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JUL 28 2008
EDMC

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: 39334

RECEIVED JUNE 19, 2008

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05380	S08-003	B1TKL0	J8D230169-1	KLTNL1AA	9KLTNL10	8122260
		B1TKL0	J8D230169-1	KLTNL1AD	9KLTNL10	8156360
		B1TKL0	J8D230169-1	KLTNL2AC	9KLTNL20	8154223
		B1TKK6	J8D230169-2	KLTN01AA	9KLTN010	8122260
		B1TKK6	J8D230169-2	KLTN01AD	9KLTN010	8156360
		B1TKK6	J8D230169-2	KLTN02AC	9KLTN020	8154223
		B1TKK7	J8D230169-3	KLTN61AA	9KLTN610	8122264
		B1TKK7	J8D230169-3	KLTN61AC	9KLTN610	8122262
		B1TKK8	J8D230169-4	KLTPE1AA	9KLTPE10	8122264
		B1TKK8	J8D230169-4	KLTPE1AC	9KLTPE10	8122262
	W08-002	B1T5H2	J8D230178-1	KLTRA1AA	9KLTRA10	8122174
		B1T5H2	J8D230178-1	KLTRA1AE	9KLTRA10	8156360
	S08-004	B1TWT1	J8D230182-1	KLTTJ1AA	9KLTTJ10	8122260
		B1TWT1	J8D230182-1	KLTTJ1AF	9KLTTJ10	8156360
		B1TWT1	J8D230182-1	KLTTJ2AC	9KLTTJ20	8154223

Comments:

0078516

Report Nbr: 39334

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05380	S08-004	B1TWC9	J8D230182-2	KLTT61AA	9KLTT610	8122260
		B1TWC9	J8D230182-2	KLTT61AD	9KLTT610	8122174
		B1TWC9	J8D230182-2	KLTT61AG	9KLTT610	8156360
		B1TWC9	J8D230182-2	KLTT62AC	9KLTT620	8154223
		B1TWH6	J8D230182-3	KLTVF1AA	9KLTVF10	8122260
		B1TWH6	J8D230182-3	KLTVF1AD	9KLTVF10	8156360
		B1TWH6	J8D230182-3	KLTVF2AC	9KLTVF20	8154223
		B1TW98	J8D230182-4	KLTVM1AA	9KLTVM10	8122174
		B1TW98	J8D230182-4	KLTVM1AC	9KLTVM10	8156360
		B1TW94	J8D230182-5	KLTVN1AA	9KLTVN10	8122174
		B1TW94	J8D230182-5	KLTVN1AC	9KLTVN10	8156360
		B1TWT3	J8D230182-6	KLTVQ1AA	9KLTVQ10	8122264
		B1TWT3	J8D230182-6	KLTVQ1AC	9KLTVQ10	8122262
	I08-032	B1V219	J8D230346-1	KLV331AA	9KLV3310	8122267
		B1V219	J8D230346-1	KLV331AC	9KLV3310	8122265
		B1V219	J8D230346-1	KLV331AD	9KLV3310	8122262
		B1V219	J8D230346-1	KLV331AE	9KLV3310	8122174
		B1V223	J8D230346-2	KLV4N1AA	9KLV4N10	8122267
		B1V223	J8D230346-2	KLV4N1AC	9KLV4N10	8122265
		B1V223	J8D230346-2	KLV4N1AD	9KLV4N10	8122262
		B1V223	J8D230346-2	KLV4N1AE	9KLV4N10	8122174
		B1V227	J8D230346-3	KLV4W1AA	9KLV4W10	8122267
		B1V227	J8D230346-3	KLV4W1AC	9KLV4W10	8122265
		B1V227	J8D230346-3	KLV4W1AD	9KLV4W10	8122262
		B1V227	J8D230346-3	KLV4W1AE	9KLV4W10	8122174
		B1V235	J8D230346-4	KLV411AA	9KLV4110	8122267

Comments:

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SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05380	I08-032	B1V235	J8D230346-4	KLV411AC	9KLV4110	8122265
		B1V235	J8D230346-4	KLV411AD	9KLV4110	8122262
		B1V235	J8D230346-4	KLV411AE	9KLV4110	8122174
	I08-036	B1V618	J8D240147-1	KLW891AA	9KLW8910	8122267
		B1V618	J8D240147-1	KLW891AC	9KLW8910	8122265
		B1V618	J8D240147-1	KLW891AD	9KLW8910	8122262
		B1V618	J8D240147-1	KLW891AE	9KLW8910	8122174
		B1V621	J8D240147-2	KLW9G1AA	9KLW9G10	8122267
		B1V621	J8D240147-2	KLW9G1AC	9KLW9G10	8122265
		B1V621	J8D240147-2	KLW9G1AD	9KLW9G10	8122262
		B1V621	J8D240147-2	KLW9G1AE	9KLW9G10	8122174
		B1V624	J8D240147-3	KLW9H1AA	9KLW9H10	8122267
		B1V624	J8D240147-3	KLW9H1AC	9KLW9H10	8122265
		B1V624	J8D240147-3	KLW9H1AD	9KLW9H10	8122262
		B1V624	J8D240147-3	KLW9H1AE	9KLW9H10	8122174
		B1V627	J8D240147-4	KLW9M1AA	9KLW9M10	8122267
		B1V627	J8D240147-4	KLW9M1AC	9KLW9M10	8122265
		B1V627	J8D240147-4	KLW9M1AD	9KLW9M10	8122262
		B1V627	J8D240147-4	KLW9M1AE	9KLW9M10	8122174
	I08-033	B1V4P9	J8D240360-1	KL0531AA	9KL05310	8122267
		B1V4P9	J8D240360-1	KL0531AC	9KL05310	8122264
		B1V4P9	J8D240360-1	KL0531AD	9KL05310	8122174

Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

June 18, 2008

Attention: Steve Trent

SAF Number	:	S08-003, W08-002, S08-004, I08-032, I08-036, I08-033
Date SDG Closed	:	April 24, 2008
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05380
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between April 22, 2008 and April 24, 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
B1TKL0	KLTNL	4/22/08	WATER
B1TKK6	KLTN0	4/22/08	WATER
B1TKK7	KLTN6	4/22/08	WATER
B1TKK8	KLTPE	4/22/08	WATER
B1T5H2	KLTRA	4/22/08	WATER
B1TWT1	KLTTJ	4/22/08	WATER
B1TWC9	KLTT6	4/22/08	WATER
B1TWH6	KLTVF	4/22/08	WATER
B1TW98	KLTVM	4/22/08	WATER
B1TW94	KLTVN	4/22/08	WATER
B1VWT3	KLTVQ	4/22/08	WATER
B1V219	KLV33	4/23/08	WATER
B1V223	KLV4N	4/23/08	WATER
B1V227	KLV4W	4/23/08	WATER

B1V235	KLV41	4/23/08	WATER
B1V618	KLW89	4/23/08	WATER
B1V621	KLW9G	4/23/08	WATER
B1V624	KLW9H	4/23/08	WATER
B1V627	KLW9M	4/23/08	WATER
B1V4P9	KL053	4/24/08	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
Iodine-129 (LL) by method RICH-RC-5025
Liquid Scintillation Counting
Technetium-99 by TEVA method RICH-RC-5065
Tritium by method RICH-RC-5007
Carbon-14 by method RICH-RC-5022

IV. Quality Control

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

QC and sample results are reported in the same units.

V. Comments

Gas Proportional Counting
Gross Alpha by method RICH-RC-5014:
Samples B1TWC9, B1TWT1, B1TWH6 and B1TWT1 DUP were analyzed with reduced aliquots based on weight screens. Except as noted, the LCS, batch blank, samples and sample duplicate (B1TWT1) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:
The LCS yield recovery was low; the entire batch was reanalyzed with acceptable results. Samples B1TKK6, B1TWT1 and B1TWH6 were analyzed with reduced aliquots based on weight screens. The CRDL was not met on B1TKK6, B1TWT1 and B1TWH6; however the activity detected in the samples was greater than the IDC. Data is accepted. Except as noted, the LCS, batch blank, samples and sample duplicate (B1TWC9) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006
The LCS, batch blank, samples and sample duplicate (B1TKK7) results are within contractual requirements.

Gamma Spectroscopy
Iodine-129 (LL) by method RICH-RC-5025:
The LCS, batch blank, samples and sample duplicate (B1V4P9) results are within contractual requirements.

Liquid Scintillation Counting
Technetium-99 by TEVA method RICH-RC-5065:
The LCS, batch blank, samples, sample duplicate (B1T5H2), and sample matrix spike (B1V219) results are within contractual requirements.

Tritium by method RICH-RC-5007:

Batch 8122267
The LCS, batch blank, samples and sample duplicate (B1V219) results are within contractual requirements.

Batch 8156360
Samples B1TKL0, B1TKK6, B1T5H2, B1TWT1, B1TWC9, B1TWH6, B1TW98 & B1TW94 were to be sent to another laboratory. However these samples were shipped to TestAmerica due to equipment failure at the other laboratory.

The method listed on the COCs was TRITIUM_EIE_LCS: Tritium (1). On April 23, 2008 TestAmerica emailed the client regarding the method to be analyzed. The client informed TestAmerica to analyze the samples for enriched tritium.

On June 2, 2008 TestAmerica sent IRF W05380. The proposed resolution was to report W05380 without the enriched tritium. It was at this time the client realized that the samples should have been analyzed by the 906.0_H3_LSC method.

One June 4, 2008 TestAmerica was instructed by the client to analyze samples B1TKL0, B1TKK6, B1T5H2, B1TWT1, B1TWC9, B1TWH6, B1TW98 & B1TW94 by the 906.0_H3_LSC method instead of the enriched tritium method. During the weekly phone call on June 4, 2008 TestAmerica was given a two week extension to the due date in order to process the samples discussed above and report all the samples results under one cover. The extended due date is June 23, 2008.

The LCS, batch blank, samples and sample duplicate (B1TKL0) results are within contractual requirements.

Carbon-14 by method RICH-RC-5022:
The LCS, batch blank, samples and sample duplicate (B1V219) results are within contractual requirements.

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

Reviewed and approved:

for 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.

6/18/2008 3:04:08 PM

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 39334 File Name: h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.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:
9KL05310	B1V4P9		MW6-SBB-A1	I08-033	W05380					04/24/2008 10:23

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8122267	H-3	10028-17-8	5.32E+03	pCi/L	2.4E+02	3.3E+02		2.60E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/10/2008 13:01	I
8122264	I-129L	15046-84-1	1.31E+00	pCi/L	3.7E-01	3.7E-01	U	5.49E-01	95.4	I129LL_SEP_LEPS	3.8717E+00	L	06/04/2008 16:14	I
8122174	TC-99	14133-76-7	6.49E+03	pCi/L	4.4E+01	3.9E+02		9.92E+00	100.0	TC99_ETVDSK_LS	1.2502E-01	L	05/17/2008 12:50	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:
9KLTN010	B1TKK6		MW6-SBB-A1	S08-003	W05380					04/22/2008 09:39

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8156360	H-3	10028-17-8	6.63E+04	pCi/L	8.4E+02	2.6E+03		3.01E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/05/2008 22:11	I
8122260	ALPHA	12587-46-1	7.67E+00	pCi/L	2.8E+00	3.2E+00		2.74E+00	100.0	9310_ALPHABETA	2.00E-01	L	05/29/2008 19:59	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:
9KLTN020	B1TKK6		MW6-SBB-A1	S08-003	W05380					04/22/2008 09:39

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8154223	BETA	12587-47-2	1.08E+01	pCi/L	3.2E+00	3.5E+00		5.37E+00	100.0	9310_ALPHABETA	1.054E-01	L	06/03/2008 15:54	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:
9KLTN610	B1TKK7		MW6-SBB-A1	S08-003	W05380					04/22/2008 09:39

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8122264	I-129L	15046-84-1	1.02E+00	pCi/L	2.9E-01	2.9E-01	U	5.22E-01	97.0	I129LL_SEP_LEPS	3.8523E+00	L	06/04/2008 14:29	I
8122262	SR-90	10098-97-2	3.97E-01	pCi/L	3.1E-01	3.1E-01	U	6.17E-01	81.2	SRISO_SEP_PRE	1.0015E+00	L	05/23/2008 05:45	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KLTNL10	B1TKL0		MW6-SBB-A1	S08-003	W05380					04/22/2008 07:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8156360	H-3	10028-17-8	3.02E+01	pCi/L	1.3E+02	1.4E+02	U	3.11E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/05/2008 23:34	I
8122260	ALPHA	12587-46-1	4.19E-01	pCi/L	5.5E-01	5.6E-01	U	1.06E+00	100.0	9310_ALPHABETA	2.00E-01	L	05/29/2008 19:59	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:
9KLTNL20	B1TKL0		MW6-SBB-A1	S08-003	W05380					04/22/2008 07:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8154223	BETA	12587-47-2	1.25E+00	pCi/L	1.8E+00	1.8E+00	U	3.77E+00	100.0	9310_ALPHABETA	1.166E-01	L	06/03/2008 15:54	I

TestAmerica

rptFeadRadSummaryEdd v3.48

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

6/18/2008 3:04:08 PM

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 39334 File Name: h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.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:
9KLTPE10	B1TKK8		MW6-SBB-A1	S08-003	W05380					04/22/2008 07:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8122264	I-129L	15046-84-1	1.44E-01	pCi/L	1.5E-01	1.5E-01	U	2.99E-01	97.6	I129LL_SEP_LEPS	3.8665E+00	L	06/04/2008 14:30	I
8122262	SR-90	10098-97-2	-1.87E-01	pCi/L	2.7E-01	2.7E-01	U	6.21E-01	77.5	SRISO_SEP_PRE	1.0001E+00	L	05/23/2008 05:45	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KLTRA10	B1T5H2		MW6-SBB-A1	W08-002	W05380					04/22/2008 09:04

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8156360	H-3	10028-17-8	1.02E+03	pCi/L	1.6E+02	1.8E+02		3.01E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/06/2008 02:18	I
8122174	TC-99	14133-76-7	6.24E+01	pCi/L	5.9E+00	9.2E+00		9.94E+00	100.0	TC99_ETVDSK_LS	1.2501E-01	L	05/16/2008 21:11	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KLTT610	B1TWC9		MW6-SBB-A1	S08-004	W05380					04/21/2008 09:55

