Analysis

Balance Id:1120373922,E32905

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 06/20/2008

Sept1 DT/Tm Tech: 06/06/2008 11:35,ManisD

Batch: 8134517 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SS, 57671

Sept2 DT/Tm Tech: 06/13/2008 08:39,ManisD

Prep Tech: HarrisD,ManisD



Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KMNGQ-1-AD J8E070119-1-SAMP	1001.07g,in		SRTB16231 05/21/08,pd 05/22/07		1.0	21	100	3A	0741	6/15/08	
06/06/2008 11:35:s1;06/13/2008											
05/06/2008 13:03 AmtRec: VIAL20,5XLP #Containers: 6 Scr: Alpha: 5.94E-07 uCi/Sa Beta: 4.72E-07 uCi/Sa											
2 KMNGT-1-AD J8E070119-2-SAMP	1002.48g,in		SRTB16232 05/21/08,pd 05/22/07		1.0	21.9	100	3B	0741	6/15/08	
06/06/2008 11:35:s1;06/13/2008											
05/06/2008 13:03 AmtRec: VIAL20,5XLP #Containers: 6 Scr: Alpha: 2.12E-07 uCi/Sa Beta: 7.48E-07 uCi/Sa											
3 KMQR3-1-AE J8E070373-1-SAMP	1000.31g,in		SRTB16233 05/21/08,pd 05/22/07		1.0	21.5	100	3D	0741	6/15/08	
06/06/2008 11:35:s1;06/13/2008											
05/07/2008 10:55 AmtRec: VIAL20,4XLP,4LP #Containers: 6 Scr: Alpha: -6.89E-04 uCi/Sa Beta: 9.32E-04 uCi/Sa											
4 KMQR3-1-AF-X J8E070373-1-DUP	998.89g,in		SRTB16234 05/21/08,pd 05/22/07		1.0	21.6	100	4A	0741	6/15/08	
06/06/2008 11:35:s1;06/13/2008											
05/07/2008 10:55 AmtRec: VIAL20,4XLP,4LP #Containers: 6 Scr: Alpha: -6.89E-04 uCi/Sa Beta: 9.32E-04 uCi/Sa											

205397

3A 0741 6/15/08

3B 0741 6/15/08

3B 0741 6/15/08

3C 0741 6/15/08

4A 0741 6/15/08

3D 0741 6/15/08

100

TestAmerica

6/13/2008 12:05:04 PM

Sample Preparation/Analysis

Balance Id:1120373922,1120373922,1120

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalysisDueDate: 06/20/2008

Sep1 DT/Tm Tech: 06/06/2008 11:35,ManisD

Batch: 8134517 WATER

pCi/L

PM, Quote: SS , 57671

Sep2 DT/Tm Tech: 06/13/2008 08:39,ManisD

SEQ Batch, Test: None

Prep Tech: ,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:
5 KMQR6-1-AE J8E070373-2-SAMP		1003.46g,in	SRTB16235 05/21/08,pd 05/22/07		1.0	22	100	43	0741	6/14/08	
06/06/2008 11:35:s1; 06/13/2008											

05/07/2008 12:39 AmtRec: VIAL20,4XLP,4LP #Containers: 6 Scr: Alpha: 6.47E-04 uCi/Sa Beta: 5.79E-04 uCi/Sa

6 KM5H9-1-AA-B J8E130000-517-BLK		1001.26g,in	SRTB16236 05/21/08,pd 05/22/07		1.0	22.1	100	4C	0741	6/14/08	
06/06/2008 11:35:s1; 06/13/2008											

05/07/2008 10:55 AmtRec: #Containers: 1 Scr: Alpha: Beta:

7 KM5H9-1-AC-C J8E130000-517-LCS		1001.13g,in	SRSg1469 04/11/08,pd 05/22/07		1.0	20.9	100	4D	0741	6/14/08	
06/06/2008 11:35:s1; 06/13/2008											

05/07/2008 10:55 AmtRec: #Containers: 1 Scr: Alpha: Beta:

Comments: KMNGQ-SAMP *Comments: ISv for alpha/beta sample bottle, strontium bottle used for sample. DLH 9/10/08"

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

KMNGQ1AD-SAMP Constituent List:

