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: 39445

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05411	S08-005	B1V7R8	J8E140118-1	KM5X81AA	9KM5X810	8141512
		B1V7R8	J8E140118-1	KM5X81AC	9KM5X810	8141514
		B1V7T7	J8E140118-10	KM50R1AA	9KM50R10	8141514
	S08-005	B1V7R6	J8E140118-2	KM5X91AA	9KM5X910	8141512
		B1V7R6	J8E140118-2	KM5X91AC	9KM5X910	8141514
		B1V7T1	J8E140118-3	KM50A1AA	9KM50A10	8141512
		B1V7T1	J8E140118-3	KM50A1AC	9KM50A10	8141514
		B1V7N4	J8E140118-4	KM50E1AA	9KM50E10	8141518
		B1V7N1	J8E140118-5	KM50F1AA	9KM50F10	8141518
		B1V7T8	J8E140118-6	KM50H1AA	9KM50H10	8141512
		B1V7T9	J8E140118-7	KM50J1AA	9KM50J10	8141512
		B1V7M5	J8E140118-8	KM50M1AA	9KM50M10	8141514
		B1V7T4	J8E140118-9	KM50P1AA	9KM50P10	8141514
	W08-005	B1V812	J8E140359-1	KM72W1AA	9KM72W10	8141512
		B1V812	J8E140359-1	KM72W1AC	9KM72W10	8141514

RECEIVED
JAN 14 2009
EDMC

Comments:

RECEIVED AUGUST 19, 2008

REVISION 1

0079829

Report Nbr: 39445

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05411	W08-005	B1V816	J8E140359-2	KM7291AA	9KM72910	8141512
		B1V816	J8E140359-2	KM7291AC	9KM72910	8141514
		B1V816	J8E140359-2	KM7291AD	9KM72910	8141516
		B1V823	J8E140359-3	KM73L1AA	9KM73L10	8141514
	I08-035	B1V5B9	J8E150338-1	KNAKN1AA	9KNAKN10	8136631
	S08-004	B1TWK9	J8E200125-1	KNHCL1AA	9KNHCL10	8141509
		B1TWK9	J8E200125-1	KNHCL1AC	9KNHCL10	8141511
		B1TWK9	J8E200125-1	KNHCL1AD	9KNHCL10	8141512
		B1TWK9	J8E200125-1	KNHCL1AE	9KNHCL10	8141514
		B1V2J7	J8E200129-1	KNHDP1AA	9KNHDP10	8141332
		B1V2K3	J8E200129-2	KNHDW1AA	9KNHDW10	8141509
		B1V2K3	J8E200129-2	KNHDW1AC	9KNHDW10	8141511
		B1V2K3	J8E200129-2	KNHDW1AE	9KNHDW10	8141515
		B1V2K3	J8E200129-2	KNHDW1A	9KNHDW10	8141517
		B1V2K3	J8E200129-2	KNHDW1A	9KNHDW10	8141508
		B1V2K3	J8E200129-2	KNHDW2AD	9KNHDW20	8141513
		B1V2K3	J8E200129-2	KNHDW2AF	9KNHDW20	8141507
	I08-038	B1V6N1	J8E200132-1	KNHD41AA	9KNHD410	8141514
		B1V6N2	J8E200132-2	KNHD71AA	9KNHD710	8141514

Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

August 18, 2008

Attention: Steve Trent

SAF Number	:	S08-005, W08-005, I08-035, I08-037, S08-004, I08-036
Date SDG Closed	:	May 16, 2008
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05411
Data Deliverable	:	45-Day / Summary

AMENDED CASE NARRATIVE

I. Introduction

Between May 13, 2008 and May 16, 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
B1V7R8	KM5X8	5/13/08	WATER
B1V7R6	KM5X9	5/13/08	WATER
B1V7T1	KM50A	5/13/08	WATER
B1V7N4	KM50E	5/13/08	WATER
B1V7N1	KM50F	5/13/08	WATER
B1V7T8	KM50H	5/13/08	WATER
B1V7T9	KM50J	5/13/08	WATER
B1V7M5	KM50M	5/13/08	WATER
B1V7T4	KM50P	5/13/08	WATER
B1V7T7	KM50R	5/13/08	WATER
B1V812	KM72W	5/14/08	WATER
B1V816	KM729	5/14/08	WATER
B1V823	KM73L	5/14/08	WATER

B1V5B9	KNAKN	5/15/08	WATER
B1V676	KNHA7	5/16/08	WATER
B1TWK9	KNHCL	5/16/08	WATER
B1V2J7	KNHDP	5/16/08	WATER
B1V2K3	KNHDW	5/16/08	WATER
B1V6N1	KNHD4	5/16/08	WATER
B1V6N2	KNHD7	5/16/08	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:

Alpha Spectroscopy
Plutonium-238, -239/240 by method RICH-RC-5010
Gas Proportional Counting
Gross Alpha by method RICH-RC-5014
Gross Beta by method RICH-RC-5014
Gamma Spectroscopy
Gamma Spec (LL) by method RICH-RC-5017
Gamma Spec by method RICH-RC-5017
Iodine-129 by method RICH-RC-5025
Iodine-129 (LL) by method RICH-RC-5025
Liquid Scintillation Counting
Technetium-99 by TEVA method RICH-RC-5065
Technetium-99 by method RICH-RC-5078
Nickel-63 by method RICH-RC-5069
Laser Induced Phosphorimetry
Total Uranium by method RICH-RC-5058
Chemical Analysis
Hexavalent Chromium by EPA method 7196A

IV. Quality Control

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

QC and sample results are reported in the same units.

V. Comments

Alpha Spectroscopy

Plutonium-238, -239/240 by method RICH-RC-5010:

The sample (B1V2K3) spectrum showed evidence of smearing. Sample was stripped off disk and passed through the column again. Data is accepted. Except as noted; The LCS, batch blank, sample and sample duplicate (J13J10) results are within contractual requirements.

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:

Samples B1TWK9 and B1TWK9 DUP were analyzed with reduced aliquots based on weight screens. Except as noted, the LCS, batch blank, samples and sample duplicate (B1TWK9) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:

Samples B1TWK9 was analyzed with reduced aliquots based on weight screens. Except as noted, the LCS, batch blank, samples and sample duplicate (B1TWK9) results are within contractual requirements.

Gamma Spectroscopy

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

There was insufficient volume for a duplicate. Sample B1V7T8 was recounted on a different detector for the duplicate (B1V7T8 DUP). Except as noted, the LCS, batch blank, samples and sample duplicate (B1V7T8) results are within contractual requirements.

Gamma Spec by method RICH-RC-5017:

The batch was recounted for a longer period of time to meet the CRDL. Data is accepted. Except as noted, the LCS, batch blank, sample and sample duplicate (B1V2K3) results are within contractual requirements.

Iodine-129 by method RICH-RC-5025:

The LCS, batch blank, sample and sample duplicate (B1V2K3) results are within contractual requirements.

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

The entire batch had to be re-started due to a hotplate failure in the preparation laboratory. There was insufficient volume remaining to re-aliquot sample B1V676. Except as noted, the LCS, batch blank, samples and sample duplicate (B1V7T7) results are within contractual requirements.

Liquid Scintillation Counting

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

The LCS, batch blank, sample, sample duplicate (B1V2K3), and sample matrix spike (B1V2K3) results are within contractual requirements.

Technetium-99 by method RICH-RC-5078:

The LCS, batch blank, samples, sample duplicate (B1V7N4), and sample matrix spike (B1V7N1) results are within contractual requirements.

Nickel-63 by method RICH-RC-5069:
The activity detected in the batch blank was greater than the CRDL. The batch was re-counted to confirm the original results. The activity detected in the samples was greater than five times the RDL. The blank is acceptable according Exhibit III, section 3.3.0 which states the following:

> Positive blank results in excess of the RDL (2 X RDL) or 5 times the MDA indicate that all samples associated with that blank may be suspect. The seller shall make reasonable efforts (e.g., reanalysis/ recount of the affected samples) to minimize reporting of suspect data. If any samples associated with the blank have results greater than five times the blank, reruns for these sample are not required.

Except as noted, the LCS, batch blank, sample and sample duplicate (B1V816) results are within contractual requirements.

The result for the NI63_LSC method blank is more than two times greater than the MDA. The associated sample result, however, was not qualified with a "B" (Problems and Discrepancies SDG W05411). The "B" qualifier was added to the result for sample B1V816. The error was corrected and re-reported.

Total Uranium
Total Uranium by method RICH-RC-5058:
The LCS, batch blank, sample, sample duplicate (B1V2K3), and sample matrix spike (B1V2K3) results are within contractual requirements.

Chemical Analysis
Hexavalent Chromium by EPA method 7196A

Batch 8136631
The LCS, batch blank, sample, sample duplicate (B1V5B9), sample matrix spike (B1V5B9), and matrix spike duplicate (B1V5B9) results are within contractual requirements.

Batch 8141332
The LCS, batch blank, sample, sample duplicate (B1V2J7), sample matrix spike (B1V2J7), and matrix spike duplicate (B1V2J7) results are within contractual requirements.

The QC result for sample B1V2J7 method 7196_CR6 was submitted without a QC type (Problems and Discrepancies SDG W05411). The error was corrected and re-reported.

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.

Fluor Hanford
August 18, 2008

Reviewed and approved:

Sandra Seger
Project Manager

Wagar, Rhonda

From: Widrig, Dana L [Dana_L_Widrig@RL.gov]

Sent: Friday, August 08, 2008 2:55 PM

To: Jordan, Erika; Seger, Sandra; Wagar, Rhonda; Trent, Stephen J; Felmy, Diana; Ayres, Doris E; Sumner, Laine C; ^CPP Sample Management; Hampt, Heidi

Subject: P&DW05411.doc

Attachments: P&DW05411.doc

Erika,

Attached find a Problems and Discrepancies (P&D) report for SDG W05411. Please include a copy of this P&D with your response and reference it in your reponse. Please attach any hardcopy response to the end of your narrative in your new data package. Please have your response and corrections to us by the end of next week.

Thanks,

Dana L. Widrig
Sample Management Project Coordinator
Fluor Hanford - Soil & Groundwater Remediation Project
Ph: (509) 376-2858
Cell: (509) 392-2297

Problems and Discrepancies

7/17/08

SDG W05411

1. The result for the NI63_LSC method blank is more than two times greater than the MDA. The associated sample result, however, was not qualified with a "B". Please add the "B" qualifier to the result for sample B1V816 and submit the corrected data in hardcopy and electronic form with an action code of "R".

2. A QC result for sample B1V2J7 method 7196_CR6 was submitted without a QC type. Please fill in the QC type and resubmit in electronic form.

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.

8/19/2008 11:05:24 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 39445 File Name: h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.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:
9KM50A10	B1V7T1		MW6-SBB-A1	S08-005	W05411					05/12/2008 09:16

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141512	BE-7	13966-02-4	-1.54E+00	pCi/L	1.8E+01	1.8E+01	U	3.19E+01		GAMMALL_GS	2.0001E+00	L	06/16/2008 09:51	I
8141512	CO-60	10198-40-0	9.90E-01	pCi/L	2.2E+00	2.2E+00	U	4.16E+00		GAMMALL_GS	2.0001E+00	L	06/16/2008 09:51	I
8141512	CS-134	13967-70-9	-1.12E-01	pCi/L	2.1E+00	2.1E+00	U	3.67E+00		GAMMALL_GS	2.0001E+00	L	06/16/2008 09:51	I
8141512	CS-137	10045-97-3	-3.23E-01	pCi/L	1.6E+00	1.6E+00	U	2.83E+00		GAMMALL_GS	2.0001E+00	L	06/16/2008 09:51	I
8141512	EU-152	14683-23-9	1.17E+00	pCi/L	4.0E+00	4.0E+00	U	7.02E+00		GAMMALL_GS	2.0001E+00	L	06/16/2008 09:51	I
8141512	EU-154	15585-10-1	-4.24E+00	pCi/L	5.4E+00	5.4E+00	U	8.85E+00		GAMMALL_GS	2.0001E+00	L	06/16/2008 09:51	I
8141512	EU-155	14391-16-3	1.78E+00	pCi/L	2.7E+00	2.7E+00	U	5.02E+00		GAMMALL_GS	2.0001E+00	L	06/16/2008 09:51	I
8141512	K-40	13966-00-2	-2.70E+01	pCi/L	3.6E+01	3.6E+01	U	7.22E+01		GAMMALL_GS	2.0001E+00	L	06/16/2008 09:51	I
8141512	RU-106	13967-48-1	-2.31E+00	pCi/L	1.7E+01	1.7E+01	U	2.89E+01		GAMMALL_GS	2.0001E+00	L	06/16/2008 09:51	I
8141512	SB-125	14234-35-6	3.10E+00	pCi/L	4.2E+00	4.2E+00	U	7.66E+00		GAMMALL_GS	2.0001E+00	L	06/16/2008 09:51	I
8141514	I-129L	15046-84-1	4.17E+00	pCi/L	7.0E-01	7.0E-01		3.36E-01	94.6	I129LL_SEP_LEPS	3.9048E+00	L	06/26/2008 11:07	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:
9KM50E10	B1V7N4		MW6-SBB-A1	S08-005	W05411					05/12/2008 10:39

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141518	TC-99	14133-76-7	1.72E+02	pCi/L	8.3E+00	1.6E+01		1.02E+01	100.0	TC99_SEP_LSC	1.25E-01	L	06/12/2008 15:48	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:
9KM50F10	B1V7N1		MW6-SBB-A1	S08-005	W05411					05/12/2008 11:20

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141518	TC-99	14133-76-7	3.19E+02	pCi/L	1.1E+01	2.5E+01		1.02E+01	100.0	TC99_SEP_LSC	1.25E-01	L	06/12/2008 17:53	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:
9KM50H10	B1V7T8		MW6-SBB-A1	S08-005	W05411					05/12/2008 12:16

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141512	BE-7	13966-02-4	-5.47E+00	pCi/L	1.7E+01	1.7E+01	U	3.00E+01		GAMMALL_GS	1.9997E+00	L	06/16/2008 09:52	I
8141512	CO-60	10198-40-0	4.08E+01	pCi/L	7.6E+00	7.6E+00		3.54E+00		GAMMALL_GS	1.9997E+00	L	06/16/2008 09:52	I
8141512	CS-134	13967-70-9	9.68E-01	pCi/L	2.0E+00	2.0E+00	U	3.80E+00		GAMMALL_GS	1.9997E+00	L	06/16/2008 09:52	I
8141512	CS-137	10045-97-3	-5.01E-01	pCi/L	1.8E+00	1.8E+00	U	3.21E+00		GAMMALL_GS	1.9997E+00	L	06/16/2008 09:52	I
8141512	EU-152	14683-23-9	2.06E+00	pCi/L	3.9E+00	3.9E+00	U	7.15E+00		GAMMALL_GS	1.9997E+00	L	06/16/2008 09:52	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.

/

8141512	EU-154	15585-10-1	2.68E+00	pCi/L	4.9E+00	4.9E+00	U	9.93E+00		GAMMALL_GS	1.9997E+00	L	06/16/2008	09:52	I
8141512	EU-155	14391-16-3	3.76E+00	pCi/L	3.3E+00	3.3E+00	U	6.00E+00		GAMMALL_GS	1.9997E+00	L	06/16/2008	09:52	I
8141512	K-40	13966-00-2	2.10E+01	pCi/L	3.1E+01	3.1E+01	U	1.78E+01		GAMMALL_GS	1.9997E+00	L	06/16/2008	09:52	I
8141512	RU-106	13967-48-1	3.14E+00	pCi/L	1.5E+01	1.5E+01	U	2.71E+01		GAMMALL_GS	1.9997E+00	L	06/16/2008	09:52	I
8141512	SB-125	14234-35-6	7.78E-01	pCi/L	3.7E+00	3.7E+00	U	6.85E+00		GAMMALL_GS	1.9997E+00	L	06/16/2008	09:52	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:
9KM50J10	B1V7T9		MW6-SBB-A1	S08-005	W05411					05/12/2008 12:16

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141512	BE-7	13966-02-4	3.01E+00	pCi/L	1.5E+01	1.5E+01	U	2.73E+01		GAMMALL_GS	2.00E+00	L	06/16/2008 09:52	I
8141512	CO-60	10198-40-0	3.60E+01	pCi/L	6.0E+00	6.0E+00		2.76E+00		GAMMALL_GS	2.00E+00	L	06/16/2008 09:52	I
8141512	CS-134	13967-70-9	5.87E-01	pCi/L	1.6E+00	1.6E+00	U	2.87E+00		GAMMALL_GS	2.00E+00	L	06/16/2008 09:52	I
8141512	CS-137	10045-97-3	4.92E-01	pCi/L	1.4E+00	1.4E+00	U	2.60E+00		GAMMALL_GS	2.00E+00	L	06/16/2008 09:52	I
8141512	EU-152	14683-23-9	-3.29E+00	pCi/L	3.8E+00	3.8E+00	U	6.25E+00		GAMMALL_GS	2.00E+00	L	06/16/2008 09:52	I
8141512	EU-154	15585-10-1	-4.51E-01	pCi/L	4.0E+00	4.0E+00	U	7.23E+00		GAMMALL_GS	2.00E+00	L	06/16/2008 09:52	I
8141512	EU-155	14391-16-3	2.46E+00	pCi/L	3.6E+00	3.6E+00	U	6.37E+00		GAMMALL_GS	2.00E+00	L	06/16/2008 09:52	I
8141512	K-40	13966-00-2	8.37E-02	pCi/L	2.4E+01	2.4E+01	U	2.15E+01		GAMMALL_GS	2.00E+00	L	06/16/2008 09:52	I
8141512	RU-106	13967-48-1	-2.00E+00	pCi/L	1.5E+01	1.5E+01	U	2.54E+01		GAMMALL_GS	2.00E+00	L	06/16/2008 09:52	I
8141512	SB-125	14234-35-6	-3.32E-01	pCi/L	3.6E+00	3.6E+00	U	6.29E+00		GAMMALL_GS	2.00E+00	L	06/16/2008 09:52	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:
9KM50M10	B1V7M5		MW6-SBB-A1	S08-005	W05411					05/12/2008 12:51

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141514	I-129L	15046-84-1	3.53E+00	pCi/L	6.9E-01	6.9E-01		3.04E-01	96.2	I129LL_SEP_LEPS	3.8703E+00	L	06/26/2008 12:51	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:
9KM50P10	B1V7T4		MW6-SBB-A1	S08-005	W05411					05/12/2008 10:09

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141514	I-129L	15046-84-1	3.93E+00	pCi/L	6.5E-01	6.5E-01		3.63E-01	97.8	I129LL_SEP_LEPS	3.8936E+00	L	06/26/2008 12:52	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:
9KM50R10	B1V7T7		MW6-SBB-A1		W05411					05/12/2008 10:56

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141514	I-129L	15046-84-1	4.36E+00	pCi/L	6.4E-01	6.4E-01		3.28E-01	95.7	I129LL_SEP_LEPS	3.8768E+00	L	06/26/2008 12:53	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.

