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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: 39628

RECEIVED JULY 31, 2008

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05427	A08-006	B1VJJ0	J8F170168-1	KP3A91AA	9KP3A910	8178538
		B1VJJ2	J8F170168-2	KP44H1AA	9KP44H10	8178538
	S08-006	B1VLV9	J8F170170-1	KP3E11AA	9KP3E110	8178538
		B1VM24	J8F170170-2	KP3FT1AA	9KP3FT10	8178538
		B1VM40	J8F170170-3	KP3F41AA	9KP3F410	8178538
		B1VLL1	J8F170170-4	KP3F81AA	9KP3F810	8178539
	W08-006	B1VNX2	J8F170176-1	KP3K41AA	9KP3K410	8178539
		B1VRH0	J8F170176-10	KP3RC1AA	9KP3RC10	8178542
	W08-006	B1VNY6	J8F170176-2	KP3LA1AA	9KP3LA10	8178539
		B1VP13	J8F170176-3	KP3LG1AA	9KP3LG10	8178539
		B1VP33	J8F170176-4	KP3LK1AA	9KP3LK10	8178539
		B1VP49	J8F170176-5	KP3LL1AA	9KP3LL10	8178539
		B1VP65	J8F170176-6	KP3QN1AA	9KP3QN10	8178539
		B1VP81	J8F170176-7	KP3Q01AA	9KP3Q010	8178539
		B1VP98	J8F170176-8	KP3Q31AA	9KP3Q310	8178539

Comments:

0080010

Report Nbr: 39628

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05427	W08-006	B1VRB7	J8F170176-9	KP3Q71AA	9KP3Q710	8178542
	I08-040	B1VKD3	J8F200311-1	KQC3N1AA	9KQC3N10	8175218
	S08-001	B1RTP4	J8F240165-1	KQGL91AC	9KQGL910	8178541
		B1RTP4	J8F240165-1	KQGL91AD	9KQGL910	8178539
		B1RTP4	J8F240165-1	KQGL91AE	9KQGL910	8178538
		B1RTP4	J8F240165-1	KQGL91AF	9KQGL910	8178544
		B1RTP4	J8F240165-1	KQGL92AA	9KQGL920	8203176
	W08-006	B1VRD0	J8F240167-1	KQGMW1A	9KQGMW10	8178542
	W08-005	B1V886	J8F240171-1	KQGM91AA	9KQGM910	8178545

Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

July 31, 2008

Attention: Steve Trent

SAF Number	:	A08-006, S08-006, W08-006, I08-040, S08-001, W08-005
Date SDG Closed	:	June 23, 2008
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05427
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between June 16, 2008 and June 23, 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:

PGW ID#	STLR ID#	DATE OF RECEIPT	MATRIX
B1VJJ0	KP3A9	6/16/08	WATER
B1VJJ2	KP44H	6/16/08	WATER
B1VLV9	KP3E1	6/16/08	WATER
B1VM24	KP3FT	6/16/08	WATER
B1VM40	KP3F4	6/16/08	WATER
B1VLL1	KP3F8	6/16/08	WATER
B1VNX2	KP3K4	6/16/08	WATER
B1VNY6	KP3LA	6/16/08	WATER
B1VP13	KP3LG	6/16/08	WATER
B1VP33	KP3LK	6/16/08	WATER
B1VP49	KP3LL	6/16/08	WATER
B1VP65	KP3QN	6/16/08	WATER
B1VP81	KP3Q0	6/16/08	WATER

B1VP98	KP3Q3	6/16/08	WATER
B1VRB7	KP3Q7	6/16/08	WATER
B1VRH0	KP3RC	6/16/08	WATER
B1VKD3	KQC3N	6/20/08	WATER
B1RTP4	KQGL9	6/23/08	WATER
B1VRD0	KQGMW	6/23/08	WATER
B1V886	KQGM9	6/23/08	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
Technetium-99 by method RICH-RC-5078
Chemical Analysis
Hexavalent Chromium by EPA method 7196A
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 B1RTP4 and B1RTP4 DUP were analyzed with reduced volumes based on weight screen results.

The LCS failed on the first analysis. A recount did not improve the yield. The entire batch was reanalyzed.

Except as noted, the LCS, batch blank, samples and sample duplicate (B1RTP4) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:

The LCS, batch blank, samples and sample duplicate (B1RTP4) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006

The LCS, batch blank, samples and sample duplicate (B1RTP4) results are within contractual requirements.

Gamma Spectroscopy

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

There was insufficient volume for a duplicate. Sample B1VP98 was recounted on a different detector for the duplicate (B1VP98 DUP). Except as noted, the LCS, batch blank, samples and sample duplicate (B1VP98) results are within contractual requirements.

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

The LCS, batch blank, samples and sample duplicate (B1VJJ0) results are within contractual requirements.

Liquid Scintillation Counting

Technetium-99 by method RICH-RC-5078:

The LCS, batch blank, samples, sample duplicate (B1VRD0), and sample matrix spike (B1VRD0) results are within contractual requirements.

Chemical Analysis

Total Coliform by method 9223

The LCS, batch blank, samples and sample duplicate (B1V886) results are within contractual requirements.

Hexavalent Chromium by EPA method 7196A

The LCS, batch blank, samples, sample duplicate (B1VKD3), sample matrix spike (B1VKD3), and matrix spike duplicate (B1VKD3) results are within contractual requirements.

Fluor Hanford
July 31, 2008

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

Reviewed and approved:

Sandra Seger
Project Manager

Drinking Water Method Cross References

	DRINKING WATER ASTM METHOD CROSS REFERENCES	
Referenced Method	**Isotope(s)**	**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 = constants * f(x,y,z,...). The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/?n), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or 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) ***u_c - Combined Uncertainty.***	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, ***u_c the combined uncertainty.*** The uncertainty is absolute and in the same units as the result.
(#s). Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or 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 * Sqrt(2*(BkgrndCnt/BkgrndCntMin)/SCntMin)) * (ConvFct/(Eff*Yld*Abn*Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC|MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. MDC = (4.65 * Sqrt((BkgrndCnt/BkgrndCntMin)/SCntMin) + 2.71/SCntMin) * (ConvFct/(Eff * Yld * Abn * Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the **Work Order** Number.
RER	The equation Replicate Error Ratio = (S-D)/[sqrt($TPUs^2$ + $TPUd^2$)] as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by 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.

7/31/2008 11:16:27 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 39628 File Name: h:\Reportdb\edd\FeadIV\Rad\W05427.Edd, h:\Reportdb\edd\FeadIV\Rad\39628.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:
9KP3A910	B1VJJ0		MW6-SBB-A1	A08-006	W05427					06/12/2008 10:22

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8178538	I-129L	15046-84-1	8.26E-01	pCi/L	2.3E-01	2.3E-01	U	4.49E-01	101.6	I129LL_SEP_LEPS	3.8789E+00	L	07/24/2008 15:58	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:
9KP3E110	B1VLV9		MW6-SBB-A1	S08-006	W05427					06/11/2008 10:21

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8178538	I-129L	15046-84-1	8.19E+00	pCi/L	1.1E+00	1.1E+00		3.93E-01	95.7	I129LL_SEP_LEPS	3.8805E+00	L	07/24/2008 15:59	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:
9KP3F410	B1VM40		MW6-SBB-A1	S08-006	W05427					06/11/2008 09:38

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8178538	I-129L	15046-84-1	4.18E+00	pCi/L	6.3E-01	6.3E-01		3.05E-01	111.9	I129LL_SEP_LEPS	3.9248E+00	L	07/24/2008 17:47	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:
9KP3F810	B1VLL1		MW6-SBB-A1	S08-006	W05427					06/12/2008 10:22

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8178539	BE-7	13966-02-4	-2.00E+00	pCi/L	1.9E+01	1.9E+01	U	3.40E+01		GAMMALL_GS	2.0004E+00	L	07/25/2008 10:13	I
8178539	CO-60	10198-40-0	2.65E-01	pCi/L	1.6E+00	1.6E+00	U	3.14E+00		GAMMALL_GS	2.0004E+00	L	07/25/2008 10:13	I
8178539	CS-134	13967-70-9	1.01E+00	pCi/L	1.9E+00	1.9E+00	U	3.64E+00		GAMMALL_GS	2.0004E+00	L	07/25/2008 10:13	I
8178539	CS-137	10045-97-3	-2.95E-01	pCi/L	1.7E+00	1.7E+00	U	3.04E+00		GAMMALL_GS	2.0004E+00	L	07/25/2008 10:13	I
8178539	EU-152	14683-23-9	3.54E+00	pCi/L	4.3E+00	4.3E+00	U	8.08E+00		GAMMALL_GS	2.0004E+00	L	07/25/2008 10:13	I
8178539	EU-154	15585-10-1	3.58E+00	pCi/L	5.1E+00	5.1E+00	U	1.04E+01		GAMMALL_GS	2.0004E+00	L	07/25/2008 10:13	I
8178539	EU-155	14391-16-3	1.09E+00	pCi/L	3.6E+00	3.6E+00	U	6.23E+00		GAMMALL_GS	2.0004E+00	L	07/25/2008 10:13	I
8178539	K-40	13966-00-2	-4.17E+01	pCi/L	3.6E+01	3.6E+01	U	7.33E+01		GAMMALL_GS	2.0004E+00	L	07/25/2008 10:13	I
8178539	RU-106	13967-48-1	2.35E-01	pCi/L	1.5E+01	1.5E+01	U	2.64E+01		GAMMALL_GS	2.0004E+00	L	07/25/2008 10:13	I
8178539	SB-125	14234-35-6	2.30E+00	pCi/L	4.1E+00	4.1E+00	U	7.61E+00		GAMMALL_GS	2.0004E+00	L	07/25/2008 10:13	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:
9KP3FT10	B1VM24		MW6-SBB-A1	S08-006	W05427					06/11/2008 13:03

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8178538	I-129L	15046-84-1	3.03E+00	pCi/L	5.1E-01	5.1E-01		3.10E-01	97.0	I129LL_SEP_LEPS	3.8431E+00	L	07/24/2008 17:46	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.

7/31/2008 11:16:27 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 39628 File Name: h:\Reportdb\edd\FeadIV\Rad\W05427.Edd, h:\Reportdb\edd\FeadIV\Rad\39628.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:
9KP3K410	B1VNX2		MW6-SBB-A1	W08-006	W05427					06/11/2008 13:02

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8178539	BE-7	13966-02-4	-1.15E+01	pCi/L	1.9E+01	1.9E+01	U	3.23E+01		GAMMALL_GS	2.0001E+00	L	07/25/2008 10:14	I
8178539	CO-60	10198-40-0	1.23E+00	pCi/L	1.9E+00	1.9E+00	U	3.81E+00		GAMMALL_GS	2.0001E+00	L	07/25/2008 10:14	I
8178539	CS-134	13967-70-9	-3.18E-01	pCi/L	1.9E+00	1.9E+00	U	3.27E+00		GAMMALL_GS	2.0001E+00	L	07/25/2008 10:14	I
8178539	CS-137	10045-97-3	5.67E-01	pCi/L	1.8E+00	1.8E+00	U	3.27E+00		GAMMALL_GS	2.0001E+00	L	07/25/2008 10:14	I
8178539	EU-152	14683-23-9	4.03E+00	pCi/L	3.9E+00	3.9E+00	U	7.27E+00		GAMMALL_GS	2.0001E+00	L	07/25/2008 10:14	I
8178539	EU-154	15585-10-1	-1.41E+00	pCi/L	5.5E+00	5.5E+00	U	9.87E+00		GAMMALL_GS	2.0001E+00	L	07/25/2008 10:14	I
8178539	EU-155	14391-16-3	3.15E+00	pCi/L	2.6E+00	2.6E+00	U	4.82E+00		GAMMALL_GS	2.0001E+00	L	07/25/2008 10:14	I
8178539	K-40	13966-00-2	-9.53E+00	pCi/L	3.6E+01	3.6E+01	U	7.42E+01		GAMMALL_GS	2.0001E+00	L	07/25/2008 10:14	I
8178539	RU-106	13967-48-1	9.52E-01	pCi/L	1.5E+01	1.5E+01	U	2.74E+01		GAMMALL_GS	2.0001E+00	L	07/25/2008 10:14	I
8178539	SB-125	14234-35-6	-9.53E-01	pCi/L	3.8E+00	3.8E+00	U	6.46E+00		GAMMALL_GS	2.0001E+00	L	07/25/2008 10:14	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:
9KP3LA10	B1VNY6		MW6-SBB-A1	W08-006	W05427					06/11/2008 13:03