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8156360	H-3	10028-17-8	5.26E+03	pCi/L	2.6E+02	3.5E+02		3.01E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/06/2008 03:40	I
8122260	ALPHA	12587-46-1	1.26E+00	pCi/L	9.3E-01	9.8E-01	U	1.53E+00	100.0	9310_ALPHABETA	1.515E-01	L	05/29/2008 20:24	I
8122174	TC-99	14133-76-7	3.48E+01	pCi/L	5.2E+00	7.6E+00		9.94E+00	100.0	TC99_ETVDSK_LS	1.2502E-01	L	05/16/2008 23:16	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:
9KLTT620	B1TWC9		MW6-SBB-A1	S08-004	W05380					04/21/2008 09:55

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8154223	BETA	12587-47-2	1.12E+01	pCi/L	2.0E+00	2.5E+00		2.76E+00	100.0	9310_ALPHABETA	2.005E-01	L	06/03/2008 17:50	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:
9KLTTJ10	B1TWT1		MW6-SBB-A1	S08-004	W05380					04/22/2008 11:03

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8156360	H-3	10028-17-8	1.88E+03	pCi/L	1.9E+02	2.2E+02		3.02E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/06/2008 05:02	I
8122260	ALPHA	12587-46-1	1.88E+00	pCi/L	1.2E+00	1.3E+00	U	1.98E+00	100.0	9310_ALPHABETA	9.99E-02	L	05/29/2008 20:24	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:
9KLTTJ20	B1TWT1		MW6-SBB-A1	S08-004	W05380					04/22/2008 11:03

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

6/18/2008 3:04:08 PM

TestAmerica Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 39334 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8154223	BETA	12587-47-2	5.30E+00	pCi/L	2.6E+00	2.6E+00		4.81E+00	100.0	9310_ALPHABETA	1.125E-01	L	06/03/2008 17:50	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:
9KLTVF10	B1TWH6		MW6-SBB-A1	S08-004	W05380					04/21/2008 09:04

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8156360	H-3	10028-17-8	5.69E+02	pCi/L	1.4E+02	1.6E+02		3.01E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/06/2008 06:24	I
8122260	ALPHA	12587-46-1	2.13E+00	pCi/L	1.5E+00	1.6E+00	U	2.33E+00	100.0	9310_ALPHABETA	1.724E-01	L	05/29/2008 19:59	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:
9KLTVF20	B1TWH6		MW6-SBB-A1	S08-004	W05380					04/21/2008 09:04

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8154223	BETA	12587-47-2	6.79E+01	pCi/L	5.4E+00	1.1E+01		5.13E+00	100.0	9310_ALPHABETA	1.168E-01	L	06/03/2008 17:50	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:
9KLTVM10	B1TW98		MW6-SBB-A1	S08-004	W05380					04/21/2008 11:57

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8156360	H-3	10028-17-8	3.69E+04	pCi/L	6.3E+02	1.5E+03		3.01E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/06/2008 07:46	I
8122174	TC-99	14133-76-7	1.14E+01	pCi/L	4.5E+00	6.2E+00		9.93E+00	100.0	TC99_ETVDSK_LS	1.2502E-01	L	05/17/2008 00:19	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:
9KLTVN10	B1TW94		MW6-SBB-A1	S08-004	W05380					04/21/2008 11:17

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8156360	H-3	10028-17-8	3.56E+04	pCi/L	6.2E+02	1.5E+03		3.01E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/06/2008 09:07	I
8122174	TC-99	14133-76-7	6.38E+00	pCi/L	4.3E+00	5.9E+00	U	9.80E+00	100.0	TC99_ETVDSK_LS	1.2501E-01	L	05/17/2008 01:22	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:
9KLTVQ10	B1TWT3		MW6-SBB-A1	S08-004	W05380					04/21/2008 11:03

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8122264	I-129L	15046-84-1	1.46E+00	pCi/L	3.6E-01	3.6E-01	U	6.25E-01	91.9	I129LL_SEP_LEPS	3.8473E+00	L	06/04/2008 14:30	I
8122262	SR-90	10098-97-2	2.01E-01	pCi/L	3.0E-01	3.0E-01	U	6.18E-01	74.0	SRISO_SEP_PRE	1.0009E+00	L	05/23/2008 05:45	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KLV3310	B1V219		MW6-SBB-A1	I08-032	W05380					04/23/2008 11:16

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.

6/18/2008 3:04:08 PM

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 39334 File Name: h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8122267	H-3	10028-17-8	1.38E+01	pCi/L	1.1E+02	1.2E+02	U	2.57E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/09/2008 20:38	I
8122265	C-14	14762-75-5	1.06E+00	pCi/L	3.5E+00	4.3E+00	U	8.48E+00	100.0	C14_LSC	2.00E-01	L	05/30/2008 23:21	I
8122262	SR-90	10098-97-2	3.34E-01	pCi/L	3.7E-01	3.7E-01	U	7.48E-01	78.7	SRISO_SEP_PRE	1.0006E+00	L	05/23/2008 05:45	I
8122174	TC-99	14133-76-7	-2.62E-01	pCi/L	4.1E+00	5.5E+00	U	9.91E+00	100.0	TC99_ETVDSK_LS	1.2502E-01	L	05/17/2008 02:24	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:
9KLV4110	B1V235		MW6-SBB-A1	I08-032	W05380					04/23/2008 09:01

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8122267	H-3	10028-17-8	5.46E+01	pCi/L	1.1E+02	1.2E+02	U	2.59E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/10/2008 02:05	I
8122265	C-14	14762-75-5	-3.81E+00	pCi/L	3.4E+00	4.1E+00	U	8.48E+00	100.0	C14_LSC	2.00E-01	L	05/31/2008 02:12	I
8122262	SR-90	10098-97-2	1.45E-01	pCi/L	2.6E-01	2.6E-01	U	5.52E-01	73.0	SRISO_SEP_PRE	1.0084E+00	L	05/23/2008 05:45	I
8122174	TC-99	14133-76-7	1.37E+00	pCi/L	4.1E+00	5.6E+00	U	9.87E+00	100.0	TC99_ETVDSK_LS	1.25E-01	L	05/17/2008 06:35	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KLV4N10	B1V223		MW6-SBB-A1	I08-032	W05380					04/23/2008 10:26

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8122267	H-3	10028-17-8	5.20E+03	pCi/L	2.4E+02	3.3E+02		2.59E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/09/2008 23:21	I
8122265	C-14	14762-75-5	1.82E+01	pCi/L	4.1E+00	4.9E+00		8.48E+00	100.0	C14_LSC	2.00E-01	L	05/31/2008 00:46	I
8122262	SR-90	10098-97-2	1.20E-01	pCi/L	2.2E-01	2.3E-01	U	4.95E-01	74.9	SRISO_SEP_PRE	1.0002E+00	L	05/23/2008 05:45	I
8122174	TC-99	14133-76-7	1.89E+00	pCi/L	4.2E+00	5.6E+00	U	9.88E+00	100.0	TC99_ETVDSK_LS	1.25E-01	L	05/17/2008 04:29	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KLV4W10	B1V227		MW6-SBB-A1	I08-032	W05380					04/23/2008 09:46

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8122267	H-3	10028-17-8	3.54E+03	pCi/L	2.1E+02	2.6E+02		2.59E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/10/2008 00:43	I
8122265	C-14	14762-75-5	6.92E+00	pCi/L	3.7E+00	4.5E+00	U	8.48E+00	100.0	C14_LSC	2.00E-01	L	05/31/2008 01:29	I
8122262	SR-90	10098-97-2	1.90E-01	pCi/L	2.3E-01	2.6E-01	U	5.34E-01	74.4	SRISO_SEP_PRE	1.00E+00	L	05/23/2008 05:45	I
8122174	TC-99	14133-76-7	2.85E+00	pCi/L	4.2E+00	5.7E+00	U	9.92E+00	100.0	TC99_ETVDSK_LS	1.25E-01	L	05/17/2008 05:32	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:
9KLW8910	B1V618		MW6-SBB-A1	I08-036	W05380					04/23/2008 12:10

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8122267	H-3	10028-17-8	2.86E+05	pCi/L	1.6E+03	1.1E+04		2.58E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/10/2008 03:27	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.

8122265	C-14	14762-75-5	1.50E+02	pCi/L	7.0E+00	9.8E+00		8.48E+00	100.0	C14_LSC	2.00E-01	L	05/31/2008	02:54	I
8122262	SR-90	10098-97-2	7.70E+00	pCi/L	5.9E-01	1.3E+00		5.18E-01	79.9	SRISO_SEP_PRE	1.0004E+00	L	05/23/2008	05:45	I
8122174	TC-99	14133-76-7	-1.48E+00	pCi/L	4.0E+00	5.5E+00	U	9.93E+00	100.0	TC99_ETVDSK_LS	1.2502E-01	L	05/17/2008	07:37	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KLW9G10	B1V621		MW6-SBB-A1	I08-036	W05380					04/23/2008 11:10

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8122267	H-3	10028-17-8	5.97E+03	pCi/L	2.5E+02	3.6E+02		2.57E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/10/2008 04:49	I
8122265	C-14	14762-75-5	9.08E+00	pCi/L	3.8E+00	4.6E+00		8.48E+00	100.0	C14_LSC	2.00E-01	L	05/31/2008 03:37	I
8122262	SR-90	10098-97-2	2.17E-01	pCi/L	3.2E-01	3.5E-01	U	7.29E-01	67.7	SRISO_SEP_PRE	1.0002E+00	L	05/23/2008 05:45	I
8122174	TC-99	14133-76-7	-2.74E+00	pCi/L	4.0E+00	5.4E+00	U	9.91E+00	100.0	TC99_ETVDSK_LS	1.2501E-01	L	05/17/2008 09:42	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KLW9H10	B1V624		MW6-SBB-A1	I08-036	W05380					04/23/2008 09:50

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8122267	H-3	10028-17-8	3.06E+03	pCi/L	1.9E+02	2.5E+02		2.59E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/10/2008 06:11	I
8122265	C-14	14762-75-5	8.46E+00	pCi/L	3.8E+00	4.6E+00	U	8.48E+00	100.0	C14_LSC	2.00E-01	L	05/31/2008 04:20	I
8122262	SR-90	10098-97-2	1.99E-01	pCi/L	3.4E-01	3.4E-01	U	7.19E-01	78.1	SRISO_SEP_PRE	1.0019E+00	L	05/23/2008 05:45	I
8122174	TC-99	14133-76-7	2.04E+00	pCi/L	4.1E+00	5.7E+00	U	9.80E+00	100.0	TC99_ETVDSK_LS	1.2503E-01	L	05/17/2008 10:45	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KLW9M10	B1V627		MW6-SBB-A1	I08-036	W05380					04/23/2008 13:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8122267	H-3	10028-17-8	7.15E+01	pCi/L	1.1E+02	1.2E+02	U	2.59E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/10/2008 07:32	I
8122265	C-14	14762-75-5	1.49E+00	pCi/L	3.6E+00	4.3E+00	U	8.48E+00	100.0	C14_LSC	2.00E-01	L	05/31/2008 05:02	I
8122262	SR-90	10098-97-2	2.01E+01	pCi/L	9.9E-01	3.1E+00		6.24E-01	69.4	SRISO_SEP_PRE	1.0006E+00	L	05/23/2008 05:45	I
8122174	TC-99	14133-76-7	2.45E-01	pCi/L	4.1E+00	5.5E+00	U	9.90E+00	100.0	TC99_ETVDSK_LS	1.2503E-01	L	05/17/2008 11:48	I

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

Wednesday, June 18, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Lab Sample Id:	KMC8P1AB	**Sdg/Rept Nbr:**	W05380 39334	**Collection Date:**	04/22/2008 09:04
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	04/22/2008

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
8122174	TC-99	4.62E-01	pCi/L	5.6E+00	U	9.94E+00	100.0		TC99_ETVDSK	1.2501E-01	05/17/2008				D
BLK	14133-76-7			4.1E+00						L	13:53				

TestAmerica

rptFeadRadEdd v3.68

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

1

Wednesday, June 18, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Lab Sample Id:	KMDJ31AB	**Sdg/Rept Nbr:**	W05380	39334	**Collection Date:** 04/23/2008 11:16
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 04/23/2008

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
8122265	C-14	-1.72E+00	pCi/L	4.2E+00	U	8.48E+00	100.0		C14_LSC	2.00E-01	05/30/2008				D
BLK	14762-75-5			3.4E+00						L	21:56				

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

Wednesday, June 18, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Lab Sample Id:	KMDJE1AB	**Sdg/Rept Nbr:**	W05380 39334	**Collection Date:**	04/22/2008 11:03
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	04/22/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8122260	ALPHA	4.18E-02	pCi/L	2.8E-01	U	6.96E-01	100.0		9310_ALPHAB	2.003E-01	05/29/2008				D
BLK	12587-46-1			2.8E-01						L	20:24				

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

Wednesday, June 18, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Lab Sample Id:	KMDJM1AB	**Sdg/Rept Nbr:**	W05380	39334	**Collection Date:** 04/22/2008 09:39
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 04/22/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8122262	SR-90	5.41E-01	pCi/L	4.2E-01	U	8.15E-01	67.3		SRISO_SEP_P	1.0024E+00	05/23/2008				D
BLK	10098-97-2			4.1E-01						L	05:45				

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

Wednesday, June 18, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Lab Sample Id:	KMDJT1AB	**Sdg/Rept Nbr:**	W05380 39334	**Collection Date:**	04/24/2008 10:23
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	04/24/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8122264	I-129L	-1.33E-01	pCi/L	9.6E-02	U	1.32E-01	95.4		I129LL_SEP_L	4.00E+00	06/04/2008				D
BLK	15046-84-1			9.6E-02						L	16:15				

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

Wednesday, June 18, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Lab Sample Id: KMDKA1AB **Sdg/Rept Nbr:** W05380 39334 **Collection Date:** 04/23/2008 11:16

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 04/23/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8122267	H-3	-3.52E+01	pCi/L	1.2E+02	U	2.57E+02	100.0		906.0_H3_LSC	5.00E-03	05/09/2008				D
BLK	10028-17-8			1.0E+02						L	17:54				

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

Wednesday, June 18, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Lab Sample Id:	KMDKA1DX	**Sdg/Rept Nbr:**	W05380	39334	**Collection Date:** 04/23/2008 11:16
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 04/23/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8122267	H-3	1.17E+02	pCi/L	1.3E+02	U	2.94E+02	100.0		906.0_H3_LSC	5.00E-03	05/10/2008				D
BLK	10028-17-8			1.2E+02						L	10:17				