101

TestAmerica

6/13/2008 12:05:04 PM

Sample Preparation/Analysis

Balance Id:1120373922,1120373922,1120

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

Pipet #: _____

AnalyDueDate: 06/20/2008

Sep1 DT/Tm Tech: 06/06/2008 11:35,ManisD

Batch: 8134517
 SEQ Batch, Test: None

pCi/L

Sep2 DT/Tm Tech: 06/13/2008 08:39,ManisD

Prep Tech: 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:
Sr-85 RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:70	UCL:130	RPD:20	
KM5H91AA-BLK:											
Sr-85 RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:	UCL:	RPD:	
KM5H91AC-LCS:											
Sr-85 RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:70	UCL:130	RPD:20	
KMNGQ1AD-SAMP Calc Info:											
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B							
KM5H91AA-BLK:											
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B							
KM5H91AC-LCS:											
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B							

Approved By _____ Date: _____

102

6/16/2008 2:57:56 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/17/2007, 6/21/2008, Batch: '8134517', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
8134517				
AC	Rev1C	LucasD	5/28/2008 2:58:01 PM	
SC		wagarr	IsBatched 5/14/2008 10:29:16 AM	ICOC_RADCALC v4.8.32
SC		LucasD	InPrep 5/28/2008 2:58:01 PM	RICH-RC-5016 Revision 7
SC		ManisD	InSep1 5/29/2008 8:34:43 AM	RICH-RC-5006 REV 7
SC		ManisD	Sep1C 6/6/2008 11:52:24 AM	RICH-RC-5006 REV 7
SC		BlackCL	InCnt1 6/6/2008 12:15:37 PM	RICH-RD-0007 REVISION 6
SC		DAWKINSO	Cnt1C 6/6/2008 8:00:42 PM	RICH-RD-0007 REVISION 6
SC		ManisD	Sep2C 6/13/2008 12:06:51 PM	RICH-RC-5071 REV 5
SC		ClarkR	InCnt1 6/13/2008 12:22:56 PM	RICH-RD-0003 REVISION 5
SC		BlackCL	CalcC 6/15/2008 7:17:55 AM	RICH-RD-0003 REVISION 5
SC		nortonj	Rev1C 6/16/2008 2:57:49 PM	RICH-RC-0002 REV 8
AC		ManisD	5/29/2008 8:34:43	
AC		ManisD	6/6/2008 11:52:24	
AC		BlackCL	6/6/2008 12:15:37 PM	
AC		DAWKINSO	6/6/2008 8:00:42 PM	
AC		ManisD	6/13/2008 12:06:51	
AC		ClarkR	6/13/2008 12:22:56	
AC		BlackCL	6/15/2008 7:17:55	
AC		nortonj	6/16/2008 2:57:49 PM	

AC: Accepting Entry; SC: Status Change

TAL Richland
Richland Wa.

TestAmerica

6/9/2008 3:43:07 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

AW Gamma PrpRC5017
TA Gamma by HPGE
SI CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 06/20/2008 *105397*

Sep1 DT/Tm Tech: _____

Batch: 8134513 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SS, 57671

Sep2 DT/Tm Tech: _____

Prep Tech: HarrisD/Beck

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 KMNGV-1-AE J8E070119-3-SAMP 05/06/2008 09:56 AmtRec: VIAL20,2X500MLP,2XLP,4LP #Containers: 6	2000.00g,in			1	100mm	200	G10	1332		6/11/08
2 KMNGV-1-AH-X J8E070119-3-DUP 05/06/2008 09:56 AmtRec: VIAL20,2X500MLP,2XLP,4LP #Containers: 6							G15	1706		6/11/08
3 KMNG9-1-AE J8E070119-4-SAMP 05/06/2008 11:04 AmtRec: VIAL20,2X500MLP,2XLP,4LP #Containers: 6	2000.10g,in						G7	1732		6/11/08
4 KMQR3-1-AD J8E070373-1-SAMP 05/07/2008 10:55 AmtRec: VIAL20,4XLP,4LP #Containers: 6	2000.30g,in						G14	1773		
5 KMQR6-1-AD J8E070373-2-SAMP 05/07/2008 12:39 AmtRec: VIAL20,4XLP,4LP #Containers: 6	2000.30g,in						G15	1774		
6 KMVGX-1-AD J8E080353-1-SAMP 05/08/2008 13:59 AmtRec: 20ML,LP,3X4LP #Containers: 5	2000.40g,in						G11	1640		6/11/08
7 KM5H6-1-AA-B J8E130000-513-BLK 05/06/2008 09:56 AmtRec: #Containers: 1	2000.50g,in						G5	1641		