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8178539	BE-7	13966-02-4	5.44E-01	pCi/L	2.0E+01	2.0E+01	U	3.54E+01		GAMMALL_GS	2.0001E+00	L	07/25/2008 10:14	I
8178539	CO-60	10198-40-0	2.39E+00	pCi/L	2.2E+00	2.2E+00	U	4.55E+00		GAMMALL_GS	2.0001E+00	L	07/25/2008 10:14	I
8178539	CS-134	13967-70-9	-1.14E+00	pCi/L	1.9E+00	1.9E+00	U	3.14E+00		GAMMALL_GS	2.0001E+00	L	07/25/2008 10:14	I
8178539	CS-137	10045-97-3	1.57E-01	pCi/L	1.6E+00	1.6E+00	U	2.86E+00		GAMMALL_GS	2.0001E+00	L	07/25/2008 10:14	I
8178539	EU-152	14683-23-9	-3.49E+00	pCi/L	4.5E+00	4.5E+00	U	7.19E+00		GAMMALL_GS	2.0001E+00	L	07/25/2008 10:14	I
8178539	EU-154	15585-10-1	-1.67E+00	pCi/L	4.6E+00	4.6E+00	U	8.04E+00		GAMMALL_GS	2.0001E+00	L	07/25/2008 10:14	I
8178539	EU-155	14391-16-3	-4.48E-01	pCi/L	3.9E+00	3.9E+00	U	6.46E+00		GAMMALL_GS	2.0001E+00	L	07/25/2008 10:14	I
8178539	K-40	13966-00-2	-1.15E+01	pCi/L	4.1E+01	4.1E+01	U	8.26E+01		GAMMALL_GS	2.0001E+00	L	07/25/2008 10:14	I
8178539	RU-106	13967-48-1	-2.37E+00	pCi/L	1.5E+01	1.5E+01	U	2.74E+01		GAMMALL_GS	2.0001E+00	L	07/25/2008 10:14	I
8178539	SB-125	14234-35-6	3.49E+00	pCi/L	4.0E+00	4.0E+00	U	7.71E+00		GAMMALL_GS	2.0001E+00	L	07/25/2008 10:14	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:
9KP3LG10	B1VP13		MW6-SBB-A1	W08-006	W05427					06/11/2008 08:59

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8178539	BE-7	13966-02-4	1.42E+01	pCi/L	1.8E+01	1.8E+01	U	3.51E+01		GAMMALL_GS	2.0003E+00	L	07/25/2008 10:15	I
8178539	CO-60	10198-40-0	7.00E-01	pCi/L	1.4E+00	1.4E+00	U	2.83E+00		GAMMALL_GS	2.0003E+00	L	07/25/2008 10:15	I

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

8178539	CS-134	13967-70-9	7.15E-01	pCi/L	1.6E+00	1.6E+00	U	3.10E+00		GAMMALL_GS	2.0003E+00	L	07/25/2008	10:15	I
8178539	CS-137	10045-97-3	-1.00E+00	pCi/L	1.5E+00	1.5E+00	U	2.48E+00		GAMMALL_GS	2.0003E+00	L	07/25/2008	10:15	I
8178539	EU-152	14683-23-9	-2.63E+00	pCi/L	3.6E+00	3.6E+00	U	5.81E+00		GAMMALL_GS	2.0003E+00	L	07/25/2008	10:15	I
8178539	EU-154	15585-10-1	4.11E+00	pCi/L	4.2E+00	4.2E+00	U	9.06E+00		GAMMALL_GS	2.0003E+00	L	07/25/2008	10:15	I
8178539	EU-155	14391-16-3	6.36E-01	pCi/L	2.7E+00	2.7E+00	U	4.66E+00		GAMMALL_GS	2.0003E+00	L	07/25/2008	10:15	I
8178539	K-40	13966-00-2	-1.31E+01	pCi/L	2.1E+01	2.1E+01	U	4.05E+01		GAMMALL_GS	2.0003E+00	L	07/25/2008	10:15	I
8178539	RU-106	13967-48-1	-4.34E+00	pCi/L	1.4E+01	1.4E+01	U	2.40E+01		GAMMALL_GS	2.0003E+00	L	07/25/2008	10:15	I
8178539	SB-125	14234-35-6	-3.56E-02	pCi/L	3.1E+00	3.1E+00	U	5.68E+00		GAMMALL_GS	2.0003E+00	L	07/25/2008	10:15	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:
9KP3LK10	B1VP33		MW6-SBB-A1	W08-006	W05427					06/11/2008 12:07

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
8178539	BE-7	13966-02-4	7.65E+00	pCi/L	1.7E+01	1.7E+01	U	3.07E+01		GAMMALL_GS	2.0003E+00	L	07/25/2008	10:15	I
8178539	CO-60	10198-40-0	-1.58E-01	pCi/L	1.4E+00	1.4E+00	U	2.46E+00		GAMMALL_GS	2.0003E+00	L	07/25/2008	10:15	I
8178539	CS-134	13967-70-9	1.80E-01	pCi/L	1.5E+00	1.5E+00	U	2.68E+00		GAMMALL_GS	2.0003E+00	L	07/25/2008	10:15	I
8178539	CS-137	10045-97-3	-8.10E-01	pCi/L	1.2E+00	1.2E+00	U	1.97E+00		GAMMALL_GS	2.0003E+00	L	07/25/2008	10:15	I
8178539	EU-152	14683-23-9	2.19E+00	pCi/L	3.7E+00	3.7E+00	U	6.61E+00		GAMMALL_GS	2.0003E+00	L	07/25/2008	10:15	I
8178539	EU-154	15585-10-1	2.05E+00	pCi/L	3.8E+00	3.8E+00	U	7.39E+00		GAMMALL_GS	2.0003E+00	L	07/25/2008	10:15	I
8178539	EU-155	14391-16-3	-7.50E-01	pCi/L	3.1E+00	3.1E+00	U	5.32E+00		GAMMALL_GS	2.0003E+00	L	07/25/2008	10:15	I
8178539	K-40	13966-00-2	-7.00E+00	pCi/L	2.0E+01	2.0E+01	U	3.92E+01		GAMMALL_GS	2.0003E+00	L	07/25/2008	10:15	I
8178539	RU-106	13967-48-1	4.40E+00	pCi/L	1.3E+01	1.3E+01	U	2.31E+01		GAMMALL_GS	2.0003E+00	L	07/25/2008	10:15	I
8178539	SB-125	14234-35-6	2.45E+00	pCi/L	3.2E+00	3.2E+00	U	6.03E+00		GAMMALL_GS	2.0003E+00	L	07/25/2008	10:15	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:
9KP3LL10	B1VP49		MW6-SBB-A1	W08-006	W05427					06/11/2008 10:41

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
8178539	BE-7	13966-02-4	4.61E+00	pCi/L	1.4E+01	1.4E+01	U	2.52E+01		GAMMALL_GS	2.0001E+00	L	07/25/2008	10:15	I
8178539	CO-60	10198-40-0	6.26E-02	pCi/L	1.4E+00	1.4E+00	U	2.66E+00		GAMMALL_GS	2.0001E+00	L	07/25/2008	10:15	I
8178539	CS-134	13967-70-9	6.48E-01	pCi/L	1.1E+00	1.1E+00	U	2.08E+00		GAMMALL_GS	2.0001E+00	L	07/25/2008	10:15	I
8178539	CS-137	10045-97-3	6.97E-01	pCi/L	1.1E+00	1.1E+00	U	2.17E+00		GAMMALL_GS	2.0001E+00	L	07/25/2008	10:15	I
8178539	EU-152	14683-23-9	-9.61E-01	pCi/L	2.6E+00	2.6E+00	U	4.46E+00		GAMMALL_GS	2.0001E+00	L	07/25/2008	10:15	I
8178539	EU-154	15585-10-1	-1.01E+00	pCi/L	3.8E+00	3.8E+00	U	6.59E+00		GAMMALL_GS	2.0001E+00	L	07/25/2008	10:15	I
8178539	EU-155	14391-16-3	-1.71E+00	pCi/L	2.3E+00	2.3E+00	U	3.77E+00		GAMMALL_GS	2.0001E+00	L	07/25/2008	10:15	I

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

8178539	K-40	13966-00-2	1.17E+01	pCi/L	2.9E+01	2.9E+01	U	2.37E+01		GAMMALL_GS	2.0001E+00	L	07/25/2008	10:15	I
8178539	RU-106	13967-48-1	1.61E+00	pCi/L	9.6E+00	9.6E+00	U	1.74E+01		GAMMALL_GS	2.0001E+00	L	07/25/2008	10:15	I
8178539	SB-125	14234-35-6	-9.77E-01	pCi/L	2.7E+00	2.7E+00	U	4.58E+00		GAMMALL_GS	2.0001E+00	L	07/25/2008	10:15	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:
9KP3Q010	B1VP81		MW6-SBB-A1	W08-006	W05427					06/11/2008 10:59

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
8178539	BE-7	13966-02-4	1.20E+01	pCi/L	2.7E+01	2.7E+01	U	4.78E+01		GAMMALL_GS	2.0002E+00	L	07/25/2008	10:16	I
8178539	CO-60	10198-40-0	-6.99E-01	pCi/L	2.1E+00	2.1E+00	U	3.78E+00		GAMMALL_GS	2.0002E+00	L	07/25/2008	10:16	I
8178539	CS-134	13967-70-9	5.16E-01	pCi/L	2.4E+00	2.4E+00	U	4.28E+00		GAMMALL_GS	2.0002E+00	L	07/25/2008	10:16	I
8178539	CS-137	10045-97-3	2.18E-01	pCi/L	2.0E+00	2.0E+00	U	3.62E+00		GAMMALL_GS	2.0002E+00	L	07/25/2008	10:16	I
8178539	EU-152	14683-23-9	5.97E+00	pCi/L	6.0E+00	6.0E+00	U	1.08E+01		GAMMALL_GS	2.0002E+00	L	07/25/2008	10:16	I
8178539	EU-154	15585-10-1	-7.68E-01	pCi/L	5.8E+00	5.8E+00	U	1.05E+01		GAMMALL_GS	2.0002E+00	L	07/25/2008	10:16	I
8178539	EU-155	14391-16-3	1.93E+00	pCi/L	4.3E+00	4.3E+00	U	7.38E+00		GAMMALL_GS	2.0002E+00	L	07/25/2008	10:16	I
8178539	K-40	13966-00-2	-2.81E+01	pCi/L	5.1E+01	5.1E+01	U	1.04E+02		GAMMALL_GS	2.0002E+00	L	07/25/2008	10:16	I
8178539	RU-106	13967-48-1	1.17E+01	pCi/L	2.0E+01	2.0E+01	U	3.73E+01		GAMMALL_GS	2.0002E+00	L	07/25/2008	10:16	I
8178539	SB-125	14234-35-6	-1.20E+00	pCi/L	5.5E+00	5.5E+00	U	9.41E+00		GAMMALL_GS	2.0002E+00	L	07/25/2008	10:16	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:
9KP3Q310	B1VP98		MW6-SBB-A1	W08-006	W05427					06/11/2008 09:38

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
8178539	BE-7	13966-02-4	1.79E+00	pCi/L	2.2E+01	2.2E+01	U	3.82E+01		GAMMALL_GS	2.0002E+00	L	07/25/2008	10:15	I
8178539	CO-60	10198-40-0	2.67E-02	pCi/L	2.0E+00	2.0E+00	U	3.62E+00		GAMMALL_GS	2.0002E+00	L	07/25/2008	10:15	I
8178539	CS-134	13967-70-9	2.29E-01	pCi/L	1.9E+00	1.9E+00	U	3.49E+00		GAMMALL_GS	2.0002E+00	L	07/25/2008	10:15	I
8178539	CS-137	10045-97-3	1.51E+00	pCi/L	1.6E+00	1.6E+00	U	3.09E+00		GAMMALL_GS	2.0002E+00	L	07/25/2008	10:15	I
8178539	EU-152	14683-23-9	5.62E-01	pCi/L	4.2E+00	4.2E+00	U	7.56E+00		GAMMALL_GS	2.0002E+00	L	07/25/2008	10:15	I
8178539	EU-154	15585-10-1	-3.39E+00	pCi/L	5.4E+00	5.4E+00	U	8.94E+00		GAMMALL_GS	2.0002E+00	L	07/25/2008	10:15	I
8178539	EU-155	14391-16-3	-4.86E-01	pCi/L	2.8E+00	2.8E+00	U	4.92E+00		GAMMALL_GS	2.0002E+00	L	07/25/2008	10:15	I
8178539	K-40	13966-00-2	-2.50E+00	pCi/L	4.0E+01	4.0E+01	U	8.24E+01		GAMMALL_GS	2.0002E+00	L	07/25/2008	10:15	I
8178539	RU-106	13967-48-1	-1.20E+01	pCi/L	1.7E+01	1.7E+01	U	2.81E+01		GAMMALL_GS	2.0002E+00	L	07/25/2008	10:15	I
8178539	SB-125	14234-35-6	-1.91E+00	pCi/L	4.2E+00	4.2E+00	U	7.07E+00		GAMMALL_GS	2.0002E+00	L	07/25/2008	10:15	I

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

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

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KP3Q710	B1VRB7		MW6-SBB-A1	W08-006	W05427					06/11/2008 12:27

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8178542	TC-99	14133-76-7	8.33E+01	pCi/L	6.6E+00	1.1E+01		1.01E+01	100.0	TC99_SEP_LSC	1.252E-01	L	07/24/2008 04:21	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KP3QN10	B1VP65		MW6-SBB-A1	W08-006	W05427					06/11/2008 14:14