8/19/2008 11:05:24 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 39445 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.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:
9KM5X810	B1V7R8		MW6-SBB-A1	S08-005	W05411					05/12/2008 11:08

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141512	BE-7	13966-02-4	9.39E+00	pCi/L	1.7E+01	1.7E+01	U	3.20E+01		GAMMALL_GS	2.00E+00	L	06/16/2008 09:50	I
8141512	CO-60	10198-40-0	4.27E+00	pCi/L	2.2E+00	2.2E+00	U	4.83E+00		GAMMALL_GS	2.00E+00	L	06/16/2008 09:50	I
8141512	CS-134	13967-70-9	-3.47E-01	pCi/L	1.8E+00	1.8E+00	U	3.18E+00		GAMMALL_GS	2.00E+00	L	06/16/2008 09:50	I
8141512	CS-137	10045-97-3	2.70E-01	pCi/L	1.6E+00	1.6E+00	U	2.93E+00		GAMMALL_GS	2.00E+00	L	06/16/2008 09:50	I
8141512	EU-152	14683-23-9	4.56E-01	pCi/L	4.1E+00	4.1E+00	U	7.19E+00		GAMMALL_GS	2.00E+00	L	06/16/2008 09:50	I
8141512	EU-154	15585-10-1	1.56E+00	pCi/L	3.3E+00	3.3E+00	U	7.07E+00		GAMMALL_GS	2.00E+00	L	06/16/2008 09:50	I
8141512	EU-155	14391-16-3	7.58E-02	pCi/L	3.1E+00	3.1E+00	U	5.38E+00		GAMMALL_GS	2.00E+00	L	06/16/2008 09:50	I
8141512	K-40	13966-00-2	1.02E+01	pCi/L	3.5E+01	3.5E+01	U	7.39E+01		GAMMALL_GS	2.00E+00	L	06/16/2008 09:50	I
8141512	RU-106	13967-48-1	-9.70E+00	pCi/L	1.4E+01	1.4E+01	U	2.44E+01		GAMMALL_GS	2.00E+00	L	06/16/2008 09:50	I
8141512	SB-125	14234-35-6	3.91E-03	pCi/L	3.7E+00	3.7E+00	U	6.57E+00		GAMMALL_GS	2.00E+00	L	06/16/2008 09:50	I
8141514	I-129L	15046-84-1	7.68E-01	pCi/L	3.6E-01	3.6E-01	U	5.06E-01	90.5	I129LL_SEP_LEPS	3.767E+00	L	06/26/2008 11:05	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:
9KM5X910	B1V7R6		MW6-SBB-A1	S08-005	W05411					05/12/2008 09:44

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141512	BE-7	13966-02-4	1.45E+01	pCi/L	2.3E+01	2.3E+01	U	4.08E+01		GAMMALL_GS	2.0005E+00	L	06/16/2008 09:50	I
8141512	CO-60	10198-40-0	5.96E+01	pCi/L	9.9E+00	9.9E+00		3.39E+00		GAMMALL_GS	2.0005E+00	L	06/16/2008 09:50	I
8141512	CS-134	13967-70-9	-6.57E-01	pCi/L	2.3E+00	2.3E+00	U	4.01E+00		GAMMALL_GS	2.0005E+00	L	06/16/2008 09:50	I
8141512	CS-137	10045-97-3	-2.12E+00	pCi/L	2.0E+00	2.0E+00	U	3.20E+00		GAMMALL_GS	2.0005E+00	L	06/16/2008 09:50	I
8141512	EU-152	14683-23-9	8.28E-01	pCi/L	5.1E+00	5.1E+00	U	8.90E+00		GAMMALL_GS	2.0005E+00	L	06/16/2008 09:50	I
8141512	EU-154	15585-10-1	6.80E-01	pCi/L	5.4E+00	5.4E+00	U	1.01E+01		GAMMALL_GS	2.0005E+00	L	06/16/2008 09:50	I
8141512	EU-155	14391-16-3	1.04E+00	pCi/L	3.6E+00	3.6E+00	U	6.26E+00		GAMMALL_GS	2.0005E+00	L	06/16/2008 09:50	I
8141512	K-40	13966-00-2	6.82E-01	pCi/L	4.2E+01	4.2E+01	U	3.44E+01		GAMMALL_GS	2.0005E+00	L	06/16/2008 09:50	I
8141512	RU-106	13967-48-1	-1.05E+01	pCi/L	1.8E+01	1.8E+01	U	3.07E+01		GAMMALL_GS	2.0005E+00	L	06/16/2008 09:50	I
8141512	SB-125	14234-35-6	-3.25E+00	pCi/L	4.9E+00	4.9E+00	U	7.99E+00		GAMMALL_GS	2.0005E+00	L	06/16/2008 09:50	I
8141514	I-129L	15046-84-1	5.09E+00	pCi/L	7.8E-01	7.8E-01		3.43E-01	94.6	I129LL_SEP_LEPS	3.8101E+00	L	06/26/2008 11:06	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:
9KM72910	B1V816		MW6-SBB-A1	W08-005	W05411					05/13/2008 10:24

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.

8/19/2008 11:05:24 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 39445 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141512	BE-7	13966-02-4	-9.62E+00	pCi/L	1.7E+01	1.7E+01	U	2.78E+01		GAMMALL_GS	2.0003E+00	L	06/16/2008 09:52	I
8141512	CO-60	10198-40-0	4.23E+00	pCi/L	2.3E+00	2.3E+00	U	4.51E+00		GAMMALL_GS	2.0003E+00	L	06/16/2008 09:52	I
8141512	CS-134	13967-70-9	8.88E-01	pCi/L	1.8E+00	1.8E+00	U	3.38E+00		GAMMALL_GS	2.0003E+00	L	06/16/2008 09:52	I
8141512	CS-137	10045-97-3	1.13E+00	pCi/L	1.6E+00	1.6E+00	U	2.92E+00		GAMMALL_GS	2.0003E+00	L	06/16/2008 09:52	I
8141512	EU-152	14683-23-9	5.53E-01	pCi/L	4.3E+00	4.3E+00	U	7.32E+00		GAMMALL_GS	2.0003E+00	L	06/16/2008 09:52	I
8141512	EU-154	15585-10-1	-3.00E+00	pCi/L	5.3E+00	5.3E+00	U	8.76E+00		GAMMALL_GS	2.0003E+00	L	06/16/2008 09:52	I
8141512	EU-155	14391-16-3	7.62E-01	pCi/L	3.9E+00	3.9E+00	U	6.79E+00		GAMMALL_GS	2.0003E+00	L	06/16/2008 09:52	I
8141512	K-40	13966-00-2	4.13E+00	pCi/L	5.5E+01	5.5E+01	U	2.16E+01		GAMMALL_GS	2.0003E+00	L	06/16/2008 09:52	I
8141512	RU-106	13967-48-1	-7.28E-01	pCi/L	1.4E+01	1.4E+01	U	2.51E+01		GAMMALL_GS	2.0003E+00	L	06/16/2008 09:52	I
8141512	SB-125	14234-35-6	2.44E+00	pCi/L	4.0E+00	4.0E+00	U	7.26E+00		GAMMALL_GS	2.0003E+00	L	06/16/2008 09:52	I
8141514	I-129L	15046-84-1	3.76E+01	pCi/L	4.0E+00	4.0E+00		6.46E-01	95.9	I129LL_SEP_LEPS	3.861E+00	L	06/26/2008 14:36	I
8141516	NI-63	13981-37-8	1.29E+03	pCi/L	1.1E+01	7.5E+01	B	3.87E+00	86.2	NI63_LSC	4.00E-01	L	06/14/2008 17:54	R

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KM72W10	B1V812		MW6-SBB-A1	W08-005	W05411					05/13/2008 09:26

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141512	BE-7	13966-02-4	-5.23E+00	pCi/L	1.0E+01	1.0E+01	U	1.69E+01		GAMMALL_GS	2.00E+00	L	06/16/2008 09:52	I
8141512	CO-60	10198-40-0	8.89E-01	pCi/L	1.4E+00	1.4E+00	U	2.78E+00		GAMMALL_GS	2.00E+00	L	06/16/2008 09:52	I
8141512	CS-134	13967-70-9	2.54E-01	pCi/L	1.2E+00	1.2E+00	U	2.22E+00		GAMMALL_GS	2.00E+00	L	06/16/2008 09:52	I
8141512	CS-137	10045-97-3	1.46E+00	pCi/L	1.2E+00	1.2E+00	U	2.28E+00		GAMMALL_GS	2.00E+00	L	06/16/2008 09:52	I
8141512	EU-152	14683-23-9	2.26E+00	pCi/L	2.9E+00	2.9E+00	U	5.28E+00		GAMMALL_GS	2.00E+00	L	06/16/2008 09:52	I
8141512	EU-154	15585-10-1	2.47E+00	pCi/L	3.2E+00	3.2E+00	U	6.55E+00		GAMMALL_GS	2.00E+00	L	06/16/2008 09:52	I
8141512	EU-155	14391-16-3	5.41E-01	pCi/L	2.2E+00	2.2E+00	U	3.94E+00		GAMMALL_GS	2.00E+00	L	06/16/2008 09:52	I
8141512	K-40	13966-00-2	-1.81E+01	pCi/L	2.4E+01	2.4E+01	U	4.52E+01		GAMMALL_GS	2.00E+00	L	06/16/2008 09:52	I
8141512	RU-106	13967-48-1	1.55E+00	pCi/L	9.3E+00	9.3E+00	U	1.70E+01		GAMMALL_GS	2.00E+00	L	06/16/2008 09:52	I
8141512	SB-125	14234-35-6	-1.97E+00	pCi/L	2.4E+00	2.4E+00	U	3.95E+00		GAMMALL_GS	2.00E+00	L	06/16/2008 09:52	I
8141514	I-129L	15046-84-1	1.47E+01	pCi/L	1.8E+00	1.8E+00		3.91E-01	94.6	I129LL_SEP_LEPS	3.8929E+00	L	06/26/2008 14:36	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:
9KM73L10	B1V823		MW6-SBB-A1	W08-005	W05411					05/13/2008 11:48

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141514	I-129L	15046-84-1	4.76E+00	pCi/L	7.2E-01	7.2E-01		3.58E-01	94.9	I129LL_SEP_LEPS	3.8177E+00	L	06/26/2008 16:27	I

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

8/19/2008 11:05:24 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 39445 File Name: h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.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:
9KNHCL10	B1TWK9		MW6-SBB-A1	S08-004	W05411					05/15/2008 09:22

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141509	ALPHA	12587-46-1	3.72E+00	pCi/L	1.7E+00	1.9E+00		1.76E+00	100.0	9310_ALPHABETA	1.163E-01	L	06/17/2008 10:28	I
8141511	BETA	12587-47-2	5.64E+02	pCi/L	1.2E+01	7.1E+01		3.65E+00	100.0	9310_ALPHABETA	1.694E-01	L	06/17/2008 10:24	I
8141512	BE-7	13966-02-4	8.09E+00	pCi/L	2.3E+01	2.3E+01	U	4.05E+01		GAMMALL_GS	2.0004E+00	L	06/16/2008 09:53	I
8141512	CO-60	10198-40-0	9.91E+00	pCi/L	3.8E+00	3.8E+00		3.83E+00		GAMMALL_GS	2.0004E+00	L	06/16/2008 09:53	I
8141512	CS-134	13967-70-9	1.68E+00	pCi/L	2.3E+00	2.3E+00	U	4.34E+00		GAMMALL_GS	2.0004E+00	L	06/16/2008 09:53	I
8141512	CS-137	10045-97-3	3.21E+00	pCi/L	2.0E+00	2.0E+00	U	3.96E+00		GAMMALL_GS	2.0004E+00	L	06/16/2008 09:53	I
8141512	EU-152	14683-23-9	2.18E+00	pCi/L	5.5E+00	5.5E+00	U	9.75E+00		GAMMALL_GS	2.0004E+00	L	06/16/2008 09:53	I
8141512	EU-154	15585-10-1	1.54E+00	pCi/L	6.2E+00	6.2E+00	U	1.16E+01		GAMMALL_GS	2.0004E+00	L	06/16/2008 09:53	I
8141512	EU-155	14391-16-3	4.06E+00	pCi/L	4.3E+00	4.3E+00	U	7.63E+00		GAMMALL_GS	2.0004E+00	L	06/16/2008 09:53	I
8141512	K-40	13966-00-2	2.31E+01	pCi/L	5.4E+01	5.4E+01	U	3.74E+01		GAMMALL_GS	2.0004E+00	L	06/16/2008 09:53	I
8141512	RU-106	13967-48-1	7.19E+00	pCi/L	2.0E+01	2.0E+01	U	3.60E+01		GAMMALL_GS	2.0004E+00	L	06/16/2008 09:53	I
8141512	SB-125	14234-35-6	-4.27E+00	pCi/L	5.1E+00	5.1E+00	U	8.25E+00		GAMMALL_GS	2.0004E+00	L	06/16/2008 09:53	I
8141514	I-129L	15046-84-1	8.42E-02	pCi/L	1.5E-01	1.5E-01	U	2.96E-01	94.9	I129LL_SEP_LEPS	3.8709E+00	L	06/26/2008 16:28	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:
9KNHD410	B1V6N1		MW6-SBB-A1	I08-038	W05411					05/14/2008 09:25

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141514	I-129L	15046-84-1	3.37E-01	pCi/L	1.6E-01	1.6E-01	U	3.54E-01	95.7	I129LL_SEP_LEPS	3.8277E+00	L	06/26/2008 16:29	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:
9KNHD710	B1V6N2		MW6-SBB-A1	I08-038	W05411					05/14/2008 08:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141514	I-129L	15046-84-1	9.44E-02	pCi/L	1.2E-01	1.2E-01	U	2.47E-01	96.2	I129LL_SEP_LEPS	3.9084E+00	L	06/26/2008 18:36	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:
9KNHDW10	B1V2K3		MW6-SBB-A1	S08-004	W05411					05/15/2008 11:50

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141509	ALPHA	12587-46-1	1.76E-01	pCi/L	3.0E-01	3.0E-01	U	6.30E-01	100.0	9310_ALPHABETA	2.003E-01	L	06/17/2008 10:28	I
8141511	BETA	12587-47-2	2.75E+00	pCi/L	1.3E+00	1.4E+00		2.53E+00	100.0	9310_ALPHABETA	2.002E-01	L	06/17/2008 10:24	I
8141515	I-129L	15046-84-1	-2.45E-01	pCi/L	9.6E-01	9.6E-01	U	1.73E+00	100.8	I129_SEP_LEPS_G	5.0004E-01	L	06/10/2008 14:14	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.

8/19/2008 11:05:24 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 39445 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

8141517	TC-99	14133-76-7	5.30E+00	pCi/L	4.1E+00	5.8E+00	U	9.56E+00	100.0	TC99_ETVDSK_LS	1.2501E-01	L	06/11/2008	19:45	I
8141508	Uranium	7440-61-1	1.88E-01	ug/L	1.9E-02	1.9E-02		8.32E-02		UTOT_KPA	2.52E-02	ML	06/17/2008	13:31	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:
9KNHDW20	B1V2K3		MW6-SBB-A1	S08-004	W05411					05/15/2008 11:50

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
8141513	BE-7	13966-02-4	-2.62E+00	pCi/L	2.6E+01	2.6E+01	U	4.62E+01		GAMMA_GS	1.0005E+00	L	06/12/2008	13:13	I
8141513	CO-60	10198-40-0	2.11E+00	pCi/L	2.9E+00	2.9E+00	U	5.76E+00		GAMMA_GS	1.0005E+00	L	06/12/2008	13:13	I
8141513	CS-134	13967-70-9	3.38E+00	pCi/L	2.8E+00	2.8E+00	U	5.54E+00		GAMMA_GS	1.0005E+00	L	06/12/2008	13:13	I
8141513	CS-137	10045-97-3	1.25E+00	pCi/L	2.7E+00	2.7E+00	U	4.85E+00		GAMMA_GS	1.0005E+00	L	06/12/2008	13:13	I
8141513	EU-152	14683-23-9	-3.00E+00	pCi/L	6.6E+00	6.6E+00	U	1.09E+01		GAMMA_GS	1.0005E+00	L	06/12/2008	13:13	I
8141513	EU-154	15585-10-1	7.77E+00	pCi/L	7.7E+00	7.7E+00	U	1.57E+01		GAMMA_GS	1.0005E+00	L	06/12/2008	13:13	I
8141513	EU-155	14391-16-3	6.74E-01	pCi/L	4.9E+00	4.9E+00	U	8.33E+00		GAMMA_GS	1.0005E+00	L	06/12/2008	13:13	I
8141513	K-40	13966-00-2	3.61E+01	pCi/L	6.0E+01	6.0E+01	U	3.38E+01		GAMMA_GS	1.0005E+00	L	06/12/2008	13:13	I
8141513	RU-106	13967-48-1	-1.67E+01	pCi/L	2.3E+01	2.3E+01	U	3.80E+01		GAMMA_GS	1.0005E+00	L	06/12/2008	13:13	I
8141513	SB-125	14234-35-6	3.89E+00	pCi/L	5.9E+00	5.9E+00	U	1.10E+01		GAMMA_GS	1.0005E+00	L	06/12/2008	13:13	I
8141507	PU-238	13981-16-3	7.22E-02	pCi/L	1.5E-01	1.5E-01	U	3.46E-01	47.5	PUISO_PLATE_AE	2.0017E-01	L	06/18/2008	15:05	I
8141507	PU-239	PU-239/240	0.00E+00	pCi/L	1.5E-01	1.5E-01	U	3.45E-01	47.5	PUISO_PLATE_AE	2.0017E-01	L	06/18/2008	15:05	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.

Tuesday, August 19, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id: KNJV11AB **Sdg/Rept Nbr:** W05411 39445 **Collection Date:** 05/15/2008 09:22

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 05/16/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8141509	ALPHA	-4.10E-02	pCi/L	2.0E-01	U	6.04E-01	100.0		9310_ALPHAB	2.003E-01	06/17/2008				D
BLK	12587-46-1			2.0E-01						L	10:28				

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.

Tuesday, August 19, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id:	KNJV31AB	**Sdg/Rept Nbr:**	W05411	39445	**Collection Date:** 05/15/2008 11:50
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 05/16/2008

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
8141511	BETA	2.18E-01	pCi/L	1.2E+00	U	2.56E+00	100.0		9310_ALPHAB	2.002E-01	06/17/2008				D
BLK	12587-47-2			1.2E+00						L	10:24				

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.