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

Wednesday, June 18, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Lab Sample Id:	KN7QD1AB	**Sdg/Rept Nbr:**	W05380 39334	**Collection Date:**	04/22/2008 07:30
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	04/22/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BW	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
8154223	BETA	2.08E+00	pCi/L	1.3E+00	U	2.48E+00	100.0		9310_ALPHAB	2.003E-01	06/03/2008				D
BLK	12587-47-2			1.3E+00						L	17:50				

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

Wednesday, June 18, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Lab Sample Id:	KPDAF1AB	**Sdg/Rept Nbr:**	W05380 39334	**Collection Date:**	04/22/2008 07:30
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	04/22/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8156360	H-3	2.64E+01	pCi/L	1.4E+02	U	3.00E+02	100.0		906.0_H3_LSC	5.00E-03	06/05/2008				D
BLK	10028-17-8			1.2E+02						L	19:28				

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

Wednesday, June 18, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Lab Sample Id:	KPDAF1DX	**Sdg/Rept Nbr:**	W05380 39334	**Collection Date:**	04/22/2008 07:30
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	04/22/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CA	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
8156360	H-3	9.78E+01	pCi/L	1.4E+02	U	3.12E+02	100.0		906.0_H3_LSC	5.00E-03	06/06/2008				D
BLK	10028-17-8			1.3E+02						L	11:51				

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

Wednesday, June 18, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Lab Sample Id:	KMC8P1CS	**Sdg/Rept Nbr:**	W05380	39334	**Collection Date:** 04/22/2008 09:04
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 04/22/2008

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
8122174	TC-99	5.46E+02	pCi/L	3.8E+01		9.94E+00	100.0	5.49E+02	TC99_ETVDSK	1.2503E-01	05/17/2008			70	D
BS	14133-76-7			1.3E+01				99.3		L	14:56			130	

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

Wednesday, June 18, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Lab Sample Id: KMDJ31CS **Sdg/Rept Nbr:** W05380 39334 **Collection Date:** 04/23/2008 11:16

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 04/23/2008

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
8122265	C-14	4.24E+01	pCi/L	5.8E+00		8.48E+00	100.0	4.52E+01	C14_LSC	2.00E-01	05/30/2008			70	D
BS	14762-75-5			4.8E+00				93.8		L	22:39			130	

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

Wednesday, June 18, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Lab Sample Id:	KMDJE1CS	**Sdg/Rept Nbr:**	W05380	39334	**Collection Date:**	04/22/2008 11:03
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:**	04/22/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8122260	ALPHA	1.96E+01	pCi/L	4.6E+00		9.78E-01	100.0	2.26E+01	9310_ALPHAB	2.002E-01	05/30/2008			70	D
BS	12587-46-1			2.1E+00				86.7		L	08:22			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.

Wednesday, June 18, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Lab Sample Id:	KMDJM1CS	**Sdg/Rept Nbr:**	W05380	39334	**Collection Date:**	04/22/2008 09:39
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:**	04/22/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8122262	SR-90	1.51E+01	pCi/L	2.3E+00		4.20E-01	73.4	1.37E+01	SRISO_SEP_P	1.0018E+00	05/23/2008			70	D
BS	10098-97-2			8.0E-01				110.1		L	05:45			130	

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

Wednesday, June 18, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Lab Sample Id: KMDJT1CS **Sdg/Rept Nbr:** W05380 39334 **Collection Date:** 04/24/2008 10:23

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 04/24/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BR	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
8122264	I-129L	1.02E+01	pCi/L	1.3E+00		3.46E-01	96.4	9.53E+00	I129LL_SEP_L	4.00E+00	06/04/2008			70	D
BS	15046-84-1			1.3E+00				107.5		L	18:01			130	

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

Wednesday, June 18, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Lab Sample Id: KMDKA1CS **Sdg/Rept Nbr:** W05380 39334 **Collection Date:** 04/23/2008 11:16

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 04/23/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BT	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
8122267	H-3	2.38E+03	pCi/L	2.2E+02		2.57E+02	100.0	2.71E+03	906.0_H3_LSC	5.00E-03	05/09/2008			70	D
BS	10028-17-8			1.8E+02				87.7		L	19:16			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.

Wednesday, June 18, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Lab Sample Id: KMDKA1EM **Sdg/Rept Nbr:** W05380 39334 **Collection Date:** 04/23/2008 11:16

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 04/23/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8122267	H-3	2.30E+03	pCi/L	2.2E+02		2.76E+02	100.0	2.71E+03	906.0_H3_LSC	5.00E-03	05/10/2008			70	D
BS	10028-17-8			1.8E+02				84.8		L	11:39			130	

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

Wednesday, June 18, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Lab Sample Id:	KN7QD1CS	**Sdg/Rept Nbr:**	W05380	39334	**Collection Date:** 04/22/2008 07:30
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 04/22/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8154223	BETA	1.98E+01	pCi/L	3.4E+00		2.50E+00	100.0	2.24E+01	9310_ALPHAB	2.002E-01	06/03/2008			70	D
BS	12587-47-2			2.2E+00				88.3		L	17:50			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.

Wednesday, June 18, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Lab Sample Id:	KPDAF1CS	**Sdg/Rept Nbr:**	W05380 39334	**Collection Date:**	04/22/2008 07:30
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	04/22/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8156360	H-3	2.77E+03	pCi/L	2.6E+02		3.01E+02	100.0	2.72E+03	906.0_H3_LSC	5.00E-03	06/05/2008			70	D
BS	10028-17-8			2.1E+02				101.9		L	20:49			130	

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

Wednesday, June 18, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Lab Sample Id:	KPDAF1EM	**Sdg/Rept Nbr:**	W05380	39334	**Collection Date:** 04/22/2008 07:30
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 04/22/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CB	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
8156360	H-3	2.50E+03	pCi/L	2.5E+02		3.10E+02	100.0	2.72E+03	906.0_H3_LSC	5.00E-03	06/06/2008			70	D
BS	10028-17-8			2.1E+02				92.0		L	13:13			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.

Wednesday, June 18, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Lab Sample Id:	KL0531ER	**Sdg/Rept Nbr:**	W05380	39334	**Collection Date:**	04/24/2008 10:23
Client Id:	B1V4P9	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:**	04/24/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I08-033	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
8122264	I-129L	1.07E+00	pCi/L	3.5E-01	U	5.68E-01	93.2		I129LL_SEP_L	3.8534E+00	06/04/2008	20.1	1.		D
DUP	15046-84-1	1.31E+00		3.5E-01						L	16:15	20.0	3		

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

Wednesday, June 18, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Lab Sample Id:	KLTN61DR	**Sdg/Rept Nbr:**	W05380 39334	**Collection Date:**	04/22/2008 09:39
Client Id:	B1TKK7	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	04/22/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-003	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
8122262	SR-90	-1.87E-01	pCi/L	4.4E-01	U	9.46E-01	71.9		SRISO_SEP_P	1.0026E+00	05/23/2008	555.5	1.9		D
DUP	10098-97-2	3.97E-01		3.7E-01						L	05:45	20.0	3		

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

Wednesday, June 18, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Lab Sample Id:	KLTNL1ER	**Sdg/Rept Nbr:**	W05380 39334	**Collection Date:**	04/22/2008 07:30
Client Id:	B1TKL0	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	04/22/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-003	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
8156360	H-3	5.57E+01	pCi/L	1.4E+02	U	3.09E+02	100.0		906.0_H3_LSC	5.00E-03	06/06/2008	59.2	0.3		D
DUP	10028-17-8	3.02E+01		1.3E+02						L	00:56	20.0	3		

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

Wednesday, June 18, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Lab Sample Id: KLTRA1DR **Sdg/Rept Nbr:** W05380 39334 **Collection Date:** 04/22/2008 09:04
Client Id: B1T5H2 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **Received Date:** 04/22/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W08-002	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
8122174	TC-99	6.91E+01	pCi/L	9.6E+00		9.94E+00	100.0		TC99_ETVDSK	1.2501E-01	05/16/2008	10.3	1.		D
DUP	14133-76-7	6.24E+01		6.1E+00						L	22:13	20.0	3		

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

Wednesday, June 18, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Lab Sample Id: KLTT62FR **Sdg/Rept Nbr:** W05380 39334 **Collection Date:** 04/21/2008 09:55

Client Id: B1TWC9 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 04/22/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-004	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
8154223	BETA	1.00E+01	pCi/L	2.3E+00		2.80E+00	100.0		9310_ALPHAB	2.004E-01	06/03/2008	11.5	0.8		D
DUP	12587-47-2	1.12E+01		1.9E+00						L	17:50	20.0	3		

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

Wednesday, June 18, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Lab Sample Id:	KLTTJ1ER	**Sdg/Rept Nbr:**	W05380	39334	**Collection Date:**	04/22/2008 11:03
Client Id:	B1TWT1	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:**	04/22/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-004	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
8122260	ALPHA	2.99E+00	pCi/L	1.6E+00		2.05E+00	100.0		9310_ALPHAB	1.00E-01	05/29/2008	45.7	1.		D
DUP	12587-46-1	1.88E+00		1.5E+00						L	20:24	20.0	3		

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

Wednesday, June 18, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Lab Sample Id:	KLV331GR	**Sdg/Rept Nbr:**	W05380 39334	**Collection Date:**	04/23/2008 11:16
Client Id:	B1V219	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	04/23/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I08-032	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
8122265	C-14	3.02E+00	pCi/L	4.3E+00	U	8.48E+00	100.0		C14_LSC	2.00E-01	05/31/2008	96.0	0.6		D
DUP	14762-75-5	1.06E+00		3.6E+00						L	00:04	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.

Wednesday, June 18, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Lab Sample Id:	KLV331HR	**Sdg/Rept Nbr:**	W05380	39334	**Collection Date:** 04/23/2008 11:16
Client Id:	B1V219	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 04/23/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I08-032	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
8122267	H-3	1.39E+02	pCi/L	1.2E+02	U	2.58E+02	100.0		906.0_H3_LSC	5.00E-03	05/09/2008	163.9	1.4		D
DUP	10028-17-8	1.38E+01		1.1E+02						L	21:59	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.

Wednesday, June 18, 2008

TestAmerica Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05380.Edd, h:\Reportdb\edd\FeadIV\Rad\39334.Edd

Lab Sample Id: KLV331FW **Sdg/Rept Nbr:** W05380 39334 **Collection Date:** 04/23/2008 11:16

Client Id: B1V219 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** MS **Received Date:** 04/23/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I08-032	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
8122174	TC-99	3.45E+03	pCi/L	2.1E+02		9.93E+00	100.0	3.61E+03	TC99_ETVDSK	1.2502E-01	05/17/2008			60	D
MS	14133-76-7			3.2E+01				95.6		L	03:27			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.

TestAmerica

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

5/30/2008 3:10:25 PM

Lot No., Due Date: J8D230169,J8D230182; 06/09/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8122260; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05380; 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 Josh Horton **Date** 5-30-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 812 2240

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: Eilbe [signature] Date: 6/2/18

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/4/2008 11:13:43 AM

Lot No., Due Date: J8D230169,J8D230182; 06/09/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8154223; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05380; 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:
Please see NCM # 10-12460

First Level Review John Horton **Date** 6-4-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8154223

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

Comments on any "No" response: See NCM

Second Level Review: Erika Ford Date: 6/4/8

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-12460**
NCM Initiated By: John Norton
Date Opened: 06/04/2008
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Beta by GPC-Sr/Y
Lot #'s (Sample #'s): J8D230169 (1,2), J8D230182 (1,2,3), J8E010000 (261),
QC Batches: 8122261,

Nonconformance: Other (describe in detail)
Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
John Norton	06/04/2008	Originally analyzed as batch 8122261, that batch failed because the LCS yield was too low.

Corrective Action

Name	Date	Corrective Action
John Norton	06/04/2008	The batch was re-analyzed as batch 8154223, Samples J8D230169-2, J8D230182-1 and 3 did not meet the RDL due to reduced aliquot sizes, however the activity found in the samples was greater than the IDC, the data can be accepted.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 6/4/2008

TestAmerica

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

5/28/2008 2:21:59 PM

Lot No., Due Date: J8D230169,J8D230182,J8D230346,J8D240147; 06/09/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8122262; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05380; WATER

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

6.0 Comments on any No response:

First Level Review John Horton **Date** 5-28-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8122262

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: 5/29/18

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/5/2008 11:38:42 AM

Lot No., Due Date: J8D240360,J8D230169,J8D230182; 06/23/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8122264; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05380; WATER

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

6.0 Comments on any No response:

First Level Review John Hoots **Date** 6-5-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 812-22104

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

Comments on any "No" response: _____

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

5/20/2008 9:38:30 AM

Lot No., Due Date: J8D240360,J8D230178,J8D230182,J8D230346,J8D240147; 06/09/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8122174; RTC99 Tc-99 by LSC

SDG, Matrix: W05380; 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** 5-20-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 812 2174

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: 5/26/8

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

5/20/2008 9:34:39 AM

Lot No., Due Date: J8D240360,J8D230346,J8D240147; 06/09/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8122267; RTRITIUM H-3 by LSC

SDG, Matrix: W05380; 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 Horton **Date** 5-20-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8122267

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: 5/26/18

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

TestAmerica

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/11/2008 2:26:55 PM

Lot No., Due Date: J8D230169,J8D230178,J8D230182; 06/23/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8156360; RTRITIUM H-3 by LSC

SDG, Matrix: W05380; WATER

1.0 COC

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

2.0 QC Batch

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

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

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

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

3.0 QC & Samples

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

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

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

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

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

4.0 Raw Data

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

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

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

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

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

5.0 Other

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

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

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

5.4 Was transcription checked? Yes ✓ No N/A

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

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 6-11-8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8156360

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: 4/12/18

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

TestAmerica

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/3/2008 7:51:01 AM

Lot No., Due Date: J8D230346,J8D240147; 06/09/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8122265; RC14 C-14 by LSC

SDG, Matrix: W05380; WATER

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

6.0 Comments on any No response:

First Level Review John Clouton **Date** 6-3-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 812-2265