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8178539	BE-7	13966-02-4	-2.37E+01	pCi/L	2.2E+01	2.2E+01	U	3.43E+01		GAMMALL_GS	2.0002E+00	L	07/25/2008 10:15	I
8178539	CO-60	10198-40-0	-2.76E-01	pCi/L	1.6E+00	1.6E+00	U	2.86E+00		GAMMALL_GS	2.0002E+00	L	07/25/2008 10:15	I
8178539	CS-134	13967-70-9	1.64E+00	pCi/L	1.7E+00	1.7E+00	U	3.22E+00		GAMMALL_GS	2.0002E+00	L	07/25/2008 10:15	I
8178539	CS-137	10045-97-3	-6.79E-01	pCi/L	1.6E+00	1.6E+00	U	2.73E+00		GAMMALL_GS	2.0002E+00	L	07/25/2008 10:15	I
8178539	EU-152	14683-23-9	8.98E-01	pCi/L	4.3E+00	4.3E+00	U	7.39E+00		GAMMALL_GS	2.0002E+00	L	07/25/2008 10:15	I
8178539	EU-154	15585-10-1	2.43E+00	pCi/L	5.1E+00	5.1E+00	U	9.60E+00		GAMMALL_GS	2.0002E+00	L	07/25/2008 10:15	I
8178539	EU-155	14391-16-3	3.18E+00	pCi/L	4.2E+00	4.2E+00	U	7.41E+00		GAMMALL_GS	2.0002E+00	L	07/25/2008 10:15	I
8178539	K-40	13966-00-2	-6.11E+01	pCi/L	5.0E+01	5.0E+01	U	1.00E+02		GAMMALL_GS	2.0002E+00	L	07/25/2008 10:15	I
8178539	RU-106	13967-48-1	-6.21E-01	pCi/L	1.5E+01	1.5E+01	U	2.64E+01		GAMMALL_GS	2.0002E+00	L	07/25/2008 10:15	I
8178539	SB-125	14234-35-6	2.96E+00	pCi/L	3.9E+00	3.9E+00	U	7.06E+00		GAMMALL_GS	2.0002E+00	L	07/25/2008 10:15	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:
9KP3RC10	B1VRH0		MW6-SBB-A1		W05427					06/12/2008 10:22

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8178542	TC-99	14133-76-7	4.02E+01	pCi/L	5.5E+00	8.5E+00		9.88E+00	100.0	TC99_SEP_LSC	1.251E-01	L	07/24/2008 04:22	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:
9KP44H10	B1VJJ2		MW6-SBB-A1	A08-006	W05427					06/12/2008 09:28

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8178538	I-129L	15046-84-1	3.49E+00	pCi/L	6.4E-01	6.4E-01		3.17E-01	95.4	I129LL_SEP_LEPS	3.8911E+00	L	07/24/2008 17:47	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:
9KQGL910	B1RTP4		MW6-SBB-A1	S08-001	W05427					06/23/2008 12:20

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8178541	BETA	12587-47-2	1.26E+01	pCi/L	2.1E+00	2.6E+00		2.80E+00	100.0	9310_ALPHABETA	2.001E-01	L	07/17/2008 14:34	I
8178539	BE-7	13966-02-4	8.38E+00	pCi/L	1.6E+01	1.6E+01	U	2.91E+01		GAMMALL_GS	2.0002E+00	L	07/25/2008 13:49	I
8178539	CO-60	10198-40-0	1.91E-01	pCi/L	1.5E+00	1.5E+00	U	2.94E+00		GAMMALL_GS	2.0002E+00	L	07/25/2008 13:49	I

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

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 39628 File Name: h:\Reportdb\edd\FeadIV\Rad\W05427.Edd, h:\Reportdb\edd\FeadIV\Rad\39628.Edd

8178539	CS-134	13967-70-9	-9.90E-01	pCi/L	1.5E+00	1.5E+00	U	2.53E+00		GAMMALL_GS	2.0002E+00	L	07/25/2008	13:49	I
8178539	CS-137	10045-97-3	-1.21E+00	pCi/L	1.4E+00	1.4E+00	U	2.30E+00		GAMMALL_GS	2.0002E+00	L	07/25/2008	13:49	I
8178539	EU-152	14683-23-9	-6.46E-01	pCi/L	3.3E+00	3.3E+00	U	5.75E+00		GAMMALL_GS	2.0002E+00	L	07/25/2008	13:49	I
8178539	EU-154	15585-10-1	-1.15E+00	pCi/L	4.0E+00	4.0E+00	U	7.32E+00		GAMMALL_GS	2.0002E+00	L	07/25/2008	13:49	I
8178539	EU-155	14391-16-3	3.69E+00	pCi/L	2.6E+00	2.6E+00	U	4.92E+00		GAMMALL_GS	2.0002E+00	L	07/25/2008	13:49	I
8178539	K-40	13966-00-2	3.25E+00	pCi/L	2.2E+01	2.2E+01	U	4.46E+01		GAMMALL_GS	2.0002E+00	L	07/25/2008	13:49	I
8178539	RU-106	13967-48-1	-8.01E+00	pCi/L	1.3E+01	1.3E+01	U	2.17E+01		GAMMALL_GS	2.0002E+00	L	07/25/2008	13:49	I
8178539	SB-125	14234-35-6	5.53E-01	pCi/L	3.7E+00	3.7E+00	U	6.61E+00		GAMMALL_GS	2.0002E+00	L	07/25/2008	13:49	I
8178538	I-129L	15046-84-1	5.11E+00	pCi/L	7.1E-01	7.1E-01		2.75E-01	124.1	I129LL_SEP_LEPS	3.8008E+00	L	07/24/2008	20:11	I
8178544	SR-90	10098-97-2	8.08E-03	pCi/L	2.3E-01	2.5E-01	U	5.49E-01	81.6	SRISO_SEP_PRE	1.0003E+00	L	07/30/2008	04:16	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:
9KQGL920	B1RTP4		MW6-SBB-A1	S08-001	W05427					06/23/2008 12:20

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8203176	ALPHA	12587-46-1	1.79E+00	pCi/L	9.1E-01	9.8E-01		1.07E+00	100.0	9310_ALPHABETA	1.563E-01	L	07/24/2008 21:04	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:
9KQGMW1	B1VRD0		MW6-SBB-A1	W08-006	W05427					06/22/2008 10:56

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8178542	TC-99	14133-76-7	5.22E+01	pCi/L	6.1E+00	9.3E+00		1.08E+01	100.0	TC99_SEP_LSC	1.253E-01	L	07/24/2008 04:22	I

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

Thursday, July 31, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05427.Edd, h:\Reportdb\edd\FeadIV\Rad\39628.Edd

Lab Sample Id:	KQNXH1AB	**Sdg/Rept Nbr:**	W05427	39628	**Collection Date:** 06/12/2008 10:22
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 06/16/2008

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/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8178538	I-129L	7.74E-02	pCi/L	1.3E-01	U	2.63E-01	102.4		I129LL_SEP_L	3.9764E+00	07/24/2008				D
BLK	15046-84-1			1.3E-01						L	20:13				

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

/

Thursday, July 31, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05427.Edd, h:\Reportdb\edd\FeadIV\Rad\39628.Edd

Lab Sample Id: KQNXJ1AB **Sdg/Rept Nbr:** W05427 39628 **Collection Date:** 06/11/2008 09:38

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 06/16/2008

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	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
8178539	BE-7	-2.14E+01	pCi/L	2.0E+01	U	3.20E+01			GAMMALL_GS	2.0004E+00	07/25/2008				D
BLK	13966-02-4			2.0E+01						L	13:49				
8178539	CO-60	4.79E-01	pCi/L	2.0E+00	U	3.72E+00			GAMMALL_GS	2.0004E+00	07/25/2008				D
BLK	10198-40-0			2.0E+00						L	13:49				
8178539	CS-134	1.08E-01	pCi/L	1.9E+00	U	3.43E+00			GAMMALL_GS	2.0004E+00	07/25/2008				D
BLK	13967-70-9			1.9E+00						L	13:49				
8178539	CS-137	1.06E+00	pCi/L	1.7E+00	U	3.28E+00			GAMMALL_GS	2.0004E+00	07/25/2008				D
BLK	10045-97-3			1.7E+00						L	13:49				
8178539	EU-152	-3.10E+00	pCi/L	3.6E+00	U	5.82E+00			GAMMALL_GS	2.0004E+00	07/25/2008				D
BLK	14683-23-9			3.6E+00						L	13:49				
8178539	EU-154	4.93E+00	pCi/L	5.6E+00	U	1.12E+01			GAMMALL_GS	2.0004E+00	07/25/2008				D
BLK	15585-10-1			5.6E+00						L	13:49				
8178539	EU-155	1.98E-01	pCi/L	2.5E+00	U	4.34E+00			GAMMALL_GS	2.0004E+00	07/25/2008				D
BLK	14391-16-3			2.5E+00						L	13:49				
8178539	K-40	-4.44E+01	pCi/L	3.7E+01	U	7.08E+01			GAMMALL_GS	2.0004E+00	07/25/2008				D
BLK	13966-00-2			3.7E+01						L	13:49				
8178539	RU-106	1.33E+00	pCi/L	1.7E+01	U	2.94E+01			GAMMALL_GS	2.0004E+00	07/25/2008				D
BLK	13967-48-1			1.7E+01						L	13:49				
8178539	SB-125	-3.42E+00	pCi/L	4.2E+00	U	6.81E+00			GAMMALL_GS	2.0004E+00	07/25/2008				D
BLK	14234-35-6			4.2E+00						L	13:49				

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

Thursday, July 31, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05427.Edd, h:\Reportdb\edd\FeadIV\Rad\39628.Edd

Lab Sample Id:	KQNXM1AB	**Sdg/Rept Nbr:**	W05427	39628	**Collection Date:** 06/23/2008 12:20
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 06/23/2008

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
8178541	BETA	1.03E+00	pCi/L	1.5E+00	U	3.19E+00	100.0		9310_ALPHAB	2.004E-01	07/17/2008				D
BLK	12587-47-2			1.5E+00						L	14:34				

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

Thursday, July 31, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05427.Edd, h:\Reportdb\edd\FeadIV\Rad\39628.Edd

Lab Sample Id:	KQNXN1AB	**Sdg/Rept Nbr:**	W05427	39628	**Collection Date:** 06/22/2008 10:56
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 06/23/2008

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
8178542	TC-99	-1.00E+01	pCi/L	5.7E+00	U	9.96E+00	100.0		TC99_SEP_LS	1.25E-01	07/24/2008				D
BLK	14133-76-7			4.0E+00						L	04:22				

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

Thursday, July 31, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05427.Edd, h:\Reportdb\edd\FeadIV\Rad\39628.Edd

Lab Sample Id:	KQNXV1AB	**Sdg/Rept Nbr:**	W05427	39628	**Collection Date:** 06/23/2008 12:20
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 06/23/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8178544	SR-90	8.43E-02	pCi/L	2.0E-01	U	4.42E-01	66.1		SRISO_SEP_P	1.00E+00	07/30/2008				D
BLK	10098-97-2			2.0E-01						L	04:16				

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

Thursday, July 31, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05427.Edd, h:\Reportdb\edd\FeadIV\Rad\39628.Edd

Lab Sample Id:	KRV0T1AB	**Sdg/Rept Nbr:**	W05427	39628	**Collection Date:** 06/23/2008 12:20
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 06/23/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8203176	ALPHA	-1.50E-01	pCi/L	1.8E-01	U	6.00E-01	100.0		9310_ALPHAB	2.00E-01	07/24/2008				D
BLK	12587-46-1			1.7E-01						L	21:04				

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

Thursday, July 31, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05427.Edd, h:\Reportdb\edd\FeadIV\Rad\39628.Edd

Lab Sample Id: KQNXH1CS **Sdg/Rept Nbr:** W05427 39628 **Collection Date:** 06/12/2008 10:22

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 06/16/2008

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
8178538	I-129L	1.04E+01	pCi/L	1.3E+00		4.12E-01	96.3	9.77E+00	I129LL_SEP_L	3.9915E+00	07/24/2008			70	D
BS	15046-84-1			1.3E+00				106.6		L	20:13			130	

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

Thursday, July 31, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05427.Edd, h:\Reportdb\edd\FeadIV\Rad\39628.Edd

Lab Sample Id:	KQNXJ1CS	**Sdg/Rept Nbr:**	W05427 39628	**Collection Date:**	06/11/2008 09:38
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	06/16/2008

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
8178539	CO-60	4.31E+01	pCi/L	7.6E+00		3.08E+00		3.87E+01	GAMMALL_GS	2.0002E+00	07/25/2008			70	D
BS	10198-40-0			7.6E+00				111.3		L	13:50			130	
8178539	CS-137	5.70E+01	pCi/L	8.6E+00		3.61E+00		5.23E+01	GAMMALL_GS	2.0002E+00	07/25/2008			70	D
BS	10045-97-3			8.6E+00				109.0		L	13:50			130	
8178539	EU-152	8.74E+01	pCi/L	1.6E+01		8.67E+00		7.78E+01	GAMMALL_GS	2.0002E+00	07/25/2008			70	D
BS	14683-23-9			1.6E+01				112.4		L	13:50			130	

