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Analytical Data Package Prepared For

Fluor Hanford Inc.

Radiochemical Analysis By

TestAmerica

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

Assigned Laboratory Code: TARL

Data Package Contains _____ Pages

Report No.: 39613

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

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
W05462	F06-027	B1WLB5	J8G250238-1	KR64E1AC	9KR64E10	8207365
		B1WLB5	J8G250238-1	KR64E1AA	9KR64E10	8207370
		B1WLB6	J8G250238-2	KR64H1AC	9KR64H10	8207365
		B1WLB6	J8G250238-2	KR64H1AA	9KR64H10	8207370
		B1WLB7	J8G250238-3	KR64J1AC	9KR64J10	8207365
		B1WLB7	J8G250238-3	KR64J1AA	9KR64J10	8207370
		B1WLB8	J8G250238-4	KR64N1AC	9KR64N10	8207365
		B1WLB8	J8G250238-4	KR64N1AA	9KR64N10	8207370
		B1WLB9	J8G250238-5	KR64P1AC	9KR64P10	8207365
		B1WLB9	J8G250238-5	KR64P1AA	9KR64P10	8207370
		B1WLC0	J8G250238-6	KR6401AC	9KR64010	8207365
		B1WLC0	J8G250238-6	KR6401AA	9KR64010	8207370
		B1WLC1	J8G250238-7	KR6421AC	9KR64210	8207365
		B1WLC1	J8G250238-7	KR6421AA	9KR64210	8207370
		B1WLC2	J8G250238-8	KR6441AC	9KR64410	8207365
		B1WLC2	J8G250238-8	KR6441AA	9KR64410	8207370
		B1WLC3	J8G250238-9	KR6451AC	9KR64510	8207365
		B1WLC3	J8G250238-9	KR6451AA	9KR64510	8207370
		B1WLC4	J8G250238-10	KR6461AC	9KR64610	8207365
		B1WLC4	J8G250238-10	KR6461AA	9KR64610	8207370
	F06-027	B1WLC5	J8G250238-11	KR6481AC	9KR64810	8207365
		B1WLC5	J8G250238-11	KR6481AA	9KR64810	8207370
		B1WLC6	J8G250238-12	KR6491AC	9KR64910	8207365
		B1WLC6	J8G250238-12	KR6491AA	9KR64910	8207370
		B1WLC7	J8G250238-13	KR65C1AC	9KR65C10	8207365
		B1WLC7	J8G250238-13	KR65C1AA	9KR65C10	8207370

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Fluor Hanford, Inc.
1200 Jadwin Ave.
Richland, WA 99352

July 30, 2008

Attention: Steve Trent

SAF Number	:	F06-027
Date SDG Closed	:	July 25, 2008
Number of Samples	:	Thirteen (13)
Sample Type	:	Water
SDG Number	:	W05462
Data Deliverable	:	3/15 Day

CASE NARRATIVE

I. Introduction

On July 25, 2008 thirteen samples were received at TestAmerica for radiochemical analysis. Upon receipt, the samples were assigned to lot J8G250238 and assigned the following laboratory ID number to correspond with the Fluor Hanford (FH) specific ID:

FLH ID#	STLR ID#	DATE OF RECEIPT	MATRIX
B1WLB5	KR64E	7/25/08	WATER
B1WLB6	KR64H	7/25/08	WATER
B1WLB7	KR64J	7/25/08	WATER
B1WLB8	KR64N	7/25/08	WATER
B1WLB9	KR64P	7/25/08	WATER
B1WLC0	KR640	7/25/08	WATER
B1WLC1	KR642	7/25/08	WATER
B1WLC2	KR644	7/25/08	WATER
B1WLC3	KR645	7/25/08	WATER
B1WLC4	KR646	7/25/08	WATER
B1WLC5	KR648	7/25/08	WATER
B1WLC6	KR649	7/25/08	WATER
B1WLC7	KR65C	7/25/08	WATER

II. Sample Receipt

The samples were received in good condition and no anomalies were noted during check-in.

III. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information, analytical results and the appropriate associated statistical errors.

The requested analyses were:

Gas Proportional Counting
Gross Alpha by method RICH-RC-5014
Gross Beta by method RICH-RC-5014

IV. Quality Control

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

QC and sample results are reported in the same units.

V. Comments

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:
The samples were not acidified. TestAmerica emailed an IRF on July 25, 2008. The client accepted the proposed resolution (Tracking Number: 08-112) on July 29, 2008.

All samples in this SDG, except B1WLB9, were analyzed with reduced aliquots based upon weight screen results.

Sample B1WLB9 meet the CRDL. Sample B1WLC7 did not meet the CRDL, however the activity is greater than the IDC. The remaining samples did not the CRDL. They were counted for the maximum 200 minutes.

Except as noted, the LCS, batch blank, sample and sample duplicate (B1WLB5) results are within contractual requirements.

Fluor Hanford, Inc.
July 30, 2008

Gross Beta by method RICH-RC-5014:
The samples were not acidified. TestAmerica emailed an IRF on July 25, 2008. The client accepted the proposed resolution (Tracking Number: 08-112) on July 29, 2008.

All samples in this SDG, except B1WLB9, were analyzed with reduced aliquots based upon weight screen results

Sample B1WLB9 meet the CRDL. Sample B1WLC2 did not meet the CRDL and it was counted for the maximum 200 minutes. The remaining samples did not meet the CRDL, however the activity is greater than the achieved IDC.

Except as noted, the LCS, batch blank, sample and sample duplicate (B1WLB6) results are within contractual requirements.

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

Reviewed and approved:

Sandra Seger
Project Manager

TAL RICHLAND ISSUE RESOLUTION FORM
FOR CONTRACT 615

Tracking Number: 08-112
SAF No.: F06-027
Date: July 25, 2008
SDG: W05462
Sample No.(s) B1WLB5, B1WLB6, B1WLB7, B1WLB8, B1WLB9, B1WLC0, B1WLC1, B1WLC2, B1WLC3, B1WLC4, B1WLC5, B1WLC6, B1WLC7

Submitted By: Sandra Seger

Phone No. 509-375-3131 x158
Fax No. 509-375-5590

Submitted To: **Steve Trent (FH)**

Phone No. **509-373-5869**
Fax No. 866-252-5816

ISSUE	PROPOSED RESOLUTION
The sample bottle labels indicate the samples were acidified, however the pH was greater than 2. The requested analytes were gross alpha and gross beta.	The client has instructed TestAmerica to acidify the samples and proceed with analysis. The 24 hour waiting period after acidification has been waived by the client.

FLH COMMENTS -
Accept proposed resolution.

Heidi Hampt 7/29/08

Signature and date

Seger, Sandra

From: Hampt, Heidi [Heidi_Hampt@RL.gov]
Sent: Tuesday, July 29, 2008 10:48 AM
To: Seger, Sandra
Cc: Trent, Stephen J; ^CPP Sample Management; Anastos, Heather L; Widrig, Dana L; Fies, Gregory A
Subject: RE: W05462 IRF
Attachments: 08-112.DOC

Sandra,

Our response is attached.