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TestAmerica

6/9/2008 3:43:08 PM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 06/20/2008

Sep1 DT/Tm Tech: _____

Batch: 8134513
SEQ Batch, Test: None

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:
8 KM5H6-1-AC-C J8E130000-513-LCS 05/06/2008 09:56		2000.10g,in	QCAG1478 04/23/08,pd 06/11/08		20ml	200	56	1642	L11/08/08	
AmtRec:			#Containers: 1			Scr:	Alpha:	Beta:		

Comments: KMNGV-SAMP "Comments: ISV for gamma dup. Please recount on a different detector. DLH 6/9/08"

PH20.0 DLH 6/9/08

All Clients for Batch:

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

KMNGV1AE-SAMP Constituent List:

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

KM5H61AA-BLK:

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

KM5H61AC-LCS:

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

KMNGV1AE-SAMP Calc Info:

Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KM5H61AA-BLK:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KM5H61AC-LCS:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B

105

TestAmerica

6/9/2008 3:43:09 PM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 06/20/2008

Sep1 DT/Tm Tech: _____

Batch: 8134513
SEQ Batch, Test: None

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:
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Approved By _____ Date: _____

106

6/12/2008 1:00:07 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/13/2007, 6/17/2008, Batch: '8134513', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
8134513				
AC	Rev1C	HarrisD	6/9/2008 3:29:13 PM	
SC		wagarr	IsBatched	5/14/2008 10:29:16 AM
SC		HarrisD	InPrep	6/9/2008 3:29:13 PM
SC		HarrisD	Prep1C	6/9/2008 3:43:09 PM
SC		BockJ	InPrep2	6/10/2008 7:14:04 AM
SC		BockJ	Prep2C	6/11/2008 10:07:50 AM
SC		ClarkR	InCnt1	6/11/2008 10:10:02 AM
SC		DAWKINSO	CalcC	6/11/2008 8:24:02 PM
SC		nortonj	Rev1C	6/12/2008 12:59:50 PM
AC		HarrisD	6/9/2008 3:43:09 PM	
AC		BockJ	6/10/2008 7:14:04	
AC		BockJ	6/11/2008 10:07:50	
AC		ClarkR	6/11/2008 10:10:02	
AC		DAWKINSO	6/11/2008 8:24:02 PM	
AC		nortonj	6/12/2008 12:59:50	

AC: Accepting Entry; SC: Status Change

TAL Richland
Richland Wa.

TestAmerica

6/6/2008 11:59:25 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 06/20/2008 *W05397*

Sep1 DT/Tm Tech:

Batch: 8134516 WATER pCi/L

PM, Quote: SS, 57671

Sep2 DT/Tm Tech:

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:
1 KMQQ8-1-AA J8E070372-1-SAMP 05/07/2008 09:38 AmtRec: VIAL20,2X4LP #Containers: 3	3894.30g,in	3894.30g,in	ITA7292 05/21/08			100	L2	1236		6/15/08 <i>me</i>
2 KMQQ8-1-AC-X J8E070372-1-DUP 05/07/2008 09:38 AmtRec: VIAL20,2X4LP #Containers: 3	3873.00g,in	3873.00g,in	ITA7293 05/21/08				L4	1238		
3 KMSGX-1-AE J8E080353-1-SAMP 05/08/2008 13:59 AmtRec: 20ML,LP,3X4LP #Containers: 5	3859.20g,in	3859.20g,in	ITA7294 05/21/08				L5	1238		
4 KM5H7-1-AA-B J8E130000-516-BLK 05/07/2008 09:38 AmtRec: #Containers: 1	3842.00g,in	3842.00g,in	ITA7295 05/21/08				L2	1426		6/15/08 <i>me</i>
5 KM5H7-1-AC-C J8E130000-516-LCS 05/07/2008 09:38 AmtRec: #Containers: 1	3833.60g,in	3833.60g,in	ISD0851 04/22/08				L4	1428		

Comments: *DLH 6/6/08*

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

KMQQ81AA-SAMP Constituent List:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:

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

ISV - Insufficient Volume for Analysis

WO Cnt: 5
Prep_SamplePrep v4.8.32

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6/19/2008 11:07:23 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/20/2007, 6/24/2008, Batch: '8134516', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
8134516				
AC	Rev1C	HarrisD	6/6/2008 10:48:49	
SC		wagarr	IsBatched 5/14/2008 10:29:16 AM	ICOC_RADCALC v4.8.32
SC		HarrisD	InPrep 6/6/2008 10:48:49 AM	RICH-RC-5014 Revision 7
SC		HarrisD	Prep1C 6/6/2008 11:59:14 AM	RICH-RC-5017 REVISION 6
SC		BostedD	Prep2C 6/9/2008 3:53:30 PM	RICHRC5025 REVISION 4
SC		BostedD	Prep2C 6/18/2008 10:48:14 AM	RICHRC5025 REVISION 4
SC		ClarkR	InCnt1 6/18/2008 10:54:46 AM	RICH-RD-0007 REVISION 6
SC		DAWKINSO	CalcC 6/18/2008 7:24:50 PM	RICH-RD-0007 REVISION 6
SC		antonsonl	Rev1C 6/19/2008 11:07:16 AM	RICH-RC-0002 REV 8
AC		HarrisD	6/6/2008 11:59:14	
AC		BostedD	6/9/2008 3:53:30 PM	
AC		BostedD	6/18/2008 10:48:14	
AC		ClarkR	6/18/2008 10:54:46	
AC		DAWKINSO	6/18/2008 7:24:50 PM	
AC		antonsonl	6/19/2008 11:07:16	

AC: Accepting Entry; SC: Status Change

TestAmerica Richland
Richland Wa.

TestAmerica

5/28/2008 11:40:06 AM

Sample Preparation/Analysis

Balance Id:1120373922

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 06/20/2008

Sep1 DT/Tm Tech:

Batch: 8134524 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SS, 57671

Sep2 DT/Tm Tech:

Prep Tech: ,LucasD



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, In/Date	Comments:
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1 KMNGV-1-AF			125.46g,in	125.46g						
J8E070119-3-SAMP										
05/06/2008 09:56			AmtRec: VIAL20,2X500MLP,2XLP,4LP #Containers: 6					Scr: Alpha: 5.15E-05 uCi/Sa	Beta: 2.75E-04 uCi/Sa	
2 KMNGV-1-AK-X			125.79g,in	125.79g						
J8E070119-3-DUP										
05/06/2008 09:56			AmtRec: VIAL20,2X500MLP,2XLP,4LP #Containers: 6					Scr: Alpha: 5.15E-05 uCi/Sa	Beta: 2.75E-04 uCi/Sa	
3 KMNG9-1-AF			125.35g,in	125.35g						
J8E070119-4-SAMP										
05/06/2008 11:04			AmtRec: VIAL20,2X500MLP,2XLP,4LP #Containers: 6					Scr: Alpha: 9.47E-04 uCi/Sa	Beta: -5.75E-04 uCi/Sa	
4 KMNG9-1-AJ-S			125.09g,in	125.09g	TCSG2058					
J8E070119-4-MS					05/20/08,pd 01/10/06,r					
05/06/2008 11:04			AmtRec: VIAL20,2X500MLP,2XLP,4LP #Containers: 6					Scr: Alpha: 9.47E-04 uCi/Sa	Beta: -5.75E-04 uCi/Sa	
5 KM5JX-1-AA-B			125.46g,in	125.46g						
J8E130000-524-BLK										
05/06/2008 09:56			AmtRec:	#Containers: 1				Scr: Alpha:	Beta:	
6 KM5JX-1-AC-C			125.45g,in	125.45g	TCSE2217					
J8E130000-524-LCS					02/18/08,pd 01/10/06,r					
05/06/2008 09:56			AmtRec:	#Containers: 1				Scr: Alpha:	Beta:	
7 KM5JX-1-AD-BN										
J8E130000-524-IBLK										
05/06/2008 09:56			AmtRec:	#Containers: 1				Scr: Alpha:	Beta:	

60 ml

4

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TestAmerica

5/28/2008 11:40:08 AM

Sample Preparation/Analysis

Balance Id: _____

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

Pipet #: _____

AnalyDueDate: 06/20/2008

Sep1 DT/Tm Tech: _____

Batch: 8134524

pCi/L

Sep2 DT/Tm Tech: _____

SEQ Batch, Test: None

Prep Tech: _____



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

All Clients for Batch:

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

KMNGV1AF-SAMP Constituent List:

Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20

KMNG91AJ-MS:

KM5JX1AA-BLK:

Tc-99 RDL:15 pCi/L LCL: UCL: RPD:

KM5JX1AC-LCS:

Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20

KM5JX1AD-IBLK:

Tc-99 RDL:15 pCi/L LCL: UCL: RPD:

KMNGV1AF-SAMP Calc Info:

Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KMNG91AJ-MS:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KM5JX1AA-BLK:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KM5JX1AC-LCS:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KM5JX1AD-IBLK:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B

Approved By _____

Date: _____

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6/9/2008 7:48:52 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/10/2007, 6/14/2008, Batch: '8134524', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments	
8134524					
AC		Rev1C	LucasD	5/28/2008 11:30:16	
SC		wagarr	IsBatched	5/14/2008 10:29:16 AM	ICOC_RADCALC v4.8.32
SC		LucasD	InPrep	5/28/2008 11:30:16 AM	RICH-RC-5016 Revision 7
SC		Barcotl	InPrep	6/2/2008 4:01:54 PM	RICH-RC-5065 REV 6
SC		Barcotl	Prep1C	6/2/2008 4:02:21 PM	RICH-RC-5065 REV 6
SC		DAWKINSO	InCnt1	6/2/2008 4:30:29 PM	RICH-RD-0001 REVISION 4
SC		BlackCL	CalcC	6/3/2008 7:07:42 AM	RICH-RD-0001 REVISION 4
SC		nortonj	Rev1C	6/9/2008 7:48:43 AM	RICH-RC-0002 REV 8
AC		Barcotl		6/2/2008 4:01:54 PM	
AC		Barcotl		6/2/2008 4:02:21 PM	
AC		DAWKINSO		6/2/2008 4:30:29 PM	
AC		BlackCL		6/3/2008 7:07:42 AM	
AC		nortonj		6/9/2008 7:48:43 AM	

AC: Accepting Entry, SC: Status Change

TAL Richland
Richland Wa.

TestAmerica

5/14/2008 10:26:56 AM

Sample Preparation/Analysis

Balance Id: 1.2445

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 06/20/2008 **W05397**

Sep1 DT/Tm Tech: 6.3 08 AM

Batch: 8134525 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SS, 57671

Sep2 DT/Tm Tech: _____

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:
1 KMNGQ-1-AA								
J8E070119-1-SAMP								
05/06/2008 13:03		AmtRec: VIAL20,5XLP	#Containers: 6			Scr:	Alpha:	Beta:
2 KMNGT-1-AA								
J8E070119-2-SAMP								
05/06/2008 13:03		AmtRec: VIAL20,5XLP	#Containers: 6			Scr:	Alpha:	Beta:
3 KMNGV-1-AA								
J8E070119-3-SAMP								
05/06/2008 09:56		AmtRec: VIAL20,2X500MLP,2XLP,4LP	#Containers: 6			Scr:	Alpha:	Beta:
4 KMNG9-1-AA								
J8E070119-4-SAMP								
05/06/2008 11:04		AmtRec: VIAL20,2X500MLP,2XLP,4LP	#Containers: 6			Scr:	Alpha:	Beta:
5 KMNG9-1-AK-X								
J8E070119-4-DUP								
05/06/2008 11:04		AmtRec: VIAL20,2X500MLP,2XLP,4LP	#Containers: 6			Scr:	Alpha:	Beta:
6 KM5J3-1-AA-B								
J8E130000-525-BLK								
05/06/2008 11:04		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
7 KM5J3-1-AC-C								
J8E130000-525-LCS								
05/06/2008 11:04		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

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TestAmerica

5/14/2008 10:26:57 AM

Sample Preparation/Analysis

Balance Id: 12445

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

Pipet #: _____

AnalyDueDate: 06/20/2008

Sep1 DT/Tm Tech: 6-3-08 PM

Batch: 8134525
SEQ Batch, Test: None

pCi/L

Sep2 DT/Tm Tech: _____

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:
8 KM5J3-1-AD-B								
J8E130000-525-BLK								
05/06/2008 11:04		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
9 KM5J3-1-AE-C								
J8E130000-525-LCS								
05/06/2008 11:04		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
10 KM5J3-1-AF-B								
J8E130000-525-BLK								
05/06/2008 11:04		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
11 KM5J3-1-AG-B								
J8E130000-525-BLK								
05/06/2008 11:04		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

All Clients for Batch:

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

KMNGQ1AA-SAMP Constituent List:

H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
KM5J31AA-BLK:
KM5J31AC-LCS:
KM5J31AD-BLK:

TAL 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

ISV - Insufficient Volume for Analysis

WO Cnt: 11

ICOC v4.8.32

114

TESTAMERICA

5/14/2008 10:26:57 AM

Sample Preparation/Analysis

Balance Id: 12445

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

Pipet #: _____

AnalyDueDate: 06/20/2008

Sep1 DT/Tm Tech: G-3.084v

Batch: 8134525 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech: _____

Prep Tech: _____



Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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KM5J31AE-LCS:

KM5J31AF-BLK:

KM5J31AG-BLK:

KMNGQ1AA-SAMP Calc Info:

Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KM5J31AA-BLK:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KM5J31AC-LCS:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KM5J31AD-BLK:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KM5J31AE-LCS:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KM5J31AF-BLK:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KM5J31AG-BLK:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B

Approved By _____ Date: _____

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6/9/2008 7:37:31 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/10/2007, 6/14/2008, Batch: '8134525', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
8134525				
AC	Rev1C	McDowellD	6/3/2008 8:47:02 AM	
SC		wagarr	IsBatched 5/14/2008 10:29:16 AM	ICOC_RADCALC v4.8.32
SC		McDowellD	InSep1 6/3/2008 8:47:02 AM	RICH-RC-5007 REVISION 6
SC		McDowellD	Sep1C 6/3/2008 2:37:34 PM	RICH-RC-5007 REVISION 6
SC		nortonj	Rev1C 6/9/2008 7:37:19 AM	RICH-RC-0002 REV 8
AC		McDowellD	6/3/2008 2:37:34 PM	
AC		nortonj	6/9/2008 7:37:19 AM	

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

TestAmerica

6/5/2008 2:58:06 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 06/20/2008 **W05397**

Sep1 DT/Tm Tech: _____

Batch: 8134523 WATER ug/L

PM, Quote: SS , 57671

Sep2 DT/Tm Tech: _____

SEQ Batch, Test: None

Prep Tech: ,HarrisD / *Paul J.*



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, Ini/Date	Comments:
1 KMNGV-1-AG J8E070119-3-SAMP 05/06/2008 09:56		25.10g,in						
 AmtRec: VIAL20,2X500MLP,2XLP,4LP #Containers: 6 Scr: Alpha: 5.15E-05 uCi/Sa Beta: 2.75E-04 uCi/Sa								
2 KMNGV-1-AJ-X J8E070119-3-DUP 05/06/2008 09:56		25.10g,in						
 AmtRec: VIAL20,2X500MLP,2XLP,4LP #Containers: 6 Scr: Alpha: 5.15E-05 uCi/Sa Beta: 2.75E-04 uCi/Sa								
3 KMNG9-1-AG J8E070119-4-SAMP 05/06/2008 11:04		25.20g,in						
 AmtRec: VIAL20,2X500MLP,2XLP,4LP #Containers: 6 Scr: Alpha: 9.47E-04 uCi/Sa Beta: -5.75E-04 uCi/Sa								
4 KMNG9-1-AH-S J8E070119-4-MS 05/06/2008 11:04		25.10g,in	UNSF4229					
 AmtRec: VIAL20,2X500MLP,2XLP,4LP #Containers: 6 Scr: Alpha: 9.47E-04 uCi/Sa Beta: -5.75E-04 uCi/Sa								
5 KMQQ5-1-AA J8E070369-3-SAMP 05/07/2008 11:36		25.00g,in						
 AmtRec: VIAL20,500MLP #Containers: 2 Scr: Alpha: 7.57E-05 uCi/Sa Beta: -7.97E-05 uCi/Sa								
6 KMSJT-1-AA-B J8E130000-523-BLK 05/06/2008 09:56		25.10g,in						
 AmtRec: #Containers: 1 Scr: Alpha: Beta:								
7 KMSJT-1-AC-C J8E130000-523-LCS 05/06/2008 09:56		25.10g,in	UNSF4230					
 AmtRec: #Containers: 1 Scr: Alpha: Beta:								

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TestAmerica

6/5/2008 2:58:08 PM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #:

AnalyDueDate: 06/20/2008

Sep1 DT/Tm Tech:

Batch: 8134523

ug/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: HarrisD



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:
8 KM5JT-1-AD-C		24.80g.in	UNSC2518					
J8E130000-523-LCS			05/22/08,pd					
05/06/2008 09:56		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments: PH20 OUT 6/5/08