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

Thursday, July 31, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05427.Edd, h:\Reportdb\edd\FeadIV\Rad\39628.Edd

Lab Sample Id:	KQNXM1CS	**Sdg/Rept Nbr:**	W05427 39628	**Collection Date:**	06/23/2008 12:20
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	06/23/2008

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	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8178541	BETA	2.43E+01	pCi/L	4.1E+00		2.52E+00	100.0	2.27E+01	9310_ALPHAB	2.004E-01	07/17/2008			70	D
BS	12587-47-2			2.5E+00				106.6		L	16:28			130	

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

Thursday, July 31, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05427.Edd, h:\Reportdb\edd\FeadIV\Rad\39628.Edd

Lab Sample Id:	KQNXN1CS	**Sdg/Rept Nbr:**	W05427	39628	**Collection Date:** 06/22/2008 10:56
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 06/23/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8178542	TC-99	5.30E+02	pCi/L	3.7E+01		9.86E+00	100.0	5.58E+02	TC99_SEP_LS	1.25E-01	07/24/2008			70	D
BS	14133-76-7			1.3E+01				95.0		L	04:22			130	

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

Thursday, July 31, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05427.Edd, h:\Reportdb\edd\FeadIV\Rad\39628.Edd

Lab Sample Id:	KQNXV1CS	**Sdg/Rept Nbr:**	W05427 39628	**Collection Date:**	06/23/2008 12:20
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	06/23/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8178544	SR-90	1.72E+01	pCi/L	2.6E+00		5.18E-01	63.5	1.40E+01	SRISO_SEP_P	1.0004E+00	07/30/2008			70	D
BS	10098-97-2			9.2E-01				122.6		L	04:16			130	

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

Thursday, July 31, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05427.Edd, h:\Reportdb\edd\FeadIV\Rad\39628.Edd

Lab Sample Id:	KRV0T1CS	**Sdg/Rept Nbr:**	W05427	39628	**Collection Date:** 06/23/2008 12:20
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 06/23/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8203176	ALPHA	1.93E+01	pCi/L	4.4E+00		5.56E-01	100.0	2.26E+01	9310_ALPHAB	2.00E-01	07/24/2008			70	D
BS	12587-46-1			2.0E+00				85.1		L	21:04			130	

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

Thursday, July 31, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05427.Edd, h:\Reportdb\edd\FeadIV\Rad\39628.Edd

Lab Sample Id:	KP3A91CR	**Sdg/Rept Nbr:**	W05427	39628	**Collection Date:** 06/12/2008 10:22
Client Id:	B1VJJ0	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 06/16/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A08-006	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
8178538	I-129L	7.66E-01	pCi/L	3.0E-01	U	4.68E-01	103.2		I129LL_SEP_L	3.8739E+00	07/24/2008	7.5	0.3		D
DUP	15046-84-1	8.26E-01		3.0E-01						L	15:59	20.0	3		

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

Thursday, July 31, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05427.Edd, h:\Reportdb\edd\FeadIV\Rad\39628.Edd

Lab Sample Id: KP3Q31CR **Sdg/Rept Nbr:** W05427 39628 **Collection Date:** 06/11/2008 09:38

Client Id: B1VP98 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 06/16/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W08-006	MW6-SBB-A19981								AU	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8178539	BE-7	-4.80E+00	pCi/L	2.1E+01	U	3.63E+01			GAMMALL_GS	2.0002E+00	07/25/2008	0.0	0.4		D
DUP	13966-02-4	1.79E+00		2.1E+01						L	13:47	20.0	3		
8178539	CO-60	7.01E-01	pCi/L	1.8E+00	U	3.55E+00			GAMMALL_GS	2.0002E+00	07/25/2008	185.3	0.5		D
DUP	10198-40-0	2.67E-02		1.8E+00						L	13:47	20.0	3		
8178539	CS-134	3.64E-01	pCi/L	2.0E+00	U	3.61E+00			GAMMALL_GS	2.0002E+00	07/25/2008	45.3	0.1		D
DUP	13967-70-9	2.29E-01		2.0E+00						L	13:47	20.0	3		
8178539	CS-137	4.69E-01	pCi/L	1.7E+00	U	3.09E+00			GAMMALL_GS	2.0002E+00	07/25/2008	104.9	0.9		D
DUP	10045-97-3	1.51E+00		1.7E+00						L	13:47	20.0	3		
8178539	EU-152	-5.90E-01	pCi/L	4.3E+00	U	7.48E+00			GAMMALL_GS	2.0002E+00	07/25/2008	0.0	0.4		D
DUP	14683-23-9	5.62E-01		4.3E+00						L	13:47	20.0	3		
8178539	EU-154	1.37E+00	pCi/L	4.7E+00	U	9.25E+00			GAMMALL_GS	2.0002E+00	07/25/2008	0.0	1.4		D
DUP	15585-10-1	-3.39E+00		4.7E+00						L	13:47	20.0	3		
8178539	EU-155	8.57E-01	pCi/L	3.3E+00	U	5.79E+00			GAMMALL_GS	2.0002E+00	07/25/2008	722.9	0.6		D
DUP	14391-16-3	-4.86E-01		3.3E+00						L	13:47	20.0	3		
8178539	K-40	3.63E+00	pCi/L	4.0E+01	U	8.42E+01			GAMMALL_GS	2.0002E+00	07/25/2008	1090.8	0.2		D
DUP	13966-00-2	-2.50E+00		4.0E+01						L	13:47	20.0	3		
8178539	RU-106	-5.73E+00	pCi/L	1.5E+01	U	2.58E+01			GAMMALL_GS	2.0002E+00	07/25/2008	0.0	0.6		D
DUP	13967-48-1	-1.20E+01		1.5E+01						L	13:47	20.0	3		
8178539	SB-125	-2.28E+00	pCi/L	4.1E+00	U	6.84E+00			GAMMALL_GS	2.0002E+00	07/25/2008	0.0	0.1		D
DUP	14234-35-6	-1.91E+00		4.1E+00						L	13:47	20.0	3		

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

Thursday, July 31, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05427.Edd, h:\Reportdb\edd\FeadIV\Rad\39628.Edd

Lab Sample Id:	KQGL91HR	**Sdg/Rept Nbr:**	W05427	39628	**Collection Date:**	06/23/2008 12:20
Client Id:	B1RTP4	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:**	06/23/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-001	MW6-SBB-A19981								AV	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8178541	BETA	1.60E+01	pCi/L	3.1E+00		2.73E+00	100.0		9310_ALPHAB	2.002E-01	07/17/2008	23.4	1.5		D
DUP	12587-47-2	1.26E+01		2.2E+00						L	14:34	20.0	3		

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

Thursday, July 31, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05427.Edd, h:\Reportdb\edd\FeadIV\Rad\39628.Edd

Lab Sample Id:	KQGL91JR	**Sdg/Rept Nbr:**	W05427 39628	**Collection Date:**	06/23/2008 12:20
Client Id:	B1RTP4	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	06/23/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-001	MW6-SBB-A19981								AW	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8178544	SR-90	-1.39E-01	pCi/L	2.9E-01	U	6.60E-01	71.9		SRISO_SEP_P	1.0001E+00	07/30/2008	0.0	0.7		D
DUP	10098-97-2	8.08E-03		2.9E-01						L	04:16	20.0	3		

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

Thursday, July 31, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05427.Edd, h:\Reportdb\edd\FeadIV\Rad\39628.Edd

Lab Sample Id: KQGL91KR **Sdg/Rept Nbr:** W05427 39628 **Collection Date:** 06/23/2008 12:20

Client Id: B1RTP4 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 06/23/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-001	MW6-SBB-A19981								AX	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8203176	ALPHA	8.41E-01	pCi/L	7.3E-01	U	1.11E+00	100.0		9310_ALPHAB	1.563E-01	07/24/2008	71.9	1.8		D
DUP	12587-46-1	1.79E+00		7.1E-01						L	21:04	20.0	3		

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

Thursday, July 31, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05427.Edd, h:\Reportdb\edd\FeadIV\Rad\39628.Edd

Lab Sample Id: KQGMW1CR **Sdg/Rept Nbr:** W05427 39628 **Collection Date:** 06/22/2008 10:56

Client Id: B1VRD0 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 06/23/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W08-006	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
8178542	TC-99	4.64E+01	pCi/L	8.9E+00		1.01E+01	100.0		TC99_SEP_LS	1.251E-01	07/24/2008	11.7	0.9		D
DUP	14133-76-7	5.22E+01		5.7E+00						L	04:22	20.0	3		

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

Thursday, July 31, 2008

TestAmerica Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05427.Edd, h:\Reportdb\edd\FeadIV\Rad\39628.Edd

Lab Sample Id:	KQGMW1DW	**Sdg/Rept Nbr:**	W05427	39628	**Collection Date:** 06/22/2008 10:56
Client Id:	B1VRD0	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	MS		**Received Date:** 06/23/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W08-006	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
8178542	TC-99	3.59E+03	pCi/L	2.2E+02		9.99E+00	100.0	3.69E+03	TC99_SEP_LS	1.25E-01	07/24/2008			60	D
MS	14133-76-7			3.3E+01				97.5		L	04:22			140	

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.

RQC050

TestAmerica Laboratories, Inc.
WET CHEM BATCHSHEET

Run Date: 7/08/08
Time: 14:51:47

TestAmerica Richland

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: IZ COLIFORM BY METHOD 9223
QC BATCH #: **8178545**
PREP DATE: 6/26/08
COMP DATE: 6/26/08
USER: WAGARR

INITIALS:
PREP DM
ANAL ↓

DATA ENTRY:
INITIALS SKS
DATE 7/8/08

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:	
KQGM9-1-AA	J-8F240171-001	XX I 88 IZ 5I	E	6/23/08	B1V886	< 1 Col /100 ml
KQGM9-1-AC	J-8F240171-001-X	XX I 88 IZ 5I	E	↓	B1V886 DUP	↓
KQNXX-1-AA	J-8F260000-545-B	XX I 88 IZ 5I		↓	INTRA-LAB BLANK	↓
KQNXX-1-AC	J-8F260000-545-C	XX I 88 IZ 5I		↓	INTRA-LAB CHECK	14.8 ↓

Control Limits

(0-0)

TestAmerica

TA Richland
Hexavalent Chromium - Water

Analyst:	L. Dinh	Calibration Curve Information				SOP Information		BATCH #	8175218
Start Date:	6/20/2008		Amount	Conc.(mg/L)	ABS.	RICH-WC-5003		SDG #	W05427
Start Time:		Blank	0.000	0.000	0.000	Revision 7		Matrix	Water
End Date:	6/20/2008	Std. 1	0.100	0.050	0.099				
End Time		Std. 2	0.500	0.250	0.490			Instrument Information	
		Std. 3	0.750	0.375	0.724	MDL (mg/L)	0.002	Instrument:	Hach DR2010
Analyst Signature:	Lien Dinh	Std. 4	1.500	0.750	1.424			Wavelength:	540
		Std 5	2.000	1.000	1.878			R Squared	0.99983
Date:	6/23/2008	Standard Volume (mL):			100.000			Slope:	1.87777
		Date of Curve:			6/20/2008			Intercept:	0.01024

	Calibration Information:	ICV Information:		LCS Information:		Matrix Spike Information:	
Dilution ID #	Cr-08-00121	Cr-08-00122		Cr-08-00121		Cr-08-00121	
Prep Date:	06/20/08	06/20/08		06/20/08		06/20/08	
Concentration (mg/L)	50	50		50		50	
Expiration Date:	06/21/08	06/21/08		06/21/08		06/21/08	
Pipettor(s)	70,190	190		190		190	
Volume Used (Expected Value		1.000	0.50000	1.00	0.50000	0.50	0.26316

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

Sample ID	Client ID	Type	Sample Volume (mL)	Sample ABS.	Blank ABS.	Corrected ABS.	Dilution Factor	Curve Conc. (mg/L)	Final Conc. (mg/L)	% Rec.
n/a	n/a	ICV	100.000	0.973	0.000	0.973	1	0.5127	0.513	102.54%
n/a	n/a	ICB	100.000	0.000	0.000	0.000	1	<MDL	<MDL	
KQEQJ1AA	n/a	Prep Blank	100.000	-0.001		-0.001	1	<MDL	<MDL	
KQEQJ1AC	n/a	LCS	100.000	0.970		0.970	1	0.5111	0.511	102.22%
KQC3N1AA	B1VKD3'	Sample	100.000	0.152		0.152	1	0.0755	0.075	
KQC3N1AC-S	B1VKD3'-MS	MS	100.000	0.659		0.659	1	0.3455	~~0.345~~ 0.27	102.60%
KQC3N1AD-D	B1VKD3'-MSD	MSD	100.000	0.655		0.655	1	0.3434	~~0.343~~ 0.268	101.79%
KQC3N1AE-X	B1VKD3'-DUP	Duplicate	100.000	0.152		0.152	1	0.0755	0.075	
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
n/a	n/a	CCV	100.000	0.973		0.973	1	0.5127	0.513	102.54%
n/a	n/a	CCB	100.000	-0.001		-0.001	1	<MDL	<MDL	
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/30/2008 10:07:22 AM