Tuesday, August 19, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id: KNJV41AB **Sdg/Rept Nbr:** W05411 39445 **Collection Date:** 05/12/2008 12:16

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 05/13/2008

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
8141512	BE-7	4.22E+00	pCi/L	1.7E+01	U	3.06E+01			GAMMALL_GS	2.0001E+00	06/16/2008				D
BLK	13966-02-4			1.7E+01						L	09:53				
8141512	CO-60	-3.77E-01	pCi/L	1.5E+00	U	2.75E+00			GAMMALL_GS	2.0001E+00	06/16/2008				D
BLK	10198-40-0			1.5E+00						L	09:53				
8141512	CS-134	-4.97E-01	pCi/L	1.6E+00	U	2.87E+00			GAMMALL_GS	2.0001E+00	06/16/2008				D
BLK	13967-70-9			1.6E+00						L	09:53				
8141512	CS-137	1.08E+00	pCi/L	1.5E+00	U	2.82E+00			GAMMALL_GS	2.0001E+00	06/16/2008				D
BLK	10045-97-3			1.5E+00						L	09:53				
8141512	EU-152	2.96E-03	pCi/L	3.9E+00	U	6.72E+00			GAMMALL_GS	2.0001E+00	06/16/2008				D
BLK	14683-23-9			3.9E+00						L	09:53				
8141512	EU-154	-6.80E-01	pCi/L	3.5E+00	U	6.59E+00			GAMMALL_GS	2.0001E+00	06/16/2008				D
BLK	15585-10-1			3.5E+00						L	09:53				
8141512	EU-155	1.28E+00	pCi/L	2.6E+00	U	4.65E+00			GAMMALL_GS	2.0001E+00	06/16/2008				D
BLK	14391-16-3			2.6E+00						L	09:53				
8141512	K-40	-1.03E+01	pCi/L	2.2E+01	U	4.15E+01			GAMMALL_GS	2.0001E+00	06/16/2008				D
BLK	13966-00-2			2.2E+01						L	09:53				
8141512	RU-106	5.76E+00	pCi/L	1.2E+01	U	2.35E+01			GAMMALL_GS	2.0001E+00	06/16/2008				D
BLK	13967-48-1			1.2E+01						L	09:53				
8141512	SB-125	1.07E-01	pCi/L	3.5E+00	U	6.33E+00			GAMMALL_GS	2.0001E+00	06/16/2008				D
BLK	14234-35-6			3.5E+00						L	09:53				

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.

Tuesday, August 19, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id:	KNJV92AB	**Sdg/Rept Nbr:**	W05411	39445	**Collection Date:** 05/15/2008 11:50
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 05/16/2008

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
8141513	BE-7	-3.90E+00	pCi/L	2.5E+01	U	4.33E+01			GAMMA_GS	1.0009E+00	06/12/2008				D
BLK	13966-02-4			2.5E+01						L	13:16				
8141513	CO-60	-1.09E+00	pCi/L	3.3E+00	U	5.76E+00			GAMMA_GS	1.0009E+00	06/12/2008				D
BLK	10198-40-0			3.3E+00						L	13:16				
8141513	CS-134	-4.47E-01	pCi/L	3.5E+00	U	5.99E+00			GAMMA_GS	1.0009E+00	06/12/2008				D
BLK	13967-70-9			3.5E+00						L	13:16				
8141513	CS-137	7.25E-01	pCi/L	2.6E+00	U	4.71E+00			GAMMA_GS	1.0009E+00	06/12/2008				D
BLK	10045-97-3			2.6E+00						L	13:16				
8141513	EU-152	-1.02E-01	pCi/L	6.4E+00	U	1.12E+01			GAMMA_GS	1.0009E+00	06/12/2008				D
BLK	14683-23-9			6.4E+00						L	13:16				
8141513	EU-154	-5.14E+00	pCi/L	9.1E+00	U	1.53E+01			GAMMA_GS	1.0009E+00	06/12/2008				D
BLK	15585-10-1			9.1E+00						L	13:16				
8141513	EU-155	-7.89E-01	pCi/L	3.9E+00	U	6.81E+00			GAMMA_GS	1.0009E+00	06/12/2008				D
BLK	14391-16-3			3.9E+00						L	13:16				
8141513	K-40	-7.51E+01	pCi/L	6.2E+01	U	1.14E+02			GAMMA_GS	1.0009E+00	06/12/2008				D
BLK	13966-00-2			6.2E+01						L	13:16				
8141513	RU-106	-5.59E+00	pCi/L	2.5E+01	U	4.31E+01			GAMMA_GS	1.0009E+00	06/12/2008				D
BLK	13967-48-1			2.5E+01						L	13:16				
8141513	SB-125	-8.73E-01	pCi/L	6.4E+00	U	1.11E+01			GAMMA_GS	1.0009E+00	06/12/2008				D
BLK	14234-35-6			6.4E+00						L	13:16				

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.

Tuesday, August 19, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id:	KNJVT1AB	**Sdg/Rept Nbr:**	W05411	39445	**Collection Date:** 05/15/2008 11:50
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 05/16/2008

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
8141507	PU-238	5.24E-02	pCi/L	1.1E-01	U	2.51E-01	59.9		PUISO_PLATE	2.0012E-01	06/11/2008				D
BLK	13981-16-3			1.1E-01						L	14:20				
8141507	PU-239	0.00E+00	pCi/L	1.1E-01	U	2.51E-01	59.9		PUISO_PLATE	2.0012E-01	06/11/2008				D
BLK	PU-239/240			1.1E-01						L	14:20				

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.

Tuesday, August 19, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id:	KNJVW1AB	**Sdg/Rept Nbr:**	W05411 39445	**Collection Date:**	05/15/2008 11:50
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	05/16/2008

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
8141508	Uranium	4.20E-02	ug/L	6.7E-03	U	8.32E-02			UTOT_KPA	2.52E-02	06/17/2008				D
BLK	7440-61-1			6.7E-03						ML	11:37				

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.

Tuesday, August 19, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id:	KNJWA1AB	**Sdg/Rept Nbr:**	W05411	39445	**Collection Date:** 05/16/2008 12:19
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 05/16/2008

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
8141514	I-129L	1.88E-01	pCi/L	1.4E-01	U	2.78E-01	96.2		I129LL_SEP_L	3.9761E+00	06/26/2008				D
BLK	15046-84-1			1.4E-01						L	18:38				

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.

Tuesday, August 19, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id:	KNJWC1AB	**Sdg/Rept Nbr:**	W05411 39445	**Collection Date:**	05/15/2008 11:50
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	05/16/2008

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
8141515	I-129L	3.30E-01	pCi/L	8.3E-01	U	1.67E+00	99.7		I129_SEP_LEP	5.0009E-01	06/10/2008				D
BLK	15046-84-1			8.3E-01						L	14:15				

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.

Tuesday, August 19, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id:	KNJWD1AB	**Sdg/Rept Nbr:**	W05411 39445	**Collection Date:**	05/13/2008 10:24
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	05/14/2008

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
8141516	NI-63	2.85E+01	pCi/L	4.1E+00	B	4.03E+00	82.3		NI63_LSC	4.003E-01	06/14/2008				D
BLK	13981-37-8			2.3E+00						L	21:19				

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.

Tuesday, August 19, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id:	KNJWE1AB	**Sdg/Rept Nbr:**	W05411	39445	**Collection Date:** 05/15/2008 11:50
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 05/16/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSufflx	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
8141517	TC-99	7.32E-01	pCi/L	5.6E+00	U	9.56E+00	100.0		TC99_ETVDSK	1.2501E-01	06/11/2008				D
BLK	14133-76-7			4.0E+00						L	22:52				

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

Tuesday, August 19, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id:	KNJWG1AB	**Sdg/Rept Nbr:**	W05411 39445	**Collection Date:**	05/12/2008 10:39
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	05/13/2008

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
8141518	TC-99	-5.60E+00	pCi/L	6.0E+00	U	1.02E+01	100.0		TC99_SEP_LS	1.2501E-01	06/12/2008				D
BLK	14133-76-7			4.1E+00						L	19:58				

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.

Tuesday, August 19, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id:	KNJV11CS	**Sdg/Rept Nbr:**	W05411	39445	**Collection Date:** 05/15/2008 09:22
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**BS**		**Received Date:** 05/16/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8141509	ALPHA	2.04E+01	pCi/L	4.7E+00		4.71E-01	100.0	2.26E+01	9310_ALPHAB	2.002E-01	06/17/2008			70	D
BS	12587-46-1			2.1E+00				90.2		L	10:28			130	

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

Tuesday, August 19, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id:	KNJV31CS	**Sdg/Rept Nbr:**	W05411	39445	**Collection Date:** 05/15/2008 11:50
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 05/16/2008

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
8141511	BETA	2.63E+01	pCi/L	4.2E+00		2.52E+00	100.0	2.25E+01	9310_ALPHAB	2.001E-01	06/17/2008			70	D
BS	12587-47-2			2.5E+00				117.1		L	10:24			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.

Tuesday, August 19, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id:	KNJV41CS	**Sdg/Rept Nbr:**	W05411	39445	**Collection Date:** 05/12/2008 12:16
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**BS**		**Received Date:** 05/13/2008

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
8141512	CO-60	4.20E+01	pCi/L	8.3E+00		3.65E+00		3.79E+01	GAMMALL_GS	2.0001E+00	06/16/2008			70	D
BS	10198-40-0			8.3E+00				110.7		L	13:17			130	
8141512	CS-137	5.48E+01	pCi/L	8.8E+00		3.46E+00		4.95E+01	GAMMALL_GS	2.0001E+00	06/16/2008			70	D
BS	10045-97-3			8.8E+00				110.7		L	13:17			130	
8141512	EU-152	8.39E+01	pCi/L	1.5E+01		8.03E+00		7.50E+01	GAMMALL_GS	2.0001E+00	06/16/2008			70	D
BS	14683-23-9			1.5E+01				111.9		L	13:17			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.

Tuesday, August 19, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id:	KNJV92CS	**Sdg/Rept Nbr:**	W05411	39445	**Collection Date:** 05/15/2008 11:50
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 05/16/2008

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
8141513	CO-60	8.60E+01	pCi/L	1.4E+01		5.63E+00		7.61E+01	GAMMA_GS	1.0005E+00	06/12/2008			70	D
BS	10198-40-0			1.4E+01				112.9		L	13:16			130	
8141513	CS-137	1.10E+02	pCi/L	1.6E+01		5.64E+00		9.91E+01	GAMMA_GS	1.0005E+00	06/12/2008			70	D
BS	10045-97-3			1.6E+01				111.2		L	13:16			130	
8141513	EU-152	1.70E+02	pCi/L	2.9E+01		1.39E+01		1.51E+02	GAMMA_GS	1.0005E+00	06/12/2008			70	D
BS	14683-23-9			2.9E+01				112.3		L	13:16			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.

Tuesday, August 19, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id:	KNJVT1CS	**Sdg/Rept Nbr:**	W05411 39445	**Collection Date:**	05/15/2008 11:50
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	05/16/2008

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
8141507	PU-239	4.25E+00	pCi/L	1.1E+00		2.10E-01	74.2	4.63E+00	PUISO_PLATE	2.0065E-01	06/11/2008			70	D
BS	PU-239/240			8.6E-01				91.9		L	14:20			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.

Tuesday, August 19, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id:	KNJVW1CS	**Sdg/Rept Nbr:**	W05411	39445	**Collection Date:** 05/15/2008 11:50
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 05/16/2008

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
8141508	Uranium	3.36E+01	ug/L	4.0E+00		8.28E-02		3.56E+01	UTOT_KPA	2.53E-02	06/17/2008			70	D
BS	7440-61-1			4.0E+00				94.3		ML	11:41			130	

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

Tuesday, August 19, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id:	KNJVW1DS	**Sdg/Rept Nbr:**	W05411	39445	**Collection Date:** 05/15/2008 11:50
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 05/16/2008

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
8141508	Uranium	3.29E+00	ug/L	3.4E-01		8.32E-02		3.60E+00	UTOT_KPA	2.52E-02	06/17/2008			70	D
BS	7440-61-1			3.4E-01				91.6		ML	13:29			130	

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

Tuesday, August 19, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id: KNJWA1CS **Sdg/Rept Nbr:** W05411 39445 **Collection Date:** 05/16/2008 12:19

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 05/16/2008

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
8141514	I-129L	9.66E+00	pCi/L	1.3E+00		3.74E-01	86.0	9.66E+00	I129LL_SEP_L	3.969E+00	06/26/2008			70	D
BS	15046-84-1			1.3E+00				100.0		L	18:38			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.

Tuesday, August 19, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id: KNJWC1CS **Sdg/Rept Nbr:** W05411 39445 **Collection Date:** 05/15/2008 11:50

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 05/16/2008

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
8141515	I-129L	4.05E+01	pCi/L	6.6E+00		2.26E+00	99.7	4.56E+01	I129_SEP_LEP	5.003E-01	06/10/2008			70	D
BS	15046-84-1			6.6E+00				88.7		L	16:20			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.

Tuesday, August 19, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id:	KNJWD1CS	**Sdg/Rept Nbr:**	W05411 39445	**Collection Date:**	05/13/2008 10:24
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	05/14/2008

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
8141516	NI-63	3.28E+02	pCi/L	2.1E+01	B	4.07E+00	82.0	3.81E+02	NI63_LSC	4.003E-01	06/14/2008			70	D
BS	13981-37-8			5.7E+00				86.1		L	23:02			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.

Tuesday, August 19, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id: KNJWE1CS **Sdg/Rept Nbr:** W05411 39445 **Collection Date:** 05/15/2008 11:50

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 05/16/2008

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
8141517	TC-99	5.12E+02	pCi/L	3.6E+01		9.61E+00	100.0	5.47E+02	TC99_ETVDSK	1.25E-01	06/11/2008			70	D
BS	14133-76-7			1.3E+01				93.7		L	23:55			130	

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

Tuesday, August 19, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id: KNJWG1CS **Sdg/Rept Nbr:** W05411 39445 **Collection Date:** 05/12/2008 10:39

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 05/13/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8141518	TC-99	5.03E+02	pCi/L	3.6E+01		1.02E+01	100.0	5.43E+02	TC99_SEP_LS	1.2501E-01	06/12/2008			70	D
BS	14133-76-7			1.3E+01				92.5		L	21:00			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.

Tuesday, August 19, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id:	KM50E1CR	**Sdg/Rept Nbr:**	W05411	39445	**Collection Date:**	05/12/2008 10:39
Client Id:	B1V7N4	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:**	05/13/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-005	MW6-SBB-A19981								AS	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
8141518	TC-99	1.75E+02	pCi/L	1.6E+01		1.02E+01	100.0		TC99_SEP_LS	1.2501E-01	06/12/2008	1.6	0.2		D
DUP	14133-76-7	1.72E+02		8.4E+00						L	16:50	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.

Tuesday, August 19, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id:	KM50H1CR	**Sdg/Rept Nbr:**	W05411	39445	**Collection Date:** 05/12/2008 12:16
Client Id:	B1V7T8	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 05/13/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-005	MW6-SBB-A19981								AU	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8141512	BE-7	2.30E+00	pCi/L	1.7E+01	U	3.06E+01			GAMMALL_GS	1.9997E+00	06/16/2008	0.0	0.6		D
DUP	13966-02-4	-5.47E+00		1.7E+01						L	13:17	20.0	3		
8141512	CO-60	2.93E+01	pCi/L	5.9E+00		2.22E+00			GAMMALL_GS	1.9997E+00	06/16/2008	32.8	2.8		D
DUP	10198-40-0	4.08E+01		5.9E+00						L	13:17	20.0	3		
8141512	CS-134	-1.09E+00	pCi/L	1.8E+00	U	3.10E+00			GAMMALL_GS	1.9997E+00	06/16/2008	0.0	1.6		D
DUP	13967-70-9	9.68E-01		1.8E+00						L	13:17	20.0	3		
8141512	CS-137	1.85E-02	pCi/L	1.5E+00	U	2.70E+00			GAMMALL_GS	1.9997E+00	06/16/2008	0.0	0.5		D
DUP	10045-97-3	-5.01E-01		1.5E+00						L	13:17	20.0	3		
8141512	EU-152	1.10E+00	pCi/L	4.0E+00	U	7.01E+00			GAMMALL_GS	1.9997E+00	06/16/2008	61.0	0.3		D
DUP	14683-23-9	2.06E+00		4.0E+00						L	13:17	20.0	3		
8141512	EU-154	-3.33E+00	pCi/L	4.2E+00	U	6.82E+00			GAMMALL_GS	1.9997E+00	06/16/2008	0.0	2.		D
DUP	15585-10-1	2.68E+00		4.2E+00						L	13:17	20.0	3		
8141512	EU-155	8.51E-01	pCi/L	3.1E+00	U	5.43E+00			GAMMALL_GS	1.9997E+00	06/16/2008	126.2	1.3		D
DUP	14391-16-3	3.76E+00		3.1E+00						L	13:17	20.0	3		
8141512	K-40	2.23E+01	pCi/L	2.4E+01	U	5.03E+01			GAMMALL_GS	1.9997E+00	06/16/2008	6.1	0.1		D
DUP	13966-00-2	2.10E+01		2.4E+01						L	13:17	20.0	3		
8141512	RU-106	1.48E+00	pCi/L	1.5E+01	U	2.68E+01			GAMMALL_GS	1.9997E+00	06/16/2008	71.9	0.2		D
DUP	13967-48-1	3.14E+00		1.5E+01						L	13:17	20.0	3		
8141512	SB-125	3.11E+00	pCi/L	4.1E+00	U	7.61E+00			GAMMALL_GS	1.9997E+00	06/16/2008	120.0	0.8		D
DUP	14234-35-6	7.78E-01		4.1E+00						L	13:17	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.

Tuesday, August 19, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id:	KM50R1CR	**Sdg/Rept Nbr:**	W05411 39445	**Collection Date:**	05/12/2008 10:56
Client Id:	B1V7T7	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	05/13/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8141514	I-129L	4.32E+00	pCi/L	7.0E-01		3.07E-01	95.1		I129LL_SEP_L	3.8866E+00	06/26/2008	.9	0.1		D
DUP	15046-84-1	4.36E+00		7.0E-01						L	14:35	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.

Tuesday, August 19, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id:	KM7291ER	**Sdg/Rept Nbr:**	W05411	39445	**Collection Date:** 05/13/2008 10:24
Client Id:	B1V816	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 05/14/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W08-005	MW6-SBB-A19981								AW	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8141516	NI-63	1.13E+03	pCi/L	7.2E+01	B	1.43E+01	23.1		NI63_LSC	4.003E-01	06/14/2008	13.4	3.2		D
DUP	13981-37-8	1.29E+03		2.0E+01						L	19:37	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.

Tuesday, August 19, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id:	KNHCL1FR	**Sdg/Rept Nbr:**	W05411	39445	**Collection Date:** 05/15/2008 09:22
Client Id:	B1TWK9	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 05/16/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-004	MW6-SBB-A19981								AX	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8141509	ALPHA	4.59E+00	pCi/L	2.1E+00		2.00E+00	100.0		9310_ALPHAB	1.161E-01	06/17/2008	20.9	0.6		D
DUP	12587-46-1	3.72E+00		1.9E+00						L	10:28	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.

Tuesday, August 19, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id:	KNHDW1JR	**Sdg/Rept Nbr:**	W05411	39445	**Collection Date:** 05/15/2008 11:50
Client Id:	B1V2K3	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 05/16/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-004	MW6-SBB-A19981								AY	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8141507	PU-238	0.00E+00	pCi/L	1.1E-01	U	2.61E-01	62.1		PUISO_PLATE	2.0016E-01	06/11/2008	200.0	0.9		D
DUP	13981-16-3	7.22E-02		1.1E-01						L	14:19	20.0	3		
8141507	PU-239	5.44E-02	pCi/L	1.1E-01	U	2.61E-01	62.1		PUISO_PLATE	2.0016E-01	06/11/2008	200.0	0.7		D
DUP	PU-239/240	0.00E+00		1.1E-01						L	14:19	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.

Tuesday, August 19, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id: KNHDW1LR **Sdg/Rept Nbr:** W05411 39445 **Collection Date:** 05/15/2008 11:50

Client Id: B1V2K3 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 05/16/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-004	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
8141508	Uranium	1.86E-01	ug/L	1.9E-02		8.32E-02			UTOT_KPA	2.52E-02	06/17/2008	.9	0.1		D
DUP	7440-61-1	1.88E-01		1.9E-02						ML	13:36	20.0	3		

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

Tuesday, August 19, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id:	KNHDW1MR	**Sdg/Rept Nbr:**	W05411	39445	**Collection Date:** 05/15/2008 11:50
Client Id:	B1V2K3	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 05/16/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-004	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
8141511	BETA	2.13E+00	pCi/L	1.4E+00	U	2.75E+00	100.0		9310_ALPHAB	2.00E-01	06/17/2008	25.4	0.6		D
DUP	12587-47-2	2.75E+00		1.4E+00						L	10:24	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.

Tuesday, August 19, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id:	KNHDW1PR	**Sdg/Rept Nbr:**	W05411	39445	**Collection Date:** 05/15/2008 11:50
Client Id:	B1V2K3	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 05/16/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-004	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
8141515	I-129L	-5.13E-02	pCi/L	1.0E+00	U	1.88E+00	99.5		I129_SEP_LEP	5.0007E-01	06/10/2008	0.0	0.3		D
DUP	15046-84-1	-2.45E-01		1.0E+00						L	14:15	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.

Tuesday, August 19, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id:	KNHDW1RR	**Sdg/Rept Nbr:**	W05411	39445	**Collection Date:** 05/15/2008 11:50
Client Id:	B1V2K3	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 05/16/2008

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
8141517	TC-99	-7.42E-01	pCi/L	5.5E+00	U	9.58E+00	100.0		TC99_ETVDSK	1.25E-01	06/11/2008	265.1	1.6		D
DUP	14133-76-7	5.30E+00		3.9E+00						L	21:50	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.

Tuesday, August 19, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id: KNHDW2NR **Sdg/Rept Nbr:** W05411 39445 **Collection Date:** 05/15/2008 11:50

Client Id: B1V2K3 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 05/16/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-004	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
8141513	BE-7	-1.47E+00	pCi/L	2.1E+01	U	3.74E+01			GAMMA_GS	1.0005E+00	06/12/2008	0.0	0.1		D
DUP	13966-02-4	-2.62E+00		2.1E+01						L	13:15	20.0	3		
8141513	CO-60	1.83E+00	pCi/L	2.5E+00	U	4.95E+00			GAMMA_GS	1.0005E+00	06/12/2008	14.3	0.2		D
DUP	10198-40-0	2.11E+00		2.5E+00						L	13:15	20.0	3		
8141513	CS-134	2.96E-01	pCi/L	2.4E+00	U	4.35E+00			GAMMA_GS	1.0005E+00	06/12/2008	167.8	1.8		D
DUP	13967-70-9	3.38E+00		2.4E+00						L	13:15	20.0	3		
8141513	CS-137	2.24E-01	pCi/L	2.2E+00	U	4.05E+00			GAMMA_GS	1.0005E+00	06/12/2008	139.0	0.6		D
DUP	10045-97-3	1.25E+00		2.2E+00						L	13:15	20.0	3		
8141513	EU-152	1.63E-01	pCi/L	5.8E+00	U	1.01E+01			GAMMA_GS	1.0005E+00	06/12/2008	0.0	0.8		D
DUP	14683-23-9	-3.00E+00		5.8E+00						L	13:15	20.0	3		
8141513	EU-154	1.29E+00	pCi/L	6.6E+00	U	1.25E+01			GAMMA_GS	1.0005E+00	06/12/2008	142.9	1.4		D
DUP	15585-10-1	7.77E+00		6.6E+00						L	13:15	20.0	3		
8141513	EU-155	-1.78E+00	pCi/L	4.1E+00	U	6.75E+00			GAMMA_GS	1.0005E+00	06/12/2008	0.0	0.9		D
DUP	14391-16-3	6.74E-01		4.1E+00						L	13:15	20.0	3		
8141513	K-40	-1.29E+01	pCi/L	3.7E+01	U	7.11E+01			GAMMA_GS	1.0005E+00	06/12/2008	422.7	1.9		D
DUP	13966-00-2	3.61E+01		3.7E+01						L	13:15	20.0	3		
8141513	RU-106	1.20E+00	pCi/L	2.0E+01	U	3.62E+01			GAMMA_GS	1.0005E+00	06/12/2008	0.0	1.3		D
DUP	13967-48-1	-1.67E+01		2.0E+01						L	13:15	20.0	3		
8141513	SB-125	-3.57E+00	pCi/L	5.5E+00	U	8.92E+00			GAMMA_GS	1.0005E+00	06/12/2008	4664.6	1.9		D
DUP	14234-35-6	3.89E+00		5.5E+00						L	13:15	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.

Tuesday, August 19, 2008

TestAmerica Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id: KM50F1CW **Sdg/Rept Nbr:** W05411 39445 **Collection Date:** 05/12/2008 11:20

Client Id: B1V7N1 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** MS **Received Date:** 05/13/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-005	MW6-SBB-A19981								AT	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8141518	TC-99	3.42E+03	pCi/L	2.3E+02		1.02E+01	100.0	3.61E+03	TC99_SEP_LS	1.25E-01	06/12/2008			60	D
MS	14133-76-7			3.3E+01				94.9		L	18:55			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.

Tuesday, August 19, 2008

TestAmerica Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id: KNHDW1KW **Sdg/Rept Nbr:** W05411 39445 **Collection Date:** 05/15/2008 11:50

Client Id: B1V2K3 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** MS **Received Date:** 05/16/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-004	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
8141508	Uranium	3.41E+01	ug/L	4.0E+00		8.38E-02		3.62E+01	UTOT_KPA	2.50E-02	06/17/2008			60	D
MS	7440-61-1			4.0E+00				94.3		ML	13:33			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.

Tuesday, August 19, 2008

TestAmerica Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05411.Edd, h:\Reportdb\edd\FeadIV\Rad\39445.Edd

Lab Sample Id:	KNHDW1QW	**Sdg/Rept Nbr:**	W05411	39445	**Collection Date:**	05/15/2008 11:50
Client Id:	B1V2K3	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	MS		**Received Date:**	05/16/2008

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
8141517	TC-99	3.25E+03	pCi/L	2.0E+02		9.47E+00	100.0	3.61E+03	TC99_ETVDSK	1.2501E-01	06/11/2008			60	D
MS	14133-76-7			3.1E+01				90.2		L	20:47			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

TA Richland
Hexavalent Chromium - Water

Analyst:	D. Petty	Calibration Curve Information				SOP Information		BATCH #	8136631
Start Date:	5/15/2008		Amount	Conc.(mg/L)	ABS.	RICH-WC-5003		SDG # W0541 ~~W05413~~	
Start Time:		Blank	0.000	0.000	0.000	Revision 7		Matrix	Water
End Date:	5/15/2008	Std. 1	0.100	0.050	0.093				
End Time		Std. 2	0.500	0.250	0.463			Instrument Information	
		Std. 3	0.750	0.375	0.695	MDL (mg/L)	0.002	Instrument:	Hach DR2010
Analyst Signature:		Std. 4	1.500	0.750	1.374			Wavelength:	540
		Std 5	2.000	1.000	1.815			R Squared	0.99992
Date:	05/15/08	Standard Volume (mL):			100.000			Slope:	1.81724
		Date of Curve:			5/15/2008			Intercept:	0.00553

	Calibration Information:	ICV Information:		LCS Information:		Matrix Spike Information:	
Dilution ID #	Cr-08-00095	Cr-08-00096		Cr-08-00095		Cr-08-00095	
Prep Date:	05/15/08	05/15/08		05/15/08		05/15/08	
Concentration (mg/L)	50	50		50		50	
Expiration Date:	05/16/08	05/16/08		05/16/08		05/16/08	
Pipettor(s)	70,190	190		190		190	
Volume Used (Expected Value		1.000	0.50000	1.00	0.50000	0.50	0.26316

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

Sample ID	Client ID	Type	Sample Volume (mL)	Sample ABS.	Blank ABS.	Corrected ABS.	Dilution Factor	Curve Conc. (mg/L)	Final Conc. (mg/L)	% Rec.
n/a	n/a	ICV	100.000	0.931	0.000	0.931	1	0.5093	0.509	101.85%
n/a	n/a	ICB	100.000	0.000	0.000	0.000	1	<MDL	<MDL	
KNAQ81AA	n/a	Prep Blank	100.000	-0.003		-0.003	1	<MDL	<MDL	
KNAQ81AC	n/a	LCS	100.000	0.928		0.928	1	0.5076	0.508	101.52%
KNAKN1AA	B1V5B9'	Sample	100.000	0.014		0.014	1	0.0047	0.005	
KNAKN1AC-S	B1V5B9'-MS	MS	100.000	0.497		0.497	1	0.2704	~~0.270~~ 0.265	101.00%
KNAKN1AD-D	B1V5B9'-MSD	MSD	100.000	0.501		0.501	1	0.2726	~~0.273~~ 0.268	101.84%
KNAKN1AE-X	B1V5B9'-DUP	Duplicate	100.000	0.014		0.014	1	0.0047	0.005	
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
n/a	n/a	CCV	100.000	0.930		0.930	1	0.5087	0.509	101.74%
n/a	n/a	CCB	100.000	-0.001		-0.001	1	<MDL	<MDL	
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			

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TESTAMERICA - AMENDED REPORT

TestAmerica

TA Richland
Hexavalent Chromium - Water

Analyst:	L. Dinh	Calibration Curve Information				SOP Information		BATCH #	8141332
Start Date:	5/16/2008		Amount	Conc.(mg/L)	ABS.	RICH-WC-5003		SDG #	WO5411
Start Time:		Blank	0.000	0.000	0.000	Revision 7		Matrix	Water
End Date:	5/16/2008	Std. 1	0.100	0.050	0.095				
End Time		Std. 2	0.500	0.250	0.471			Instrument Information	
		Std. 3	0.750	0.375	0.701	MDL (mg/L)	0.002	Instrument:	Hach DR2010
Analyst Signature:		Std. 4	1.500	0.750	1.367			Wavelength:	540
		Std 5	2.000	1.000	1.840			R Squared	0.99988
Date:	05/20/08	Standard Volume (mL):			100.000			Slope:	1.83039
		Date of Curve:			5/16/2008			Intercept:	0.00589

	Calibration Information:	ICV Information:		LCS Information:		Matrix Spike Information:	
Dilution ID #	Cr-08-00097	Cr-08-00098		Cr-08-00097		Cr-08-00097	
Prep Date:	05/16/08	05/16/08		05/16/08		05/16/08	
Concentration (mg/L)	50	50		50		50	
Expiration Date:	05/17/08	05/17/08		05/17/08		05/17/08	
Pipettor(s)	70,190	190		190		190	
Volume Used (Expected Value		1.000	0.50000	1.00	0.50000	0.50	0.26316

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

Sample ID	Client ID	Type	Sample Volume (mL)	Sample ABS.	Blank ABS.	Corrected ABS.	Dilution Factor	Curve Conc. (mg/L)	Final Conc. (mg/L)	% Rec.
n/a	n/a	ICV	100.000	0.943	0.000	0.943	1	0.5120	0.512	102.40%
n/a	n/a	ICB	100.000	0.000	0.000	0.000	1	<MDL	<MDL	
KNH3A1AA	n/a	Prep Blank	100.000	-0.002		-0.002	1	<MDL	<MDL	
KNH3A1AC	n/a	LCS	100.000	0.949		0.949	1	0.5153	0.515	103.05%
KNHDP1AA	B1V2J7'	Sample	100.000	0.001		0.001	1	-0.0027	<MDL	
KNHDP1AC-S	B1V2J7'-MS	MS	100.000	0.501		0.501	1	0.2705	0.270	102.79%
KNHDP1AD-D	B1V2J7'-MSD	MSD	100.000	0.504		0.504	1	0.2721	0.272	103.41%
KNHDP1AE-X	B1V2J7'-DUP	Duplicate	100.000	0.000		0.000	1	<MDL	<MDL	
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
n/a	n/a	CCV	100.000	0.943		0.943	1	0.5120	0.512	102.40%
n/a	n/a	CCB	100.000	0.000		0.000	1	<MDL	<MDL	
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			

TestAmerica

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/19/2008 2:22:27 PM

Lot No., Due Date: J8E200129; 06/30/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8141507; RPUISO Pulso by ALP

SDG, Matrix: W05411; 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 Ana ytical 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 # 10-12555

First Level Review John Norton **Date** 6-19-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8141507

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: [signature] Date: 6/20/18

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

Clouseau
Nonconformance Memo

TestAmerica

THE PARAGON ENVIRONMENTAL TESTING

NCM #: 10-12555
NCM Initiated By: John Norton
Date Opened: 06/19/2008
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Sep
Tests: None
Lot #'s (Sample #'s): J8E200129 (2),
QC Batches: None.,

Nonconformance: FWHM and/or Centroid out of limits
Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
John Norton	06/19/2008	The sample spectrum showed evidence of smearing (FWHM was greater than 100).

Corrective Action

Name	Date	Corrective Action
John Norton	06/19/2008	The sample was stripped off of the ED disk and passed through a column again.

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: 6/19/2008

Lot No., Due Date: J8E200125,J8E200129; 06/30/2008
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 8141509; RALPHA-A Alpha by GPC-Am
SDG, Matrix: W05411; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	✓		
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used Analysis Volume => KNHCL1AA 116.30<200.00 Q:VB		✓	
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. RPD > UCL : 20.0=> KNHCL1AF ALPHA 21.0 (RPD)		✓	
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK	✓		
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	✓		
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => KNHCL1AA ALPHA 3.7E+00 L:1.8E+00		✓	
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => ALPHA OK; No Callin Level Found => ALPHA	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

8.26 Instruments have Current Calibrations. Yes No N/A

8.27 Correct Count Library Used. Yes No N/A ✓
No Count Library found in Batch Data!

8.28 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later version.) Yes No N/A

8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later version.) Yes No N/A

8.3 Comments:
NCM 10-12546

8.31 Results Blank Subtracted as Appropriate. Yes No N/A ✓
OK

First Level Review Lisa Anderson Date 6/18/08

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8141509

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?	9/4/18 √	√	
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 nc

Second Level Review: [signature] Date: 10/8/18

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

Clouseau
Nonconformance Memo

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-12546**
NCM Initiated By: Lisa Antonson
Date Opened: 06/18/2008
Date Closed:

Classification: **Anomaly**
Status: **QAREVIEW**
Production Area: Environmental - Prep
Tests: Alpha by GPC-Am
Lot #'s (Sample #'s): J8E200000 (509), J8E200125 (1), J8E200129 (2),
QC Batches: 8141509,

Nonconformance: Dups not within acceptance limits
Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	06/18/2008	The dups in this batch were slightly above limits at 21% RPD. The difference between them was less than 1 Xs the CRDL. Data accepted.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	06/18/2008	NA

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 6/18/2008

Lot No., Due Date: J8E200125,J8E200129; 06/30/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8141511; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05411; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	✓		
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used Analysis Volume => KNHCL1AC 169.40<200.00 Q:VB		✓	
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. RPD > UCL : 20.0=> KNHDW1AM BETA 25.0 (RPD)		✓	
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK	✓		
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	✓		
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => KNHCL1AC BETA 5.6E+02 L:3.7E+00 KNHDW1AC BETA 2.8E+00 L:2.5E+00		✓	
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => BETA OK; No Callin Level Found => BETA	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

8.26 Instruments have Current Calibrations. Yes No N/A

8.27 Correct Count Library Used. Yes No N/A ✓
No Count Library found in Batch Data!

8.28 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later versions) Yes No N/A

8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later versions) Yes No N/A

8.3 Comments:

8.31 Results Blank Subtracted as Appropriate. Yes ✓ No N/A
OK

First Level Review Lisa Anderson Date 6/18/08

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8141511

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: 6/18/18

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/17/2008 3:24:25 PM

Lot No., Due Date: J8E140118,J8E140359,J8E200125; 06/30/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8141512; RGAMMA Gamma by GER

SDG, Matrix: W05411; WATER

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

6.0 Comments on any No response:

Sample J8E140118-6 was re-counted on a different detector for duplication.

First Level Review John Vaster **Date** 6-17-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8141512

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: The identified duplicate was counted on a different detector from its associated sample to act as the duplicate B/C there was insufficient sample volume provided to pour up a dup.

Second Level Review: [signature] Date: 6/15/15

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

TestAmerica

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/13/2008 3:07:36 PM

Lot No., Due Date: J8E200129; 06/30/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8141513; RGAMMA Gamma by GER

SDG, Matrix: W05411; 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 # 10-12527

First Level Review John Porter **Date** 6-13-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8141813

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

Comments on any "No" response: See ncr

Second Level Review: Erika [illegible] Date: 4/13/15

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-12527**
NCM Initiated By: John Norton
Date Opened: 06/13/2008
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Gamma by GER
Lot #'s (Sample #'s): J8E200000 (513), J8E200129 (2),
QC Batches: 8141513,

Nonconformance: MDA not met
Subcategory: Data accepted

Problem Description / Root Cause

Name	Date	Description
John Norton	06/13/2008	The batch did not meet the RDL for Be-7.

Corrective Action

Name	Date	Corrective Action
John Norton	06/13/2008	The samples were re-counted for a slightly longer period of time.

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: 6/13/2008

TestAmerica

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/11/2008 2:01:54 PM

Lot No., Due Date: J8E200129; 06/30/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8141515; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05411; 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** 6-11-8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 814 1515

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?	✓ 6/12/18		✓
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 [signature] Date: 6/12/18

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

TestAmerica

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/27/2008 10:43:44 AM

Lot No., Due Date: J8E140118,J8E140359,J8E200125,J8E200132; 06/30/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8141514; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05411; 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** 6/27/08

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8141514

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: CRDL = 1.0

Second Level Review: [signature] Date: 4/27/08

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

TestAmerica

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/12/2008 11:52:01 AM

Lot No., Due Date: J8E200129; 06/30/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8141517; RTC99 Tc-99 by LSC

SDG, Matrix: W05411; 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 Norton **Date** 6-12-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 814517

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

Comments on any "No" response: _____

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/18/2008 11:25:35 AM

Lot No., Due Date: J8E140118; 06/30/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8141518; RTC99 Tc-99 by LSC

SDG, Matrix: W05411; WATER

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

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

First Level Review Lisa Christenson **Date** 6/18/08

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 814 1518

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 [illegible] Date: 10/18/17

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/1/2008 2:54:46 PM

Lot No., Due Date: J8E140359; 06/30/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8141516; RNI63 Ni-63 by LSC

SDG, Matrix: W05411; 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 # 10-12516

First Level Review John Horton **Date** 7-1-8

TAL Richland
QAS_RADCALCv4.8.33

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8141516

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

Comments on any "No" response: See Nar

Second Level Review: [signature] Date: 7/3/08

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-12617**
NCM Initiated By: John Norton
Date Opened: 07/01/2008
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Sep
Tests: Ni-63 by LSC
Lot #'s (Sample #'s): J8E140359 (2), J8E200000 (516),
QC Batches: 8141516,

Nonconformance: Blank result above Contract Limit
Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
John Norton	07/01/2008	The activity detected in the batch blank was greater than the CRDL.
John Norton	07/01/2008	

Corrective Action

Name	Date	Corrective Action
John Norton	07/01/2008	The activity detected in the samples was greater than five times the RDL.
John Norton	07/01/2008	The blank was re-counted to confirm the activity is present.

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: 7/1/2008

TestAmerica

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/17/2008 3:20:01 PM

Lot No., Due Date: J8E200129; 06/30/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8141508; RUNAT UNat by KPA

SDG, Matrix: W05411; 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, yie ds, 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 Jah Horton **Date** 6-17-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8141508

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 Good Date: 4/18/18

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): **8136631** J8E150338				
Lab Sample Numbers or WD5411 Due 6/30				
Method/Test/Parameter: **Cr+6 in Water / RICH-WC-5003**				
Review Item	**Yes (✓)**	**No (✓)**	**N/A (✓)**	**2nd Level Review (✓)**
A. Initial Calibration 1. Performed at required frequency with required number of levels?	✓			✓
2. Correlation coefficient within QC limits?	✓			✓
3. Initial calibration verification (ICV) analyzed immediately after calibration and results within QC limits?	✓			✓
4. Initial calibration blank (ICB) analyzed immediately after ICV and concentrations of all parameters ≤ reporting limit?	✓			✓
B. Continuing Calibration 1. CCV analyzed at required frequency and all parameters within QC limits?	✓			✓
2. CCB analyzed at required frequency and all results ≤ reporting limit?	✓			✓
C. Sample Analysis 1. Were any samples with concentrations above the linear range for any parameter diluted and reanalyzed?	✓			✓
2. Were all sample holding times met?	✓			✓
D. QC Samples 1. All results for the preparation blank below limits?	✓			✓
2. MS or MS/MSD recoveries within QC limits and %RPD (for MSD) acceptable?	✓			✓
3. LCS percent recovery within QC limits and %RPD (for LCSD) acceptable?	✓			✓
4. Analytical spikes within QC limits where applicable?			✓	✓
5. ICP only: One serial dilution performed per SDG?			✓	✓
6. ICP only: CRDL standard (CRI or CRA) analyzed at required frequency?			✓	✓
7. ICP only: Interference check samples (ICSA, ICSAB) and HICAL analyzed at the required frequencies and within QC limits?			✓	✓

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

Comments on any "No" response:

Analyst: _____ Date: 5/15/08

Second-Level Review: _____ Date: 6/24/08

TestAmerica

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): **8141332** J8E200129

Lab Sample Numbers or WCD-5411 Due 6/30

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

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

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

Comments on any "No" response:

Analyst: [signature] Date: 5/20/08

Second-Level Review: [signature] Date: 6/24/08

TESTAMERICA - AMENDED REPORT

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J8E140118 W05411 DUE 62708 KM5X8	C.O.C. # S08-005-112 Page 1 of 1

Collector	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S08-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, MAY 2008	HNF N-526-15	Ice Chest No.: 3D 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
B1V7R8		W	5-12-08	1108	1x20-mL P	Activity Scan	None
B1V7R8		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1V7R8		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	D.R. Brunel		5-13-08 1200 MAY 12 2008	KB Hulse	KB Hulse		5-12-08 1200 MAY 12 2008
Relinquished By	KB Hulse	KB Hulse	5-13-08 1445	Received By	KJ LWLANE	TAL	5-13-08 1445
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 - AMENDED REPORT

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J8E140118 W05411 DUE 6 27 08 KM5X9	C.O.C. # S08-005-106 Page 1 of 1

Collector: Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S08-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, MAY 2008	HNF-N-526-15	Ice Chest No.: 3D 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
B1V7R6		W	5-12-08	0944	1x20-mL P	Activity Scan	None
B1V7R6		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1V7R6		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	D. R. Bright		5-13-08 1200 MAY 17 2008		KB Hulse		5-13-08 1200 MAY 17 2008
Relinquished By			Date/Time	Received By			Date/Time
KB Hulse			5-13-08 1445		LJ LANE TAL		5-13-08 1445
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

5-13-08 5-13-08

Matrix *

S	Soil	DS	Drum Solid
SF	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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

JSE140118 WO5411 DUE 62708 KM50A

C.O.C. # **S08-005-118**

Page 1 of 1

Collector D. J. Sparks	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. S08-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, MAY 2008	HWF-N-506-10	**Ice Chest No.** ERL-99-057 **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
B1V7T1		W	5/12/08	0916	1x20-mL P	Activity Scan	None
B1V7T1		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1V7T1		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. J. Sparks			~~MAY 12 2008~~ 5-13-08 1200 DJS 5/12/08	KB Hulse			~~MAY 12 2008~~ 5-13-08 1200 DJS 5/12/08
KB Hulse			5-13-08 1445	LJ LANE	TAL		5-13-08 1445

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 - AMENDED REPORT

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8E140118 W05411 DUE 62708 KM50E

C.O.C. # **S08-005-78**

Page 1 of 1

Collector Scott E. Hamaker	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. S08-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, MAY 2008	K MF-N-506-13	**Ice Chest No.** **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1V7N4		W	5-12-08	1039	1x20-mL P	Activity Scan	None
B1V7N4		W	✓	✓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Scott E. Hamaker	Scott Hamaker		5-13-08 1200	KB Hulse	KB Hulse		5-13-08 1200
KB Hulse	KB Hulse		5-13-08 1445	RJL	LWLANE	TAC	5-13-08 1445
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 - AMENDED REPORT

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J8E140118 W05411 DUE 62708 KMSOF	C.O.C. # S08-005-72 Page 1 of 1

Collector: Scott E. Hamaker	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S08-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, MAY 2008	HNF-N-506-13	Ice Chest No. Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1V7N1		W	5-12-08	1120	1x20-mL P	Activity Scan	None
B1V7N1		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Scott E. Hamaker	Scott Hamaker		5-13-08 1200	KB Hulse	KB Hulse		5-13-08 1200
KB Hulse	KB Hulse		5-13-08 1445	RJ LANE	TAL		5-13-08 1445

Matrix *

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

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8E140118 WO5411 DUE 6 27 08 KM50H

C.O.C. # S08-005-134

Page 1 of 1

Collector: D. J. Sparks	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S08-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, MAY 2008	AWF-N 500-10	Ice Chest No.: ERL-49.057 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
B1V7T8		W	5/12/08	1216	1x20-mL P	Activity Scan	None
B1V7T8		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. J. Sparks			DAW 5/12/08 1200 MAY 12 2008	KB Hulse			DAW 5/12/08 1200 MAY 12 2008
KB Hulse			5-13-08 1445	LJ LANE	TAL		5-13-08 1445

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 - AMENDED REPORT

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TESTAMERICA - AMENDED REPORT

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8F140118 W05411 DHE62708 KM505

C.O.C. # **S08-005-135**

Page 1 of 1

Collector D. J. Sparks	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S08-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, MAY 2008	HNF-N-506-10	Ice Chest No.: ERL-99-657 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
B1V7T9		W	5/12/08	1216	1x20-mL P	Activity Scan	None
B1V7T9		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. J. Sparks			MAY 12 2008 5-13-08 1200	KB Hulse			5-13-08 MAY 12 2008 1200
KB Hulse			5-13-08 1445	LJ LANE	TAL		5-13-08 1445

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 - AMENDED REPORT

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8E140118 W05411 DUE 6 27 08 KM50M

C.O.C. # **S08-005-60**

Page 1 of 1

Collector	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. S08-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, MAY 2008	HNF-N-526-15	**Ice Chest No.** 3D **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
B1V7M5		W	5-12-08	1251	1x20-mL P	Activity Scan	None
B1V7M5		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By	Received By
Print: D. R. Bring Sign: 5-13-08 Date/Time: 1200 MAY 12 2008	Print: KB Hulse Sign: 5-13-08 Date/Time: 1200 MAY 12 2008
Relinquished By: KB Hulse 5-13-08 Date/Time: 1445	Received By: LWLANE TAL 5-13-08 Date/Time: 1445
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 - AMENDED REPORT

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8E140118 W05411 DUE 6 27 08 KM50P

C.O.C. # **S08-005-124**

Page 1 of 1

Collector D. J. Sparks	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. S08-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, MAY 2008	HNF-W-506-10	**Ice Chest No.** ERC-99-057 **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
B1V7T4		W	5/12/08	1009	1x20-mL P	Activity Scan	None
B1V7T4		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	D. J. Sparks		5-13-08 1200 ~~MAY 12 2008~~		KB Hulse		~~MAY 12 2008~~ 5-13-08 1445
KB Hulse			5-13-08 1445		LJ LANE	TAL	5-13-08

Matrix *

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

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8E140118 W05411 DUE 6 27 08 KMSOR

C.O.C. # **S08-005-130**

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Collector D. J. Sparks	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. S08-005	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURV, MAY 2008	HNF-N-506-10	Ice Chest No. ERC-99-057 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
B1V7T7		W	5/12/08	1056	1x20-mL P	Activity Scan	None
B1V7T7		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. J. Sparks			DAW 5/12/08 MAY 12 2008 5-13-08 1200	KB Hulse			DAW 5/12/08 5-13-08 MAY 12 2008 1200
KB Hulse			5-13-08 1445	LJLANE	TAL		5-13-08 1445

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: 5 13 08 1445 GM Screen Result 0.1K

Client: PGW SDG #: W0541 NA[ ] SAF #: 508-005 NA [ ]

Work Order Number: J8E140118 Chain of Custody # 508-005-130,-135,-134,-124,-118, -106,-72,-78,-60,-112

Shipping Container ID: _____ Air Bill # _____

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

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

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

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

6. Number of samples in shipping container: 10

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

8 Samples have:
_____ Tape
✓ Custody Seals
_____ Hazard Lables
✓ Appropriate Sample Lables

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

10 Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ] Amount HNO_3 Added _____

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

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

13 Description of anomalies (include sample numbers): _____

Sample Custodian: RJ Date: 5 13 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 - AMENDED REPORT

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8E140359 W05411 Due 06-27-07

C.O.C. # **W08-005-278**

Page 1 of 1

Collector R. A. Shepard	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. W08-005	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA MAY 2008	AMF-N-526-15	Ice Chest No. GRP-03026 Temp.
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol RCRA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1V812		W	5-13-08	0926	1x20-mL P	Activity Scan	None
B1V812		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1V812		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						KM 7/21/08	

Relinquished By	Date/Time	Received By	Date/Time
Print: R. A. Shepard Sign: [signature]	1330 MAY 13 2008	Print: D.R. Brewington Sign: D.R. Brewington	1330 MAY 13 2008
Print: D.R. Brewington Sign: D.R. Brewington	1420 5-14-08	Print: L. LANE TAL Sign: [signature]	1420 5-14-08

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 - AMENDED REPORT

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8E140359 W05411 Due 06-27-07

C.O.C. # **W08-005-284**

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Collector R. A. Shepard	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. W08-005	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA MAY 2008	HAF-N-506-15	Ice Chest No. CRP-03-026 Temp.
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol RCRA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1V816		W	5-13-08	1024	1x20-mL P	Activity Scan	None
B1V816		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1V816		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1V816		W	↓	↓	1x1000-mL G/P	NI63_LSC: Nickel-63 (1)	HNO3 to pH <2
						KM729	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. A. Shepard			MAY 13 2008 5-14-08 1370	D.R. Brewington		D.R. Brewington	5/15/08 1330 MAY 13 2008 5-14-08
D.R. Brewington		D.R. Brewington	5/15/08 1420 5-14-08	RR LVLANE TAL			1420 5-14-08
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8E140359 W05411 Due 06-27-07

C.O.C. # W08-005-294

Collector: R. A. Shepard	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA MAY 2008	HNF-N-506-15	Ice Chest No.: GRP 03-026 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1V823		W	5-13-08	1144	1x20-mL P	Activity Scan	None
B1V823		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						KM73L	

Relinquished By	Date/Time	Received By	Date/Time
R. A. Shepard / Print / Sign	5/15/08 1330 MAY 13 2008	D.R. Brewington / Print / Sign	5/13/08 1330 5-14-08 MAY 13 2008
D.R. Brewington / D.R. Brewington	5-14-08 1420	D.R. Brewington / D.R. Brewington	5-14-08 1420
D.R. Brewington / D.R. Brewington	5-14-08	R.R. Lane / J. Lane TAL	5-14-08
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

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

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

TESTAMERICA AMENDED REPORT

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TestAmerica

Sample Check-in List

Date/Time Received: 05/14/08 1420 **GM Screen Result** 0.1K

Client: PGW **SDG #:** W05411 NA[ ] **SAF #:** W08-005 NA [ ]

Work Order Number: J8E140359 **Chain of Custody #** W08-005-278, 284, 294

Shipping Container ID: _____ **Air Bill #** _____

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

Sample Custodian: _____ **Date:** 05/14/08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary, process as is

Project Manager _____ Date _____

LS-023, Rev. 7, 1/08

TESTAMERICA - AMENDED REPORT

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8E150338 WO5411 DUE 6 30 08 KNAKN

C.O.C. # **I08-035-2**

Page 1 of 1

Collector R. Ellingsworth	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. I08-035	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 100HR3IAM(1/2) MAY 2008	HNF-N-506-10	Ice Chest No. SINL-461 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
B1V5B9		W	5/15/08	1309	~~1x500~~ 100 mL aG 5/15/08	7196_CR6: Hexavalent Chromium (1)	Cool~4C
B1V5B9		W	↓	↓	1x20-mL P	Activity Scan	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. Ellingsworth			MAY 15 2008 1525		LULANE	TAL	MAY 15 2008 1525
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: 51508 1525 GM Screen Result 0.1K

Client: PGW SDG #: W05411 NA[ ] SAF #: I08-035 NA [ ]

Work Order Number: J8E150338 Chain of Custody # I08-035-2

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: _____ Date: 51508

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TESTAMERICA - AMENDED REPORT

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8E200122 W05411 DUE 63008 KNHA7

C.O.C. # **I08-037-29**

Page 1 of 1

Collector: FLUOR HANFORD R.E. CARRIGAN	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I08-037	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2UP1 MAY 2008	HNF-N-526-15	Ice Chest No.: SMC-600 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS **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
B1V676		W	51608	1219	1x20-mL P	Activity Scan	None
B1V676		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD R.E. CARRIGAN	R.E. Carrigan		MAY 16 2008 1345				MAY 16 2008 1345
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 51608 1345 GM Screen Result 0.1K

Client: PGW SDG #: W05411 NA[ ] SAF #: I08-037 NA [ ]

Work Order Number: J8E200122 Chain of Custody # I08-037-29

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 Custocy 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: 51908

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TESTAMERICA - AMENDED REPORT

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8E200125 W05411 DUE 63008 KNHCL

C.O.C. # **S08-004-849**

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Collector: FLUOR HANFORD R.E. CARRIGAN	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S08-004	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, APRIL 2008	HNF-N-506-15	Ice Chest No.: SML-600 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** 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
B1TWK9		W	5-15-08	0922	1x20-mL P	Activity Scan	None
B1TWK9		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1TWK9		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1TWK9		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD R.E. CARRIGAN	R.E. Carrigan		MAY 16 2008 5-16-2008	Rhonda Vogas			DRB 5-16-08 MAY 16 2008 5-16-2008 1345
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S	– Soil	DS	– Drum Solid
SF	– Sediment	DL	– Drum 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: 51608 1345 GM Screen Result 0.1K

Client: PGW SDG #: W05411 NA[ ] SAF #: 508-004 NA [ ]

Work Order Number: J8E200125 Chain of Custody # 508-004-849

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: RJL Date: 51908

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TESTAMERICA - AMENDED REPORT

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8E200129 W05411 DNE63008 KNHDP

C.O.C. # **S08-004-1099**

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Collector D. Woehle	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-506-13	Ice Chest No. SAMS-115 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
B1V2J7		W	5-15-08	1410	1x20-mL P	Activity Scan	None
B1V2J7		W	↓	↓	1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	Cool~4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. Woehle			MAY 15 2008 0900	RB Hulse			MAY 15 2008 0900
RB Hulse			5-16-08 1000	David HARBINSON			5-16-08 1000

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 - AMENDED REPORT

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8E200129 W05411 DUE 63008 KNHDW

C.O.C. # **S08-004-1105**

Page 1 of 1

Collector D. Woehle	**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-506-13	**Ice Chest No.** SMC05-115 **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
B1V2K3		W	5-15-08	1150	1x20-mL P	Activity Scan	None
B1V2K3		W			3x1000-mL G/P	GAMMA_GS: List-1 (10)	HNO3 to pH <2
B1V2K3		W			1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	HNO3 to pH <2
B1V2K3		W			1x~~500~~ 1000-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1V2K3		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1V2K3		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1V2K3		W			2x4000-mL G/P	I129_SEP_LEPS_GS: I-129 (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. Woehle			MAY 15 2008 0900	KB Hulse			MAY 15 2008 0900
KB Hulse			5-16-08 1000	David HARBINSON			5-16-08 1000

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: 51608 1000 GM Screen Result 0 1 K

Client: PGW SDG #: W05411 NA[ ] SAF #: 508-004 NA [ ]

Work Order Number: J8E200129 Chain of Custody # 508-004-1099,-1105

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ✓ Custody Seals
   - ____ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ] Amount HNO_3 Added _____
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 51908

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary, process as is.

Project Manager _____ Date _____

TESTAMERICA AMENDED REPORT

114

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8E200132 W05411 DUE 63008 KNHDH

C.O.C. # **I08-038-77**

Page 1 of 1

Collector D. Woehle	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-038	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2ZP1, MAY 2008	HNF-N-506-12	**Ice Chest No.** **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol 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
B1V6N1		W	5-14-08	0925	1x20-mL P	Activity Scan	None
B1V6N1		W	1	1	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. Woehle		[signature]	5-16-08 0900	KS Halse		[signature]	5-16-08 0900
KS Halse		[signature]	5-16-08 1000	David Hardinson		[signature]	5-16-08 1000

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 AMENDED REPORT

115

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8E200132 W05411 DUE 6 3008 KNHDT

C.O.C. # **I08-038-78**

Page 1 of 1

Collector D. Woehle	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
IAF No. I08-038	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 22P1 MAY 2008	HNF-N-506-12	**Ice Chest No.** **Temp.**
Shipped To (Lab) TestAmerica Incorporated Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol 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
B1V6N2		W	5-14-08	0800	1x20-mL P	Activity Scan	None
B1V6N2		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. Woehle			5-16-08 0900	KB Hulse			5-16-08 0900
KB Hulse			5-16-08 1000	DAVID HARBINSOE			5-16-08 1000

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: 51608 1000 GM Screen Result 0.1K

Client: PGW SDG #: W05411 NA[ ] SAF #: I08-038 NA [ ]

Work Order Number: J8E200132 Chain of Custody # I08-038-77,-78

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ✓ Custody Seals
   - ✓ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles
   (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ] Amount HNO_3 Added _____
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 51908

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary, process as is.

Project Manager _____ Date _____

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

RE-COUNT REQUEST

DUE DATE 6-30

CUSTOMER PGW

ANALAYSIS Pu

MATRIX H_2O

LOT NUMBER J8E200129

SAMPLE DELIVERY GROUP

OLD BATCH NUMBER ~~8151507~~ 8141507

NEW BATCH NUMBER

LAB SAMPLE ID	CLIENT ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1) KNHDW/IGF	384868	SMEARING
2)		
3)		
4)		STRIP DISK &
5)		
6)		
7)		PUT THROUGH COLUMN
8)		
9)		
10)		AGAIN.
11)		
12)		
13)		
14)		
15)		
16)		
17)		
18)		
19)		
20)		

RC-126, 12/07, Rev 5

TESTAMERICA - AMENDED REPORT

6/13/2008 2:26:56 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 06/30/2008

6D Pu PrpRC5016, SepRC5010(5039)
SO Plutonium-238,239/40 by Alpha Spec
5I CLIENT: HANFORD

Balance Id:11

Pipet #: _____

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ManisD

Batch: 8141507 **WATER** **pCi/L** **PM, Quote: SS , 57671**

SEQ Batch, Test: None All Tests: 8141332 88EA, 8141507 6DSO, 8141508 DHSS, 8141509 AZS7, 8141511 BCS8, 8141513 AWTA, 8141515 BNTB, 8141517 FPS5,

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 KNHDW-1-AF J8E200129-2-SAMP 05/15/2008 11:50	AmtRec: VIAL20,500MLP,6XLP,2X4LP #Containers: 10	200.17g,in	putc11130 05/14/08,pd 06/07/04,r	200		Scr:	Alpha: 1.45E-03 uCi/Sa	Beta: -3.30E-03 uCi/Sa
2 KNHDW-1-AJ-X J8E200129-2-DUP 05/15/2008 11:50	AmtRec: VIAL20,500MLP,6XLP,2X4LP #Containers: 10	200.16g,in	putc11131 05/14/08,pd 06/07/04,r	200		Scr:	Alpha: 1.45E-03 uCi/Sa	Beta: -3.30E-03 uCi/Sa
3 KNHDW-2-AF J8E200129-2-SAMP 05/15/2008 11:50	AmtRec: VIAL20,500MLP,6XLP,2X4LP #Containers: 10			200		Scr:	Alpha: 1.45E-03 uCi/Sa	Beta: -3.30E-03 uCi/Sa
4 KNJVT-1-AA-B J8E200000-507-BLK 05/15/2008 11:50	AmtRec:	200.12g,in	putc11132 05/14/08,pd 06/07/04,r	200		Scr:	Alpha:	Beta:
5 KNJVT-1-AC-C J8E200000-507-LCS 05/15/2008 11:50	AmtRec:	200.65g,in	pusg0970 05/14/08,pd 06/07/04,r	200		Scr:	Alpha:	Beta:

Comments:

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

KNHDW1AF-SAMP Constituent List:

PU-238	RDL:1	pCi/L	LCL:	UCL:	RPD:	PU-239	RDL:1	pCi/L	LCL:70	UCL:130	RPD:20

6/19/2008 2:20:53 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/20/2007, 6/24/2008, Batch: '8141507', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8141507						
AC		**Rev1C**	**ManisD**	6/9/2008 1:04:56 PM		
SC			wagarr	IsBatched	5/20/2008 3:31:01 PM	ICOC_RADCALC v4.8.32
SC			ManisD	InPrep	6/9/2008 1:04:56 PM	RICH-RC-5016 REV 7
SC			ManisD	InPrep2	6/9/2008 5:17:28 PM	RICH-RC-5086 REV 3
SC			ManisD	InSep1	6/10/2008 6:59:34 AM	RICH-RC-5087 REV 1
SC			AshworthA	Sep2C	6/11/2008 11:57:03 AM	RICH-RC-5039 REV5
SC			DAWKINSO	CalcC	6/11/2008 8:23:17 PM	RICH-RD-0008 REVISION 4
SC			ManisD	InSep1	6/17/2008 2:45:59 PM	RICH-RC-5087 REV 3
SC			DAWKINSO	CalcC	6/18/2008 7:24:54 PM	RICH-RD-0003 REVISION 5
SC			nortonj	Rev1C	6/19/2008 2:20:45 PM	RICH-RC-0002 REV 8
AC			**ManisD**	6/9/2008 5:17:28 PM		
AC			**ManisD**	6/10/2008 6:59:34		
AC			**AshworthA**	6/11/2008 11:57:03		
AC			**DAWKINSO**	6/11/2008 8:23:17 PM		
AC			**ManisD**	6/17/2008 2:45:59 PM		
AC			**DAWKINSO**	6/18/2008 7:24:54 PM		
AC			**nortonj**	6/19/2008 2:20:45 PM		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 8

ICOCFractions v4.8.33

TESTAMERICA - AMENDED REPORT

6/12/2008 1:36:28 PM

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 06/30/2008 W0541

Batch: 8141509 **WATER** **pCi/L**

SEQ Batch, Test: None

Sample Preparation/Analysis

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

PM, Quote: SS , 57671

Balance Id:1120482733

Pipet #: 245

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,HarrisD | Back

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KNHCL-1-AA J8E200125-1-SAMP 05/15/2008 09:22		116.30g,in AmtRec: VIAL20,LP,3X4LP #Containers: 5		1.5	49.8	100	10.7	1119	6/12/08	Scr: Alpha: 1.22E-03 uCi/Sa Beta: 1.06E-03 uCi/Sa
2 KNHCL-1-AF-X J8E200125-1-DUP 05/15/2008 09:22		116.10g,in AmtRec: VIAL20,LP,3X4LP #Containers: 5			50.7		10B			Scr: Alpha: 1.22E-03 uCi/Sa Beta: 1.06E-03 uCi/Sa
3 KNHDW-1-AA J8E200129-2-SAMP 05/15/2008 11:50		200.30g,in AmtRec: VIAL20,500MLP,6XLP,2X4LP #Containers: 10			15.3	50	10C			Scr: Alpha: 1.45E-03 uCi/Sa Beta: -3.30E-03 uCi/Sa
4 KNJV1-1-AA-B J8E200000-509-BLK 05/15/2008 09:22		200.30g,in AmtRec: #Containers: 1			0.4	100	10D			Scr: Alpha: Beta:
5 KNJV1-1-AC-C J8E200000-509-LCS 05/15/2008 09:22		200.20g,in AmtRec: #Containers: 1	ASD4492 05/27/08,pd 06/01/011		0.8		10E			Scr: Alpha: Beta:

Comments: PH2.0 Aliquot reduced due to ct screens DLH 6/12/08
KNHDW1AA. Counted 100 min to full batch 6/17/08

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

KNHCL1AA-SAMP Constituent List:
ALPHA RDL:3 pCi/L LCL: UCL: RPD:

TAL Richland Richland Wa.
Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added
Page 1
ISV - Insufficient Volume for Analysis
WO Cnt: 5
Prep_SamplePrep v4.8.32

120

6/12/2008 1:36:29 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 06/30/2008

Sep1 DT/Tm Tech:

Batch: 8141509 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD

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

```
KNJV11AA-BLK:
  ALPHA       RDL:3          pCi/L     LCL:       UCL:       RPD:
KNJV11AC-LCS:
  Am-241      RDL:           pCi/L     LCL:70     UCL:130    RPD:20
KNHCL1AA-SAMP Calc Info:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
KNJV11AA-BLK:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
KNJV11AC-LCS:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

Approved By _____ Date: _____

6/18/2008 11:04:13 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/19/2007, 6/23/2008, Batch: '8141509', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8141509						
AC		Rev1C	HarrisD	6/12/2008 1:33:55 PM		
SC			wagarr	IsBatched	5/20/2008 3:31:01 PM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	6/12/2008 1:33:55 PM	RICH-RC-5014 Revision 7
SC			HarrisD	Prep1C	6/12/2008 1:36:31 PM	RICH-RC-5014 REVISION 7
SC			BockJ	InPrep2	6/16/2008 7:25:37 AM	RICH-RC-5014 REVISION 7
SC			BockJ	Prep2C	6/17/2008 9:16:03 AM	RICH-RC-5014 REVISION 7
SC			BlackCL	InCnt1	6/17/2008 9:26:37 AM	RICH-RD-0003 REVISION 5
SC			ClarkR	CalcC	6/17/2008 12:17:19 PM	RICH-RD-0003 REVISION 5
SC			antonsonl	Rev1C	6/18/2008 11:04:08 AM	RICH-RC-0002 REV 8
AC			HarrisD	6/12/2008 1:36:31 PM		
AC			BockJ	6/16/2008 7:25:37		
AC			BockJ	6/17/2008 9:16:03		
AC			BlackCL	6/17/2008 9:26:37		
AC			ClarkR	6/17/2008 12:17:19		
AC			antonsonl	6/18/2008 11:04:08		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt:7

ICOCFractions v4.8.34

TESTAMERICA - AMENDED REPORT

6/12/2008 2:00:00 PM

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 06/30/2008 W05411

Batch: 8141511 WATER pCi/L

SEQ Batch, Test: None

Sample Preparation/Analysis

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

PM, Quote: SS , 57671

Balance Id:1120482733
Pipet #: 245

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,HarrisD | Back 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 KNHCL-1-AC J8E200125-1-SAMP 05/15/2008 09:22	AmtRec: VIAL20,LP,3X4LP #Containers: 5	169.40g,in		1.5	124.4	100	28A	1112	6/12/08 S Scr: Alpha: 1.22E-03 uCi/Sa	Beta: 1.06E-03 uCi/Sa
2 KNHDW-1-AC J8E200129-2-SAMP 05/15/2008 11:50	AmtRec: VIAL20,500MLP,6XLP,2X4LP #Containers: 10	200.20g,in			31.1		28B		Scr: Alpha: 1.45E-03 uCi/Sa	Beta: -3.30E-03 uCi/Sa
3 KNHDW-1-AM-X J8E200129-2-DUP 05/15/2008 11:50	AmtRec: VIAL20,500MLP,6XLP,2X4LP #Containers: 10	200.00g,in			29.9		28C		Scr: Alpha: 1.45E-03 uCi/Sa	Beta: -3.30E-03 uCi/Sa
4 KNJV3-1-AA-B J8E200000-511-BLK 05/15/2008 11:50	AmtRec: #Containers: 1	200.20g,in			0.2		28D		Scr: Alpha:	Beta:
5 KNJV3-1-AC-C J8E200000-511-LCS 05/15/2008 11:50	AmtRec: #Containers: 1	200.10g,in	BESB3261 05/27/08,pd 10/11/06 r		0.2		31A		Scr: Alpha:	Beta:

Comments: Pkt 2.0 Aliquot reduced due to wt screens Att 6/12/08

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

KNHCL1AC-SAMP Constituent List:
BETA RDL:4 pCi/L LCL: UCL: RPD:

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: 5
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4.8.32

6/12/2008 2:00:01 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: 06/30/2008

Sep1 DT/Tm Tech:

Batch: 8141511 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:

```
KNJV31AA-BLK:
  BETA        RDL:4          pCi/L    LCL:       UCL:       RPD:
KNJV31AC-LCS:
  Sr-90       RDL:           pCi/L    LCL:70     UCL:130    RPD:20
KNHCL1AC-SAMP Calc Info:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
KNJV31AA-BLK:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
KNJV31AC-LCS:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

Approved By _____ Date: _____

6/18/2008 10:5' :31 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/19/2007, 6/23/2008, Batch: '8141511', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8141511						
AC		Rev1C	HarrisD	6/12/2008 1:47:40 PM		
SC			wagarr	IsBatched	5/20/2008 3:31:01 PM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	6/12/2008 1:47:40 PM	RICH-RC-5014 Revision 7
SC			HarrisD	Prep1C	6/12/2008 1:59:39 PM	RICH-RC-5014 REVISION 7
SC			BockJ	InPrep2	6/16/2008 7:25:47 AM	RICH-RC-5014 REVISION 7
SC			BockJ	Prep2C	6/17/2008 9:16:15 AM	RICH-RC-5014 REVISION 7
SC			BlackCL	InCnt1	6/17/2008 9:26:46 AM	RICH-RD-0003 REVISION 5
SC			ClarkR	CalcC	6/17/2008 12:14:54 PM	RICH-RD-0003 REVISION 5
SC			antonsonl	Rev1C	6/18/2008 10:51:18 AM	RICH-RC-0002 REV 8
AC			HarrisD	6/12/2008 1:59:39 PM		
AC			BockJ	6/16/2008 7:25:47		
AC			BockJ	6/17/2008 9:16:15		
AC			BlackCL	6/17/2008 9:26:46		
AC			ClarkR	6/17/2008 12:14:54		
AC			antonsonl	6/18/2008 10:51:18		

AC: Accepting Entry; SC: Status Change

TESTAMERICA - AMENDED REPORT

6/11/2008 9:18:24 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #:

AnalyDueDate: 06/27/2008 LW5411

Sep1 DT/Tm Tech:

Batch: 8141512 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 8141512 AWTA, 8141514 BNTB, 8141518 AMS5,

Prep Tech: ,HarrisD Back 4.

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 KM5X8-1-AA J8E140118-1-SAMP 05/12/2008 11:08	AmtRec: VIAL20,3X4LP	2000.00g,in	#Containers: 4		1-20mL	200	65	1310	6/16/08	Scr: Alpha: 2.47E-04 uCi/Sa Beta: -6.43E-04 uCi/Sa
2 KM5X9-1-AA J8E140118-2-SAMP 05/12/2008 09:44	AmtRec: VIAL20,3X4LP	2000.50g,in	#Containers: 4				615	1310		Scr: Alpha: 1.20E-02 uCi/Sa 1.8E-01L Beta: -1.70E-03 uCi/Sa
3 KM50A-1-AA J8E140118-3-SAMP 05/12/2008 09:16	AmtRec: VIAL20,3X4LP	2000.10g,in	#Containers: 4				66	1311		Scr: Alpha: 3.70E-03 uCi/Sa Beta: 1.51E-04 uCi/Sa
4 KM50H-1-AA J8E140118-6-SAMP 05/12/2008 12:16	AmtRec: VIAL20,4LP	1999.70g,in	#Containers: 2				67	1312		Scr: Alpha: 1.31E-03 uCi/Sa Beta: 1.15E-03 uCi/Sa
5 KM50H-1-AC-X J8E140118-6-DUP 05/12/2008 12:16	AmtRec: VIAL20,4LP	see comments	#Containers: 2				68 68	1637	6/16/08	Scr: Alpha: 1.31E-03 uCi/Sa Beta: 1.15E-03 uCi/Sa
6 KM50J-1-AA J8E140118-7-SAMP 05/12/2008 12:16	AmtRec: VIAL20,4LP	2000.00g,in	#Containers: 2				610	1312	6/16/08	Scr: Alpha: 1.85E-03 uCi/Sa Beta: -8.19E-05 uCi/Sa
7 KM72W-1-AA J8E140359-1-SAMP 05/13/2008 09:26	AmtRec: 20ML,3X4LP	2000.00g,in	#Containers: 4				611	1312		Scr: Alpha: -3.63E-03 uCi/Sa Beta: 2.27E-03 uCi/Sa

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TESTAMERICA - AMENDED REPORT

6/11/2008 9:18:25 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 06/27/2008

Sep1 DT/Tm Tech:

Batch: 8141512 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 KM729-1-AA J8E140359-2-SAMP 05/13/2008 10:24	AmtRec: 20ML,LP,3X4LP	2000.30g,in	#Containers: 5		100mL	200	613	1312	6/10/08	Scr: Alpha: 3.65E-03 uCi/Sa Beta: 1.17E-03 uCi/Sa
9 KNHCL-1-AD J8E200125-1-SAMP 05/15/2008 09:22	AmtRec: VIAL20,LP,3X4LP	2000.40g,in	#Containers: 5				614	1313		Scr: Alpha: 1.22E-03 uCi/Sa Beta: 1.06E-03 uCi/Sa
10 KNJV4-1-AA-B J8E200000-512-BLK 05/12/2008 12:16	AmtRec:	2000.10g,in	#Containers: 1				68	1313		Scr: Alpha: Beta:
11 KNJV4-1-AC-C J8E200000-512-LCS 05/12/2008 12:16	AmtRec:	2000.10g,in	QCAG1482 04/23/08,pd 06/11/05 r #Containers: 1				67	1637	6/11/08	Scr: Alpha: Beta:

Comments: KM50H-SAMP "Comments: isv for gamma dup. please recount on a different detector. DLH 6/11/08"

PH20.0 DLH 6/11/08

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

KM5X81AA-SAMP Constituent List:

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

KNJV41AA-BLK:

6/17/2008 3:22:59 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/18/2007, 6/22/2008, Batch: '8141512', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8141512						
AC		**Rev1C**	**HarrisD**	6/11/2008 9:05:23		
SC			wagarr	IsBatched	5/20/2008 3:31:01 PM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	6/11/2008 9:05:23 AM	RICH-RC-5017 Revision 6
SC			HarrisD	Prep1C	6/11/2008 9:18:47 AM	RICH-RC-5017 REVISION 6
SC			BockJ	InPrep2	6/12/2008 11:54:07 AM	RICH-RC-5017 REVISION 6
SC			BockJ	Prep2C	6/16/2008 9:37:15 AM	RICH-RC-5017 REVISION 6
SC			BlackCL	InCnt1	6/16/2008 9:43:45 AM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	CalcC	6/16/2008 9:52:45 PM	RICH-RD-0007 REVISION 6
SC			nortonj	Rev1C	6/17/2008 3:22:49 PM	RICH-RC-0002 REV 8
AC			**HarrisD**	6/11/2008 9:18:47		
AC			**BockJ**	6/12/2008 11:54:07		
AC			**BockJ**	6/16/2008 9:37:15		
AC			**BlackCL**	6/16/2008 9:43:45		
AC			**DAWKINSO**	6/16/2008 9:52:45 PM		
AC			**nortonj**	6/17/2008 3:22:49 PM		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 7

ICOCFractions v4.8.33

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

RE-COUNT REQUEST

DUE DATE 6-30

CUSTOMER PGW

ANALAYSIS γ

MATRIX H_2O

LOT NUMBER J8E200129

SAMPLE DELIVERY GROUP W05411

OLD BATCH NUMBER 8141513

NEW BATCH NUMBER

LAB SAMPLE ID	CLIENT ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1) KNHDW/1AD	384868	RDL NOT MET
2) KNHDW/1AN X		
3) KNJV9/1AA13		
4) KNJV9/1CC		
5)		
6)		300 ml
7)		
8)		
9)		
10)		
11)		
12)		
13)		
14)		
15)		
16)		
17)		
18)		
19)		
20)		

RC-126, 12/07, Rev 5

6/12/2008 1:04:54 PM

Sample Preparation/Analysis

Balance Id:1120373922

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 06/30/2008

Sep1 DT/Tm Tech:

Batch: 8141513 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 8141332 88EA, 8141507 6DSO, 8141508 DHSS, 8141509 AZS7, 8141511 BCS8, 8141513 AWTA, 8141515 BNTB, 8141517 FPS5,

Prep Tech: ManisD,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:
1 KNHDW-1-AD J8E200129-2-SAMP 05/15/2008 11:50		1000.50g,in AmtRec: VIAL20,500MLP,6XLP,2X4LP #Containers: 10						Scr: Alpha: 1.45E-03 uCi/Sa		Beta: -3.30E-03 uCi/Sa
2 KNHDW-1-AN-X J8E200129-2-DUP 05/15/2008 11:50		1000.48g,in AmtRec: VIAL20,500MLP,6XLP,2X4LP #Containers: 10						Scr: Alpha: 1.45E-03 uCi/Sa		Beta: -3.30E-03 uCi/Sa
[redacted] J8E200129-2-SAMP 05/15/2008 11:50		1000.5 AmtRec: VIAL20,500MLP,6XLP,2X4LP #Containers: 10		100ml	300		65	1813 Scr: Alpha: 1.45E-03 uCi/Sa	6/12/08 mc	Beta: -3.30E-03 uCi/Sa
[redacted] J8E200129-2-DUP 05/15/2008 11:50		1000.48 AmtRec: VIAL20,500MLP,6XLP,2X4LP #Containers: 10		100ml	300		66	1815 Scr: Alpha: 1.45E-03 uCi/Sa		Beta: -3.30E-03 uCi/Sa
5 KNJV9-1-AA-B J8E200000-513-BLK 05/15/2008 11:50		1000.94g,in AmtRec: #Containers: 1						Scr: Alpha:		Beta:
6 KNJV9-1-AC-C J8E200000-513-LCS 05/15/2008 11:50		1000.46g,in AmtRec: #Containers: 1	QCAG1479 04/23/08,pd 06/14/05,r					Scr: Alpha:		Beta:
[redacted] J8E200000-513-BLK 05/15/2008 11:50		1000.94 AmtRec: #Containers: 1		100ml	300		66	1815 Scr: Alpha:	6/12/08 mc	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 ICOC v4.8.32

AMENDED REPORT

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TESTAMERICA - AMENDED REPORT

6/12/2008 1:04:54 PM

Sample Preparation/Analysis

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

AnalyDueDate: 06/30/2008

Batch: 8141513 pCi/L
SEQ Batch, Test: None

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

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
[redacted] J8E200000-513-LCS 05/15/2008 11:50		1000.46	QCAG 1479		100ml	300	G13	1816	6/12/08	

AmtRec: #Containers: 1 Scr: Alpha: Beta:

Comments:

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

KNHDW1AD-SAMP Constituent List:

Co-60	RDL:2.50E+01	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:
Cs-137	RDL:1.50E+01	pCi/L	LCL:70	UCL:130	RPD:20	Cs-137DA	RDL:1.50E+01	pCi/L	LCL:70	UCL:130	RPD:20
Eu-152	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	Eu-154	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:
Eu-155	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
Sb-125	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:						

KNJV91AA-BLK:

Co-60	RDL:2.50E+01	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:
Cs-137	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:	Cs-137DA	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:
Eu-152	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	Eu-154	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:
Eu-155	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
Sb-125	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:						

KNJV91AC-LCS:

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

KNJV92AA-BLK:

KNJV92AC-LCS:

KNHDW1AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

KNJV91AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

KNJV91AC-LCS:

6/12/2008 1:04:54 PM

Sample Preparation/Analysis

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

AnalyDueDate: 06/30/2008

Batch: 8141513 pCi/L
SEQ Batch, Test: None

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

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

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

KNJV92AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

KNJV92AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

6/13/2008 3:06:20 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/14/2007, 6/18/2008, Batch: '8141513', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8141513						
AC		**Rev1C**	**WoodT**	6/10/2008 6:42:48		
SC			wagarr	IsBatched	5/20/2008 3:31:01 PM	ICOC_RADCALC v4.8.32
SC			WoodT	InPrep	6/10/2008 6:42:48 AM	RICH RC 5017 Revision 6
SC			WoodT	Prep1C	6/10/2008 6:55:05 AM	RICH RC 5017 REVISION 6
SC			BockJ	InPrep2	6/10/2008 11:38:05 AM	RICH-RC-5017 REVISION 6
SC			BockJ	Prep2C	6/11/2008 9:27:35 AM	RICH-RC-5017 REVISION 6
SC			ClarkR	InCnt1	6/11/2008 9:30:08 AM	RICH-RD-0007 REVISION 6
SC			ClarkR	CalcC	6/11/2008 2:11:03 PM	RICH-RD-0007 REVISION 6
SC			ClarkR	InCnt1	6/12/2008 1:12:28 PM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	CalcC	6/12/2008 9:43:51 PM	RICH-RD-0007 REVISION 6
SC			nortonj	Rev1C	6/13/2008 3:05:05 PM	RICH-RC-0002 REV 8
AC			**WoodT**	6/10/2008 6:55:05		
AC			**BockJ**	6/10/2008 11:38:05		
AC			**BockJ**	6/11/2008 9:27:35		
AC			**ClarkR**	6/11/2008 9:30:08		
AC			**ClarkR**	6/11/2008 2:11:03 PM		
AC			**ClarkR**	6/12/2008 1:12:28 PM		
AC			**DAWKINSO**	6/12/2008 9:43:51 PM		
AC			**nortonj**	6/13/2008 3:05:05 PM		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 9

ICOCFractions v4.8.33

6/10/2008 7:17:20 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:
Pipet #:

AnalyDueDate: 06/30/2008

Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:

Batch: 8141515 WATER pCi/L PM, Quote: SS , 57671
SEQ Batch, Test: None

Prep Tech: ManisD,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:
1 KNHDW-1-AE J8E200129-2-SAMP 05/15/2008 11:50		500.04g,in AmtRec: VIAL20,500MLP,6XLP,2X4LP #Containers: 10	ITA7305 05/21/08		37.3	100	L2	1554 Scr: Alpha: 1.45E-03 uCi/Sa	6/10/08 S Beta: -3.30E-03 uCi/Sa	
2 KNHDW-1-AP-X J8E200129-2-DUP 05/15/2008 11:50		500.07g,in AmtRec: VIAL20,500MLP,6XLP,2X4LP #Containers: 10	ITA7306 05/21/08		36.8		L4	1555 Scr: Alpha: 1.45E-03 uCi/Sa	Beta: -3.30E-03 uCi/Sa	
3 KNJWC-1-AA-B J8E200000-515-BLK 05/15/2008 11:50		500.09g,in AmtRec: #Containers: 1	ITA7307 05/21/08		36.9		L5	1555 Scr: Alpha:	Beta:	
4 KNJWC-1-AC-C J8E200000-515-LCS 05/15/2008 11:50		500.30g,in AmtRec: #Containers: 1	ISB0285 05/06/08		37.4		L4	1800 Scr: Alpha:	6/10/08 ad Beta:	

Comments:

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

KNHDW1AE-SAMP Constituent List:
I-129 RDL:5.00E+00 pCi/L LCL:70 UCL:130 RPD:20
KNJWC1AA-BLK:
I-129 RDL:5.00E+00 pCi/L LCL: UCL: RPD:
KNJWC1AC-LCS:
I-129 RDL:5 pCi/L LCL:70 UCL:130 RPD:20
KNHDW1AE-SAMP Calc Info:

TESTAMERICA - AMENDED REPORT 134

6/10/2008 7:17:21 AM

Sample Preparation/Analysis

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

AnalyDueDate: 06/30/2008

Batch: 8141515 pCi/L
SEQ Batch, Test: None

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

Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNJWC1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNJWC1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

6/11/2008 2:01:21 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/12/2007, 6/16/2008, Batch: '8141515', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8141515						
AC		**Rev1C**	**WoodT**	6/10/2008 7:17:26		
SC			wagarr	IsBatched	5/20/2008 3:31:01 PM	ICOC_RADCALC v4.8.32
SC			WoodT	InPrep	6/10/2008 7:17:26 AM	RICH-RC-5016 REVISION 7
SC			WoodT	Prep1C	6/10/2008 7:17:39 AM	RICH-RC-5016 REVISION 7
SC			BostedD	InPrep2	6/10/2008 8:06:50 AM	RICHRC5025 REVISION 4
SC			BostedD	Prep2C	6/10/2008 2:09:35 PM	RICHRC5025 REVISION 4
SC			BlackCL	InCnt1	6/10/2008 2:12:44 PM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	CalcC	6/10/2008 8:51:34 PM	RICH-RD-0007 REVISION 6
SC			nortonj	Rev1C	6/11/2008 2:01:16 PM	RICH-RC-0002 REV 8
AC			**WoodT**	6/10/2008 7:17:39		
AC			**BostedD**	6/10/2008 8:06:50		
AC			**BostedD**	6/10/2008 2:09:35 PM		
AC			**BlackCL**	6/10/2008 2:12:44 PM		
AC			**DAWKINSO**	6/10/2008 8:51:34 PM		
AC			**nortonj**	6/11/2008 2:01:16 PM		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 7

ICOCFractions v4.8.33

TESTAMERICA - AMENDED REPORT

6/20/2008 4:44:50 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 06/27/2008 W0541

Batch: 8141514 WATER pCi/L PM, Quote: SS , 57671

SEQ Batch, Test: None

Sep1 DT/Tm Tech:

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:
1 KM5X8-1-AC J8E140118-1-SAMP 05/12/2008 11:08		3767.00g,in AmtRec: VIAL20,3X4LP #Containers: 4	ita7342 06/16/08		33.5	100	L1	1245 Scr: Alpha: 2.47E-04 uCi/Sa	6/26/08	Beta: -6.43E-04 uCi/Sa
2 KM5X9-1-AC J8E140118-2-SAMP 05/12/2008 09:44		3810.10g,in AmtRec: VIAL20,3X4LP #Containers: 4	ita7343 06/16/08		35.0		L4	1246 Scr: Alpha: 1.20E-02 uCi/Sa 1.8E-01L		Beta: -1.70E-03 uCi/Sa
3 KM50A-1-AC J8E140118-3-SAMP 05/12/2008 09:16		3904.80g,in AmtRec: VIAL20,3X4LP #Containers: 4	ita7344 06/16/08		35.0		L5	1247 Scr: Alpha: 3.70E-03 uCi/Sa		Beta: 1.51E-04 uCi/Sa
4 KM50M-1-AA J8E140118-8-SAMP 05/12/2008 12:51		3870.30g,in AmtRec: VIAL20,2X4LP #Containers: 3	ita7345 06/16/08		35.6		L2	1431 Scr: Alpha: 5.95E-03 uCi/Sa 2.4E-01L	6/26/08	Beta: 4.54E-04 uCi/Sa
5 KM50P-1-AA J8E140118-9-SAMP 05/12/2008 10:09		3893.60g,in AmtRec: VIAL20,2X4LP #Containers: 3	ita7346 06/16/08		36.2		L4	1432 Scr: Alpha: -1.29E-04 uCi/Sa		Beta: 1.25E-03 uCi/Sa
6 KM50R-1-AA J8E140118-10-SAMP 05/12/2008 10:56		3876.80g,in AmtRec: VIAL20,2X4LP #Containers: 3	ITA7319 06/16/08		35.4		L5	1433 Scr: Alpha: -1.60E-03 uCi/Sa		Beta: 1.34E-03 uCi/Sa
7 KM50R-1-AC-X J8E140118-10-DUP 05/12/2008 10:56		3886.60g,in AmtRec: VIAL20,2X4LP #Containers: 3	ita7347 06/16/08		35.2		L2	1615 Scr: Alpha: -1.60E-03 uCi/Sa	6/26/08	Beta: 1.34E-03 uCi/Sa

137

6/20/2008 4:44:52 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 06/27/2008

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

Balance Id:1120482733

Pipet #: _____

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,HarrisD

Batch: 8141514 **WATER** **pCi/L** **PM, Quote: SS , 57671**
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 KM72W-1-AC J8E140359-1-SAMP 05/13/2008 09:26	AmtRec: 20ML,3X4LP	3892.90g,in	ita7348 06/16/08	#Containers: 4	35.0	100	L4	1616	6/26/08	Scr: Alpha: -3.63E-03 uCi/Sa Beta: 2.27E-03 uCi/Sa
9 KM729-1-AC J8E140359-2-SAMP 05/13/2008 10:24	AmtRec: 20ML,LP,3X4LP	3861.00g,in	ita7349 06/16/08	#Containers: 5	35.5		L5	1616		Scr: Alpha: 3.65E-03 uCi/Sa Beta: 1.17E-03 uCi/Sa
10 KM73L-1-AA J8E140359-3-SAMP 05/13/2008 11:48	AmtRec: 20ML,2X4LP	3817.70g,in	ita7350 06/16/08	#Containers: 3	35.1		L2	1807	6/26/08	Scr: Alpha: 6.42E-04 uCi/Sa Beta: 2.98E-04 uCi/Sa
11 KNHCL-1-AE J8E200125-1-SAMP 05/15/2008 09:22	AmtRec: VIAL20,LP,3X4LP	3870.90g,in	ita7351 06/16/08	#Containers: 5	35.1		L4	1808		Scr: Alpha: 1.22E-03 uCi/Sa Beta: 1.06E-03 uCi/Sa
12 KNHD4-1-AA J8E200132-1-SAMP 05/14/2008 09:25	AmtRec: VIAL20,2X4LP	3827.70g,in	ita7352 06/16/08	#Containers: 3	35.4		L5	1809		Scr: Alpha: 8.89E-04 uCi/Sa Beta: -5.52E-05 uCi/Sa
13 KNHD7-1-AA J8E200132-2-SAMP 05/14/2008 08:00	AmtRec: VIAL20,2X4LP	3908.40g,in	ita7353 06/16/08	#Containers: 3	35.6		L2	~~2057~~ 2016 6/26/08		Scr: Alpha: -2.13E-03 uCi/Sa Beta: 2.10E-04 uCi/Sa
14 KNJWA-1-AA-B J8E200000-514-BLK 05/16/2008 12:19	AmtRec:	3976.10g,in	ITA7328 06/16/08	#Containers: 1	35.6		L4	2018		Scr: Alpha: Beta:

6/20/2008 4:44:52 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: 06/27/2008

Batch: 8141514 pCi/L
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 KNJWA-1-AC-C J8E200000-514-LCS 05/16/2008 12:19		3969.00g,in AmtRec:	isd0854 04/22/08 #Containers: 1		32.6	100	L5	20 | 8	6/26/08	

Scr: Alpha: Beta:

Comments: Repour due to sample mishap DLH 6/20/08

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

KM5X81AC-SAMP Constituent List:

I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:
KNJWA1AA-BLK:					
I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:
KNJWA1AC-LCS:					
I-129	RDL:5	pCi/L	LCL:70	UCL:130	RPD:20

KM5X81AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNJWA1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNJWA1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

ICOC Fraction Transfer/Status Report

ByDate: 6/28/2007, 7/2/2008, Batch: '8141514'. User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
8141514							
AC			Rev1C	HarrisD	6/17/2008 11:53:33		
SC				wagarr	IsBatched	5/20/2008 3:31:01 PM	ICOC_RADCALC v4.8.32
SC				HarrisD	InPrep	6/17/2008 11:53:33 AM	RICH-RC-5016 Revision 7
SC				HarrisD	Prep1C	6/17/2008 12:39:27 PM	RICH-RC-5017 REVISION 6
SC				BostedD	InPrep2	6/18/2008 1:40:39 PM	RICHRC5025 REVISION 4
SC				HarrisD	Prep1C	6/20/2008 4:44:53 PM	RL-PRP-004 REVISION 0
SC				BostedD	Prep2C	6/26/2008 11:01:43 AM	RL-GAM-002 REVISION 0
SC				ClarkR	InCnt1	6/26/2008 11:04:18 AM	RL-CI-007 REVISION 0
SC				BlackCL	CalcC	6/27/2008 5:59:44 AM	RL-CI-007 REVISION 0
SC				whelands	Rev1C	6/27/2008 10:43:06 AM	RICH-RC-0002 REV 8
AC				HarrisD	6/17/2008 12:39:27		
AC				BostedD	6/18/2008 1:40:39 PM		
AC				HarrisD	6/20/2008 4:44:53 PM		
AC				BostedD	6/26/2008 11:01:43		
AC				ClarkR	6/26/2008 11:04:18		
AC				BlackCL	6/27/2008 5:59:44		
AC				whelands	6/27/2008 10:43:06		

AC: Accepting Entry; SC: Status Change

6/9/2008 10:26:32 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: 06/30/2008

Sep1 DT/Tm Tech:

Batch: 8141517 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 8141332 88EA, 8141507 6DSO, 8141508 DHSS, 8141509 AZS7, 8141511 BCS8, 8141513 AWTA, 8141515 BNTB, 8141517 FPS5,

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 KNHDW-1-AG J8E200129-2-SAMP 05/15/2008 11:50		AmtRec: VIAL20,500MLP,6XLP,2X4LP #Containers: 10	125.01g,in	125.01g		60		Scr:	Alpha: 1.45E-03 uCi/Sa	Beta: -3.30E-03 uCi/Sa
2 KNHDW-1-AQ-S J8E200129-2-MS 05/15/2008 11:50		AmtRec: VIAL20,500MLP,6XLP,2X4LP #Containers: 10	125.01g,in	125.01g	TCSG2065 05/20/08,pd 01/10/06,r			Scr:	Alpha: 1.45E-03 uCi/Sa	Beta: -3.30E-03 uCi/Sa
3 KNHDW-1-AR-X J8E200129-2-DUP 05/15/2008 11:50		AmtRec: VIAL20,500MLP,6XLP,2X4LP #Containers: 10	125.00g,in	125.00g				Scr:	Alpha: 1.45E-03 uCi/Sa	Beta: -3.30E-03 uCi/Sa
4 KNJWE-1-AA-B J8E200000-517-BLK 05/15/2008 11:50		AmtRec: #Containers: 1	125.01g,in	125.01g				Scr:	Alpha:	Beta:
5 KNJWE-1-AC-C J8E200000-517-LCS 05/15/2008 11:50		AmtRec: #Containers: 1	125.00g,in	125.00g	TCSE2224 04/11/08,pd 01/10/06,r			Scr:	Alpha:	Beta:
6 KNJWE-1-AD-BN J8E200000-517-IBLK 05/15/2008 11:50		AmtRec: #Containers: 1						Scr:	Alpha:	Beta:

6/9/2008 10:26:34 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: 06/30/2008

Batch: 8141517 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:

Comments:

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

KNHDW1AG-SAMP Constituent List:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
KNHDW1AQ-MS Constituent List:

KNJWE1AA-BLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
KNJWE1AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
KNJWE1AD-IBLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:

KNHDW1AG-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNHDW1AQ-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNJWE1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNJWE1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNJWE1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

6/12/2008 11:51:13 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/13/2007, 6/17/2008, Batch: '8141517', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8141517						
AC		**Rev1C**	**Barcotl**	6/9/2008 10:26:56		
SC			wagarr	IsBatched	5/20/2008 3:31:01 PM	ICOC_RADCALC v4.8.32
SC			Barcotl	InPrep	6/9/2008 10:26:56 AM	RICH-RC-5016 REVISION 7
SC			Barcotl	Prep1C	6/9/2008 10:27:07 AM	RICH-RC-5016 REVISION 7
SC			Barcotl	InPrep2	6/11/2008 12:32:06 PM	RICH-RC-5065 REVISION 6
SC			Barcotl	Prep2C	6/11/2008 12:32:18 PM	RICH-RC-5065 REVISION 6
SC			ClarkR	InCnt1	6/11/2008 12:52:08 PM	RICH-RD-0001 REVISION 4
SC			ClarkR	CalcC	6/12/2008 7:31:58 AM	RICH-RD-0001 REVISION 4
SC			nortonj	Rev1C	6/12/2008 11:51:04 AM	RICH-RC-0002 REV 8
AC			**Barcotl**	6/9/2008 10:27:07		
AC			**Barcotl**	6/11/2008 12:32:06		
AC			**Barcotl**	6/11/2008 12:32:18		
AC			**ClarkR**	6/11/2008 12:52:08		
AC			**ClarkR**	6/12/2008 7:31:58		
AC			**nortonj**	6/12/2008 11:51:04		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 7

ICOCFractions v4.8.33

6/5/2008 7:52:48 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120373922
Pipet #: _____

AnalyDueDate: 06/27/2008

Sep1 DT/Tm Tech:

Batch: 8141518 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,Barcotl

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 KM50E-1-AA J8E140118-4-SAMP 05/12/2008 10:39		125.00g,in AmtRec: VIAL20,3XLP	#Containers: 4	60		Scr:	Alpha: -2.03E-04 uCi/Sa	Beta: -1.61E-04 uCi/Sa
2 KM50E-1-AC-X J8E140118-4-DUP 05/12/2008 10:39		125.01g,in AmtRec: VIAL20,3XLP	#Containers: 4			Scr:	Alpha: -2.03E-04 uCi/Sa	Beta: -1.61E-04 uCi/Sa
3 KM50F-1-AA J8E140118-5-SAMP 05/12/2008 11:20		125.00g,in AmtRec: VIAL20,3XLP	#Containers: 4			Scr:	Alpha: -3.96E-04 uCi/Sa	Beta: 1.37E-04 uCi/Sa
4 KM50F-1-AC-S J8E140118-5-MS 05/12/2008 11:20		125.00g,in AmtRec: VIAL20,3XLP	TCSG2063 05/20/08,pd #Containers: 4			Scr:	Alpha: -3.96E-04 uCi/Sa	Beta: 1.37E-04 uCi/Sa
5 KNJWG-1-AA-B J8E200000-518-BLK 05/12/2008 10:39		125.01g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 KNJWG-1-AC-C J8E200000-518-LCS 05/12/2008 10:39		125.01g,in AmtRec:	TCSE2222 04/11/08,pd #Containers: 1			Scr:	Alpha:	Beta:
7 KNJWG-1-AD-B J8E200000-518-BLK 05/12/2008 10:39		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

TAL Richland
Richland Wa.

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

ISV - Insufficient Volume for Analysis

WO Cnt: 7
Prep_SamplePrep v4.8.32

TESTAMERICA - AMENDED REPORT

6/5/2008 7:52:50 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 06/27/2008

Batch: 8141518 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:

Comments:

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

KM50E1AA-SAMP Constituent List:
Tc-99 RDL:1.50E+01 pCi/L LCL:70 UCL:130 RPD:20
KM50F1AC-MS:

KNJWG1AA-BLK:

KNJWG1AC-LCS:

KNJWG1AD-BLK:

KM50E1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KM50F1AC-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNJWG1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNJWG1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNJWG1AD-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

6/18/2008 11:24:37 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/19/2007, 6/23/2008, Batch: '8141518', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8141518						
AC		Rev1C	Barcotl	6/5/2008 7:53:00 AM		
SC			wagarr	IsBatched	5/20/2008 3:31:01 PM	ICOC_RADCALC v4.8.32
SC			Barcotl	InPrep	6/5/2008 7:53:00 AM	RICH-RC-5016 REVISION 7
SC			Barcotl	Prep1C	6/5/2008 7:53:12 AM	RICH-RC-5016 REVISION 7
SC			Barcotl	InPrep2	6/12/2008 9:05:53 AM	RICH-RC-5078 REVISION 4
SC			Barcotl	Prep2C	6/12/2008 9:06:58 AM	RICH-RC-5078 REVISION 4
SC			ClarkR	InCnt1	6/12/2008 9:13:51 AM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	6/13/2008 6:13:42 AM	RICH-RD-0001 REVISION 4
SC			antonsonl	Rev1C	6/18/2008 11:24:15 AM	RICH-RC-0002 REV 8
AC			Barcotl	6/5/2008 7:53:12 AM		
AC			Barcotl	6/12/2008 9:05:53		
AC			Barcotl	6/12/2008 9:06:58		
AC			ClarkR	6/12/2008 9:13:51		
AC			BlackCL	6/13/2008 6:13:42		
AC			antonsonl	6/18/2008 11:24:15		

AC: Accepting Entry; SC: Status Change

TESTAMERICA - AMENDED REPORT

6/12/2008 3:02:19 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AA Ni-63 PrpRC5016, SepRC5069
S4 Nickel by ICP and Nickel-63 by Liquid Scint
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 06/27/2008

205411

Sep1 DT/Tm Tech:

Batch: 8141516 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 8141512 AWTA, 8141514 BNTB, 8141516 AAS4,

Prep Tech: ,HarrisD

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 KM729-1-AD J8E140359-2-SAMP 05/13/2008 10:24		AmtRec: 20ML,LP,3X4LP	400.00g,in	400.00g #Containers: 5	NITA2501 03/13/08	100		Scr:	Alpha: 3.65E-03 uCi/Sa	Beta: 1.17E-03 uCi/Sa
2 KM729-1-AE-X J8E140359-2-DUP 05/13/2008 10:24		AmtRec: 20ML,LP,3X4LP	400.30g,in	400.30g #Containers: 5	NITA2528 06/05/08			Scr:	Alpha: 3.65E-03 uCi/Sa	Beta: 1.17E-03 uCi/Sa
3 KNJWD-1-AA-B J8E200000-516-BLK 05/13/2008 10:24		AmtRec:	400.30g,in	400.30g #Containers: 1	NITA2529 06/05/08			Scr:	Alpha:	Beta:
4 KNJWD-1-AC-C J8E200000-516-LCS 05/13/2008 10:24		AmtRec:	400.30g,in	400.30g #Containers: 1	NISA0798 03/13/08			Scr:	Alpha:	Beta:
5 KNJWD-1-AD-BN J8E200000-516-IBLK 05/13/2008 10:24		AmtRec:		#Containers: 1	NITA2530 06/05/08			Scr:	Alpha:	Beta:

Comments:

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

KM7291AD-SAMP Constituent List:
Ni-63 RDL:15 pCi/L LCL:70 UCL:130 RPD:20

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: 5
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4.8.32

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6/12/2008 3:02:20 PM

Sample Preparation/Analysis

AA Ni-63 PrpRC5016, SepRC5069
S4 Nickel by ICP and Nickel-63 by Liquid Scint
5I CLIENT: HANFORD

Balance Id:E32905
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ManisD

AnalyDueDate: 06/27/2008

Batch: 8141516 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:

```
KNJWD1AA-BLK:
  Ni-63        RDL:15          pCi/L     LCL:        UCL:        RPD:
KNJWD1AC-LCS:
  Ni-63        RDL:15          pCi/L     LCL:70      UCL:130     RPD:20
KNJWD1AD-IBLK:
  Ni-63        RDL:15          pCi/L     LCL:        UCL:        RPD:
KM7291AD-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
KNJWD1AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
KNJWD1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
KNJWD1AD-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

7/1/2008 2:53:36 PM

ICOC Fraction Transfer/Status Report

ByDate: 7/2/2007, 7/6/2008, Batch: '8141516', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8141516						
AC		Rev1C	HarrisD	6/5/2008 3:53:57 PM		
SC			wagarr	IsBatched	5/20/2008 3:31:01 PM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	6/5/2008 3:53:57 PM	RICH-RC-5014 Revision 7
SC			HarrisD	Prep1C	6/5/2008 4:04:24 PM	RICH-RC-5016 REVISION 7
SC			ManisD	Sep1C	6/13/2008 10:49:14 AM	RICH-RC-5069 REV 6
SC			ClarkR	InCnt1	6/13/2008 11:03:14 AM	RICH-RD-0001 REVISION 4
SC			DAWKINSO	CalcC	6/16/2008 9:57:39 PM	RICH-RD-0001 REVISION 4
SC			nortonj	Rev1C	7/1/2008 2:53:17 PM	RICH-RC-0002 REV 8
AC			HarrisD	6/5/2008 4:04:24 PM		
AC			ManisD	6/13/2008 10:49:14		
AC			ClarkR	6/13/2008 11:03:14		
AC			DAWKINSO	6/16/2008 9:57:39 PM		
AC			nortonj	7/1/2008 2:53:17 PM		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8 33

TESTAMERICA - AMENDED REPORT

6/10/2008 3:50:58 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 06/30/2008 1WS2111

Sep1 DT/Tm Tech:

Batch: 8141508 WATER ug/L

PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ManisD,HarrisD/Back

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 KNHDW-1-AH J8E200129-2-SAMP 05/15/2008 11:50		25.20g,in AmtRec: VIAL20,500MLP,6XLP,2X4LP #Containers: 10				Scr:	Alpha: 1.45E-03 uCi/Sa	Beta: -3.30E-03 uCi/Sa
2 KNHDW-1-AK-S J8E200129-2-MS 05/15/2008 11:50		25.00g,in AmtRec: VIAL20,500MLP,6XLP,2X4LP #Containers: 10	UNSF4235 05/22/08,pd 02/01/86,r			Scr:	Alpha: 1.45E-03 uCi/Sa	Beta: -3.30E-03 uCi/Sa
3 KNHDW-1-AL-X J8E200129-2-DUP 05/15/2008 11:50		25.20g,in AmtRec: VIAL20,500MLP,6XLP,2X4LP #Containers: 10				Scr:	Alpha: 1.45E-03 uCi/Sa	Beta: -3.30E-03 uCi/Sa
4 KNJVW-1-AA-B J8E200000-508-BLK 05/15/2008 11:50		25.20g,in AmtRec: #Containers: 1				Scr:	Alpha:	Beta:
5 KNJVW-1-AC-C J8E200000-508-LCS 05/15/2008 11:50		25.30g,in AmtRec: #Containers: 1	UNSF4236 05/22/08,pd 02/01/86,r			Scr:	Alpha:	Beta:
6 KNJVW-1-AD-C J8E200000-508-LCS 05/15/2008 11:50		25.20g,in AmtRec: #Containers: 1	UNSC2521 05/22/08,pd 03/22/05,r			Scr:	Alpha:	Beta:

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6/10/2008 3:51.00 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 06/30/2008

Sep1 DT/Tm Tech:

Batch: 8141508 ug/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	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

Comments: pH<2.0 DH 6/10/08

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

KNHDW1AH-SAMP Constituent List:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
KNHDW1AK-MS Constituent List:

KNJVW1AA-BLK:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
KNJVW1AC-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20
KNJVW1AD-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20

KNHDW1AH-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNHDW1AK-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNJVW1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNJVW1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNJVW1AD-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

6/17/2008 3:17:09 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/18/2007, 6/22/2008, Batch: '8141508', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus		Accepting		Comments
8141508						
AC		**Rev1C**	**HarrisD**	6/10/2008 3:46:55 PM		
SC			wagarr	IsBatched	5/20/2008 3:31:01 PM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	6/10/2008 3:46:55 PM	RICH-RC-5014 Revision 7
SC			HarrisD	Prep1C	6/10/2008 3:51:02 PM	RICH-RC-5015 REVISION 6
SC			BockJ	InPrep2	6/12/2008 2:58:13 PM	RICH-RC-5015 REVISION 6
SC			BockJ	Prep2C	6/16/2008 1:54:01 PM	RICH-RC-5015 REVISION 6
SC			NelsonT	Cnt1C	6/17/2008 1:37:28 PM	RICH-RC-5058 REV 7
SC			nortonj	Rev1C	6/17/2008 3:14:08 PM	RICH-RC-0002 REV 8
AC			**HarrisD**	6/10/2008 3:51:02 PM		
AC			**BockJ**	6/12/2008 2:58:13 PM		
AC			**BockJ**	6/16/2008 1:54:01 PM		
AC			**NelsonT**	6/17/2008 1:37:28 PM		
AC			**nortonj**	6/17/2008 3:14:08 PM		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.33

TESTAMERICA - AMENDED REPORT

5/15/2008 5:54:02 PM

Sample Preparation/Analysis

384868. Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 06/30/2008 W0541

Batch: 8136631 WATER mg/L
SEQ Batch, Test: None All Tests: 8136631 88EA,

PM, Quote: SS , 57671

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

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KNAKN-1-AA J8E150338-1-SAMP 05/15/2008 13:09		AmtRec: VIAL20,LG	#Containers: 2			Scr:	Alpha:	Beta:
2 KNAKN-1-AC-S J8E150338-1-MS 05/15/2008 13:09		AmtRec: VIAL20,LG	#Containers: 2			Scr:	Alpha:	Beta:
3 KNAKN-1-AD-D J8E150338-1-MSD 05/15/2008 13:09		AmtRec: VIAL20,LG	#Containers: 2			Scr:	Alpha:	Beta:
4 KNAKN-1-AE-X J8E150338-1-DUP 05/15/2008 13:09		AmtRec: VIAL20,LG	#Containers: 2			Scr:	Alpha:	Beta:
5 KNAQ8-1-AA-B J8E150000-631-BLK 05/15/2008 13:09		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 KNAQ8-1-AC-C J8E150000-631-LCS 05/15/2008 13:09		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

5/15/2008 5:54:03 PM

Sample Preparation/Analysis

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

AnalyDueDate: 06/30/2008

Batch: 8136631 mg/L
SEQ Batch, Test: None

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

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

Comments:

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

KNAKN1AA-SAMP Constituent List:

KNAKN1AC-MS Constituent List:

KNAKN1AD-MSD:

KNAQ81AA-BLK:

KNAQ81AC-LCS:

KNAKN1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNAKN1AC-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNAKN1AD-MSD:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNAQ81AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNAQ81AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By Date:

TESTAMERICA - AMENDED REPORT

5/20/2008 11:12:07 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 06/30/2008 W0541

Batch: 8141332 WATER mg/L
SEQ Batch, Test: None All Tests: 8141332 88EA,

PM, Quote: SS , 57671

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

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KNHDP-1-AA J8E200129-1-SAMP 05/15/2008 14:10		AmtRec: VIAL20,500G	#Containers: 2			Scr:	Alpha:	Beta:
2 KNHDP-1-AC-S J8E200129-1-MS 05/15/2008 14:10		AmtRec: VIAL20,500G	#Containers: 2			Scr:	Alpha:	Beta:
3 KNHDP-1-AD-D J8E200129-1-MSD 05/15/2008 14:10		AmtRec: VIAL20,500G	#Containers: 2			Scr:	Alpha:	Beta:
4 KNHDP-1-AE-X J8E200129-1-DUP 05/15/2008 14:10		AmtRec: VIAL20,500G	#Containers: 2			Scr:	Alpha:	Beta:
5 KNH3A-1-AA-B J8E200000-332-BLK 05/15/2008 14:10		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 KNH3A-1-AC-C J8E200000-332-LCS 05/15/2008 14:10		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

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5/20/2008 11:12:08 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 06/30/2008

Batch: 8141332 mg/L
SEQ Batch, Test: None

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

Comments:

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

KNHDP1AA-SAMP Constituent List:
HEXCHROME RDL:0.002 mg/L LCL:85 UCL:115 RPD:20
KNHDP1AC-MS Constituent List:

KNHDP1AD-MSD:

KNH3A1AA-BLK:

KNH3A1AC-LCS:

KNHDP1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNHDP1AC-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNHDP1AD-MSD:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNH3A1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNH3A1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____