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

KMINGV1AG-SAMP	Constituent List:	RDL:	ug/L	LCL:	UCL:	RPD:
KMING91AH-MS:	Uranium	1.44E-01				
KM5JT1AA-BLK:	Uranium	1.44E-01				
KM5JT1AC-LCS:	Uranium	0.144343		LCL:70	UCL:130	RPD:20
KM5JT1AD-LCS:	Uranium	0.144343		LCL:70	UCL:130	RPD:20
KMINGV1AG-SAMP	Calc Info:					
KMING91AH-MS:	Uncert Level (#s):	2		Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y ODRs: B
KM5JT1AA-BLK:	Uncert Level (#s):	2		Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y ODRs: B
KM5JT1AC-LCS:	Uncert Level (#s):	2		Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y ODRs: B
KM5JT1AD-LCS:	Uncert Level (#s):	2		Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

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6/13/2008 1:00:10 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/14/2007, 6/18/2008, Batch: '8134523', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
8134523				
AC	Rev1C	HarrisD	6/5/2008 2:53:14 PM	
SC		wagarr	IsBatched 5/14/2008 10:29:16 AM	ICOC_RADCALC v4.8.32
SC		HarrisD	InPrep 6/5/2008 2:53:14 PM	RICH-RC-5014 Revision 7
SC		HarrisD	Prep1C 6/5/2008 2:58:08 PM	RICH-RC-5015 REVISION 6
SC		BockJ	InPrep2 6/11/2008 9:49:49 AM	RICH-RC-5015 REVISION 6
SC		BockJ	Prep2C 6/12/2008 1:37:15 PM	RICH-RC-5015 REVISION 6
SC		NelsonT	Cnt1C 6/12/2008 3:02:21 PM	RICH-RC-5058 REV 7
SC		nortonj	Rev1C 6/13/2008 1:00:04 PM	RICH-RC-0002 REV 8
AC		HarrisD	6/5/2008 2:58:08 PM	
AC		BockJ	6/11/2008 9:49:49	
AC		BockJ	6/12/2008 1:37:15 PM	
AC		NelsonT	6/12/2008 3:02:21 PM	
AC		nortonj	6/13/2008 1:00:04 PM	

AC: Accepting Entry; SC: Status Change

TAL Richland
Richland Wa.

Due 6/16

TestAmerica

5/14/2008 10:26:57 AM

Sample Preparation/Analysis

Balance Id: *N/A*

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
IZ COLIFORM BY METHOD 9223

Pipet #: _____

AnalYDueDate: 06/20/2008 *W05397*

5I CLIENT: HANFORD

Sep1 DT/Tm Tech: *5-708 am*

Batch: 8134526 WATER

PM, Quote: SS , 57671

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:
1 KMQPA-1-AA								
J8E070363-1-SAMP 05/07/2008 08:56								
		AmtRec: VIAL20,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
2 KMQPA-1-AC-X								
J8E070363-1-DUP 05/07/2008 08:56								
		AmtRec: VIAL20,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
3 KMQPD-1-AA								
J8E070363-2-SAMP 05/07/2008 13:46								
		AmtRec: VIAL20,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
4 KMQPF-1-AA								
J8E070363-3-SAMP 05/07/2008 09:50								
		AmtRec: VIAL20,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
5 KMQPJ-1-AA								
J8E070363-4-SAMP 05/07/2008 10:46								
		AmtRec: VIAL20,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
6 KMQPN-1-AA								
J8E070363-5-SAMP 05/07/2008 11:40								
		AmtRec: VIAL20,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
7 KM5J8-1-AA-B								
J8E130000-526-BLK 05/07/2008 08:56								
		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

120

TestAmerica

5/14/2008 10:26:57 AM

Sample Preparation/Analysis

Balance Id: *N/A*

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
IZ COLIFORM BY METHOD 9223
SI CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 06/20/2008

Sep1 DT/Tm Tech: *5708*

Batch: 8134526

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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8 KM5J8-1-AC-C

J8E130000-526-LCS

05/07/2008 08:56	AmtRec:	#Containers: 1	Scr:	Alpha:	Beta:
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Comments:

All Clients for Batch:

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

KMQPA1AA-SAMP Constituent List:

KM5J81AA-BLK:

KM5J81AC-LCS:

KMQPA1AA-SAMP Calc Info:

Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KM5J81AA-BLK: Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KM5J81AC-LCS: Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B

Approved By _____ Date: _____

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