Lot No., Due Date: J8F240165; 08/08/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8203176; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05427; WATER

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

6.0 Comments on any No response:
NCM 10-12762

First Level Review Lisa Anderson **Date** 7/30/08

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8203176

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

Comments on any "No" response: See Nar

Second Level Review: [signature] Date: 7/30/18

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

Clouseau
Nonconformance Memo

TestAmerica

NCM #:	**10-12762**		
NCM Initiated By:	Lisa Antonson	Classification:	**Anomaly**
Date Opened:	07/30/2008	Status:	**QAREVIEW**
Date Closed:		Production Area:	Environmental - Prep
		Tests:	Alpha by GPC-Am
		Lot #'s (Sample #'s):	J8F240165 (1), J8F260000 (540),
		QC Batches:	8178540,
Nonconformance:	LCS result out of limits		
Subcategory:	Analyte was recovered low in the LCS		

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	07/30/2008	The LCS in this batch had a low recovery of 61%. A recount didn't bring it within limits. The samples were rerun in 8203176 wtih good results.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	07/30/2008	The samples were rerun with good results.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/18/2008 2:25:42 PM

Lot No., Due Date: J8F240165; 08/08/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8178541; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05427; WATER

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

6.0 Comments on any No response:

First Level Review John Morton **Date** 7-18-8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8178541

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 Ind Date: 7/23/8

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/30/2008 12:02:06 PM

Lot No., Due Date: J8F240165; 08/08/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8178544; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05427; WATER

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

6.0 Comments on any No response:

First Level Review Rita Anderson **Date** 7/30/08

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

8178544

Batch Number: ~~8178544~~ OP 07/31/08

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: NO - NCM

Second Level Review: Jm Petty Date: 07/31/08

TestAmerica

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/28/2008 11:12:59 AM

Lot No., Due Date: J8F170170,J8F170176,J8F240165; 08/08/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8178539; RGAMMA Gamma by GER

SDG, Matrix: W05427; WATER

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

6.0 Comments on any No response:

Sample J8F170176-8 was re-couned on a different detector in order to provide a duplicate.

First Level Review [signature] **Date** 7-28-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8178539

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: Insuff sample volume to run a separate dup. Sample #8 counted on a different detector to act as dup.

Second Level Review: Erin [signature] Date: 7/28/18

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

TestAmerica

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/28/2008 11:29:24 AM

Lot No., Due Date: J8F170168,J8F170170,J8F240165; 08/08/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8178538; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05427; WATER

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 7-28-8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 3178538

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: 7/28/18

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/28/2008 11:03:01 AM

Lot No., Due Date: J8F170176,J8F240167; 08/08/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8178542; RTC99 Tc-99 by LSC

SDG, Matrix: W05427; WATER

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 7-28-8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8178542

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: 7/28/1

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/22/2008 2:13:42 PM

Lot No., Due Date: J8F240171; 08/08/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8178545;

SDG, Matrix: W05427; 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 Lisa Anderson **Date** 7/22/08

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8178545

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: 7/23/8

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

ENTERED SKS 7/8/08

TestAmerica

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): **8175218**

Lab Sample Numbers or JRF200311 | WO5427

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

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

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

Comments on any "No" response:

Analyst: [signature] Date: 6/23/08

Second-Level Review: [signature] Date: 6/23/08

TESTAMERICA

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8F170168 W05427 DUE 73108 KP3A9

C.O.C. # **A08-006-31**

Page 1 of 1

Collector Roy Sickle	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. A08-006	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title LLWMA(1)-PA JUNE 2008	HNF-N-506-15	**Ice Chest No.** GW 1 **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol Other	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
200 Area Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1VJJ0		W	6/12/08	1022	1x20-mL P	Activity Scan	None
B1VJJ0		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Roy Sickle	JUN 12 2008 1155	LJ LANE TAL	JUN 12 2008 1155
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

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

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

TESTAMERICA

54

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8F170168 WO5427 DUE 73108 KP44H

C.O.C. # **A08-006-35**

Page 1 of 1

Collector Roy Sickle	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. A08-006	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title LLWMA(1)-PA JUNE 2008	ANF-N-506-15	**Ice Chest No.** GW 1 **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol Other	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time**
200 Area Generator Knowledge Information Form applies

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1VJJ2		W	6/12/08	0928	1x20-mL P	Activity Scan	None
B1VJJ2		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Roy Sickle			JUN 12 2008 1155		W LANE	TAL	JUN 12 2008 1155
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 61608 1155 GM Screen Result 0.1K

Client: PGW SDG #: W05427 NA[ ] SAF #: A08-006 NA [ ]

Work Order Number: J8F170168 Chain of Custody # A08-006-31,-35

Shipping Container ID: _____ Air Bill # _____

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

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

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

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

6. Number of samples in shipping container: 2

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

8. Samples have:
   - ____ Tape
   - ✓ Custody Seals
   - ____ Hazard Lables
   - ✓ Appropriate Sample Lables

9. Samples are:
   - ✓ In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles
   (Only for samples requiring no head space.)

10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ] Amount HNO_3 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: 61608

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

J8F170166 70.8K W05427 DUE 73108 KP3E1

C.O.C. # **S08-006-10**

Page 1 of 1

Collector: Roy Sickle	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S08-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JUNE 2008	HNF-N-506-15	Ice Chest No.: GW-1 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1VLV9		W	6/11/08	1021	1x20-mL P	Activity Scan	None
B1VLV9		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By	Date/Time	Received By	Date/Time
Print: Roy Sickle Sign: JUN 12 2008	1155	Print: LWLANE TAL Sign: JUN 12 2008	1155
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

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

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

TESTAMERICA

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8F170168 70 GRR61708 W05427 DUE 73108 KP3FT

C.O.C. # **S08-006-13**

Page 1 of 1

Collector ~~Scott E. Hamaker~~ Roy Sickle	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. S08-006	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURV, JUNE 2008	HNF-W-506-16	Ice Chest No. GW-1 Temp.
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol SURV	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1VM24		W	6/11/08	1303	1x20-mL P	Activity Scan	None
B1VM24		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
~~Scott E. Hamaker~~ Roy Sickle	RS	16	JUN 12 2008 1155	RJ LANE	TAL	16 GRR 61708	JUN 12 2008 1155
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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TESTAMERICA

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S08-006-26
	J8F170 ~~68~~ 70 PH 61708 W05427 DUE 73108 KP3F4	Page 1 of 1

Collector R. A. Shepard	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. S08-006	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURV, JUNE 2008	HNF-N-506-12	Ice Chest No. SML-442 Temp.
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol SURV	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1VM40		W	6-11-08	0938	1x20-mL P	Activity Scan	None
B1VM40		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. A. Shepard			JUN 11 2008 1155		LWLANE	TAL	JUN 11 2008 1615
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8F170168 70 KK 601708 W05427 DUE 73108 KP3F8

C.O.C. # **S08-006-122**

Page 1 of 1

Collector Roy Sickle	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. S08-006	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JUNE 2008	HNF-N-506-15	**Ice Chest No.** GW1 **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1VLL1		W	6/12/08	1022	1x20-mL P	Activity Scan	None
B1VLL1		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Roy Sickle	JUN 16 2008 1155	LNLANE TAL	JUN 16 2008 1155

Matrix *

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

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 61608 1155 GM Screen Result 0.1K

Client: PGW SDG #: W05427 NA[ ] SAF #: 508-006 NA [ ]

Work Order Number: J8F170~~16870~~ QR61708 Chain of Custody # 508-006-10,-13,-26,-122

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 4
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ✓ Custody Seals
   - ____ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles (Only for samples requiring no head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ] Amount HNO_3 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: 61608

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. # W08-006-78
	J8F170176 W0542J DHE 73108 KP3K4	Page 1 of 1

Collector: Roy Sickle	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA JUNE 2008	HNF-N-506-15	Ice Chest No.: GW-1 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS Hold Time — Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1VNX2		W	6/11/08	1302	1x20-mL P	Activity Scan	None
B1VNX2		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Roy Sickle			JUN 12 2008 1155		LJ LANE	TAL	16 JUN 2008 JUN 12 2008 1155
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TESTAMERICA

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8F170176 W05427 DUE 7310S KP3LA

C.O.C. # **W08-006-86**

Page 1 of 1

Collector ~~Scott E. Hamaker~~ Roy Sickle	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. W08-006	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA, JUNE 2008	HNF-N-506-16	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 ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1VNY6		W	6/11/08	1303	1x20-mL P	Activity Scan	None
B1VNY6		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
~~Scott E. Hamaker~~ RD	Roy Sickle		JUN 12 2008 1155		WLANE TAL	16 JUN 2008	JUN 12 2008 1155
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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TESTAMERICA

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8F170176 W05427 DHR73108 KP3LG

C.O.C. # **W08-006-94**

Page 1 of 1

Collector ~~Scott E. Hamaker~~ 6-12-08 Roy Sickle	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. W08-006	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA, JUNE 2008	HWF-N-506-16	Ice Chest No. GW-1 Temp.
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol RCRA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1VP13		W	6/11/08	0859	1x20-mL P	Activity Scan	None
B1VP13		W	↓	0859	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
~~Scott E. Hamaker~~ 6-12-8	Roy Sickle		JUN 12 2008 1155		LJ LANE TAL		JUN 12 2008 1155
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TESTAMERICA

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W08-006-108
	J8F170176 W05427 DUE 73108 KP3LK	Page 1 of 1

Collector ~~Scott E. Hamaker~~ Roy Sickle	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. W08-006	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA JUNE 2008	HWF-W-506-11	Ice Chest No. 6W-1 Temp.
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol RCRA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1VP33		W	6/11/08	1207	1x20-mL P	Activity Scan	None
B1VP33		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
~~Scott E. Hamaker~~	Roy Sickle		JUN 12 2008 1155		LULANE TAL		JUN 12 2008 1155
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TESTAMERICA

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J8F170176 W05427 DNE73108 KP3LL	C.O.C. # W08-006-116 Page 1 of 1

Collector: ~~Scott E. Hamaker~~ Roy Sickle	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, JUNE 2008	HNF-N-506-16	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 ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1VP49		W	6/11/08	1041	1x20-mL P	Activity Scan	None
B1VP49		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Roy Sickle ~~Scott E. Hamaker~~	JUN 12 2008 1155	W LANE TAL	16 JUN 2008 JUN 12 2008 1155
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

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

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

TESTAMERICA

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8F170176 W05427 DUE 73108 KP3QN

C.O.C. # **W08-006-124**

Page 1 of 1

Collector ~~Scott E. Hamaker~~ Roy Sickle	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. W08-006	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA JUNE 2008	HWF-N-506-16	Ice Chest No. RW-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 ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1VP65		W	6/11/08	1414	1x20-mL P	Activity Scan	None
B1VP65		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

Relinquished By	Date/Time	Received By	Date/Time
Roy Sickle ~~Scott E. Hamaker~~ Sign	JUN 12 2008 1155	Print LJLANE Sign TAL	1688 C1608 JUN 12 2008 1155
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

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

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

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TESTAMERICA

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J8F170176 W05427 DUE 73108 KP3Q0	C.O.C. # W08-006-132 Page 1 of 1

Collector: R. A. Shepard	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, JUNE 2008	HNF-N-506-12	Ice Chest No.: SML-442 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS Hold Time — Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1VP81		W	6-11-08	1059	1x20-mL P	Activity Scan	None
B1VP81		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. A. Shepard			JUN 12 2008		LWLANE	TAL	JUN 12 2008 1655
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TESTAMERICA

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8F170176 W05427 DUE 73108 KP3Q3

C.O.C. # **W08-006-140**

Page 1 of 1

Collector R. A. Shepard	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. W08-006	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, JUNE 2008	HNF-N-506	**Ice Chest No.** SML-442 **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1VP98		W	6-11-08	0938	1x20-mL P	Activity Scan	None
B1VP98		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. A. Shepard			JUN 17 2008 1155		LJ LANE	TAL	JUN 17 2008 1155
Relinquished By			Date/Time	Received By			Date/Time 6/16/08
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TESTAMERICA

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8F170176 W05427 DUE 73108 KP3Q7

C.O.C. # **W08-006-148**

Page 1 of 1

Collector: R.A. Shepard	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA JUNE 2008	HNF-N-506-12	Ice Chest No.: SMC-442 Temp.
Shipped To (Lab): TestAmerica Incorporated Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1VRB7		W	6-1-08	1227	1x20-mL P	Activity Scan	None
B1VRB7		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R.A. Shepard			JUN 12 2008 1155		LJ LANE	TAL	JUN 16 2008 1155
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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TESTAMERICA

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J8F170176 W05427 DUE 73108 KP3RC	C.O.C. # W08-006-224 Page 1 of 1