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: 4/3/14

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D230169 W05380 Due 06 06

C.O.C. # **S08-003-23**

Page 1 of 1

Collector: F.M. Hall	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S08-003	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, MARCH 2008	HNF-N-566-1e	Ice Chest No. Temp.
Shipped To (Lab): ~~Waste Sampling & Characterization~~ TEST AMERICA RICHLAND KJ 4/22/08	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
B1TKK9 (F)	4/22/08	W	4/22/08	0730	1x500-mL G/P	~~200.8_METALS_ICPMS: Arsenic (1)~~	~~HNO3 to pH <2~~ KJ 4/22/08
B1TKK9 (F)		W			1x500-mL G/P	~~6010_METALS_ICP: List 3 (18)~~	~~HNO3 to pH <2~~
B1TKL0		W			1x250-mL G	TRITIUM_EIE_LSC: Tritium (1) KLTNL	None
B1TKL0		W			1x500-mL G/P	ALPHABETA_GPC: Alpha discrete + Beta (2); ALPHABETA_GPC: Alpha discrete + Beta (2)	HNO3 to pH <2
B1TKL0		W			~~1x500-mL P~~	~~300.0_ANIONS_IC: List-1 (5)~~	~~Cool-4C~~
B1TKL0		W			~~1x500-mL G/P~~	~~200.8_METALS_ICPMS: Arsenic (1)~~	~~HNO3 to pH <2~~
B1TKL0		W			~~1x500-mL G/P~~	~~6010_METALS_ICP: List 3 (18)~~	~~HNO3 to pH <2~~

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F.M. Hall			APR 22 2008 1500		LJLANE	TALK	APR 22 2008 1500
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

J8D230169 W05380 Due 06-06-08

C.O.C. # **S08-003-22**

Page 1 of 1

Collector F.M. Hall	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. S08-003	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV MARCH 2008	HNF-N-505-10	**Ice Chest No.** ERC-028 **Temp.**
Shipped To (Lab) ~~Waste Sampling & Characterization~~ TEST AMERICA	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV RICHLAND 4/22/08	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS SS
** ** 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
B1TKK5 (F)		W	4/22/08	0939	~~1x500-mL G/P~~	~~200.8_METALS_ICPMS: Arsenic (1)~~	~~HNO3 to pH <2~~
B1TKK5 (F)		W			~~1x500-mL G/P~~	~~6010_METALS_ICP: List-3 (18)~~	~~HNO3 to pH <2~~
B1TKK6		W			1x250-mL G	TRITIUM_EIE_LSC: Tritium (1) KLTNO	None
B1TKK6		W			1x500-mL G/P	ALPHABETA_GPC: Alpha discrete + Beta (2); ALPHABETA_GPC: Alpha discrete + Beta (2)	HNO3 to pH <2 4/22/08 SS
B1TKK6		W			~~1x500-mL P~~	~~300.0_ANIONS_IC: List-1 (5)~~	Cool~4C
B1TKK6		W			~~1x500-mL G/P~~	~~200.8_METALS_ICPMS: Arsenic (1)~~	~~HNO3 to pH <2~~
B1TKK6		W			~~1x500-mL G/P~~	~~6010_METALS_ICP: List-3 (18)~~	~~HNO3 to pH <2~~

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F.M. Hall			APR 22 2008 1500		R.W. LANE	TALR	APR 22 2008 1500
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 J8D230169 W05380 Due 06.06.08	C.O.C. # S08-003-20 Page 1 of 1

Collector F.M. Hall	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. S08-003	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURV. MARCH 2008	HNF-N-506 10	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
Site-Wide Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TKK7		W	4/22/08	0935	1x20-mL P	Activity Scan	None
B1TKK7		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1TKK7		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						KLTN6	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F.M. Hall			4/22/08 1500		W LANE	TALK	4/22/08 1500
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	C.O.C. # S08-003-21
	J8D230169 WO 5380 Due 06 06 08	Page 1 of 1

Collector F.M. Hall	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. S08-003	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURV. MARCH 2008	HNF-N-506-10	Ice Chest No 6W-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
Site-Wide Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TKK8		W	4/22/08	0730	1x20-mL P	Activity Scan	None
B1TKK8		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1TKK8		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						KLTPE	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F.M. Hall			4/22/08 1500		LILANE	TALR	4/22/08 1500
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 4 22 08 1500 GM Screen Result 0.1K

Client: PGW SDG #: W05380 NA[ ] SAF #: 508-003 NA [ ]

Work Order Number: J8D230169 Chain of Custody # 508-003-21,-20,-22,-23

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: RJ Date: 4 22 08

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

J8D230178 W05380 Due 06-06-08

C.O.C. # **W08-002-212**

Page 1 of 1

Collector **Roy Sickle**	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. W08-002	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA FEBRUARY 2008	HNF-N-506-13	Ice Chest No. Temp.
Shipped To (Lab) ~~Waste Sampling & Characterization~~ TEST AMERICA RICHLAND KJL 4/22/08	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
B1T5H1 (F)		W	4/22/08	0904	~~1x500-mL G/P~~	~~6010_METALS_ICP: List-3 (18)~~	~~HNO3 to pH <2~~ 4/22/08 KJL
B1T5H2		W			~~1x500-mL G/P~~	~~6010_METALS_ICP: List-3 (18)~~	~~HNO3 to pH <2~~
B1T5H2		W			~~1x500-mL G/P~~	~~2320_ALKALINITY: Alkalinity (1)~~	~~Cool 4C~~
B1T5H2		W			~~1x500-mL P~~	~~300.0_ANIONS_IC: List-1 (5)~~	~~Cool 4C~~
B1T5H2		W			1x250-mL G	TRITIUM_EIE_LSC: Tritium (1)	None
B1T5H2		W			1x1000-mL G/P	TC99_3MDSK_LSC: Tc-99 (1)	HCl to pH <2
						KLTRA	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Roy Sickle			APR 22 2008 1500		W LANE	TALL	APR 22 2008 1500
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 4 22 08 1500 GM Screen Result 0, 1 K

Client: PGW SDG #: W05380 NA[ ] SAF #: W08-002 NA [ ]

Work Order Number: J8D230178 Chain of Custody # W08-002-212

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: 4 22 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

J8D230182 W05380 Due 06.06.08

C.O.C. # **S08-004-155**

Page 1 of 1

Collector F.M. Hall	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. S08-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV. APRIL 2008	HNF-N-506-10	**Ice Chest No.** **Temp.**
Shipped To (Lab) ~~Waste Sampling & Characterization~~ TEST AMERICA-RICHLAND	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

KJL 4/22/08

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
B1TWT0 (F)		W	4-22-08	1103	~~1x500-mL G/P~~	~~6010_METALS_ICP: List-3 (18)~~	~~HNO3 to pH <2~~ KJL 4/22/08
B1TWT0 (F)		W			~~1x500-mL G/P~~	~~200.8_METALS_ICPMS: Arsenic (1)~~	~~HNO3 to pH <2~~
B1TWT1		W			~~1x500-mL G/P~~	~~6010_METALS_ICP: List-3 (18)~~	~~HNO3 to pH <2~~
B1TWT1		W			~~1x500-mL P~~	~~300.0_ANIONS_IC: List-1 (5)~~	~~Cool-4C~~
B1TWT1		W			1x500-mL G/P	ALPHABETA_GPC: Alpha discrete + Beta (2); ALPHABETA_GPC: Alpha discrete + Beta (2)	HNO3 to pH <2
B1TWT1		W			1x250-mL G	TRITIUM_EIE_LSC: Tritium (1) KLTTJ	None
B1TWT1		W			~~1x500-mL G/P~~	~~200.8_METALS_ICPMS: Arsenic (1)~~	~~HNO3 to pH <2~~ KJL 4/22/08

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F.M. Hall			1500 APR 22 2008		LJLANE	TALR	1500 APR 22 2008
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

J8D230182 W05380 Due 06.06.08

C.O.C. # **S08-004-21**

Page 1 of 1

Collector R. A. Shepard	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. S08-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, APRIL 2008	KNF-N-506 10	**Ice Chest No.** **Temp.**
Shipped To (Lab) ~~Waste Sampling & Characterization~~ Test America - 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
~~B1TWC9 (F)~~		~~W~~	~~4-22-08~~	~~0945~~	~~1x500-mL G/P~~	~~6010_METALS_ICP: List-3 (18)~~	~~HNO3 to pH <2~~
B1TWC9		W			~~4x40-mL aGs~~	~~8260_VOA_GCMS: List-2 (25)~~	HCl or H2SO4 to pH <2 Cool-4C
B1TWC9		W			~~1x500-mL G/P~~	~~6010_METALS_ICP: List-3 (18)~~	~~HNO3 to pH <2~~ KJ 4/22/08
B1TWC9		W			~~1x250-mL G/P~~	~~2320_ALKALINITY: Alkalinity (1)~~	~~Cool-4C~~
B1TWC9		W			~~1x500-mL P~~	~~300.0_ANIONS_IC: List-1 (5)~~	~~Cool-4C~~
B1TWC9		W			1x500-mL G/P	ALPHABETA_GPC: Alpha discrete + Beta (2); ALPHABETA_GPC: Alpha discrete + Beta (2)	HNO3 to pH <2
B1TWC9		W			1x1000-mL G/P	TC99_3MDSK_LSC: Tc-99 (1) KLTTG	HCl to pH <2
B1TWC9		W			1x250-mL G	TRITIUM_EIE_LSC: Tritium (1)	None

Relinquished By R. A. Shepard Print Sign Date/Time 1500 APR 22 2008	Received By Print LJLANE Sign TALR Date/Time 1500 APR 22 2008	Matrix *
Relinquished By Date/Time	Received By Date/Time	S = Soil, SE = Sediment, SO = Solid, SL = Sludge, W = Water, O = Oil, A = Air, DS = Drum Solid, DL = Drum Liqui, T = Tissue, WI = Wipe, L = Liquid, V = Vegetation, X = Other
Relinquished By Date/Time	Received By Date/Time	
Relinquished By Date/Time	Received By Date/Time	

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

TESTAMERICA

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D230182 W05380 Due 06-06-08

C.O.C. # **S08-004-53**

Page 1 of 1

Collector: R. D. Julian	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S08-004	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV. APRIL 2008	HNF-N-506-12	Ice Chest No.: SML-137 Temp.
Shipped To (Lab): ~~Waste Sampling & Characterization~~ TEST AMERICA-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
B1TWH5 (F)		W	4-22-08	0904	~~1x500-mL G/P~~	~~6010_METALS_ICP: List-3 (18)~~	~~HNO3 to pH <2~~ KJL 4/22/08
B1TWH6		W			~~1x500-mL~~ G/P	~~6010_METALS_ICP: List-3 (18)~~	~~HNO3 to pH <2~~
B1TWH6		W			~~1x500-mL~~ P	~~300.0_ANIONS_IC: List-1 (5)~~	~~Cool 4C~~
B1TWH6		W			1x500-mL G/P	ALPHABETA_GPC: Alpha discrete + Beta (2); ALPHABETA_GPC: Alpha discrete + Beta (2)	HNO3 to pH <2
B1TWH6		W			1x250-mL G	TRITIUM_EIE_LSC: Tritium (1)	None
						KLTVF	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. D. Julian			APR 22 2008 1500		LJLANE	TALK	APR 22 2008 1500
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 J8D230182 W05380 Due 06 06 08	C.O.C. # S08-004-6 Page 1 of 1

Collector R. D. Julian	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. S08-004	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURV, APRIL 2008	HNF-N-506-12	Ice Chest No. SML-441 Temp.
Shipped To (Lab) ~~Waste Sampling & Characterization~~ Test America Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol SURV	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS 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
B1TW97 (F)		W	4-21-08	1157	~~1x500-mL G/P~~	~~6010_METALS_ICP: List-3 (18)~~	~~HNO3 to pH <2~~
B1TW98		W			~~1x500-mL G/P~~	~~6010_METALS_ICP: List-3 (18)~~	~~HNO3 to pH <2~~
B1TW98		W			~~1x250-mL G/P~~	~~2320_ALKALINITY: Alkalinity (1)~~	~~Cool 4C~~
B1TW98		W			~~1x500-mL P~~	~~300.0_ANIONS_IC: List-1 (5)~~	~~Cool 4C~~
B1TW98		W			1x1000-mL G/P	TC99_3MDSK_LSC: Tc-99 (1)	HCl to pH <2
B1TW98		W			1x250-mL G	TRITIUM_EIE_LSC: Tritium (1)	None
						RLTVM	

KJ 4/22/08

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. D. Julian			APR 21 2008 1500		WLANE	TALR	APR 21 2008 1500
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 J8D230182 W05380 Due 06 06-08	C.O.C. # S08-004-3 Page 1 of 1

Collector R. D. Julian	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. S08-004	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURV, APRIL 2008	HNF-N-506-12	Ice Chest No. SML-441 Temp.
Shipped To (Lab) ~~Waste Sampling & Characterization~~ TARL 4/22/08	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol SURV	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS 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
B1TW93 (F)		W	4-21-08	1117	~~1x500-mL G/P~~	~~6010_METALS_ICP: List-3 (18)~~	~~HNO3 to pH <2~~
B1TW94		W			~~1x500-mL G/P~~	~~6010_METALS_ICP: List 3 (18)~~	~~HNO3 to pH <2~~ K.21 4/22/08
B1TW94		W			~~1x250-mL G/P~~	~~2320_ALKALINITY: Alkalinity (1)~~	~~Cool~4C~~
B1TW94		W			~~1x500-mL P~~	~~300.0_ANIONS_IC: List 1 (5)~~	~~Cool~4C~~
B1TW94		W			1x1000-mL G/P	TC99_3MDSK_LSC: Tc-99 (1)	HCl to pH <2
B1TW94		W			1x250-mL G	TRITIUM_EIE_LSC: Tritium (1)	None
						RLTVN	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. D. Julian			APR 21 2008 1500		R. L. LANE	TALL	APR 21 2008 1500
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 J8D230182 W05380 Due 06 06 08	C.O.C. # S08-004-153 Page 1 of 1

Collector F.M. Hall	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. S08-004	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURV. APRIL 2008	HNF-N-506-10	Ice Chest No. 6W 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
B1TWT3		W	4-22-08	1103	1x20-mL P	Activity Scan	None
B1TWT3		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1TWT3		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						KLTVQ	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F.M. Hall			4/22/08 1500		LLANE	TALR	4/22/08 1500
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: 42208 1500 GM Screen Result 0.1K

Client: PGW SDG #: W05380 NA[ ] SAF #: 508-004 NA [ ]

Work Order Number: J8D230182 Chain of Custody # 508-004-153,-3,-6,-53,-21,-155

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 6
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ✓ Tape
   - ✓ Custody Seals
   - ✓ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ] 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: RP Date: 42208

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. # I08-032-106
F.M. Hall	J8D230346 W05380 DUE 6 6 08 KLV33	Page 1 of 1

Collector	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I08-032	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100KR4IAM(1/2), APRIL 2008	HNF-N-506-10	Ice Chest No.: ERC-96-023 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
** **

SPECIAL INSTRUCTIONS Hold Time
100 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1V219		W	4/23/08	1116	1x20-mL P	Activity Scan	None
B1V219		W			2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1V219		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1V219		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1V219		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F.M. Hall			APR 23 2008 1235		LJLANE	TALR	APR 23 2008 1235
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	C.O.C. # I08-032-107
	J8D230346 W05380 DUE 6 6 08 KLV4N	Page 1 of 1

Collector F.M. Hall	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. I08-032	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 100KR4IAM(1/2), APRIL 2008	HNF-SOL-10	Ice Chest No. EPC-K C28 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
** **

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
B1V223		W	4/23/08	1026	1x20-mL P	Activity Scan	None
B1V223		W			2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1V223		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1V223		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1V223		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
F.M. Hall	APR 23 2008 1235	LJLANE TALR	APR 23 2008 1235
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 J8D230346 W05380 DUE 6608 KLV4W	C.O.C. # I08-032-108 Page 1 of 1

Collector F.M. Hall	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. I08-032	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 100KR4IAM(1/2) APRIL 2008	HNF-N-505-10	Ice Chest No. ERC-R-225 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
** **

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
B1V227		W	4-23-08	0846	1x20-mL P	Activity Scan	None
B1V227		W			2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1V227		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1V227		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1V227		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F.M. Hall			APR 23 2008 1235		R.L. LANE	TAL	APR 23 2008 1235
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 J8D230346 W05380 DUE 6 6 08 KLV41	C.O.C. # I08-032-120 Page 1 of 1

Collector F.M. Hall	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. I08-032	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 100KR4IAM(1/2) APRIL 2008	HWF-N-506-10	Ice Chest No. CRC-96 028 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
** **

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
B1V235		W	4-23-08	0901	1x20-mL P	Activity Scan	None
B1V235		W			2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1V235		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1V235		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1V235		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F.M. Hall			APR 23 2008 1235		LJLANE	TALK	APR 23 2008 1235
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
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Sample Check-in List

Date/Time Received: 42308 1235 GM Screen Result 0.1K

Client: PGW SDG #: W05380 NA[ ] SAF #: I08-032 NA [ ]

Work Order Number: J8D230346 Chain of Custody # I08-032-106,-107,-108,-120

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: 42308

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 J8D240147 W05380 DUE 6608 KLW89	C.O.C. # 108-036-17 Page 1 of 1

Collector: R. D. Julian	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: 108-036	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100KR4IAM(1/2), MAY 2008	HNF-N-506-12	Ice Chest No.: SML-137 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
** **

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
B1V618		W	4-23-08	1240	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1V618		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1V618		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1V618		W			1x20-mL P	Activity Scan	None
B1V618		W			2x1000-mL G/P	C14_LSC: C-14 (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. D. Julian			APR 23 2008 1430	K R LANE	TAL		APR 23 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 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 J8D240147 W05380 DUE 6608 KLW9G	C.O.C. # 108-036-23 Page 1 of 1

Collector: R. D. Julian	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: 108-036	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100KR4IAM(1/2), MAY 2008	HNF-N-506-12	Ice Chest No.: SMC-137 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
** **

SPECIAL INSTRUCTIONS Hold Time
100 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1V621		W	4-23-08	1110	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1V621		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1V621		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1V621		W			1x20-mL P	Activity Scan	None
B1V621		W			2x1000-mL G/P	C14_LSC: C-14 (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. D. Julian			APR 23 2008 1430		RINLANE	TAL	APR 23 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 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 J8D240147 W05380 DUE 6608 KLW9H	C.O.C. # 108-036-29 Page 1 of 1

Collector: R.D. Julian	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: 108-036	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100KR4IAM(1/2) MAY 2008	HNF-N-508-12	Ice Chest No.: GLU-1 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

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
B1V624		W	4-23-08	0950	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1V624		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1V624		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1V624		W			1x20-mL P	Activity Scan	None
B1V624		W			2x1000-mL G/P	C14_LSC: C-14 (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. D. Julian			APR 23 2008 1430		LLANE	TAL	APR 23 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

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J8D240147 W05380 DUE 6608 KLW9M	C.O.C. # I08-036-35 Page 1 of 1

Collector: Roy Sickle	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I08-036	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100KR4IAM(1/2) MAY 2008	HWF-N-506-13	Ice Chest No.: BW1 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
** **

SPECIAL INSTRUCTIONS Hold Time
100 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1V627		W	4/23/08	1300	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1V627		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1V627		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1V627		W	↓	↓	1x20-mL P	Activity Scan	None
B1V627		W	↓	↓	2x1000-mL G/P	C14_LSC: C-14 (1)	None

KLW 4/23/08

Relinquished By	Date/Time	Received By	Date/Time
Print: Roy Sickle Sign: [signature]	APR 23 2008 1430	Print: LVLANE Sign: TALK	APR 23 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 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
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Sample Check-in List

Date/Time Received: 42308 1430 GM Screen Result 0,1K

Client: PGW SDG #: W05380 NA[ ] SAF #: I08-036 NA [ ]

Work Order Number: J8D240147 Chain of Custody # I08-036-17,-23,-29,-35

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: 42308

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 J8D240360 W05380 DUE 6908 KL053	C.O.C. # I08-033-11 Page 1 of 1

Collector: R. D. Julian	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I08-033	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 222PL APRIL 2008	HAIF-N-SD6-15	Ice Chest No.: STING-1 Temp.
Shipped To (Lab): TestAmerica Incorporated Richland	Method of Shipment: Govt Vehicle	Bill of Lading/Air Bill No.
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1V4P9		W	4-24-08	1023	1x20-mL P	Activity Scan	None
B1V4P9		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1V4P9		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1V4P9		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. D. Julian			APR 24 2008 1400	D. R. Williamson			APR 24 2008 1400
D. R. Williamson			APR 24 2008 1450	LJ LANE TAL			APR 24 2008 1450
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: 42408 14~~3~~50 GM Screen Result 0.1K

Client: PGW SDG #: W05380 NA[ ] SAF #: I08-033 NA [ ]

Work Order Number: J8D240360 Chain of Custody # I08-033-11

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: RJP Date: 4 24 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

5/28/2008 9:33:36 AM

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 #: 945

AnalyDueDate: 06/06/2008 WO53880

Sep1 DT/Tm Tech:

Batch: 8122260 WATER pCi/L **PM, Quote: SS , 57671**

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 8122260 AZS7, 8122261 BCS8, 8122262 CLTL, 8122264 BNTB, 8122270 ASU3,

Prep Tech: ,HarrisD | Box 9.

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KLTNL-1-AA J8D230169-1-SAMP 04/22/2008 07:30	AmtRec: 250G,500G	200.00g,in	#Containers: 2	1.5	0.2	50	12A	2025	5/29/0800	Scr: Alpha: -8.84E-08 uCi/Sa Beta: -3.86E-08 uCi/Sa
2 KLTN0-1-AA J8D230169-2-SAMP 04/22/2008 09:39	AmtRec: 250G,500G	200.00g,in	#Containers: 2		52.4		12B			Scr: Alpha: -1.02E-07 uCi/Sa Beta: 8.56E-08 uCi/Sa
3 KLTTJ-1-AA J8D230182-1-SAMP 04/22/2008 11:03	AmtRec: 250G,500MLP	99.90g,in	#Containers: 2		15.1	100	11A	2115		Scr: Alpha: -1.01E-07 uCi/Sa Beta: 1.10E-07 uCi/Sa
4 KLTTJ-1-AE-X J8D230182-1-DUP 04/22/2008 11:03	AmtRec: 250G,500MLP	100.00g,in	#Containers: 2		14.2		11B			Scr: Alpha: -1.01E-07 uCi/Sa Beta: 1.10E-07 uCi/Sa
5 KLTT6-1-AA J8D230182-2-SAMP 04/21/2008 09:55	AmtRec: 250G,500MLP,LP	151.50g,in	#Containers: 3		29.5		11 ~~12~~C 5/29/0800			Scr: Alpha: -2.92E-07 uCi/Sa Beta: 3.16E-07 uCi/Sa
6 KLTVF-1-AA J8D230182-3-SAMP 04/21/2008 09:04	AmtRec: 250G,500MLP	172.40g,in	#Containers: 2		32.9	50	12C	2025		Scr: Alpha: -1.23E-07 uCi/Sa Beta: 1.19E-07 uCi/Sa
7 KMDJE-1-AA-B J8E010000-260-BLK 04/22/2008 11:03	AmtRec:	200.30g,in	#Containers: 1		0.3	100	11D	2115		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: 7
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4.8.32

TESTAMERICA

5/28/2008 9:33:39 AM

Sample Preparation/Analysis

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

Balance Id:1129482733

Pipet #: _____

AnalyDueDate: 06/06/2008

Sep1 DT/Tm Tech:

Batch: 8122260 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:
8 KMDJE-1-AC-C		200.20g,in	ASD4478	1.5	0.3	100	11A	0903	5/30/08	
J8E010000-260-LCS			05/01/08,pd 06/01/01,r							
04/22/2008 11:03		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:

Comments: KLTTJ-SAMP "Comments: dups reduced due to ISV. DLH 5/28/08"

PH>20. Aliquots reduced due to ut screens DLH 5/28/08

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

KLTNL1AA-SAMP Constituent List:

ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
KMDJE1AA-BLK:					
ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
KMDJE1AC-LCS:					
Am-241	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

KLTNL1AA-SAMP Calc Info:

Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KMDJE1AA-BLK:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KMDJE1AC-LCS:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B

Approved By _____ Date: _____

5/30/2008 3:09:48 PM

ICOC Fraction Transfer/Status Report

ByDate: 5/31/2007, 6/4/2008, Batch: '8122260', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8122260						
AC		Rev1C	HarrisD	5/27/2008 1:37:58 PM		
SC			wagarr	IsBatched	5/1/2008 3:27:27 PM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	5/27/2008 1:37:58 PM	RICH-RC-5016 Revision 7
SC			HarrisD	Prep1C	5/28/2008 9:33:43 AM	RICH-RC-5014 REVISION 7
SC			BockJ	InPrep2	5/28/2008 1:40:45 PM	RICH-RC-5014 REVISION 7
SC			BockJ	Prep2C	5/29/2008 3:28:16 PM	RICH-RC-5014 REVISION 7
SC			DAWKINSO	InCnt1	5/29/2008 3:54:24 PM	RICH-RD-0003 REVISION 5
SC			ClarkR	CalcC	5/30/2008 10:04:57 AM	RICH-RD-0003 REVISION 5
SC			nortonj	Rev1C	5/30/2008 3:09:39 PM	RICH-RC-0002 REV 8
AC			HarrisD	5/28/2008 9:33:43		
AC			BockJ	5/28/2008 1:40:45 PM		
AC			BockJ	5/29/2008 3:28:16 PM		
AC			DAWKINSO	5/29/2008 3:54:24 PM		
AC			ClarkR	5/30/2008 10:04:57		
AC			nortonj	5/30/2008 3:09:39 PM		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 7

ICOCFractions v4.8.33

TESTAMERICA

6/2/2008 2:39:26 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: _____

AnalyDueDate: 06/06/2008

Sep1 DT/Tm Tech:

Batch: 8154223 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 8122260 AZS7, 8122261 BCS8, 8122262 CLTL, 8122264 BNTB, 8122270 ASU3, 8154223 BCS8,

Prep Tech: WoodT | Book 2

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 KLTNL-2-AC J8D230169-1-SAMP 04/22/2008 07:30		116.60g,in AmtRec: 250G,500G #Containers: 2		1.5	100	0.3	71B	1624	6/7/08 m	Scr: Alpha: -8.84E-08 uCi/Sa Beta: -3.86E-08 uCi/Sa
2 KLTN0-2-AC J8D230169-2-SAMP 04/22/2008 09:39		105.40g,in AmtRec: 250G,500G #Containers: 2				47.6	71D			Scr: Alpha: -1.02E-07 uCi/Sa Beta: 8.56E-08 uCi/Sa
3 KLTTJ-2-AC J8D230182-1-SAMP 04/22/2008 11:03		112.50g,in AmtRec: 250G,500MLP #Containers: 2				25.2	27D	1839	6/3/08 RQ	Scr: Alpha: -1.01E-07 uCi/Sa Beta: 1.10E-07 uCi/Sa
4 KLTT6-2-AC J8D230182-2-SAMP 04/21/2008 09:55		200.50g,in AmtRec: 250G,500MLP,LP #Containers: 3			100	92.8	27B			Scr: Alpha: -2.92E-07 uCi/Sa Beta: 3.16E-07 uCi/Sa
5 KLTT6-2-AF-X J8D230182-2-DUP 04/21/2008 09:55		200.40g,in AmtRec: 250G,500MLP,LP #Containers: 3				90.5	27A			Scr: Alpha: -2.92E-07 uCi/Sa Beta: 3.16E-07 uCi/Sa
6 KLTVF-2-AC J8D230182-3-SAMP 04/21/2008 09:04		116.80g,in AmtRec: 250G,500MLP #Containers: 2			100	57.4	~~37~~ 26A 6/3/08 RQ			Scr: Alpha: -1.23E-07 uCi/Sa Beta: 1.19E-07 uCi/Sa
7 KN7QD-1-AA-B J8F020000-223-BLK 04/22/2008 07:30		200.30g,in AmtRec: #Containers: 1				0.2	26B	0	0	Scr: Alpha: Beta:

90

TESTAMERICA

6/2/2008 2:39:28 PM

Sample Preparation/Analysis

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

Balance Id:1120482733
Pipet #: _____

AnalyDueDate: 06/06/2008

Sep1 DT/Tm Tech:

Batch: 8154223 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: WoodT

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 KN7QD-1-AC-C		200.20g,in	BESB3254	1.5	100		26e	1839	6/3/08	
J8F020000-223-LCS			04/17/08,pd			0.5				
04/22/2008 07:30		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:

Comments: KLTNL-SAMP "Comments: Volume reduced due to ISV TGW 6/2/08"
KLTN0-SAMP "Comments Volume reduced due to ISV TGW 6/2/08"
KLTTJ-SAMP "Comments: dups reduced due to ISV. DLH 5/28/08"
KLTT6-SAMP "Comments: Used Tc99 sample to provide volume for sample and dup."
KLTVF-SAMP "Comments Volume reduced due to ISV TGW 6/2/08"
KN7QD-BLK "Comments Volume reduced due to ISV TGW 6/2/08"

KLTT62AC/KLTT62AF were counted for 100 minutes. 6/3/08

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

KLTNL2AC-SAMP Constituent List:

KN7QD1AA-BLK:

KN7QD1AC-LCS:

KLTNL2AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KN7QD1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KN7QD1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

RE-ANALYSIS REQUEST

DUE DATE 6-6

CUSTOMER PGW

ANALAYSIS B

MATRIX H_2O

LOT NUMBER J8D230169

SAMPLE DELIVERY GROUP W05380

OLD BATCH NUMBER 8122261

NEW BATCH NUMBER 8154223

LAB SAMPLE ID	CLIENT ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1) ALL	384868	NO LCS YIELD
2)		
3)		
4)		
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

6/4/2008 11:12:07 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/5/2007, 6/9/2008, Batch: '8154223', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8154223						
AC		**Rev1C**	**LucasD**	6/2/2008 2:18:21 PM		
SC			nortonj	IsBatched	6/2/2008 9:45:12 AM	ICOC_RADCALC v4.8.32
SC			LucasD	InPrep	6/2/2008 2:18:21 PM	RICH-RC-5015 Revision 6
SC			WoodT	InPrep	6/2/2008 2:23:49 PM	RICH-RC-5014 Revision 7
SC			WoodT	Prep1C	6/2/2008 2:38:22 PM	RICH-RC-5014 REVISION 7
SC			BockJ	InPrep2	6/2/2008 3:38:37 PM	RICH-RC-5014 REVISION 7
SC			ClarkR	InCnt1	6/3/2008 2:38:50 PM	RICH-RD-0003 REVISION 5
SC			BockJ	Prep2C	6/3/2008 3:20:50 PM	RICH-RC-5014 REVISION 7
SC			DAWKINSO	CalcC	6/3/2008 9:36:35 PM	RICH-RD-0003 REVISION 5
SC			nortonj	Rev1C	6/4/2008 11:11:55 AM	RICH-RC-0002 REV 8
AC			**WoodT**	6/2/2008 2:23:49 PM		
AC			**WoodT**	6/2/2008 2:38:22 PM		
AC			**BockJ**	6/2/2008 3:38:37 PM		
AC			**ClarkR**	6/3/2008 2:38:50 PM		
AC			**BockJ**	6/3/2008 3:20:50 PM		
AC			**DAWKINSO**	6/3/2008 9:36:35 PM		
AC			**nortonj**	6/4/2008 11:11:55		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 8

ICOCFractions v4.8.33

TESTAMERICA

5/12/2008 8:45:29 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

AnalyDueDate: 06/06/2008

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

Balance Id:1120373922
Pipet #: DRM
Sep1 DT/Tm Tech: 13 May 08 16:51:00
Sep2 DT/Tm Tech: 21 May 08 12:30:00 DRM
Prep Tech: ,WoodT

Batch: 8122262 **WATER** **pCi/L** **PM, Quote: SS , 57671**
SEQ Batch, Test: None All Tests: 8122260 AZS7, 8122261 BCS8, 8122262 CLTL, 8122264 BNTB, 8122270 ASU3,

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 KLTN6-1-AC		1001.51g,in	SRTB16114	1.768		237	100	9"	2058	5/13/08 DN	
J8D230169-3-SAMP			04/17/08,pd	2.0822		228		7A	0632	5/21/08	
				0.8700				7A	0631	5/23/08	
YTA18823 Ex:10/23/2006											
04/22/2008 09:39		AmtRec: 20ML,3XLP,2X4LP		#Containers: 6				Scr:	Alpha: -2.62E-07 uCi/Sa		Beta: 2.83E-07 uCi/Sa
2 KLTN6-1-AD-X		1002.56g,in	SRTB16115	1.601		22.9		9"	2134	5/13/08 DN	
J8D230169-3-DUP			04/17/08,pd	2.0089		24		7B	0632	5/21/08	
								7B	0631	5/23/08	
YTA18824 Ex:10/23/200				0.7970							
04/22/2008 09:39		AmtRec: 20ML,3XLP,2X4LP		#Containers: 6				Scr:	Alpha: -2.62E-07 uCi/Sa		Beta: 2.83E-07 uCi/Sa
3 KLTPE-1-AC		1000.05g,in	SRTB16116	1.699		23.2		3"	2134	5/13/08 DN	
J8D230169-4-SAMP			04/17/08,pd	2.0011		21		7C	0632	5/21/08	
								7C	0631	5/23/08	
YTA18825 Ex:10/23/200				0.8490							
04/22/2008 07:30		AmtRec: 20ML,3XLP,2X4LP		#Containers: 6				Scr:	Alpha: -2.19E-07 uCi/Sa		Beta: 4.04E-07 uCi/Sa
4 KLTVQ-1-AC		1000.91g,in	SRTB16117	1.694		22.6		9"	2207	5/13/08 DN	
J8D230182-6-SAMP			04/17/08,pd	2.0127				1A	0632	5/21/08	
								1A	0631	5/23/08	
YTA18826 Ex:10/2/2008				0.8317							
04/21/2008 11:03		AmtRec: 20ML,3XLP,2X4LP		#Containers: 6				Scr:	Alpha: 1.34E-06 uCi/Sa		Beta: -3.23E-07 uCi/Sa

TESTAMERICA

5/12/2008 8:45:31 AM

Sample Preparation/Analysis

Balance Id:1120373922

384868, Pacific Northwest National Laboratory .
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 06/06/2008

Sep1 DT/Tm Tech:

Batch: 8122262 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WoodT

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
5 KLV33-1-AD J8D230346-1-SAMP		1000.56g,in	SRTB16118 04/17/08,pd 05/22/07	1.701 2.0089		236	100	3" B B	2207 U632 U631	5/13/0800 [illegible] 5/23/08	
				0.8467							
04/23/2008 11:16		AmtRec: VIAL20,500MLP,6XLP	#Containers: 8					Scr:	Alpha: 8.28E-04 uCi/Sa	Beta: 4.84E-04 uCi/Sa	
6 KLV4N-1-AD J8D230346-2-SAMP		1000.19g,in	SRTB16119 04/17/08,pd 05/22/07	1.649 1.9856		22.9		1" K K	0539 U632 U631	[illegible] [illegible] 5/23/08	
				0.8305							
04/23/2008 10:26		AmtRec: VIAL20,500MLP,6XLP	#Containers: 8					Scr:	Alpha: -3.25E-05 uCi/Sa	Beta: 4.84E-04 uCi/Sa	
7 KLV4W-1-AD J8D230346-3-SAMP		1000.04g,in	SRTB16120 04/17/08,pd 05/22/07	1.792 2.0285		21.4		3" D D	0539 U632 U631	[illegible] [illegible] 5/23/08	
	YTA18829 Ex:4/29/2009			0.8835							
04/23/2008 09:46		AmtRec: VIAL20,500MLP,6XLP	#Containers: 8					Scr:	Alpha: -1.11E-03 uCi/Sa	Beta: 1.20E-03 uCi/Sa	
8 KLV41-1-AD J8D230346-4-SAMP		1008.43g,in	SRTB16121 04/17/08,pd 05/22/07	1.609 1.9701		22.7		9" A A	0612 U632 U631	5/14/08 [illegible] 5/23/08	
	YTA18830 Ex:4/29/2006			0.8767							
04/23/2008 09:01		AmtRec: VIAL20,500MLP,6XLP	#Containers: 8					Scr:	Alpha: -1.65E-03 uCi/Sa	Beta: 2.13E-03 uCi/Sa	

TESTAMERICA

5/12/2008 8:45:31 AM

Sample Preparation/Analysis

Balance Id:1120373922

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 06/06/2008

Sep1 DT/Tm Tech:

Batch: 8122262 **WATER** **pCi/L** **PM, Quote: SS , 57671**

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,WoodT

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
9 KLW89-1-AD		1000.43g,in	SRTB16122	1.772			100	31	0618	5/14/08	
J8D240147-1-SAMP			04/17/08,pd 05/22/07 r	1.9814		22.7		23	0632	5/14/08	
								33	0631	5/23/08	
	YTA18831 Ex:4/29/2009			0.8942							
04/23/2008 12:10		AmtRec: VIAL20,500MLP,6XLP	#Containers: 8					Scr:	Alpha: -1.59E-05 uCi/Sa	Beta: 1.97E-04 uCi/Sa	
10 KLW9G-1-AD		1000.15g,in	SRTB16123	1.550				31	0616	5/14/08	
J8D240147-2-SAMP			04/17/08,pd 05/22/07 r	2.0282		22.5		32	0632	5/14/08	
								33	0631	5/23/08	
	YTA18832 Ex:4/29/2009			0.7642							
04/23/2008 11:10		AmtRec: VIAL20,500MLP,6XLP	#Containers: 8					Scr:	Alpha: 5.16E-04 uCi/Sa	Beta: -1.79E-05 uCi/Sa	
11 KLW9H-1-AD		1001.90g,in	SRTB16124	1.797				31	0644	5/14/08	
J8D240147-3-SAMP			04/17/08,pd 05/22/07 r	2.0204		22.3		23	0632	5/14/08	
								33	0631	5/23/08	
	YTA18833 Ex:4/29/2009			0.8894							
04/23/2008 09:50		AmtRec: VIAL20,500MLP,6XLP	#Containers: 8					Scr:	Alpha: 2.49E-04 uCi/Sa	Beta: -6.63E-04 uCi/Sa	
12 KLW9M-1-AD		1000.56g,in	SRTB16149	1.553				31	0719	5/14/08	
J8D240147-4-SAMP			04/22/08,pd 05/22/07 r	1.9915		22.4		32	0632	5/14/08	
								33	0631	5/23/08	
	YTA18834 Ex:4/29/2009			0.7798							
04/23/2008 13:00		AmtRec: VIAL20,500MLP,6XLP	#Containers: 8					Scr:	Alpha: -3.80E-04 uCi/Sa	Beta: 9.14E-04 uCi/Sa	

TESTAMERICA

5/12/2008 8:45:32 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:1120373922
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,WoodT

AnalyDueDate: 06/06/2008

Batch: 8122262 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:
13 KMDJM-1-AA-B		1002.40g,in	SRTB16150	1.604			100	31	0719	5/14/08	
J8E010000-262-BLK			04/22/08,pd	~~1.0040~~ 2036		21.4		3B	0632	5/22/08	
				5/22				3B	0631	5/23/08	
	YTA18835 Ex.4/29/2008			~~1.6014~~ 0.7991							
04/22/2008 09:39		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:
14 KMDJM-1-AC-C		1001.76g,in	SRSG1465	1.699				3	0751	5/14/08	
J8E010000-262-LCS			04/11/08,pd	1.9867		21.4		3C	0632	5/22/08	
								3C	0631	5/23/08	
	YTA18836 Ex.4/29/2008			0.8552							
04/22/2008 09:39		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:

Comments: pH<2.0 5/12/08 [illegible]

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

KLTN61AC-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

KMDJM1AA-BLK:

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

KMDJM1AC-LCS:

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

KLTN61AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KMDJM1AA-BLK:

5/28/2008 2:21:00 PM

ICOC Fraction Transfer/Status Report

ByDate: 5/29/2007, 6/2/2008, Batch: '8122262', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8122262						
AC		Rev1C	WoodT	5/12/2008 8:45:45		
SC			wagarr	IsBatched	5/1/2008 3:27:27 PM	ICOC_RADCALC v4.8.32
SC			WoodT	InPrep	5/12/2008 8:45:45 AM	RICH-RC-5016 REVISION 7
SC			WoodT	Prep1C	5/12/2008 8:45:56 AM	RICH-RC-5016 REVISION 7
SC			ManisD	InSep1	5/12/2008 9:38:39 AM	RICH-RC-5006 REV 7
SC			ManisD	Sep1C	5/13/2008 5:02:44 PM	RICH-RC-5006 REV 7
SC			DAWKINSO	InCnt1	5/13/2008 5:33:58 PM	RICH-RD-0007 REVISION 6
SC			ClarkR	Cnt1C	5/14/2008 7:56:29 AM	RICH-RD-0007 REVISION 6
SC			ManisD	InSep2	5/14/2008 12:16:11 PM	RICH-RC-5071 REV 5
SC			DAWKINSO	InCnt2	5/21/2008 8:40:07 PM	RICH-RD-0003 REVISION 5
SC			BlackCL	CalcC	5/23/2008 7:29:57 AM	RICH-RD-0003 REVISION 5
SC			nortonj	Rev1C	5/28/2008 2:19:58 PM	RICH-RC-0002 REV 8
AC			WoodT	5/12/2008 8:45:56		
AC			WoodT	5/12/2008 8:46:06		
AC			ManisD	5/12/2008 9:38:39		
AC			ManisD	5/13/2008 5:02:44 PM		
AC			DAWKINSO	5/13/2008 5:33:58 PM		
AC			ClarkR	5/14/2008 7:56:29		
AC			ManisD	5/14/2008 12:16:11		
AC			DAWKINSO	5/21/2008 8:40:07 PM		
AC			BlackCL	5/23/2008 7:29:57		
AC			nortonj	5/28/2008 2:19:58 PM		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 11

ICOCFractions v4.8.33

TESTAMERICA

5/21/2008 1:40:17 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 06/06/2008 W05380

Sep1 DT/Tm Tech:

Batch: 8122264 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ManisD,HarrisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KLTN6-1-AA J8D230169-3-SAMP 04/22/2008 09:39		3852.30g,in AmtRec: 20ML,3XLP,2X4LP #Containers: 6	ITA7233 05/21/08		35.9	100	L2	1609	6/4/08	Scr: Alpha: -2.62E-07 uCi/Sa Beta: 2.83E-07 uCi/Sa
2 KLTPE-1-AA J8D230169-4-SAMP 04/22/2008 07:30		3866.50g,in AmtRec: 20ML,3XLP,2X4LP #Containers: 6	ITA7234 05/21/08		36.1		L4	1610		Scr: Alpha: -2.19E-07 uCi/Sa Beta: 4.04E-07 uCi/Sa
3 KLTVQ-1-AA J8D230182-6-SAMP 04/21/2008 11:03		3847.30g,in AmtRec: 20ML,3XLP,2X4LP #Containers: 6	ITA7235 05/21/08		34.0		L5	1610		Scr: Alpha: 1.34E-06 uCi/Sa Beta: -3.23E-07 uCi/Sa
4 KL053-1-AC J8D240360-1-SAMP 04/24/2008 10:23		3871.70g,in AmtRec: VIAL20,500MLP,LP,2X4LP #Containers: 5	ITA7236 05/21/08		35.3		L2	1754	6/4/08	Scr: Alpha: -3.14E-04 uCi/Sa Beta: 2.59E-03 uCi/Sa
5 KL053-1-AE-X J8D240360-1-DUP 04/24/2008 10:23		3853.40g,in AmtRec: VIAL20,500MLP,LP,2X4LP #Containers: 5	ITA7237 05/21/08		34.5		L4	1755		Scr: Alpha: -3.14E-04 uCi/Sa Beta: 2.59E-03 uCi/Sa
6 KMDJT-1-AA-B J8E010000-264-BLK 04/24/2008 10:23		4000.00g,in AmtRec: #Containers: 1	ITA7238 05/21/08		35.3		L5			Scr: Alpha: Beta:
7 KMDJT-1-AC-C J8E010000-264-LCS 04/24/2008 10:23		4000.00g,in AmtRec: #Containers: 1	ISD0847 04/22/08		36.5		L5	1941		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: 7
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4.8.32

TESTAMERICA

5/21/2008 1:40:19 PM

Sample Preparation/Analysis

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

AnalyDueDate: 06/06/2008

Batch: 8122264 pCi/L

SEQ Batch, Test: None

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

Comments:

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

KLTN61AA-SAMP Constituent List:

I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:
KMDJT1AA-BLK:					
I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:
KMDJT1AC-LCS:					
I-129	RDL:5	pCi/L	LCL:70	UCL:130	RPD:20

KLTN61AA-SAMP Calc Info:

Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KMDJT1AA-BLK:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KMDJT1AC-LCS:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B

Approved By _____ Date: _____

6/5/2008 11:38:03 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/6/2007, 6/10/2008, Batch: '8122264', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8122264						
AC		Rev1C	LucasD	5/21/2008 12:15:18		
SC			wagarr	IsBatched	5/1/2008 3:27:27 PM	ICOC_RADCALC v4.8.32
SC			LucasD	InPrep	5/21/2008 12:15:18 PM	RICH-RC-5016 Revision 7
SC			HarrisD	InPrep	5/21/2008 1:23:22 PM	rich-rc-5014 rEVISION 7
SC			BostedD	InPrep2	5/22/2008 6:51:49 AM	RICHRC5025 REVISION 4
SC			BostedD	Prep2C	6/4/2008 2:21:13 PM	RICHRC5025 REVISION 4
SC			BlackCL	InCnt1	6/4/2008 2:26:33 PM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	CalcC	6/4/2008 9:32:10 PM	RICH-RD-0007 REVISION 6
SC			nortonj	Rev1C	6/5/2008 11:37:54 AM	RICH-RC-0002 REV 8
AC			HarrisD	5/21/2008 1:23:22 PM		
AC			BostedD	5/22/2008 6:51:49		
AC			BostedD	6/4/2008 2:21:13 PM		
AC			BlackCL	6/4/2008 2:26:33 PM		
AC			DAWKINSO	6/4/2008 9:32:10 PM		
AC			nortonj	6/5/2008 11:37:54		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 7

ICOCFractions v4.8.33

TESTAMERICA

5/8/2008 9:42:52 AM

Sample Preparation/Analysis

Balance Id:1120373922

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 06/06/2008

Sep1 DT/Tm Tech:

Batch: 8122174 **WATER** **pCi/L** **PM, Quote: SS , 57671**

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 8122174 FPS5, 8122270 ASU3,

Prep Tech: ,Barcotl

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KLTRA-1-AA J8D230178-1-SAMP 04/22/2008 09:04		AmtRec: 250G,LP	125.01g,in	125.01g #Containers: 2		60	Scr:	Alpha: -1.34E-07 uCi/Sa	Beta: 8.74E-08 uCi/Sa	
2 KLTRA-1-AD-X J8D230178-1-DUP 04/22/2008 09:04		AmtRec: 250G,LP	125.01g,in	125.01g #Containers: 2			Scr:	Alpha: -1.34E-07 uCi/Sa	Beta: 8.74E-08 uCi/Sa	
3 KLTT6-1-AD J8D230182-2-SAMP 04/21/2008 09:55		AmtRec: 250G,500MLP,LP	125.02g,in	125.02g #Containers: 3			Scr:	Alpha: -2.92E-07 uCi/Sa	Beta: 3.16E-07 uCi/Sa	
4 KLTVM-1-AA J8D230182-4-SAMP 04/21/2008 11:57		AmtRec: 250G,LP	125.02g,in	125.02g #Containers: 2			Scr:	Alpha: 3.47E-07 uCi/Sa	Beta: -1.47E-07 uCi/Sa	
5 KLTVN-1-AA J8D230182-5-SAMP 04/21/2008 11:17		AmtRec: 250G,LP	125.01g,in	125.01g #Containers: 2			Scr:	Alpha: 4.91E-08 uCi/Sa	Beta: 5.98E-08 uCi/Sa	
6 KLV33-1-AE J8D230346-1-SAMP 04/23/2008 11:16		AmtRec: VIAL20,500MLP,6XLP	125.02g,in	125.02g #Containers: 8			Scr:	Alpha: 8.28E-04 uCi/Sa	Beta: 4.84E-04 uCi/Sa	
7 KLV33-1-AF-S J8D230346-1-MS 04/23/2008 11:16		AmtRec: VIAL20,500MLP,6XLP	125.02g,in	125.02g #Containers: 8	TCSG2030 04/22/08,pd 01/10/06,r		Scr:	Alpha: 8.28E-04 uCi/Sa	Beta: 4.84E-04 uCi/Sa	

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: 7
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4.8.32

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TESTAMERICA

5/8/2008 9:42:54 AM

Sample Preparation/Analysis

Balance Id:1120373922

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 06/06/2008

Sep1 DT/Tm Tech:

Batch: 8122174 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,Barcotl

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 KLV4N-1-AE J8D230346-2-SAMP 04/23/2008 10:26			125.00g,in AmtRec: VIAL20,500MLP,6XLP	125.00g #Containers: 8		60	Scr:	Alpha: -3.25E-05 uCi/Sa	Beta: 4.84E-04 uCi/Sa	
9 KLV4W-1-AE J8D230346-3-SAMP 04/23/2008 09:46			125.00g,in AmtRec: VIAL20,500MLP,6XLP	125.00g #Containers: 8			Scr:	Alpha: -1.11E-03 uCi/Sa	Beta: 1.20E-03 uCi/Sa	
10 KLV41-1-AE J8D230346-4-SAMP 04/23/2008 09:01			125.00g,in AmtRec: VIAL20,500MLP,6XLP	125.00g #Containers: 8			Scr:	Alpha: -1.65E-03 uCi/Sa	Beta: 2.13E-03 uCi/Sa	
11 KLW89-1-AE J8D240147-1-SAMP 04/23/2008 12:10			125.02g,in AmtRec: VIAL20,500MLP,6XLP	125.02g #Containers: 8			Scr:	Alpha: -1.59E-05 uCi/Sa	Beta: 1.97E-04 uCi/Sa	
12 KLW9G-1-AE J8D240147-2-SAMP 04/23/2008 11:10			125.01g,in AmtRec: VIAL20,500MLP,6XLP	125.01g #Containers: 8			Scr:	Alpha: 5.16E-04 uCi/Sa	Beta: -1.79E-05 uCi/Sa	
13 KLW9H-1-AE J8D240147-3-SAMP 04/23/2008 09:50			125.03g,in AmtRec: VIAL20,500MLP,6XLP	125.03g #Containers: 8			Scr:	Alpha: 2.49E-04 uCi/Sa	Beta: -6.63E-04 uCi/Sa	
14 KLW9M-1-AE J8D240147-4-SAMP 04/23/2008 13:00			125.03g,in AmtRec: VIAL20,500MLP,6XLP	125.03g #Containers: 8			Scr:	Alpha: -3.80E-04 uCi/Sa	Beta: 9.14E-04 uCi/Sa	

TESTAMERICA

5/8/2008 9:42:55 AM

Sample Preparation/Analysis

Balance Id:1120373922

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 06/06/2008

Sep1 DT/Tm Tech:

Batch: 8122174 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,Barcotl

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 KL053-1-AD J8D240360-1-SAMP 04/24/2008 10:23		AmtRec: VIAL20,500MLP,LP,2X4LP #Containers: 5	125.02g,in	125.02g		60		Scr:	Alpha: -3.14E-04 uCi/Sa	Beta: 2.59E-03 uCi/Sa
16 KMC8P-1-AA-B J8E010000-174-BLK 04/22/2008 09:04		AmtRec: #Containers: 1	125.01g,in	125.01g				Scr:	Alpha:	Beta:
17 KMC8P-1-AC-C J8E010000-174-LCS 04/22/2008 09:04		AmtRec: #Containers: 1	125.03g,in	125.03g	TCSE2234 04/11/08,pd 01/10/06,r			Scr:	Alpha:	Beta:
18 KMC8P-1-AD-BN J8E010000-174-IBLK 04/22/2008 09:04		AmtRec: #Containers: 1						Scr:	Alpha:	Beta:
19 KMC8P-1-AE-BN J8E010000-174-IBLK 04/22/2008 09:04		AmtRec: #Containers: 1						Scr:	Alpha:	Beta:

Comments:

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

KLTRA1AA-SAMP Constituent List:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20

5/8/2008 9:42:56 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 06/06/2008

Batch: 8122174 pCi/L
SEQ Batch, Test: None

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

KLV331AF-MS:

KMC8P1AA-BLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
KMC8P1AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
KMC8P1AD-IBLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
KMC8P1AE-IBLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:

KLTRA1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KLV331AF-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KMC8P1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KMC8P1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KMC8P1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KMC8P1AE-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TESTAMERICA

5/20/2008 9:37:46 AM

ICOC Fraction Transfer/Status Report

ByDate: 5/21/2007, 5/25/2008, Batch: '8122174', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8122174						
AC		Rev1C	Barcotl	5/8/2008 9:57:48 AM		
SC			wagarr	IsBatched	5/1/2008 3:27:27 PM	ICOC_RADCALC v4.8.32
SC			Barcotl	InPrep	5/8/2008 9:57:48 AM	RICH-RC-5016 REVISION 7
SC			Barcotl	Prep1C	5/8/2008 9:58:00 AM	RICH-RC-5016 REVISION 7
SC			Barcotl	InPrep2	5/16/2008 2:19:41 PM	RICH-RC-5065 REVISION 6
SC			Barcotl	Prep2C	5/16/2008 2:20:04 PM	RICH-RC-5065 REVISION 6
SC			ClarkR	InCnt1	5/16/2008 2:21:58 PM	RICH-RD-0001 REVISION 4
SC			ClarkR	CalcC	5/19/2008 11:06:40 AM	RICH-RD-0001 REVISION 4
SC			nortonj	Rev1C	5/20/2008 9:37:34 AM	RICH-RC-0002 REV 8
AC			Barcotl	5/8/2008 9:58:00 AM		
AC			Barcotl	5/16/2008 2:19:41 PM		
AC			Barcotl	5/16/2008 2:20:04 PM		
AC			ClarkR	5/16/2008 2:21:58 PM		
AC			ClarkR	5/19/2008 11:06:40		
AC			nortonj	5/20/2008 9:37:34		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Page 1

Grp Rec Cnt:7

ICOCFractions v4.8.33

TESTAMERICA

5/1/2008 3:20:37 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory .
Pacific Northwest National Lab

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

AnalyDueDate: 06/06/2008 W05380

Batch: 8122267 WATER pCi/L

PM, Quote: SS , 57671

SEQ Batch, Test: None

Balance Id: 2445
Pipet #:
Sep1 DT/Tm Tech: 5-7-08am
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 KLV33-1-AA J8D230346-1-SAMP 04/23/2008 11:16	AmtRec: VIAL20,500MLP,6XLP	#Containers: 8				Scr:	Alpha: 8.28E-04 uCi/Sa	Beta: 4.84E-04 uCi/Sa
2 KLV33-1-AH-X J8D230346-1-DUP 04/23/2008 11:16	AmtRec: VIAL20,500MLP,6XLP	#Containers: 8				Scr:	Alpha: 8.28E-04 uCi/Sa	Beta: 4.84E-04 uCi/Sa
3 KLV4N-1-AA J8D230346-2-SAMP 04/23/2008 10:26	AmtRec: VIAL20,500MLP,6XLP	#Containers: 8				Scr:	Alpha: -3.25E-05 uCi/Sa	Beta: 4.84E-04 uCi/Sa
4 KLV4W-1-AA J8D230346-3-SAMP 04/23/2008 09:46	AmtRec: VIAL20,500MLP,6XLP	#Containers: 8				Scr:	Alpha: -1.11E-03 uCi/Sa	Beta: 1.20E-03 uCi/Sa
5 KLV41-1-AA J8D230346-4-SAMP 04/23/2008 09:01	AmtRec: VIAL20,500MLP,6XLP	#Containers: 8				Scr:	Alpha: -1.65E-03 uCi/Sa	Beta: 2.13E-03 uCi/Sa
6 KLW89-1-AA J8D240147-1-SAMP 04/23/2008 12:10	AmtRec: VIAL20,500MLP,6XLP	#Containers: 8				Scr:	Alpha: -1.59E-05 uCi/Sa	Beta: 1.97E-04 uCi/Sa
7 KLW9G-1-AA J8D240147-2-SAMP 04/23/2008 11:10	AmtRec: VIAL20,500MLP,6XLP	#Containers: 8				Scr:	Alpha: 5.16E-04 uCi/Sa	Beta: -1.79E-05 uCi/Sa

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TESTAMERICA

5/1/2008 3:20:38 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 06/06/2008

Batch: 8122267 **WATER** **pCi/L** **PM, Quote: SS , 57671**
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 5-7-08 DW
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:
8 KLW9H-1-AA J8D240147-3-SAMP 04/23/2008 09:50	AmtRec: VIAL20,500MLP,6XLP	#Containers: 8				Scr:	Alpha: 2.49E-04 uCi/Sa	Beta: -6.63E-04 uCi/Sa
9 KLW9M-1-AA J8D240147-4-SAMP 04/23/2008 13:00	AmtRec: VIAL20,500MLP,6XLP	#Containers: 8				Scr:	Alpha: -3.80E-04 uCi/Sa	Beta: 9.14E-04 uCi/Sa
10 KL053-1-AA J8D240360-1-SAMP 04/24/2008 10:23	AmtRec: VIAL20,500MLP,LP,2X4LP	#Containers: 5				Scr:	Alpha: -3.14E-04 uCi/Sa	Beta: 2.59E-03 uCi/Sa
11 KMDKA-1-AA-B J8E010000-267-BLK 04/23/2008 11:16	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
12 KMDKA-1-AC-C J8E010000-267-LCS 04/23/2008 11:16	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
13 KMDKA-1-AD-B J8E010000-267-BLK 04/23/2008 11:16	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
14 KMDKA-1-AE-C J8E010000-267-LCS 04/23/2008 11:16	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

TEST AMERICA

5/1/2008 3:20:38 PM

Sample Preparation/Analysis

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

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 5-7-08 pm
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 06/06/2008

Batch: 8122267 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:
15 KMDKA-1-AF-B								
J8E010000-267-BLK								
04/23/2008 11:16		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
16 KMDKA-1-AG-B								
J8E010000-267-BLK								
04/23/2008 11:16		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
17 KMDKA-1-AH-B								
J8E010000-267-BLK								
04/23/2008 11:16		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

KLV331AA-SAMP Constituent List:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
KMDKA1AA-BLK:

KMDKA1AC-LCS:

KMDKA1AD-BLK:

KMDKA1AE-LCS:

KMDKA1AF-BLK:

KMDKA1AG-BLK:

TESTAMERICA

5/1/2008 3:20:38 PM

Sample Preparation/Analysis

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

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 5-7-08 am
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 06/06/2008

Batch: 8122267 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:

KMDKA1AH-BLK:

KLV331AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KMDKA1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KMDKA1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KMDKA1AD-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KMDKA1AE-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KMDKA1AF-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KMDKA1AG-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KMDKA1AH-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

5/20/2008 9:33:00 AM

ICOC Fraction Transfer/Status Report

ByDate: 5/21/2007, 5/25/2008, Batch: '8122267', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8122267						
AC		**Rev1C**	**McDowellD**	5/7/2008 10:59:18		
SC			wagarr	IsBatched	5/1/2008 3:27:27 PM	ICOC_RADCALC v4.8.32
SC			McDowellD	InSep1	5/7/2008 10:59:18 AM	RICH-RC-5007 REVISION 6
SC			McDowellD	Sep1C	5/9/2008 8:29:11 AM	RICH-RC-5007 REVISION 6
SC			BlackCL	InCnt1	5/9/2008 8:40:55 AM	RICH-RD-0001 REVISION 4
SC			ClarkR	InCnt1	5/9/2008 9:33:49 AM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	5/12/2008 6:25:35 AM	RICH-RD-0001 REVISION 4
SC			nortonj	Rev1C	5/20/2008 9:32:32 AM	RICH-RC-0002 REV 8
AC			**McDowellD**	5/9/2008 8:29:11 AM		
AC			**BlackCL**	5/9/2008 8:40:55 AM		
AC			**ClarkR**	5/9/2008 9:33:49 AM		
AC			**BlackCL**	5/12/2008 6:25:35		
AC			**nortonj**	5/20/2008 9:32:32		

AC: Accepting Entry, SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.33

TESTAMERICA

6/4/2008 2:09:34 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory .
Pacific Northwest National Lab

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

PRIORITY

AnalyDueDate: 06/23/2008 W05380

Batch: 8156360 WATER pCi/L PM, Quote: SS , 57671
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 6-5-08 a.m.
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 KLTNL-1-AD J8D230169-1-SAMP 04/22/2008 07:30	AmtRec: 250G,500G	#Containers: 2				Scr:	Alpha: -8.84E-08 uCi/Sa	Beta: -3.86E-08 uCi/Sa
2 KLTNL-1-AE-X J8D230169-1-DUP 04/22/2008 07:30	AmtRec: 250G,500G	#Containers: 2				Scr:	Alpha: -8.84E-08 uCi/Sa	Beta: -3.86E-08 uCi/Sa
3 KLTN0-1-AD J8D230169-2-SAMP 04/22/2008 09:39	AmtRec: 250G,500G	#Containers: 2				Scr:	Alpha: -1.02E-07 uCi/Sa	Beta: 8.56E-08 uCi/Sa
4 KLTRA-1-AE J8D230178-1-SAMP 04/22/2008 09:04	AmtRec: 250G,LP	#Containers: 2				Scr:	Alpha: -1.34E-07 uCi/Sa	Beta: 8.74E-08 uCi/Sa
5 KLTTJ-1-AF J8D230182-1-SAMP 04/22/2008 11:03	AmtRec: 250G,500MLP	#Containers: 2				Scr:	Alpha: -1.01E-07 uCi/Sa	Beta: 1.10E-07 uCi/Sa
6 KLTT6-1-AG J8D230182-2-SAMP 04/21/2008 09:55	AmtRec: 250G,500MLP,LP	#Containers: 3				Scr:	Alpha: -2.92E-07 uCi/Sa	Beta: 3.16E-07 uCi/Sa
7 KLTVF-1-AD J8D230182-3-SAMP 04/21/2008 09:04	AmtRec: 250G,500MLP	#Containers: 2				Scr:	Alpha: -1.23E-07 uCi/Sa	Beta: 1.19E-07 uCi/Sa

TESTAMERICA

6/4/2008 2:09:35 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory .
Pacific Northwest National Lab

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

PRIORITY

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 6-5-08am
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 06/23/2008

Batch: 8156360 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	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 KLTVM-1-AC J8D230182-4-SAMP 04/21/2008 11:57		AmtRec: 250G,LP	#Containers: 2			Scr:	Alpha: 3.47E-07 uCi/Sa	Beta: -1.47E-07 uCi/Sa
9 KLTVN-1-AC J8D230182-5-SAMP 04/21/2008 11:17		AmtRec: 250G,LP	#Containers: 2			Scr:	Alpha: 4.91E-08 uCi/Sa	Beta: 5.98E-08 uCi/Sa
10 KPDAF-1-AA-B J8F040000-360-BLK 04/22/2008 07:30		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
11 KPDAF-1-AC-C J8F040000-360-LCS 04/22/2008 07:30		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
12 KPDAF-1-AD-B J8F040000-360-BLK 04/22/2008 07:30		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
13 KPDAF-1-AE-C J8F040000-360-LCS 04/22/2008 07:30		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
14 KPDAF-1-AF-B J8F040000-360-BLK 04/22/2008 07:30		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

TESTAMERICA

6/4/2008 2:09:35 PM

Sample Preparation/Analysis

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

PRIORITY

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 6-5-08am
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 06/23/2008

Batch: 8156360 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:
15 KPDAF-1-AG-B								
J8F040000-360-BLK								
04/22/2008 07:30		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:
KLTNL-SAMP "Comments: Volume reduced due to ISV TGW 6/2/08"
KLTN0-SAMP "Comments Volume reduced due to ISV TGW 6/2/08"
KLTTJ-SAMP "Comments: dups reduced due to ISV. DLH 5/28/08"
KLTT6-SAMP "Comments: Used Tc99 sample to provide volume for sample and dup."
KLTVF-SAMP "Comments Volume reduced due to ISV TGW 6/2/08"

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

KLTNL1AD-SAMP Constituent List:
  H-3          RDL:1.00E+01    pCi/L     LCL:70      UCL:130     RPD:20
KPDAF1AA-BLK:

KPDAF1AC-LCS:

KPDAF1AD-BLK:

KPDAF1AE-LCS:

KPDAF1AF-BLK:

KPDAF1AG-BLK:

KLTNL1AD-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
KPDAF1AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
KPDAF1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
KPDAF1AD-BLK:
```

TESTAMERICA

6/4/2008 2:09:35 PM

Sample Preparation/Analysis

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

PRIORITY

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

AnalyDueDate: 06/23/2008

Batch: 8156360 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:

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

KPDAF1AE-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

KPDAF1AF-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

KPDAF1AG-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

6/11/2008 2:26:06 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/12/2007, 6/16/2008, Batch: '8156360', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8156360						
AC		Rev1C	**McDowellD**	6/5/2008 8:32:40 AM		
SC			wagarr	IsBatched	6/4/2008 2:10:11 PM	ICOC_RADCALC v4.8.32
SC			McDowellD	InSep1	6/5/2008 8:32:40 AM	RICH-RC-5007 REVISION 6
SC			McDowellD	Sep1C	6/5/2008 10:19:08 AM	RICH-RC-5007 REVISION 6
SC			BlackCL	InCnt1	6/5/2008 11:14:37 AM	RICH-RD-0001 REVISION 4
SC			DAWKINSO	CalcC	6/6/2008 8:04:12 PM	RICH-RD-0001 REVISION 4
SC			nortonj	Rev1C	6/11/2008 2:25:51 PM	RICH-RC-0002 REV 8
AC			**McDowellD**	6/5/2008 10:19:08		
AC			**McDowellD**	6/5/2008 11:10:30		
AC			**BlackCL**	6/5/2008 11:14:37		
AC			**DAWKINSO**	6/6/2008 8:04:12 PM		
AC			**nortonj**	6/11/2008 2:25:51 PM		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Page 1

Grp Rec Cnt:6

ICOCFractions v4.8.33

TESTAMERICA

5/1/2008 3:20:36 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 06/06/2008 W05380

5S C-14 Prp/SepRC5022
S3 Carbon-14 by Liquid Scint
5I CLIENT: HANFORD

Batch: 8122265 **WATER** **pCi/L** **PM, Quote: SS , 57671**
SEQ Batch, Test: None

Balance Id: N/A
Pipet #:
Sep1 DT/Tm Tech: 5-28 08 am
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 KLV33-1-AC J8D230346-1-SAMP 04/23/2008 11:16	AmtRec: VIAL20,500MLP,6XLP	#Containers: 8				Scr:	Alpha: 8.28E-04 uCi/Sa	Beta: 4.84E-04 uCi/Sa
2 KLV33-1-AG-X J8D230346-1-DUP 04/23/2008 11:16	AmtRec: VIAL20,500MLP,6XLP	#Containers: 8				Scr:	Alpha: 8.28E-04 uCi/Sa	Beta: 4.84E-04 uCi/Sa
3 KLV4N-1-AC J8D230346-2-SAMP 04/23/2008 10:26	AmtRec: VIAL20,500MLP,6XLP	#Containers: 8				Scr:	Alpha: -3.25E-05 uCi/Sa	Beta: 4.84E-04 uCi/Sa
4 KLV4W-1-AC J8D230346-3-SAMP 04/23/2008 09:46	AmtRec: VIAL20,500MLP,6XLP	#Containers: 8				Scr:	Alpha: -1.11E-03 uCi/Sa	Beta: 1.20E-03 uCi/Sa
5 KLV41-1-AC J8D230346-4-SAMP 04/23/2008 09:01	AmtRec: VIAL20,500MLP,6XLP	#Containers: 8				Scr:	Alpha: -1.65E-03 uCi/Sa	Beta: 2.13E-03 uCi/Sa
6 KLW89-1-AC J8D240147-1-SAMP 04/23/2008 12:10	AmtRec: VIAL20,500MLP,6XLP	#Containers: 8				Scr:	Alpha: -1.59E-05 uCi/Sa	Beta: 1.97E-04 uCi/Sa
7 KLW9G-1-AC J8D240147-2-SAMP 04/23/2008 11:10	AmtRec: VIAL20,500MLP,6XLP	#Containers: 8				Scr:	Alpha: 5.16E-04 uCi/Sa	Beta: -1.79E-05 uCi/Sa

TESTAMERICA

5/1/2008 3:20:37 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

5S C-14 Prp/SepRC5022
S3 Carbon-14 by Liquid Scint
5I CLIENT: HANFORD

AnalyDueDate: 06/06/2008

Batch: 8122265 **WATER** **pCi/L** **PM, Quote: SS , 57671**
SEQ Batch, Test: None

Balance Id: N/A
Pipet #:
Sep1 DT/Tm Tech: 5-28-08 am
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:
8 KLW9H-1-AC								
J8D240147-3-SAMP								
04/23/2008 09:50		AmtRec: VIAL20,500MLP,6XLP	#Containers: 8			Scr:	Alpha: 2.49E-04 uCi/Sa	Beta: -6.63E-04 uCi/Sa
9 KLW9M-1-AC								
J8D240147-4-SAMP								
04/23/2008 13:00		AmtRec: VIAL20,500MLP,6XLP	#Containers: 8			Scr:	Alpha: -3.80E-04 uCi/Sa	Beta: 9.14E-04 uCi/Sa
10 KMDJ3-1-AA-B								
J8E010000-265-BLK								
04/23/2008 11:16		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
11 KMDJ3-1-AC-C								
J8E010000-265-LCS								
04/23/2008 11:16		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
12 KMDJ3-1-AD-B								
J8E010000-265-BLK								
04/23/2008 11:16		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

KLV331AC-SAMP Constituent List:
C-14 RDL:2.00E+02 pCi/L LCL:70 UCL:130 RPD:20

6/3/2008 7:49:46 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/4/2007, 6/8/2008, Batch: '8122265', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8122265						
AC		**Rev1C**	**McDowellD**	5/28/2008 11:01:00		
SC			wagarr	IsBatched	5/1/2008 3:27:27 PM	ICOC_RADCALC v4.8.32
SC			McDowellD	InSep1	5/28/2008 11:01:00 AM	RICH-RC-5022 REVISION 3
SC			McDowellD	Sep1C	5/29/2008 4:00:26 PM	RICH-RC-5022 REVISION 3
SC			DAWKINSO	InCnt1	5/29/2008 4:10:31 PM	RICH-RD-0001 REVISION 4
SC			ClarkR	CalcC	5/31/2008 8:59:22 AM	RICH-RD-0001 REVISION 4
SC			nortonj	Rev1C	6/3/2008 7:49:28 AM	RICH-RC-0002 REV 8
AC			**McDowellD**	5/29/2008 4:00:26 PM		
AC			**DAWKINSO**	5/29/2008 4:10:31 PM		
AC			**ClarkR**	5/31/2008 8:59:22		
AC			**nortonj**	6/3/2008 7:49:28 AM		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 5

ICOCFractions v4.8.33