Thanks,
Heidi

From: Seger, Sandra [mailto:Sandra.Seger@testamericainc.com]
Sent: Friday, July 25, 2008 2:55 PM
To: Hampt, Heidi
Subject: W05462 IRF

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 C0-02	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.

Sample Results Summary

Date: 30-Jul-08

TestAmerica TARL

Ordered by Method, Batch No., Client Sample ID.

Report No. : 39613

SDG No: W05462

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
8207365 9310_ALPHABETA_GPC									
B1WLB5									
	KR64E1AC	ALPHA	1.58E+00 +- 6.72E+00	U	pCi/L	100%	1.25E+01	3.00E+00	
B1WLB5 DUP									
	KR64E1AD	ALPHA	4.05E+00 +- 6.33E+00	U	pCi/L	100%	1.06E+01	3.00E+00	87.7
B1WLB6									
	KR64H1AC	ALPHA	7.10E+00 +- 1.24E+01	U	pCi/L	100%	2.13E+01	3.00E+00	
B1WLB7									
	KR64J1AC	ALPHA	6.06E+00 +- 6.89E+00	U	pCi/L	100%	1.07E+01	3.00E+00	
B1WLB8									
	KR64N1AC	ALPHA	2.40E+00 +- 4.83E+00	U	pCi/L	100%	8.62E+00	3.00E+00	
B1WLB9									
	KR64P1AC	ALPHA	9.64E-01 +- 9.92E-01	U	pCi/L	100%	1.71E+00	3.00E+00	
B1WLC0									
	KR6401AC	ALPHA	1.41E+00 +- 4.88E+00	U	pCi/L	100%	9.21E+00	3.00E+00	
B1WLC1									
	KR6421AC	ALPHA	-3.35E+00 +- 7.13E+00	U	pCi/L	100%	1.52E+01	3.00E+00	
B1WLC2									
	KR6441AC	ALPHA	-2.69E+00 +- 1.06E+01	U	pCi/L	100%	2.06E+01	3.00E+00	
B1WLC3									
	KR6451AC	ALPHA	1.18E+00 +- 7.06E+00	U	pCi/L	100%	1.29E+01	3.00E+00	
B1WLC4									
	KR6461AC	ALPHA	6.23E+00 +- 9.84E+00	U	pCi/L	100%	1.65E+01	3.00E+00	
B1WLC5									
	KR6481AC	ALPHA	-2.13E+00 +- 7.64E+00	U	pCi/L	100%	1.51E+01	3.00E+00	
B1WLC6									
	KR6491AC	ALPHA	3.22E+00 +- 1.38E+01	U	pCi/L	100%	2.47E+01	3.00E+00	
B1WLC7									
	KR65C1AC	ALPHA	1.45E+01 +- 5.29E+00		pCi/L	100%	3.41E+00	3.00E+00	
8207370 BETA_GPC									
B1WLB5									
	KR64E1AA	BETA	8.86E+01 +- 2.06E+01		pCi/L	100%	2.62E+01	4.00E+00	
B1WLB6									
	KR64H1AA	BETA	6.86E+01 +- 3.12E+01		pCi/L	100%	5.37E+01	4.00E+00	
B1WLB6 DUP									
	KR64H1AD	BETA	5.88E+01 +- 3.00E+01		pCi/L	100%	5.27E+01	4.00E+00	15.3
B1WLB7									
	KR64J1AA	BETA	7.00E+01 +- 1.81E+01		pCi/L	100%	2.49E+01	4.00E+00	
B1WLB8									
	KR64N1AA	BETA	3.84E+03 +- 5.63E+02		pCi/L	100%	2.56E+01	4.00E+00	

TestAmerica

rptSTLRchSaSummary2 V5.1.6
A2002

RPD - Relative Percent Difference.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

Sample Results Summary

TestAmerica TARL

Ordered by Method, Batch No., Client Sample ID.

Date: 30-Jul-08

Report No. : 39613

SDG No: W05462

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
8207370 BETA_GPC									
B1WLB9									
	KR64P1AA	BETA	6.74E+02 +- 8.59E+01		pCi/L	100%	2.78E+00	4.00E+00	
B1WLC0									
	KR6401AA	BETA	2.13E+02 +- 3.21E+01		pCi/L	100%	2.04E+01	4.00E+00	
B1WLC1									
	KR6421AA	BETA	1.50E+02 +- 2.72E+01		pCi/L	100%	2.57E+01	4.00E+00	
B1WLC2									
	KR6441AA	BETA	1.63E+01 +- 1.41E+01	U	pCi/L	100%	2.65E+01	4.00E+00	
B1WLC3									
	KR6451AA	BETA	6.42E+01 +- 1.45E+01		pCi/L	100%	1.85E+01	4.00E+00	
B1WLC4									
	KR6461AA	BETA	1.08E+03 +- 1.45E+02		pCi/L	100%	3.16E+01	4.00E+00	
B1WLC5									
	KR6481AA	BETA	2.45E+01 +- 1.15E+01		pCi/L	100%	1.99E+01	4.00E+00	
B1WLC6									
	KR6491AA	BETA	1.43E+03 +- 2.24E+02		pCi/L	100%	3.15E+01	4.00E+00	
B1WLC7									
	KR65C1AA	BETA	9.03E+04 +- 1.21E+04		pCi/L	100%	1.26E+01	4.00E+00	

No. of Results: 28

TestAmerica

rptSTLRchSaSummary2 V5.1.8
A2002

RPD - Relative Percent Difference.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

QC Results Summary

Date: 30-Jul-08

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Report No. : 39613

SDG No.: W05462

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
9310_ALPHABETA_GPC								
8207365 BLANK QC,								
KR69W1AA	ALPHA	2.55E-02 +- 2.10E-01	U	pCi/L	100%			4.04E-01
8207365 LCS,								
KR69W1AC	ALPHA	2.15E+01 +- 4.64E+00		pCi/L	100%	95%	-0.1	3.42E-01
BETA_GPC								
8207370 BLANK QC,								
KR6921AA	BETA	6.19E-01 +- 9.18E-01	U	pCi/L	100%			1.80E+00
8207370 LCS,								
KR6921AC	BETA	2.84E+01 +- 4.11E+00		pCi/L	100%	123%	0.2	1.75E+00

No. of Results: 4

TestAmerica

rptSTLRchQcSummary V5.1.6 A2002

Bias - (Result/Expected)-1 as defined by ANSI N13.30.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 30-Jul-08

Lab Name:	**TestAmerica**	**SDG:**	W05462	**Collection Date:**	7/25/2008 9:12:00 AM
Lot-Sample No.:	**J8G250238-1**	**Report No. :**	39613	**Received Date:**	7/25/2008 11:30:00 AM
Client Sample ID:	**B1WLB5**	**COC No. :**	F06-027-251	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8207365	9310_ALPHABETA_GPC			**Work Order:** KR64E1AC			**Report DB ID:** 9KR64E10					
ALPHA	***1.58E+00***	U	6.7E+00	6.7E+00	1.25E+01	pCi/L	100%	*0.13*	7/29/08 04:06 a		0.01	GPC10A
						5.20E+00	3.00E+00	*0.47*			L	
Batch: 8207370	BETA_GPC			**Work Order:** KR64E1AA			**Report DB ID:** 9KR64E10					
BETA	***8.86E+01***		1.7E+01	2.1E+01	2.62E+01	pCi/L	100%	*(3.4)*	7/29/08 09:44 a		0.0167	GPC26A
						1.27E+01	4.00E+00	*(8.6)*			L	

No. of Results: 2 **Comments:**

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 30-Jul-08

Lab Name:	TestAmerica	**SDG:**	W05462	**Collection Date:**	7/25/2008 9:35:00 AM
Lot-Sample No.:	J8G250238-2	**Report No. :**	39613	**Received Date:**	7/25/2008 11:30:00 AM
Client Sample ID:	B1WLB6	**COC No. :**	F06-027-251	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8207365	9310_ALPHABETA_GPC			**Work Order:**	KR64H1AC		**Report DB ID:**	9KR64H10				
ALPHA	***7.10E+00***	U	1.2E+01	1.2E+01	2.13E+01	pCi/L	100%	*0.33*	7/29/08 04:06 a		0.0052	GPC10C
						8.25E+00	3.00E+00	*(1.1)*			L	
Batch: 8207370	BETA_GPC			**Work Order:**	KR64H1AA		**Report DB ID:**	9KR64H10				
BETA	***6.86E+01***		3.0E+01	3.1E+01	5.37E+01	pCi/L	100%	*(1.3)*	7/29/08 09:44 a		0.0076	GPC26B
						2.59E+01	4.00E+00	*(4.4)*			L	

No. of Results: 2 **Comments:**

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 30-Jul-08

Lab Name:	TestAmerica	**SDG:**	W05462	**Collection Date:**	7/25/2008 9:03:00 AM
Lot-Sample No.:	J8G250238-3	**Report No. :**	39613	**Received Date:**	7/25/2008 11:30:00 AM
Client Sample ID:	B1WLB7	**COC No. :**	F06-027-251	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC | MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8207365	9310_ALPHABETA_GPC			**Work Order:**	KR64J1AC		**Report DB ID:**	9KR64J10				
ALPHA	***6.06E+00***	U	6.8E+00	6.9E+00	1.07E+01	pCi/L	100%	*0.57*	7/29/08 04:06 a		0.0124	GPC10D
						4.32E+00	3.00E+00	*(1.8)*			L	
Batch: 8207370	BETA_GPC			**Work Order:**	KR64J1AA		**Report DB ID:**	9KR64J10				
BETA	***7.00E+01***		1.6E+01	1.8E+01	2.49E+01	pCi/L	100%	*(2.8)*	7/29/08 09:44 a		0.0154	GPC26D
						1.20E+01	4.00E+00	*(7.7)*			L	

No. of Results: 2 **Comments:**

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 30-Jul-08

Lab Name:	TestAmerica	**SDG:**	W05462	**Collection Date:**	7/25/2008 9:00:00 AM
Lot-Sample No.:	J8G250238-4	**Report No. :**	39613	**Received Date:**	7/25/2008 11:30:00 AM
Client Sample ID:	B1WLB8	**COC No. :**	F06-027-251	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8207365	9310_ALPHABETA_GPC			**Work Order:**	KR64N1AC		**Report DB ID:**	9KR64N10				
ALPHA	***2.40E+00***	U	4.8E+00	4.8E+00	8.62E+00	pCi/L	100%	*0.28*	7/29/08 04:06 a		0.0125	GPC10E
						3.23E+00	3.00E+00	*0.99*			L	
Batch: 8207370	BETA_GPC			**Work Order:**	KR64N1AA		**Report DB ID:**	9KR64N10				
BETA	***3.84E+03***		7.3E+01	5.6E+02	2.56E+01	pCi/L	100%	*(150.1)*	7/29/08 09:44 a		0.0154	GPC27B
						1.23E+01	4.00E+00	*(13.7)*			L	

No. of Results: 2 **Comments:**

TestAmerica
rptSTLRchSample
V5.1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 30-Jul-08

Lab Name:	TestAmerica	**SDG:**	W05462	**Collection Date:**	7/25/2008 9:15:00 AM
Lot-Sample No.:	J8G250238-5	**Report No. :**	39613	**Received Date:**	7/25/2008 11:30:00 AM
Client Sample ID:	B1WLB9	**COC No. :**	F06-027-251	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8207365	9310_ALPHABETA_GPC			**Work Order:** KR64P1AC			**Report DB ID:** 9KR64P10					
ALPHA	***9.64E-01***	U	9.7E-01	9.9E-01	1.71E+00	pCi/L	100%	*0.56*	7/29/08 03:10 a		0.2	GPC11C
						6.74E-01	3.00E+00	*(1.9)*			L	
Batch: 8207370	BETA_GPC			**Work Order:** KR64P1AA			**Report DB ID:** 9KR64P10					
BETA	***6.74E+02***		1.2E+01	8.6E+01	2.78E+00	pCi/L	100%	*(242.1)*	7/29/08 12:27 p		0.2	GPC31A
						1.32E+00	4.00E+00	*(15.7)*			L	

No. of Results: 2 **Comments:**

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 30-Jul-08

Lab Name:	TestAmerica	**SDG:**	W05462	**Collection Date:**	7/25/2008 8:20:00 AM
Lot-Sample No.:	J8G250238-6	**Report No. :**	39613	**Received Date:**	7/25/2008 11:30:00 AM
Client Sample ID:	B1WLC0	**COC No. :**	F06-027-251	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8207365	9310_ALPHABETA_GPC			**Work Order:** KR6401AC		**Report DB ID:** 9KR64010						
ALPHA	***1.41E+00***	U	4.9E+00	4.9E+00	9.21E+00	pCi/L	100%	*0.15*	7/29/08 04:06 a		0.0116	GPC10F
						3.66E+00	3.00E+00	*0.58*			L	
Batch: 8207370	BETA_GPC			**Work Order:** KR6401AA		**Report DB ID:** 9KR64010						
BETA	***2.13E+02***		1.8E+01	3.2E+01	2.04E+01	pCi/L	100%	*(10.4)*	7/29/08 09:44 a		0.0201	GPC27C
						9.83E+00	4.00E+00	*(13.2)*			L	

No. of Results: 2 **Comments:**

TestAmerica
rptSTLRchSample
V5.1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 30-Jul-08

Lab Name:	TestAmerica	**SDG:**	W05462	**Collection Date:**	7/25/2008 8:30:00 AM
Lot-Sample No.:	J8G250238-7	**Report No. :**	39613	**Received Date:**	7/25/2008 11:30:00 AM
Client Sample ID:	B1WLC1	**COC No. :**	F06-027-251	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8207365	9310_ALPHABETA_GPC			**Work Order:** KR6421AC			**Report DB ID:** 9KR64210					
ALPHA	***-3.35E+00***	U	7.1E+00	7.1E+00	1.52E+01	pCi/L	100%	*-0.22*	7/29/08 04:06 a		0.0108	GPC12A
						6.46E+00	3.00E+00	*-0.94*			L	
Batch: 8207370	BETA_GPC			**Work Order:** KR6421AA			**Report DB ID:** 9KR64210					
BETA	***1.50E+02***		1.9E+01	2.7E+01	2.57E+01	pCi/L	100%	*(5.9)*	7/29/08 09:44 a		0.0157	GPC31A
						1.24E+01	4.00E+00	*(11.1)*			L	

No. of Results: 2 **Comments:**

TestAmerica
rptSTLRchSample
V5.1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 30-Jul-08

Lab Name:	TestAmerica	**SDG:**	W05462	**Collection Date:**	7/25/2008 8:40:00 AM
Lot-Sample No.:	J8G250238-8	**Report No. :**	39613	**Received Date:**	7/25/2008 11:30:00 AM
Client Sample ID:	B1WLC2	**COC No. :**	F06-027-251	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8207365	9310_ALPHABETA_GPC			**Work Order:**	KR6441AC		**Report DB ID:**	9KR64410				
ALPHA	***-2.69E+00***	U	1.1E+01	1.1E+01	2.06E+01	pCi/L	100%	*-0.13*	7/29/08 04:06 a		0.0124	GPC12B
						9.09E+00	3.00E+00	*-0.51*			L	
Batch: 8207370	BETA_GPC			**Work Order:**	KR6441AA		**Report DB ID:**	9KR64410				
BETA	***1.63E+01***	U	1.4E+01	1.4E+01	2.65E+01	pCi/L	100%	*0.62*	7/29/08 09:44 a		0.0153	GPC31B
						1.27E+01	4.00E+00	*(2.3)*			L	

No. of Results: 2 **Comments:**

TestAmerica
rptSTLRchSample
V5.1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 30-Jul-08

Lab Name:	TestAmerica	**SDG:**	W05462	**Collection Date:**	7/25/2008 8:10:00 AM
Lot-Sample No.:	J8G250238-9	**Report No. :**	39613	**Received Date:**	7/25/2008 11:30:00 AM
Client Sample ID:	B1WLC3	**COC No. :**	F06-027-251	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8207365	9310_ALPHABETA_GPC			**Work Order:** KR6451AC			**Report DB ID:** 9KR64510					
ALPHA	***1.18E+00***	U	7.1E+00	7.1E+00	1.29E+01	pCi/L	100%	*0.09*	7/29/08 04:06 a		0.0177	GPC12C
						5.64E+00	3.00E+00	*0.33*			L	
Batch: 8207370	BETA_GPC			**Work Order:** KR6451AA			**Report DB ID:** 9KR64510					
BETA	***6.42E+01***		1.2E+01	1.5E+01	1.85E+01	pCi/L	100%	*(3.5)*	7/29/08 09:44 a		0.0228	GPC31D
						8.93E+00	4.00E+00	*(8.8)*			L	

No. of Results: 2 **Comments:**

TestAmerica
rptSTLRchSample
V5.1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 30-Jul-08

Lab Name:	TestAmerica	**SDG:**	W05462	**Collection Date:**	7/25/2008 8:08:00 AM
Lot-Sample No.:	J8G250238-10	**Report No. :**	39613	**Received Date:**	7/25/2008 11:30:00 AM
Client Sample ID:	B1WLC4	**COC No. :**	F06-027-251	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8207365	9310_ALPHABETA_GPC			**Work Order:** KR6461AC			**Report DB ID:** 9KR64610					
ALPHA	***6.23E+00***	U	9.7E+00	9.8E+00	1.65E+01	pCi/L	100%	*0.38*	7/29/08 05:32 a		0.01	GPC11A
						6.84E+00	3.00E+00	*(1.3)*			L	
Batch: 8207370	BETA_GPC			**Work Order:** KR6461AA			**Report DB ID:** 9KR64610					
BETA	***1.08E+03***		4.6E+01	1.4E+02	3.16E+01	pCi/L	100%	*(34.1)*	7/29/08 09:44 a		0.0126	GPC32A
						1.52E+01	4.00E+00	*(14.8)*			L	

No. of Results: 2 **Comments:**

TestAmerica
rptSTLRchSample
V5.1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 30-Jul-08

Lab Name:	TestAmerica	**SDG:**	W05462	**Collection Date:**	7/25/2008 8:50:00 AM
Lot-Sample No.:	J8G250238-11	**Report No. :**	39613	**Received Date:**	7/25/2008 11:30:00 AM
Client Sample ID:	B1WLC5	**COC No. :**	F06-027-251	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8207365	9310_ALPHABETA_GPC			**Work Order:** KR6481AC			**Report DB ID:** 9KR64810					
ALPHA	***-2.13E+00***	U	7.6E+00	7.6E+00	1.51E+01	pCi/L	100%	*-0.14*	7/29/08 05:32 a		0.0153	GPC11B
						6.59E+00	3.00E+00	*-0.56*			L	
Batch: 8207370	BETA_GPC			**Work Order:** KR6481AA			**Report DB ID:** 9KR64810					
BETA	***2.45E+01***		1.1E+01	1.1E+01	1.99E+01	pCi/L	100%	*(1.2)*	7/29/08 09:44 a		0.0199	GPC32B
						9.60E+00	4.00E+00	*(4.3)*			L	

No. of Results: 2 **Comments:**

TestAmerica
rptSTLRchSample
V5.1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 30-Jul-08

Lab Name:	TestAmerica	**SDG:**	W05462	**Collection Date:**	7/25/2008 8:35:00 AM
Lot-Sample No.:	J8G250238-12	**Report No. :**	39613	**Received Date:**	7/25/2008 11:30:00 AM
Client Sample ID:	B1WLC6	**COC No. :**	F06-027-251	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8207365	9310_ALPHABETA_GPC			**Work Order:** KR6491AC			**Report DB ID:** 9KR64910					
ALPHA	***3.22E+00***	U	1.4E+01	1.4E+01	2.47E+01	pCi/L	100%	*0.13*	7/29/08 05:32 a		0.0105	GPC11C
						1.09E+01	3.00E+00	*0.47*			L	
Batch: 8207370	BETA_GPC			**Work Order:** KR6491AA			**Report DB ID:** 9KR64910					
BETA	***1.43E+03***		4.9E+01	2.2E+02	3.15E+01	pCi/L	100%	*(45.3)*	7/29/08 09:44 a		0.013	GPC32D
						1.52E+01	4.00E+00	*(12.7)*			L	

No. of Results: 2 **Comments:**

TestAmerica
rptSTLRchSample
V5.1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 30-Jul-08

Lab Name:	**TestAmerica**	**SDG:**	W05462	**Collection Date:**	7/25/2008 8:25:00 AM
Lot-Sample No.:	**J8G250238-13**	**Report No. :**	39613	**Received Date:**	7/25/2008 11:30:00 AM
Client Sample ID:	**B1WLC7**	**COC No. :**	F06-027-251	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8207365	9310_ALPHABETA_GPC			**Work Order:**	KR65C1AC		**Report DB ID:**	9KR65C10				
ALPHA	***1.45E+01***		4.4E+00	5.3E+00	3.41E+00	pCi/L	100%	*(4.2)*	7/29/08 05:32 a		0.0255	GPC11D
						1.32E+00	3.00E+00	*(5.5)*			L	
Batch: 8207370	BETA_GPC			**Work Order:**	KR65C1AA		**Report DB ID:**	9KR65C10				
BETA	***9.03E+04***		2.4E+02	1.2E+04	1.26E+01	pCi/L	100%	*(7142.4)*	7/29/08 01:17 p		0.0366	GPC26A
						6.12E+00	4.00E+00	*(14.9)*			L	

No. of Results: 2 **Comments:**

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM II

Date: 30-Jul-08

DUPLICATE RESULTS

Lab Name:	**TestAmerica**	**SDG:**	W05462	**Collection Date:**	7/25/2008 9:12:00 AM
Lot-Sample No.:	**J8G250238-1**	**Report No. :**	39613	**Received Date:**	7/25/2008 11:30:00 AM
Client Sample ID:	**B1WLB5 DUP**	**COC No. :**	F06-027-251	**Matrix:**	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8207365	9310_ALPHABETA_GPC			**Work Order:** KR64E1AD		**Report DB ID:** KR64E1DR			**Orig Sa DB ID:** 9KR64E10			
ALPHA	4.05E+00	U	6.3E+00	6.3E+00	1.06E+01	pCi/L	100%	0.38	7/29/08 04:06 a		0.01	GPC10B
	1.58E+00	U	**RPD**	**87.7**		3.00E+00		(1.3)			L	

No. of Results: 1 **Comments:**

RPD - Relative Percent Difference.
MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM II

Date: 30-Jul-08

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	W05462	**Collection Date:**	7/25/2008 9:35:00 AM
Lot-Sample No.:	J8G250238-2	**Report No. :**	39613	**Received Date:**	7/25/2008 11:30:00 AM
Client Sample ID:	B1WLB6 DUP	**COC No. :**	F06-027-251	**Matrix:**	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8207370	BETA_GPC			**Work Order:** KR64H1AD		**Report DB ID:** KR64H1DR			**Orig Sa DB ID:** 9KR64H10			
BETA	5.88E+01		2.9E+01	3.0E+01	5.27E+01	pCi/L	100%	(1.1)	7/29/08 09:44 a		0.0076	GPC26C
	6.86E+01		**RPD**	**15.3**		4.00E+00		(3.9)			L	

No. of Results: 1 **Comments:**

TestAmerica
rptSTLRchDupV5.1
.6 A2002

RPD - Relative Percent Difference.
MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.

FORM II

BLANK RESULTS

Date: 30-Jul-08

Lab Name: TestAmerica

Matrix: WATER

SDG: W05462

Report No. : 39613

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA ,	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8207365	9310_ALPHABETA_GPC			**Work Order:**	KR69W1AA		**Report DB ID:**	KR69W1AB				
ALPHA	2.55E-02	U	2.1E-01	2.1E-01	4.04E-01	pCi/L	100%	0.06	7/29/08 07:40 a		0.2	GPC10A
					1.67E-01	3.00E+00		0.24			L	
Batch: 8207370	BETA_GPC			**Work Order:**	KR6921AA		**Report DB ID:**	KR6921AB				
BETA	6.19E-01	U	9.1E-01	9.2E-01	1.80E+00	pCi/L	100%	0.34	7/29/08 01:17 p		0.2	GPC26B
					8.67E-01	4.00E+00		(1.3)			L	

No. of Results: 2 **Comments:**

TestAmerica
rptSTLRchBlank
V5.1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM II

LCS RESULTS

Date: 30-Jul-08

Lab Name: TestAmerica

Matrix: WATER

SDG: W05462

Report No. : 39613

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 8207365	9310_ALPHABETA_GPC			**Work Order:**	KR69W1AC		**Report DB ID:**	KR69W1CS					
ALPHA	2.15E+01		1.5E+00	4.6E+00	3.42E-01	pCi/L	100%	2.27E+01	3.33E-01	95%	7/29/08 07:40 a	0.2	GPC10B
							Rec Limits:	70	130	-0.1		L	
Batch: 8207370	BETA_GPC			**Work Order:**	KR6921AC		**Report DB ID:**	KR6921CS					
BETA	2.84E+01		1.9E+00	4.1E+00	1.75E+00	pCi/L	100%	2.31E+01	3.01E-01	123%	7/29/08 01:17 p	0.2	GPC26C
							Rec Limits:	70	130	0.2		L	

No. of Results: 2 **Comments:**

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/29/2008 2:52:24 PM

Lot No., Due Date: J8G250238; 07/30/2008

Client, Site: 108302; FLH HANFORD

QC Batch No., Method Test: 8207365; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05462; 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 # 10-12752

First Level Review John Martin **Date** 7-29-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8207365

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?	✓ 7/30/18	✓	
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?	✓ 7/30/2018	✓	
C. Other 1. Are all Non-conformances included and noted?	✓		
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: See NCM

Second Level Review: Erika [illegible] Date: 7/30/18

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-12752**
NCM Initiated By: John Norton
Date Opened: 07/29/2008
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Alpha by GPC-Am
Lot #'s (Sample #'s): J8G250000 (365), J8G250238 (1,10,11,12,13,2,3,4,5,6,7,8,9),
QC Batches: 8207365,

Nonconformance: MDA not met
Subcategory: Sample size reduced due to high residue mass

Problem Description / Root Cause

Name	Date	Description
John Norton	07/29/2008	Most of the samples in this batch did not meet the RDL due to reduced aliquot sizes caused by high residue weights.

Corrective Action

Name	Date	Corrective Action
John Norton	07/29/2008	Sample J8G250238- 5 did meet the RDL, sample #13 showed activity that is greater than the IDC, and the other samples were counted for the longest time frame appropriate to this analysis.

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: 7/29/2008

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/30/2008 10:21:55 AM

Lot No., Due Date: J8G250238; 07/30/2008

Client, Site: 108302; FLH HANFORD

QC Batch No., Method Test: 8207370; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05462; WATER

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

6.0 Comments on any No response:
NCM 10-12764

First Level Review _____ **Date** _____

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8207370

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

Comments on any "No" response: See NCR

Second Level Review: Erika Ford Date: 7/30/15

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #:	**10-12764**		
NCM Initiated By:	Lisa Antonson	Classification:	**Anomaly**
Date Opened:	07/30/2008	Status:	**QAREVIEW**
Date Closed:		Production Area:	Environmental - Prep
		Tests:	Beta by GPC-Sr/Y
		Lot #'s (Sample #'s):	J8G250000 (370), J8G250238 (1,10,11,12,13,2,3,4,5,6,7,8,9),
		QC Batches:	8207370,
Nonconformance:	MDA not met		
Subcategory:	Data accepted		

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	07/30/2008	In this batch only sample KR64P meets CRDL. Sample KR644 doesn't meet CRDL but was counted for the maximum of 200 mins. The samples had reduced aliquots based on weight screens. The remainder of the samples had results that exceed the MDA achieved.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	07/30/2008	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: 7/30/2008

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F06-027-251

COLLECTOR
D. Wood

COMPANY CONTACT
FABRE, RJ

TELEPHONE NO.
373-2774

PROJECT COORDINATOR
TRENT, SJ

PRICE CODE 7A

DATA TURNAROUND
3 Days / 15 Days

SAMPLING LOCATION
100NR2 Syn.Apatite Inj.#5-Post-Inj.Smpls Day0

PROJECT DESIGNATION
100-N Apatite Barrier Performance Monitoring

SAF NO.
F06-027

AIR QUALITY ☐

ICE CHEST NO.

FIELD LOGBOOK NO.
HNF-N-585-11

ACTUAL SAMPLE DEPTH

COA
122561ES20

METHOD OF SHIPMENT
GOVERNMENT VEHICLE

SHIPPED TO
TestAmerica Incorporated, Richland

OFFSITE PROPERTY NO.

BILL OF LADING/AIR BILL NO.
J8G250238 W05462 Due 07-28-08
30
SLS 7/30/08

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	HNO3 to pH <2
TYPE OF CONTAINER	P
NO. OF CONTAINER(S)	1
VOLUME	1000mL
SAMPLE ANALYSIS	Gross Alpha {Gross alpha} Gross Beta {Gross beta}

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1WLB5	WATER	7.25-8	0912	X	KR64E
B1WLB6	WATER		0735	X	KR64H
B1WLB7	WATER		0903	X	KR64J
B1WLB8	WATER		0900	X	KR64N
B1WLB9	WATER		0915	X	KR64P

CHAIN OF POSSESSION | **SIGN/ PRINT NAMES** | **SPECIAL INSTRUCTIONS**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
D.W. Wood/D.W. Wood	7.25-8 / 11:30	S. Smith S. Smith	7.25-8 / 11:30
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

LABORATORY SECTION | **RECEIVED BY** | **TITLE** | **DATE/TIME**

FINAL SAMPLE DISPOSITION | **DISPOSAL METHOD** | **DISPOSED BY** | **DATE/TIME**

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F06-027-251

COLLECTOR D. WEBB	**COMPANY CONTACT** FABRE, RJ	**TELEPHONE NO.** 373-2774	**PROJECT COORDINATOR** TRENT, SJ	**PRICE CODE** 7A	**DATA TURNAROUND** 3 Days / 15 Days
SAMPLING LOCATION 100NR2 Syn.Apatite Inj.#5-Post-Inj.Smpls-Day0	**PROJECT DESIGNATION** 100-N Apatite Barrier Performance Monitoring		**SAF NO.** F06-027	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585-11	**ACTUAL SAMPLE DEPTH**	**COA** 122561ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO TestAmerica Incorporated, Richland	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.** J861250238 W05462	Due 07.28.08 30	

MATRIX*
A=Air
DL=Drum
Liquids
DS=Drum
Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	HNO3 to pH <2
TYPE OF CONTAINER	P
NO. OF CONTAINER(S)	1
VOLUME	1000mL
SAMPLE ANALYSIS	Gross Alpha {Gross alpha} Gross Beta {Gross beta}

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1WLC0 ✓	WATER	7-25-8	0820	X	KR640
B1WLC1 ✓	WATER	↓	0830	X	KR642
B1WLC2 ✓	WATER		0840	X	KR644
B1WLC3 ✓	WATER		0810	X	KR645
B1WLC4 ✓	WATER		0808	X	KR646

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES** / **SPECIAL INSTRUCTIONS**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
D. Webb / D. Webb	7-25-8 / 11:30	S. Smith / S. Smith	7-25-8 / 11:30
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

LABORATORY SECTION	**RECEIVED BY**	**TITLE**	**DATE/TIME**
FINAL SAMPLE DISPOSITION	**DISPOSAL METHOD**	**DISPOSED BY**	**DATE/TIME**

A-6003-618(01/06)

TestAmerica Laboratories, Inc.

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F06-027-251

COLLECTOR
D. Wolf

COMPANY CONTACT
FABRE, RJ

TELEPHONE NO.
373-2774

PROJECT COORDINATOR
TRENT, SJ

PRICE CODE 7A

DATA TURNAROUND
3 Days / 15 Days

SAMPLING LOCATION
100NR2 Syn.Apatite Inj.#5-Post-Inj.Smpls-Day0

PROJECT DESIGNATION
100-N Apatite Barrier Performance Monitoring

SAF NO.
F06-027

AIR QUALITY

ICE CHEST NO.

FIELD LOGBOOK NO.
HNF-N-585-11

ACTUAL SAMPLE DEPTH

COA
122561ES20

METHOD OF SHIPMENT
GOVERNMENT VEHICLE

SHIPPED TO
TestAmerica Incorporated, Richland

OFFSITE PROPERTY NO.

BILL OF LADING/AIR BILL NO.
J8G 250238 WO 5462 Due 07.28.08 30 SKS 7/30/08

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	HNO3 to pH <2
TYPE OF CONTAINER	P
NO. OF CONTAINER(S)	1
VOLUME	1000mL
SAMPLE ANALYSIS	Gross Alpha {Gross alpha} Gross Beta {Gross beta}

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1WLC5 ✓	WATER	7-25-8	0850	X	KR648
B1WLC6 ✓	WATER		0835	X	KR649
B1WLC7 ✓	WATER		0825	X	KR65C
				X	
				X	

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES** / **SPECIAL INSTRUCTIONS**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
D. Wolf/Driver	7-25-8 / 11:30	S. Smith S. Smith	7-25-8 / 11:30
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

LABORATORY SECTION — **RECEIVED BY** — **TITLE** — **DATE/TIME**

FINAL SAMPLE DISPOSITION — **DISPOSAL METHOD** — **DISPOSED BY** — **DATE/TIME**

A-6003-618(01/06)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 07.25.08 11:30 GM Screen Result .01 - .02

Client: PGW SDG #: W05462 NA[ ] SAF #: F06-027 NA [ ]

Work Order Number: J8G250238 Chain of Custody # F06-027-251

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: 13
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 see attached
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: S. Smith Date: 07.25.08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

F06-027-251
J8G250238

SAMPLE ID#	NITRIC ADDED
B1WLB5	6ml
B1WLB6	12ml
B1WLB7	6ml
B1WLB8	6ml
B1WLB9	6ml
B1WLC0 THROUGH B1WLC7	7ml

7/28/2008 2:40:23 PM

Sample Preparation/Analysis

Balance Id:1119381299

108302, Fluor Hanford Inc , Waste
Management Federal Servi

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

Pipet #: _____

AnalyDueDate: 07/28/2008

Sep1 DT/Tm Tech:

Batch: 8207365 WATER pCi/L PM, Quote: SS , 29754

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WoodT /APA

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 KR64E-1-AC J8G250238-1-SAMP 07/25/2008 09:12		10.00g,in AmtRec: LP	#Containers: 1	1.5	36.1	200	[illegible]	0546	7/29/08	
							Scr:	Alpha:	Beta:	
2 KR64E-1-AD-X J8G250238-1-DUP 07/25/2008 09:12		10.00g,in AmtRec: LP	#Containers: 1		36.4		10S			
							Scr:	Alpha:	Beta:	
3 KR64H-1-AC J8G250238-2-SAMP 07/25/2008 09:35		5.20g,in AmtRec: LP	#Containers: 1		47.5		10C			
							Scr:	Alpha:	Beta:	
4 KR64J-1-AC J8G250238-3-SAMP 07/25/2008 09:03		12.40g,in AmtRec: LP	#Containers: 1		47.2		10D			
							Scr:	Alpha:	Beta:	
5 KR64N-1-AC J8G250238-4-SAMP 07/25/2008 09:00		12.50g,in AmtRec: LP	#Containers: 1		48.8		10E	✓		
							Scr:	Alpha:	Beta:	
6 KR64P-1-AC J8G250238-5-SAMP 07/25/2008 09:15		200.00g,in AmtRec: LP	#Containers: 1		17.8	50	11C	0336	7/29/08	
							Scr:	Alpha:	Beta:	
7 KR640-1-AC J8G250238-6-SAMP 07/25/2008 08:20		11.60g,in AmtRec: LP	#Containers: 1		36.9	200	10F	0546	7/29/08	
							Scr:	Alpha:	Beta:	

TAL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1 ISV - Insufficient Volume for Analysis WO Cnt: 7
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4.8.32

TestAmerica Laboratories, Inc.

7/28/2008 2:40:23 PM

Sample Preparation/Analysis

Balance Id:1119381299

108302, Fluor Hanford Inc Management Federal Servi , Waste

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

Pipet #: _____

AnalyDueDate: 07/28/2008

Sep1 DT/Tm Tech:

Batch: 8207365 WATER pCi/L PM, Quote: SS , 29754

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WoodT

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 KR642-1-AC J8G250238-7-SAMP 07/25/2008 08:30		10.80g,in AmtRec: LP #Containers: 1		1.5	42.1	200	12A Scr:	0546 Alpha:	7/25/08 Beta:	
9 KR644-1-AC J8G250238-8-SAMP 07/25/2008 08:40		12.40g,in AmtRec: LP #Containers: 1			51.2		12B Scr:	Alpha:	Beta:	
10 KR645-1-AC J8G250238-9-SAMP 07/25/2008 08:10		17.70g,in AmtRec: LP #Containers: 1			51.9		12C Scr:	Alpha:	Beta:	
11 KR646-1-AC J8G250238-10-SAMP 07/25/2008 08:08		10.00g,in AmtRec: LP #Containers: 1			50.5		11A Scr:	0713 Alpha:	7/25/08 Beta:	
12 KR648-1-AC J8G250238-11-SAMP 07/25/2008 08:50		15.30g,in AmtRec: LP #Containers: 1			50.0		11B Scr:	Alpha:	Beta:	
13 KR649-1-AC J8G250238-12-SAMP 07/25/2008 08:35		10.50g,in AmtRec: LP #Containers: 1			50.1		11C Scr:	Alpha:	Beta:	
14 KR65C-1-AC J8G250238-13-SAMP 07/25/2008 08:25		25.50g,in AmtRec: LP #Containers: 1			28.5		11D Scr:	Alpha:	Beta:	

7/28/2008 2:40:24 PM

Sample Preparation/Analysis

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

Balance Id:1119381299
Pipet #:
Sep1 DT/Tm Tech:
Scp2 DT/Tm Tech:
Prep Tech: ,WoodT

AnalyDueDate: 07/28/2008

Batch: 8207365 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 KR69W-1-AA-B J8G250000-365-BLK 07/25/2008 09:12	AmtRec:	200.00g,in	#Containers: 1	1.5	0.3	200	NA	0900	7/29/08	Scr: Alpha: Beta:
16 KR69W-1-AC-C J8G250000-365-LCS 07/25/2008 09:12	AmtRec:	200.00g,in	ASD4540 07/16/08,pd #Containers: 1		0.5		NA			Scr: Alpha: Beta:

Comments:

All Clients for Batch:
108302, Fluor Hanford Inc Waste Management Federal Servi, SS , 29754

KR64E1AC-SAMP Constituent List:
ALPHA RDL:3 pCi/L LCL: UCL: RPD:
KR69W1AA-BLK:
ALPHA RDL:3 pCi/L LCL: UCL: RPD:
KR69W1AC-LCS:
Am-241 RDL: pCi/L LCL:70 UCL:130 RPD:20

KR64E1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KR69W1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KR69W1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TestAmerica Laboratories, Inc.

7/29/2008 2:51:16 PM

ICOC Fraction Transfer/Status Report

ByDate: 7/30/2007, 8/3/2008, Batch: '8207365', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8207365						
AC		**Rev1C**	**WoodT**	7/26/2008 6:42:46		
SC			antonsonl	IsBatched	7/25/2008 2:04:21 PM	ICOC_RADCALC v4.8.32
SC			WoodT	InPrep	7/26/2008 6:42:46 AM	GPC-001 REVISION 0
SC			WoodT	Prep1C	7/26/2008 6:43:05 AM	GPC-001 REVISION 0
SC			AshworthA	Prep2C	7/28/2008 9:03:25 PM	GPC-001 REVISION 0
SC			DAWKINSO	InCnt1	7/28/2008 9:27:31 PM	RL-CI-006 REVISION 0
SC			ClarkR	CalcC	7/29/2008 10:22:36 AM	RL-CI-006 REVISION 0
SC			nortonj	Rev1C	7/29/2008 2:51:06 PM	RICH-RC-0002 REV 8
AC			**WoodT**	7/26/2008 6:43:05		
AC			**AshworthA**	7/28/2008 9:03:25 PM		
AC			**DAWKINSO**	7/28/2008 9:27:31 PM		
AC			**ClarkR**	7/29/2008 10:22:36		
AC			**nortonj**	7/29/2008 2:51:06 PM		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 6

ICOCFractions v4.8.33

7/28/2008 2:40:41 PM

Sample Preparation/Analysis

Balance Id:1119381299

108302, Fluor Hanford Inc , Waste
Management Federal Servi

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

Pipet #: _____

AnalyDueDate: 07/28/2008

Sep1 DT/Tm Tech:

Batch: 8207370 WATER pCi/L PM, Quote: SS , 29754

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WoodT / APA

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 KR64E-1-AA J8G250238-1-SAMP 07/25/2008 09:12		16.70g,in AmtRec: LP	#Containers: 1	1.5	87.6	200	26A	1121	7/29/08 KL	
							Scr:	Alpha:	Beta:	
2 KR64H-1-AA J8G250238-2-SAMP 07/25/2008 09:35		7.60g,in AmtRec: LP	#Containers: 1		90.2		26B			
							Scr:	Alpha:	Beta:	
3 KR64H-1-AD-X J8G250238-2-DUP 07/25/2008 09:35		7.60g,in AmtRec: LP	#Containers: 1		94.2		26C			
							Scr:	Alpha:	Beta:	
4 KR64J-1-AA J8G250238-3-SAMP 07/25/2008 09:03		15.40g,in AmtRec: LP	#Containers: 1		86.5		26D			
							Scr:	Alpha:	Beta:	
5 KR64N-1-AA J8G250238-4-SAMP 07/25/2008 09:00		15.40g,in AmtRec: LP	#Containers: 1		87.2		27B			
							Scr:	Alpha:	Beta:	
6 KR64P-1-AA J8G250238-5-SAMP 07/25/2008 09:15		200.00g,in AmtRec: LP	#Containers: 1		54.3	100	~~16F~~ 7/29/08 31A	1314	7/29/08 KL	
							Scr:	Alpha:	Beta:	
7 KR640-1-AA J8G250238-6-SAMP 07/25/2008 08:20		20.10g,in AmtRec: LP	#Containers: 1		97.4	200	27C	1121	7/29/08 KL	
							Scr:	Alpha:	Beta:	

TAL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1 ISV - Insufficient Volume for Analysis WO Cnt: 7
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4.8.32

TestAmerica Laboratories, Inc.

7/28/2008 2:40:42 PM

Sample Preparation/Analysis

Balance Id:1119381299

108302, Fluor Hanford Inc , Waste
Management Federal Servi

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

Pipet #: _____

AnalyDueDate: 07/28/2008

Sep1 DT/Tm Tech:

Batch: 8207370 WATER pCi/L PM, Quote: SS , 29754

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WoodT

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 KR642-1-AA J8G250238-7-SAMP 07/25/2008 08:30		15.70g,in AmtRec: LP #Containers: 1		1.5	90.6	200	31A Scr:	1121 Alpha:	7/29/GM Beta:	
9 KR644-1-AA J8G250238-8-SAMP 07/25/2008 08:40		15.30g,in AmtRec: LP #Containers: 1			83.0		31B Scr:	Alpha:	Beta:	
10 KR645-1-AA J8G250238-9-SAMP 07/25/2008 08:10		22.80g,in AmtRec: LP #Containers: 1			86.6		31D Scr:	Alpha:	Beta:	
11 KR646-1-AA J8G250238-10-SAMP 07/25/2008 08:08		12.60g,in AmtRec: LP #Containers: 1			85.5		32A Scr:	Alpha:	Beta:	
12 KR648-1-AA J8G250238-11-SAMP 07/25/2008 08:50		19.90g,in AmtRec: LP #Containers: 1			84.4		32B Scr:	Alpha:	Beta:	
13 KR649-1-AA J8G250238-12-SAMP 07/25/2008 08:35		13.00g,in AmtRec: LP #Containers: 1			87.0		32D Scr:	Alpha:	Beta:	
14 KR65C-1-AA J8G250238-13-SAMP 07/25/2008 08:25		36.60g,in AmtRec: LP #Containers: 1			152.0		26A Scr:	1454 Alpha:	7/29/GM Beta:	

TestAmerica Laboratories, Inc.

7/28/2008 2:40:42 PM

Sample Preparation/Analysis

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

Balance Id:1119381299
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,WoodT

AnalyDueDate: 07/28/2008

Batch: 8207370 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 KR692-1-AA-B J8G250000-370-BLK 07/25/2008 09:12		200.00g,in AmtRec:	#Containers: 1	1.5	0.3	200	26B Scr:	1454 Alpha:	7/29/08 ME Beta:	
16 KR692-1-AC-C J8G250000-370-LCS 07/25/2008 09:12		200.00g,in AmtRec:	BESB3313 #Containers: 1		0.6		26C Scr:	Alpha:	Beta:	

Comments:

All Clients for Batch:
108302, Fluor Hanford Inc Waste Management Federal Servi, SS , 29754

KR64E1AA-SAMP Constituent List:
BETA RDL:4 pCi/L LCL: UCL: RPD:
KR6921AA-BLK:
BETA RDL:4 pCi/L LCL: UCL: RPD:
KR6921AC-LCS:
Sr-90 RDL: pCi/L LCL:70 UCL:130 RPD:20

KR64E1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KR6921AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KR6921AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TestAmerica Laboratories, Inc.

7/30/2008 10:20:26 AM

ICOC Fraction Transfer/Status Report

ByDate: 7/31/2007, 8/4/2008, Batch: '8207370', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8207370						
AC		Rev1C	WoodT	7/26/2008 6:46:04		
SC			antonsonl	IsBatched	7/25/2008 2:04:21 PM	ICOC_RADCALC v4.8.32
SC			WoodT	InPrep	7/26/2008 6:46:04 AM	GPC-001 REVISION 0
SC			WoodT	Prep1C	7/26/2008 7:17:17 AM	GPC-001 REVISION 0
SC			AshworthA	Prep2C	7/28/2008 9:03:33 PM	GPC-001 REVISION 0
SC			DAWKINSO	InCnt1	7/28/2008 9:27:36 PM	RL-CI-006 REVISION 0
SC			DAWKINSO	CalcC	7/29/2008 9:43:25 PM	RL-CI-006 REVISION 0
SC			antonsonl	Rev1C	7/30/2008 10:20:12 AM	RICH-RC-0002 REV 8
AC			WoodT	7/26/2008 7:17:17		
AC			AshworthA	7/28/2008 9:03:33 PM		
AC			DAWKINSO	7/28/2008 9:27:36 PM		
AC			DAWKINSO	7/29/2008 9:43:25 PM		
AC			antonsonl	7/30/2008 10:20:12		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt:6

ICOCFractions v4.8.33