Collector: Roy Sickle	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA JUNE 2008	HNF-N-606.15	Ice Chest No.: GW 1 Temp.
Shipped To (Lab): TestAmerica Incorporated Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1VRH0		W	6/12/08	1022	1x20-mL P	Activity Scan	None
B1VRH0		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Roy Sickle	JUN 12 2008 1155	LJ LANE TAL	JUN 12 2008 1155
			6/16/08

Matrix *

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

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

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 6 16 08 1155 GM Screen Result 0.1K

Client: PGW SDG #: W05427 NA[ ] SAF #: W08-006 NA [ ]

Work Order Number: J8F170176 Chain of Custody # W08-006-78,-86,-94,-108,-116,-124,-132,-140,-148,-224

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: 10
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ✓ Tape
   - ✓ Custody Seals
   - ✓ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - Broken
   - Leaking
   - Have Air Bubbles

   (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ] Amount HNO_3 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: 6 16 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

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J8F200311 W05427 Due 08.04.08	C.O.C. # I08-040-6 Page 1 of 1

Collector Scott E. Hamaker	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-040	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100HR3JAM(1/2), JUNE 2008	1HWF-N-506 12	**Ice Chest No.** 008 **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol CERCLA	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
100 Area Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1VKD3		W	6-20-08	1206	1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	Cool~4C
B1VKD3		W	↓	↓	1x20-mL P	Activity Scan	None
						~~KQ3N~~	
						KQC3N	

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
Scott E. Hamaker	Scott Hamaker	JUN 20 2008 1430	S. Smith	S. Smith	JUN 20 2008 1430
Relinquished By		Date/Time	Received By		Date/Time
Relinquished By		Date/Time	Received By		Date/Time
Relinquished By		Date/Time	Received By		Date/Time

Matrix *

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 06 20 08 1430 GM Screen Result .07

Client: PGW SDG #: W05427 NA[ ] SAF #: I08-040 NA [ ]

Work Order Number: J8F200311 Chain of Custody # I08-040-6

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   _____ Tape
   _____ Custody Seals
   _____ Hazard Lables
   1 Appropriate Sample Lables
9. Samples are:
   1 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 HNO_3 Added NONE
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: S. Smith Date: 06 20 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

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J8F240165 W05427 Due 08.07.08	C.O.C. # S08-001-168 Page 1 of 1

Collector: R. Ellingsworth	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S08-001	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JANUARY 2008	HNF-N-506-12	Ice Chest No. Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS Hold Time
Site-Wide Generator Knowledge Information Form applies.
Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1RTP4		W	6-23-08	1220	1x20-mL P	Activity Scan	None
B1RTP4		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1RTP4		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1RTP4		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1RTP4		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
						KQGL9	

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
R. Ellingsworth	62308 1405	LJ LANE TAL	62308 1405
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 62308 1405 GM Screen Result 0.1K

Client: PGW SDG #: W05427 NA[ ] SAF #: S08-001 NA [ ]

Work Order Number: J8F240165 Chain of Custody # S08-001-168

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ✓ Custody Seals
   - ____ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ] Amount HNO_3 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: 62308

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8F240167 W05427 Due 08.07.08

C.O.C. # **W08-006-178**

Page 1 of 1

Collector D. Woehle	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-3869 **MSIN** **FAX**
SAF No. W08-006	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA JUNE 2008	HNF-N-506 14	**Ice Chest No.** **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1VRD0		W	6-22-08	1056	1x20-mL P	Activity Scan	None
B1VRD0		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
						KQGMW	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. Woehle		D. J. Woehle	62308 1445		LJ LANE	TAL	62308 1445
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 62308 1445 GM Screen Result 0.1K

Client: PGW SDG #: W05427 NA[ ] SAF #: W08-006 NA [ ]

Work Order Number: J8F240167 Chain of Custody # W08-006-178

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ✓ Tape
   - ✓ Custody Seals
   - Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are
   - ✓ In Good Condition
   - Broken
   - Leaking
   - Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ] Amount HNO_3 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: 62308

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

J8F240171 W05427 Due 08 07 08

C.O.C. # **W08-005-386**

Page 1 of 1

Collector R. Ellingsworth	**Contact/Requester** Steve Trent	**Telephone No.** 509-372-5869 **MSIN** **FAX**
SAF No. W08-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA MAY 2008	HNF-N-500-12	**Ice Chest No.** **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1V886		W	6-23-08	1319	1x20-mL P	Activity Scan	None
B1V886		W	1	1	1x500-mL P	9223_COLIFORM: Coliform (1)	Na2S2O3 Cool~4C
						KQGM9	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. Ellingsworth			JUN 23 2008 1405		WLANE	TAL	JUN 23 2008 1405
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 62308 1405 GM Screen Result 0.1K

Client: PGW SDG #: W05427 NA[ ] SAF #: W08-005 NA [ ]

Work Order Number: J8F240171 Chain of Custody # W08-005-386

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ✓ Custody Seals
   - ____ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are
   - ✓ In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ] Amount HNO_3 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: RJ Date: 62308

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

RE-ANALYSIS REQUEST

DUE DATE 88

CUSTOMER PGW

ANALAYSIS α

MATRIX H_2O

LOT NUMBER J8F240165

SAMPLE DELIVERY GROUP

OLD BATCH NUMBER 8178540

NEW BATCH NUMBER 8203176

LAB SAMPLE ID	CLIENT ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1) KQGL9		LOW LCS YIELD
2) DUP		
3) BLK		
4) LCS		
5)		
6)		
7)		
8)		
9)		
10)		
11)		
12)		
13)		
14)		
15)		
16)		
17)		
18)		
19)		
20)		
LAB QC ID		Assigned with new batch.

RC-048, 12/07, Rev 8

TESTAMERICA

7/21/2008 3:15:29 PM

Sample Preparation/Analysis

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

Balance Id:1120482733
Pipet #: 245

AnalyDueDate: 08/08/2008

Sep1 DT/Tm Tech:

Batch: 8203176 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD (Back)

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KQGL9-1-AK-X J8F240165-1-DUP 06/23/2008 12:20		156.30g,in AmtRec: 20ML,4XLP,3X4LP #Containers: 8		1.5	26.7	100	10A	2154	7/24/08 DD	Scr: Alpha: -1.40E-04 uCi/Sa Beta: -9.34E-04 uCi/Sa
2 KQGL9-2-AA J8F240165-1-SAMP 06/23/2008 12:20		156.30g,in AmtRec: 20ML,4XLP,3X4LP #Containers: 8			26.0		10B			Scr: Alpha: -1.40E-04 uCi/Sa Beta: -9.34E-04 uCi/Sa
3 KRV0T-1-AA-B J8G210000-176-BLK 06/23/2008 12:20		200.00g,in AmtRec: #Containers: 1			0.7		10C			Scr: Alpha: Beta:
4 KRV0T-1-AC-C J8G210000-176-LCS 06/23/2008 12:20		200.00g,in AmtRec: #Containers: 1	ASD4519 07/03/08,pd 06/01/01,r		1.0		10D			Scr: Alpha: Beta:

Comments: 2X20.0 Aliquot reduced due to wt screens DLH 7/21/08

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

KQGL91AK-DUP Constituent List:

KRV0T1AA-BLK:

KRV0T1AC-LCS:

KQGL91AK-DUP Calc Info:

7/21/2008 3:15:29 PM

Sample Preparation/Analysis

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

Balance Id:1120482733
Pipet #:

AnalyDueDate: 08/08/2008

Sep1 DT/Tm Tech:

Batch: 8203176 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD

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

```
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
KRV0T1AA-BLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
KRV0T1AC-LCS:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

7/30/2008 10:06:26 AM

ICOC Fraction Transfer/Status Report

ByDate: 7/31/2007, 8/4/2008, Batch: '8203176', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8203176						
AC		**Rev1C**	**HarrisD**	7/21/2008 3:12:51 PM		
SC			nortonj	IsBatched	7/21/2008 9:59:21 AM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	7/21/2008 3:12:51 PM	RL-PRP-004 REVISION 0
SC			HarrisD	Prep1C	7/21/2008 3:15:31 PM	RL-PRP-004 REVISION 0
SC			BockJ	InPrep2	7/22/2008 10:32:50 AM	RL-GPC-001 REVISION 0
SC			BockJ	Prep2C	7/23/2008 1:14:28 PM	RL-GPC-001 REVISION 0
SC			ClarkR	InCnt1	7/23/2008 1:19:05 PM	RL-CI-006 REVISION 0
SC			BlackCL	CalcC	7/25/2008 6:12:03 AM	RL-CI-006 REVISION 0
SC			antonsonl	Rev1C	7/30/2008 10:06:16 AM	RICH-RC-0002 REV 8
AC			**HarrisD**	7/21/2008 3:15:31 PM		
AC			**BockJ**	7/22/2008 10:32:50		
AC			**BockJ**	7/23/2008 1:14:28 PM		
AC			**ClarkR**	7/23/2008 1:19:05 PM		
AC			**BlackCL**	7/25/2008 6:12:03		
AC			**antonsonl**	7/30/2008 10:06:16		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.33

TESTAMERICA

7/15/2008 2:47:56 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 08/08/2008 WO5427

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

Balance Id:1120482733
Pipet #: 245

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,HarrisD / Beck 9

Batch: 8178541 **WATER** **pCi/L** **PM, Quote: SS , 57671**
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On / Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KQGL9-1-AC J8F240165-1-SAMP 06/23/2008 12:20		200.10g,in AmtRec: 20ML,4XLP,3X4LP #Containers: 8		1.5	67.4	100	32B	1522	7/17/08 MC Scr: Alpha: -1.40E-04 uCi/Sa Beta: -9.34E-04 uCi/Sa	
2 KQGL9-1-AH-X J8F240165-1-DUP 06/23/2008 12:20		200.20g,in AmtRec: 20ML,4XLP,3X4LP #Containers: 8			66.1		32C		Scr: Alpha: -1.40E-04 uCi/Sa Beta: -9.34E-04 uCi/Sa	
3 KQNXM-1-AA-B J8F260000-541-BLK 06/23/2008 12:20		200.40g,in AmtRec: #Containers: 1			Ø		32D		Scr: Alpha: Beta:	
4 KQNXM-1-AC-C J8F260000-541-LCS 06/23/2008 12:20		200.40g,in AmtRec: #Containers: 1	BESB3291 06/30/08,pd 08/08/06 r		0.2		32C	1717	7/17/08 MC Scr: Alpha: Beta:	

Comments: PH 2.0 OUT 7/15/08

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

KQGL91AC-SAMP Constituent List:

BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
KQNXM1AA-BLK:					
BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
KQNXM1AC-LCS:					
Sr-90	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

KQGL91AC-SAMP Calc Info:

TESTAMERICA

7/15/2008 2:47:57 PM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 08/08/2008

Sep1 DT/Tm Tech:

Batch: 8178541 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,HarrisD

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

Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KQNXM1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KQNXM1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

85

7/18/2008 2:15:46 PM

ICOC Fraction Transfer/Status Report

ByDate: 7/19/2007, 7/23/2008, Batch: '8178541', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8178541						
AC		**Rev1C**	**HarrisD**	7/15/2008 2:44:25 PM		
SC			wagarr	IsBatched	6/27/2008 8:19:00 AM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	7/15/2008 2:44:25 PM	RL-PRP-004 REVISION 0
SC			HarrisD	Prep1C	7/15/2008 2:47:59 PM	RL-PRP-004 REVISION 0
SC			BockJ	InPrep2	7/17/2008 6:51:06 AM	RL-GPC-001 REVISION 0
SC			BockJ	Prep2C	7/17/2008 1:27:38 PM	RL-GPC-001 REVISION 0
SC			ClarkR	InCnt1	7/17/2008 1:31:08 PM	RL-CI-006 REVISION 0
SC			DAWKINSO	CalcC	7/17/2008 9:25:00 PM	RL-CI-006 REVISION 0
SC			nortonj	Rev1C	7/18/2008 2:15:42 PM	RICH-RC-0002 REV 8
AC			**HarrisD**	7/15/2008 2:47:59 PM		
AC			**BockJ**	7/17/2008 6:51:06		
AC			**BockJ**	7/17/2008 1:27:38 PM		
AC			**ClarkR**	7/17/2008 1:31:08 PM		
AC			**DAWKINSO**	7/17/2008 9:25:00 PM		
AC			**nortonj**	7/18/2008 2:15:42 PM		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.33

TESTAMERICA

7/28/2008 4:09:50 PM

Sample Preparation/Analysis

Balance Id:1120482733,1120482733,1120

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 08/08/2008

Sep1 DT/Tm Tech: 07/17/2008 16:13,ManisD

Batch: 8178544 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech: 07/28/2008 10:15,ManisD

SEQ Batch, Test: None

Prep Tech: ManisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KQGL9-1-AF J8F240165-1-SAMP		1000.30g,in	SRTB16258 05/21/08,pd 05/22/07 r		1.0	22.9	100	4A 4A	0518 0526	7/28/08 7/28/08	
						07/17/2008 16:13;s1; 07/28/2008					
06/23/2008 12:20		AmtRec: 20ML,4XLP,3X4LP		#Containers: 8				Scr:	Alpha: -1.40E-04 uCi/Sa		Beta: -9.34E-04 uCi/Sa
2 KQGL9-1-AJ-X J8F240165-1-DUP		1000.10g,in	SRTB16259 05/21/08,pd 05/22/07 r		1.0	22.1	100	43 43	0518 0526	7/28/08 7/28/08	
						07/17/2008 16:13;s1; 07/28/2008					
06/23/2008 12:20		AmtRec: 20ML,4XLP,3X4LP		#Containers: 8				Scr:	Alpha: -1.40E-04 uCi/Sa		Beta: -9.34E-04 uCi/Sa
3 KQNXV-1-AA-B J8F260000-544-BLK		1000.00g,in	SRTB16260 05/21/08,pd 05/22/07 r		1.0	21.3	100	4C 4C	0518 0526	7/28/08 7/28/08	
						07/17/2008 16:13;s1; 07/28/2008					
06/23/2008 12:20		AmtRec:		#Containers: 1				Scr:	Alpha:		Beta:
4 KQNXV-1-AC-C J8F260000-544-LCS		1000.40g,in	SRSG1483 06/18/08,pd 01/23/08 r		1.0	20.9	100	4D 4D	0518 0526	7/28/08 7/28/08	
						07/17/2008 16:13;s1; 07/28/2008					
06/23/2008 12:20		AmtRec:		#Containers: 1				Scr:	Alpha:		Beta:

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TESTAMERICA

7/15/2008 11:35:18 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: DRM
Sep1 DT/Tm Tech: 7/14/08 16:18:27
Sep2 DT/Tm Tech: 7/28/08 10:15:42 DRM
Prep Tech: ,HarrisD

AnalyDueDate: 08/08/2008 WD5427

Batch: 8178544 WATER pCi/L PM, Quote: SS , 57671
SEQ Batch, Test: None

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 KQGL9-1-AF J8F240165-1-SAMP YTA18973 Ex:4/29/2009 06/23/2008 12:20		1000.30g,in AmtRec: 20ML,4XLP,3X4LP #Containers: 8	SRTB16258 1.818 05/21/08,pd 2.0076 0.9056				100	3"	2054 Scr: Alpha: -1.40E-04 uCi/Sa	7/17/08 [illegible] Beta: -9.34E-04 uCi/Sa	
2 KQGL9-1-AJ-X J8F240165-1-DUP YTA18974 Ex:4/29/2009 06/23/2008 12:20		1000.10g,in AmtRec: 20ML,4XLP,3X4LP #Containers: 8	SRTB16259 1.607 05/21/08,pd 2.0184 0.8259					9"	2131 Scr: Alpha: -1.40E-04 uCi/Sa	7/17/08 [illegible] Beta: -9.34E-04 uCi/Sa	
3 KQNXV-1-AA-B J8F260000-544-BLK YTA18975 Ex:4/29/2009 06/23/2008 12:20		1000.00g,in AmtRec: #Containers: 1	SRTB16260 1.585 05/21/08,pd 2.0103 0.4884					3"	2131 Scr: Alpha:	7/17/08 [illegible] Beta:	
4 KQNXV-1-AC-C J8F260000-544-LCS YTA18976 Ex:4/29/2009 06/23/2008 12:20		1000.40g,in AmtRec: #Containers: 1	SRSG1483 1.640 06/18/08,pd 2.1237 0.4923					9"	2203 Scr: Alpha:	7/17/08 [illegible] Beta:	

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TAL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1 ISV - Insufficient Volume for Analysis WO Cnt: 4
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4.8.32

TESTAMERICA

7/15/2008 11:35:18 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 08/08/2008

Sep1 DT/Tm Tech:

Batch: 8178544 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD

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

Comments:

PH 2.0 DUH 7/15/08

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

KQGL91AF-SAMP Constituent List:

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

KQNXV1AA-BLK:

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

KQNXV1AC-LCS:

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

KQGL91AF-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

KQNXV1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

KQNXV1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TESTAMERICA

7/28/2008 4:09:50 PM

Sample Preparation/Analysis

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

Balance Id:1120482733,1120482733,1120

Pipet #:

Sep1 DT/Tm Tech: 07/17/2008 16:13,ManisD

Sep2 DT/Tm Tech: 07/28/2008 10:15,ManisD

Prep Tech: ManisD

AnalyDueDate: 08/08/2008

Batch: 8178544 pCi/L

SEQ Batch, Test: None

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:

Comments:

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

KQGL91AF-SAMP Constituent List:

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

KQNXV1AA-BLK:

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

KQNXV1AC-LCS:

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

KQGL91AF-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

KQNXV1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

KQNXV1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

7/30/2008 12:00:55 PM

ICOC Fraction Transfer/Status Report

ByDate: 7/31/2007, 8/4/2008, Batch: '8178544', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8178544						
AC		**Rev1C**	**HarrisD**	7/15/2008 11:29:35		
SC			wagarr	IsBatched	6/27/2008 8:19:00 AM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	7/15/2008 11:29:35 AM	RL-PRP-004 REVISION 0
SC			HarrisD	Prep1C	7/15/2008 11:35:19 AM	RL-PRP-004 REVISION 0
SC			ManisD	InSep1	7/16/2008 8:24:51 AM	RL-GPC-003 REV 0
SC			ManisD	Sep1C	7/17/2008 5:35:47 PM	RL-GPC-003 REV 0
SC			DAWKINSO	InCnt1	7/17/2008 5:52:05 PM	RL-CI-007 REVISION 0
SC			DAWKINSO	Cnt1C	7/17/2008 9:40:19 PM	RL-CI-007 REVISION 0
SC			ManisD	InSep2	7/22/2008 10:22:44 AM	RL-GPC-004 REV 0
SC			ManisD	Sep2C	7/28/2008 4:11:09 PM	RL-GPC-004 REV 0
SC			DAWKINSO	InCnt2	7/28/2008 4:38:35 PM	RL-CI-006 REVISION 0
SC			BlackCL	CalcC	7/30/2008 5:29:24 AM	RL-CI-006 REVISION 0
SC			antonsonl	Rev1C	7/30/2008 12:00:38 PM	RICH-RC-0002 REV 8
AC			**HarrisD**	7/15/2008 11:35:19		
AC			**ManisD**	7/16/2008 8:24:51		
AC			**ManisD**	7/17/2008 5:35:47 PM		
AC			**DAWKINSO**	7/17/2008 5:52:05 PM		
AC			**DAWKINSO**	7/17/2008 9:40:19 PM		
AC			**ManisD**	7/22/2008 10:22:44		
AC			**ManisD**	7/28/2008 4:11:09 PM		
AC			**DAWKINSO**	7/28/2008 4:38:35 PM		
AC			**BlackCL**	7/30/2008 5:29:24		
AC			**antonsonl**	7/30/2008 12:00:38		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 11

ICOCFractions v4.8.33

TESTAMERICA

7/16/2008 10:52:00 AM

Sample Preparation/Analysis

384868. Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 08/08/2008 WDS-127

Batch: 8178539 **WATER** **pCi/L** **PM, Quote: SS , 57671**
SEQ Batch, Test: None

Balance Id:1120482733
Pipet #: _____
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,HarrisD (Back)

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KP3F8-1-AA J8F170170-4-SAMP 06/12/2008 10:22		2000.40g,in AmtRec: VIAL20,4LP #Containers: 2			100mls	200	15	1333	7/25/08	Scr: Alpha: 3.22E-05 uCi/Sa Beta: -5.11E-04 uCi/Sa
2 KP3K4-1-AA J8F170176-1-SAMP 06/11/2008 13:02		2000.10g,in AmtRec: VIAL20,4LP #Containers: 2					66	1334		Scr: Alpha: 7.59E-04 uCi/Sa Beta: -1.71E-04 uCi/Sa
3 KP3LA-1-AA J8F170176-2-SAMP 06/11/2008 13:03		2000.10g,in AmtRec: VIAL20,4LP #Containers: 2					67	1334		Scr: Alpha: 7.19E-04 uCi/Sa Beta: -1.23E-04 uCi/Sa
4 KP3LG-1-AA J8F170176-3-SAMP 06/11/2008 08:59		2000.30g,in AmtRec: VIAL20,4LP #Containers: 2					68	1335		Scr: Alpha: -5.15E-04 uCi/Sa Beta: 2.63E-04 uCi/Sa
5 KP3LK-1-AA J8F170176-4-SAMP 06/11/2008 12:07		2000.30g,in AmtRec: VIAL20,4LP #Containers: 2					610	1335		Scr: Alpha: 5.84E-04 uCi/Sa Beta: -7.57E-05 uCi/Sa
6 KP3LL-1-AA J8F170176-5-SAMP 06/11/2008 10:41		2000.10g,in AmtRec: VIAL20,4LP #Containers: 2					611	1335		Scr: Alpha: -1.28E-04 uCi/Sa Beta: -2.73E-05 uCi/Sa
7 KP3QN-1-AA J8F170176-6-SAMP 06/11/2008 14:14		2000.20g,in AmtRec: VIAL20,4LP #Containers: 2					613	1335		Scr: Alpha: 1.21E-03 uCi/Sa Beta: -2.74E-05 uCi/Sa

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TESTAMERICA

7/16/2008 10:52:03 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 08/08/2008

Sep1 DT/Tm Tech:

Batch: 8178539 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 KP3Q0-1-AA J8F170176-7-SAMP 06/11/2008 10:59	AmtRec: VIAL20,4LP #Containers: 2	2000.20g,in			100 mls	800	614	1336	7/25/08 S Scr: Alpha: 4.67E-04 uCi/Sa	Beta: 1.15E-04 uCi/Sa
9 KP3Q3-1-AA J8F170176-8-SAMP 06/11/2008 09:38	AmtRec: VIAL20,4LP #Containers: 2	2000.20g,in					615	1335	Scr: Alpha: -2.16E-04 uCi/Sa	Beta: 5.96E-04 uCi/Sa
10 KP3Q3-1-AC-X J8F170176-8-DUP 06/11/2008 09:38	AmtRec: VIAL20,4LP #Containers: 2	See comments					615	1702	7/25/08 Scr: Alpha: -2.16E-04 uCi/Sa	Beta: 5.96E-04 uCi/Sa
11 KQGL9-1-AD J8F240165-1-SAMP 06/23/2008 12:20	AmtRec: 20ML,4XLP,3X4LP #Containers: 8	2000.20g,in					618	1709	Scr: Alpha: -1.40E-04 uCi/Sa	Beta: -9.34E-04 uCi/Sa
12 KQNXJ-1-AA-B J8F260000-539-BLK 06/11/2008 09:38	AmtRec: #Containers: 1	2000.40g,in					616	1709	Scr: Alpha:	Beta:
13 KQNXJ-1-AC-C J8F260000-539-LCS 06/11/2008 09:38	AmtRec: #Containers: 1	2000.20g,in	QCAG1487 06/20/08,pd 07/16/08 r				613	1710	Scr: Alpha:	Beta:

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TESTAMERICA

7/16/2008 10:52:05 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 08/08/2008

Sep1 DT/Tm Tech:

Batch: 8178539 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD

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

Comments: KP3Q3-SAMP "Comments. ISV for gamma dup. Please recount on a different detector. DLH 7/16/08"

PH20 DLH 7/16/08

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

KP3F81AA-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:

KQNXJ1AA-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:

KQNXJ1AC-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						

KP3F81AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

KQNXJ1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

KQNXJ1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

7/28/2008 11:11:00 AM

ICOC Fraction Transfer/Status Report

ByDate: 7/29/2007, 8/2/2008, Batch: '8178539', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8178539						
AC		**Rev1C**	**HarrisD**	7/16/2008 10:30:59		
SC			wagarr	IsBatched	6/27/2008 8:19:00 AM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	7/16/2008 10:30:59 AM	RL-PRP-004 REVISION 0
SC			HarrisD	Prep1C	7/16/2008 10:52:01 AM	RL-PRP-004 REVISION 0
SC			BockJ	InPrep2	7/23/2008 9:14:56 AM	RL-GAM-001 REVISION 0
SC			BockJ	Prep2C	7/25/2008 10:11:27 AM	RL-GAM-001 REVISION 0
SC			BlackCL	InCnt1	7/25/2008 10:13:44 AM	RL-CI-007 REVISION 0
SC			ClarkR	CalcC	7/25/2008 5:49:33 PM	RL-CI-007 REVISION 0
SC			nortonj	Rev1C	7/28/2008 11:10:50 AM	RICH-RC-0002 REV 8
AC			**HarrisD**	7/16/2008 10:52:01		
AC			**BockJ**	7/23/2008 9:14:56		
AC			**BockJ**	7/25/2008 10:11:27		
AC			**BlackCL**	7/25/2008 10:13:44		
AC			**ClarkR**	7/25/2008 5:49:33 PM		
AC			**nortonj**	7/28/2008 11:10:50		

AC: Accepting Entry, SC: Status Change

TAL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 7

ICOCFractions v4.8.33

TESTAMERICA

7/21/2008 9:51:50 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 08/08/2008 105427

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

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

Batch: 8178538 **WATER** **pCi/L** **PM, Quote: SS , 57671**
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 **KP3A9-1-AA** J8F170168-1-SAMP 06/12/2008 10:22	AmtRec: VIAL20,2X4LP #Containers: 3	3878.90g,in	ITA7428 07/14/08		37.6	100	L5	1738	7/24/08	Scr: Alpha: -8.19E-04 uCi/Sa Beta: 4.37E-05 uCi/Sa
2 **KP3A9-1-AC-X** J8F170168-1-DUP 06/12/2008 10:22	AmtRec: VIAL20,2X4LP #Containers: 3	3873.90g,in	ITA7429 07/14/08		38.2		L4	1739		Scr: Alpha: -8.19E-04 uCi/Sa Beta: 4.37E-05 uCi/Sa
3 **KP3E1-1-AA** J8F170170-1-SAMP 06/11/2008 10:21	AmtRec: VIAL20,2X4LP #Containers: 3	3880.50g,in	ITA7430 07/14/08		35.4		L2	1739		Scr: Alpha: -6.44E-04 uCi/Sa Beta: -5.60E-05 uCi/Sa
4 **KP3FT-1-AA** J8F170170-2-SAMP 06/11/2008 13:03	AmtRec: VIAL20,2X4LP #Containers: 3	3843.10g,in	ITA7431 07/14/08		35.9		L4	1926		Scr: Alpha: 1.76E-03 uCi/Sa Beta: -7.33E-04 uCi/Sa
5 **KP3F4-1-AA** J8F170170-3-SAMP 06/11/2008 09:38	AmtRec: VIAL20,2X4LP #Containers: 3	3924.80g,in	ITA7432 07/14/08		41.4		L5	1927		Scr: Alpha: 1.56E-03 UCI/SA Beta: -7.32E-04 UCI/SA
6 **KP44H-1-AA** J8F170168-2-SAMP 06/12/2008 09:28	AmtRec: VIAL20,2X4LP #Containers: 3	3891.10g,in	ITA7433 07/14/08		35.3		L2	↓		Scr: Alpha: -3.52E-04 uCi/Sa Beta: -5.21E-05 uCi/Sa
7 **KQGL9-1-AE** J8F240165-1-SAMP 06/23/2008 12:20	AmtRec: 20ML,4XLP,3X4LP #Containers: 8	3800.80g,in	ITA7434 07/14/08		45.9		L2	2151		Scr: Alpha: -1.40E-04 uCi/Sa Beta: -9.34E-04 uCi/Sa

TESTAMERICA

7/21/2008 9:51:52 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #:

AnalyDueDate: 08/08/2008

Sep1 DT/Tm Tech:

Batch: 8178538 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 KQNXH-1-AA-B J8F260000-538-BLK 06/12/2008 10:22		3976.40g,in AmtRec:	ITA7435 07/14/08 #Containers: 1		37.9	100	L4	2153	7/24/08 [illegible]	
								Scr:	Alpha:	Beta:
9 KQNXH-1-AC-C J8F260000-538-LCS 06/12/2008 10:22		3991.50g,in AmtRec:	ISD0861 06/16/08 #Containers: 1		365		L5	2153		
								Scr:	Alpha:	Beta:

Comments: [illegible] 7/21/08 [illegible] 7/21/08

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

KP3A91AA-SAMP Constituent List:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:
KQNXH1AA-BLK:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:
KQNXH1AC-LCS:
I-129 RDL:5 pCi/L LCL:70 UCL:130 RPD:20

KP3A91AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KQNXH1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KQNXH1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

7/28/2008 11:28:27 AM

ICOC Fraction Transfer/Status Report

ByDate: 7/29/2007, 8/2/2008, Batch: '8178538', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8178538						
AC		**Rev1C**	**HarrisD**	7/21/2008 9:39:06		
SC			wagarr	IsBatched	6/27/2008 8:19:00 AM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	7/21/2008 9:39:06 AM	RL-PRP-004 REVISION 0
SC			HarrisD	Prep1C	7/21/2008 9:51:58 AM	RL-PRP-004 REVISION 0
SC			BostedD	Prep2C	7/24/2008 3:16:16 PM	RL-GAM-002 REVISION 0
SC			DAWKINSO	InCnt1	7/24/2008 3:59:51 PM	RL-CI-007 REVISION 0
SC			BlackCL	CalcC	7/25/2008 6:08:55 AM	RL-CI-007 REVISION 0
SC			nortonj	Rev1C	7/28/2008 11:23:39 AM	RICH-RC-0002 REV 8
AC			**HarrisD**	7/21/2008 9:51:58		
AC			**BostedD**	7/24/2008 3:16:16 PM		
AC			**DAWKINSO**	7/24/2008 3:59:51 PM		
AC			**BlackCL**	7/25/2008 6:08:55		
AC			**nortonj**	7/28/2008 11:23:39		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.33

TESTAMERICA

7/14/2008 5:34:30 PM

Sample Preparation/Analysis

Balance Id:1114 A

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AM Tc-99 Prp/SepRC5078
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 08/08/2008 W05427

Sep1 DT/Tm Tech:

Batch: 8178542 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KP3Q7-1-AA J8F170176-9-SAMP 06/11/2008 12:27		125.20g,in AmtRec: VIAL20,3XLP	#Containers: 4	60		Scr:	Alpha: -2.39E-04 uCi/Sa	Beta: 4.10E-04 uCi/Sa
2 KP3RC-1-AA J8F170176-10-SAMP 06/12/2008 10:22		125.10g,in AmtRec: VIAL20,3XLP	#Containers: 4			Scr:	Alpha: -7.52E-04 uCi/Sa	Beta: 5.53E-04 uCi/Sa
3 KQGMW-1-AA J8F240167-1-SAMP 06/22/2008 10:56		125.30g,in AmtRec: 20ML,3XLP	#Containers: 4			Scr:	Alpha: 1.42E-04 uCi/Sa	Beta: -4.64E-04 uCi/Sa
4 KQGMW-1-AC-X J8F240167-1-DUP 06/22/2008 10:56		125.10g,in AmtRec: 20ML,3XLP	#Containers: 4			Scr:	Alpha: 1.42E-04 uCi/Sa	Beta: -4.64E-04 uCi/Sa
5 KQGMW-1-AD-S J8F240167-1-MS 06/22/2008 10:56		125.00g,in AmtRec: 20ML,3XLP	TCSG2096 07/10/08,pd 01/10/06,r #Containers: 4			Scr:	Alpha: 1.42E-04 uCi/Sa	Beta: -4.64E-04 uCi/Sa
6 KQNXN-1-AA-B J8F260000-542-BLK 06/22/2008 10:56		125.00g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
7 KQNXN-1-AC-C J8F260000-542-LCS 06/22/2008 10:56		125.00g,in AmtRec:	TCSE2237 07/10/08,pd 01/10/06,r #Containers: 1			Scr:	Alpha:	Beta:

99

TESTAMERICA

7/14/2008 5:34:31 PM

Sample Preparation/Analysis

AM Tc-99 Prp/SepRC5078
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

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

AnalyDueDate: 08/08/2008

Batch: 8178542 pCi/L
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 KQNXN-1-AD-BN J8F260000-542-IBLK 06/22/2008 10:56	AmtRec:	#Containers: 1		60		Scr:	Alpha:	Beta:

Comments:
PH 2.0 AH 7/14/08

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

KP3Q71AA-SAMP Constituent List:
Tc-99 RDL:1.50E+01 pCi/L LCL:70 UCL:130 RPD:20
KQGMW1AD-MS:

KQNXN1AA-BLK:
Tc-99 RDL:1.50E+01 pCi/L LCL: UCL: RPD:
KQNXN1AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
KQNXN1AD-IBLK:
Tc-99 RDL:1.50E+01 pCi/L LCL: UCL: RPD:

KP3Q71AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KQGMW1AD-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KQNXN1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KQNXN1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KQNXN1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

100

7/28/2008 10:54:08 AM

ICOC Fraction Transfer/Status Report

ByDate: 7/29/2007, 8/2/2008, Batch: '8178542', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8178542						
AC		**Rev1C**	**HarrisD**	7/14/2008 5:29:50 PM		
SC			wagarr	IsBatched	6/27/2008 8:19:00 AM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	7/14/2008 5:29:50 PM	RL-PRP-004 REVISION 0
SC			HarrisD	Prep1C	7/14/2008 5:34:32 PM	RL-PRP-004 REVISION 0
SC			Barcotl	InPrep2	7/23/2008 12:27:33 PM	RL-LSC-013 REVISION 0
SC			Barcotl	Prep2C	7/23/2008 12:27:43 PM	RL-LSC-013 REVISION 0
SC			ClarkR	InCnt1	7/23/2008 2:11:32 PM	RL-CI-005 REVISION 0
SC			BlackCL	CalcC	7/24/2008 6:24:27 AM	RL-CI-005 REVISION 0
SC			nortonj	Rev1C	7/28/2008 10:54:01 AM	RICH-RC-0002 REV 8
AC			**HarrisD**	7/14/2008 5:34:32 PM		
AC			**Barcotl**	7/23/2008 12:27:33		
AC			**Barcotl**	7/23/2008 12:27:43		
AC			**ClarkR**	7/23/2008 2:11:32 PM		
AC			**BlackCL**	7/24/2008 6:24:27		
AC			**nortonj**	7/28/2008 10:54:01		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 7

ICOCFractions v4.8.33

ENTERED 7/8/08 SKS

TESTAMERICA

6/27/2008 8:16:09 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 08/08/2008 WD5427

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
IZ COLIFORM BY METHOD 9223
5I CLIENT: HANFORD

Batch: 8178545 WATER
SEQ Batch, Test: None

PM, Quote: SS , 57671

Balance Id: N/A
Pipet #:
Sep1 DT/Tm Tech: 6-23-08 RW
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KQGM9-1-AA								
J8F240171-1-SAMP								
06/23/2008 13:19		AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
2 KQGM9-1-AC-X								
J8F240171-1-DUP								
06/23/2008 13:19		AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
3 KQNXX-1-AA-B								
J8F260000-545-BLK								
06/23/2008 13:19		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
4 KQNXX-1-AC-C								
J8F260000-545-LCS								
06/23/2008 13:19		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

KQGM91AA-SAMP Constituent List:

KQNXX1AA-BLK:

KQNXX1AC-LCS:

KQGM91AA-SAMP Calc Info:

TESTAMERICA

6/27/2008 8:16:09 AM

Sample Preparation/Analysis

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
IZ COLIFORM BY METHOD 9223
5I CLIENT: HANFORD

Balance Id: N/A
Pipet #:
Sep1 DT/Tm Tech: 6-23 08am
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 08/08/2008

Batch: 8178545
SEQ Batch, Test: None

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

```
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
KQNXX1AA-BLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
KQNXX1AC-LCS:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

103

TESTAMERICA

6/23/2008 9:13:24 AM

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

AnalyDueDate: 08/04/2008

Sample Preparation/Analysis

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

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

Batch: 8175218 WATER mg/L PM, Quote: SS , 57671
SEQ Batch, Test: None All Tests: 8175218 88EA,

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KQC3N-1-AA J8F200311-1-SAMP 06/20/2008 12:06		AmtRec: 20ML,500G	#Containers: 2			Scr:	Alpha:	Beta:
2 KQC3N-1-AC-S J8F200311-1-MS 06/20/2008 12:06		AmtRec: 20ML,500G	#Containers: 2			Scr:	Alpha:	Beta:
3 KQC3N-1-AD-D J8F200311-1-MSD 06/20/2008 12:06		AmtRec: 20ML,500G	#Containers: 2			Scr:	Alpha:	Beta:
4 KQC3N-1-AE-X J8F200311-1-DUP 06/20/2008 12:06		AmtRec: 20ML,500G	#Containers: 2			Scr:	Alpha:	Beta:
5 KQEQJ-1-AA-B J8F230000-218-BLK 06/20/2008 12:06		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 KQEQJ-1-AC-C J8F230000-218-LCS 06/20/2008 12:06		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

TAL Richland Key In Initial Amt. fi - Final Amt di - Diluted Amt. s1 - Sep1. s2 - Sep2 Page 1 ISV - Insufficient Volume for Analysis WO Cnt: 6
Richland Wa. pd Prep Dt. r - Reference Dt. ec-Enrichment Cell, ct-Cocktailed Added ICOC v4 8 32

TESTAMERICA

6/23/2008 9:13:25 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 08/04/2008

Batch: 8175218 mg/L
SEQ Batch, Test: None

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

Comments:

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

KQC3N1AA-SAMP Constituent List:
HEXCHROME RDL:0.002 mg/L LCL:85 UCL:115 RPD:20
KQC3N1AC-MS Constituent List:

KQC3N1AD-MSD:

KQEQJ1AA-BLK:

KQEQJ1AC-LCS:

KQC3N1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KQC3N1AC-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KQC3N1AD-MSD:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KQEQJ1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KQEQJ1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By Date: