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.: 39661

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.
W05473	F06-027	B1VWJ5	J8H010285-13	KTH7P1AC	9KTH7P10	8217223
		B1VWJ5	J8H010285-13	KTH7P1AA	9KTH7P10	8217224
		B1VWJ6	J8H010285-14	KTH7R1AC	9KTH7R10	8217223
		B1VWJ6	J8H010285-14	KTH7R1AA	9KTH7R10	8217224
		B1VWL0	J8H010285-15	KTH7T1AC	9KTH7T10	8217223
		B1VWL0	J8H010285-15	KTH7T1AA	9KTH7T10	8217224
		B1VWL1	J8H010285-16	KTH7V1AC	9KTH7V10	8217223
		B1VWL1	J8H010285-16	KTH7V1AA	9KTH7V10	8217224
		B1VWL2	J8H010285-17	KTH7X1AC	9KTH7X10	8217223
		B1VWL2	J8H010285-17	KTH7X1AA	9KTH7X10	8217224
		B1VWL3	J8H010285-8	KTH7F1AC	9KTH7F10	8217223
		B1VWL3	J8H010285-8	KTH7F1AA	9KTH7F10	8217224
		B1VWL4	J8H010285-9	KTH7H1AC	9KTH7H10	8217223
		B1VWL4	J8H010285-9	KTH7H1AA	9KTH7H10	8217224
		B1VWL5	J8H010285-10	KTH7J1AC	9KTH7J10	8217223
		B1VWL5	J8H010285-10	KTH7J1AA	9KTH7J10	8217224
	F06-027	B1VWL6	J8H010285-11	KTH7L1AC	9KTH7L10	8217223
		B1VWL6	J8H010285-11	KTH7L1AA	9KTH7L10	8217224
		B1VWL7	J8H010285-12	KTH7M1AC	9KTH7M10	8217223
		B1VWL7	J8H010285-12	KTH7M1AA	9KTH7M10	8217224
		B1VWL8	J8H010285-3	KTH661AC	9KTH6610	8217223
		B1VWL8	J8H010285-3	KTH661AA	9KTH6610	8217224
		B1VWL9	J8H010285-4	KTH681AC	9KTH6810	8217223
		B1VWL9	J8H010285-4	KTH681AA	9KTH6810	8217224
		B1WM75	J8H010285-5	KTH691AC	9KTH6910	8217223
		B1WM75	J8H010285-5	KTH691AA	9KTH6910	8217224

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.
W05473	F06-027	B1WM76	J8H010285-6	KTH7A1AC	9KTH7A10	8217223
		B1WM76	J8H010285-6	KTH7A1AA	9KTH7A10	8217224
		B1WM77	J8H010285-7	KTH7C1AC	9KTH7C10	8217223
		B1WM77	J8H010285-7	KTH7C1AA	9KTH7C10	8217224
		B1WM78	J8H010285-1	KTH631AC	9KTH6310	8217223
		B1WM78	J8H010285-1	KTH631AA	9KTH6310	8217224
		B1WM79	J8H010285-2	KTH641AC	9KTH6410	8217223
		B1WM79	J8H010285-2	KTH641AA	9KTH6410	8217224

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

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

August 7, 2008

Attention: Steve Trent

SAF Number	:	F06-027
Date SDG Closed	:	August 1, 2008
Number of Samples	:	Seventeen (17)
Sample Type	:	Water
SDG Number	:	W05473
Data Deliverable	:	3/15 Day

CASE NARRATIVE

I. Introduction

On August 1, 2008 sevemteen samples were received at TestAmerica for radiochemical analysis. Upon receipt, the samples were assigned to lot J8H010285 and assigned the following laboratory ID number to correspond with the Fluor Hanford (FH) specific ID:

FLH ID#	STLR ID#	DATE OF RECEIPT	MATRIX
B1VWJ5	KTH7P	8/1/08	WATER
B1VWJ6	KTH7R	8/1/08	WATER
B1VWL0	KTH7T	8/1/08	WATER
B1VWL1	KTH7V	8/1/08	WATER
B1VWL2	KTH7X	8/1/08	WATER
B1VWL3	KTH7F	8/1/08	WATER
B1VWL4	KTH7H	8/1/08	WATER
B1VWL5	KTH7J	8/1/08	WATER
B1VWL6	KTH7L	8/1/08	WATER
B1VWL7	KTH7M	8/1/08	WATER
B1VWL8	KTH66	8/1/08	WATER
B1VWL9	KTH68	8/1/08	WATER
B1WM75	KTH69	8/1/08	WATER

B1WM76	KTH7A	8/1/08	WATER
B1WM77	KTH7C	8/1/08	WATER
B1WM78	KTH63	8/1/08	WATER
B1WM79	KTH64	8/1/08	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 pH was greater than 2 for all the samples. TestAmerica emailed an IRF on August 4, 2008. The client accepted the proposed resolution (Tracking Number: 08-130) on August 5, 2008.

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

Sample B1WM79 met the CRDL; all of the other samples in the batch did not meet the CRDL. They were counted for the maximum 200 minutes.

Except as noted, the LCS, batch blank, samples and sample duplicate (B1WM78) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:

The pH was greater than 2 for all the samples. TestAmerica emailed an IRF on August 4, 2008. The client accepted the proposed resolution (Tracking Number: 08-130) on August 5, 2008.

Fluor Hanford, Inc.
August 7, 2008

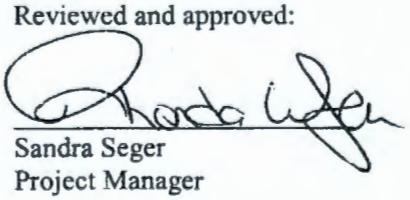
All samples in this SDG were analyzed with reduced aliquots based upon weight screen results.

The samples did not meet the CRDL; however the activity is greater than the achieved IDC except for B1VWL4, B1VWJ6 and B1VWL1. The batch was counted for the maximum 200 minutes.

Except as noted, the LCS, batch blank, samples and sample duplicate (B1WM79) 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 08-130
SAF No.: F06-027
Date: August 1, 2008
SDG: W05473
Sample No.(s) B1WM78, B1WM79, B1VWL8, B1VWL9, B1WM75, B1WM76, B1WM77, B1VWL3, B1VWL4, B1VWL5, B1VWL6, B1VWL7, B1VWJ5, B1VWJ6, B1VWL0, B1VWL1, B1VWL2

Submitted By: Rhonda Wagar

Phone No. 509-375-3131 x173
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 8/5/08

Signature and date

Wagar, Rhonda

From: Hampt, Heidi [Heidi_Hampt@RL.gov]
Sent: Tuesday, August 05, 2008 2:08 PM
To: Wagar, Rhonda
Cc: ^CPP Sample Management; Seger, Sandra; Trent, Stephen J; Anastos, Heather L; Widrig, Dana L; Fies, Gregory A
Subject: RE: W05473 IRF
Attachments: 08-130.DOC

Rhonda,

Our response is attached.

Thanks,
Heidi

From: Wagar, Rhonda [mailto:Rhonda.Wagar@testamericainc.com]
Sent: Monday, August 04, 2008 10:18 AM
To: Hampt, Heidi
Cc: ^CPP Sample Management; Seger, Sandra
Subject: W05473 IRF

RHONDA WAGAR
Quality Assurance Specialist

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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Richland, WA 99354
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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.

Sample Results Summary

Date: 07-Aug-08

TestAmerica TARL

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

Report No. : 39661 **SDG No:** W05473

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
8217223 9310_ALPHABETA_GPC									
B1VWJ5									
	KTH7P1AC	ALPHA	3.13E+00 +- 5.90E+00	U	pCi/L	100%	1.03E+01	3.00E+00	
B1VWJ6									
	KTH7R1AC	ALPHA	-4.93E+00 +- 5.03E+00	U	pCi/L	100%	1.16E+01	3.00E+00	
B1VWL0									
	KTH7T1AC	ALPHA	-5.82E-01 +- 3.86E+00	U	pCi/L	100%	8.21E+00	3.00E+00	
B1VWL1									
	KTH7V1AC	ALPHA	-2.48E+00 +- 9.22E+00	U	pCi/L	100%	1.81E+01	3.00E+00	
B1VWL2									
	KTH7X1AC	ALPHA	-5.66E+00 +- 7.13E+00	U	pCi/L	100%	1.48E+01	3.00E+00	
B1VWL3									
	KTH7F1AC	ALPHA	-1.02E+01 +- 8.98E+00	U	pCi/L	100%	2.30E+01	3.00E+00	
B1VWL4									
	KTH7H1AC	ALPHA	-7.17E+00 +- 8.50E+00	U	pCi/L	100%	1.76E+01	3.00E+00	
B1VWL5									
	KTH7J1AC	ALPHA	-7.26E+00 +- 6.33E+00	U	pCi/L	100%	1.30E+01	3.00E+00	
B1VWL6									
	KTH7L1AC	ALPHA	6.19E+00 +- 6.99E+00	U	pCi/L	100%	1.09E+01	3.00E+00	
B1VWL7									
	KTH7M1AC	ALPHA	1.92E+00 +- 2.43E+00	U	pCi/L	100%	3.88E+00	3.00E+00	
B1VWL8									
	KTH661AC	ALPHA	-5.49E+00 +- 6.57E+00	U	pCi/L	100%	1.48E+01	3.00E+00	
B1VWL9									
	KTH681AC	ALPHA	1.09E+00 +- 2.82E+00	U	pCi/L	100%	5.12E+00	3.00E+00	
B1WM75									
	KTH691AC	ALPHA	6.69E-01 +- 4.02E+00	U	pCi/L	100%	7.32E+00	3.00E+00	
B1WM76									
	KTH7A1AC	ALPHA	-6.77E-01 +- 2.75E+00	U	pCi/L	100%	5.31E+00	3.00E+00	
B1WM77									
	KTH7C1AC	ALPHA	-1.93E+00 +- 1.91E+00	U	pCi/L	100%	4.31E+00	3.00E+00	
B1WM78									
	KTH631AC	ALPHA	5.16E-01 +- 2.19E+00	U	pCi/L	100%	4.09E+00	3.00E+00	
B1WM78 DUP									
	KTH631AD	ALPHA	1.78E+00 +- 2.24E+00	U	pCi/L	100%	3.58E+00	3.00E+00	109.9
B1WM79									
	KTH641AC	ALPHA	4.21E+00 +- 2.54E+00		pCi/L	100%	2.90E+00	3.00E+00	
8217224 BETA_GPC									
B1VWJ5									
	KTH7P1AA	BETA	3.51E+01 +- 1.69E+01		pCi/L	100%	2.84E+01	4.00E+00	

TestAmerica **RPD - Relative Percent Difference.**

rptSTLRchSaSummary2 V5.1.7 A2002

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

Date: 07-Aug-08

TestAmerica TARL

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

Report No. : 39661 **SDG No:** W05473

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
8217224	BETA_GPC								
	B1VWJ6								
	KTH7R1AA	BETA	1.21E+01 +- 1.12E+01	U	pCi/L	100%	2.07E+01	4.00E+00	
	B1VWL0								
	KTH7T1AA	BETA	6.39E+01 +- 1.64E+01		pCi/L	100%	1.91E+01	4.00E+00	
	B1VWL1								
	KTH7V1AA	BETA	4.88E+00 +- 1.68E+01	U	pCi/L	100%	3.25E+01	4.00E+00	
	B1VWL2								
	KTH7X1AA	BETA	2.44E+01 +- 1.17E+01		pCi/L	100%	1.98E+01	4.00E+00	
	B1VWL3								
	KTH7F1AA	BETA	2.69E+02 +- 5.02E+01		pCi/L	100%	4.47E+01	4.00E+00	
	B1VWL4								
	KTH7H1AA	BETA	2.02E+01 +- 1.27E+01	U	pCi/L	100%	2.24E+01	4.00E+00	
	B1VWL5								
	KTH7J1AA	BETA	6.35E+02 +- 8.59E+01		pCi/L	100%	1.49E+01	4.00E+00	
	B1VWL6								
	KTH7L1AA	BETA	7.92E+01 +- 1.82E+01		pCi/L	100%	2.23E+01	4.00E+00	
	B1VWL7								
	KTH7M1AA	BETA	7.45E+02 +- 9.68E+01		pCi/L	100%	1.06E+01	4.00E+00	
	B1VWL8								
	KTH661AA	BETA	7.53E+02 +- 1.04E+02		pCi/L	100%	2.58E+01	4.00E+00	
	B1VWL9								
	KTH681AA	BETA	3.56E+02 +- 4.80E+01		pCi/L	100%	1.39E+01	4.00E+00	
	B1WM75								
	KTH691AA	BETA	9.53E+02 +- 1.21E+02		pCi/L	100%	1.17E+01	4.00E+00	
	B1WM76								
	KTH7A1AA	BETA	4.22E+02 +- 5.92E+01		pCi/L	100%	7.04E+00	4.00E+00	
	B1WM77								
	KTH7C1AA	BETA	3.21E+02 +- 4.98E+01		pCi/L	100%	7.39E+00	4.00E+00	
	B1WM78								
	KTH631AA	BETA	4.37E+02 +- 5.75E+01		pCi/L	100%	9.47E+00	4.00E+00	
	B1WM79								
	KTH641AA	BETA	4.84E+03 +- 8.57E+02		pCi/L	100%	9.97E+00	4.00E+00	
	B1WM79 DUP								
	KTH641AD	BETA	4.61E+03 +- 5.85E+02		pCi/L	100%	1.01E+01	4.00E+00	4.8

No. of Results: 36

TestAmerica

rptSTLRchSaSummary2 V5.1.7 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: 07-Aug-08

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Report No. : 39661 **SDG No.:** W05473

Batch / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
9310_ALPHABETA_GPC								
8217223 BLANK QC,								
KTKJE1AA	ALPHA	-3.41E-01 +- 2.15E-01	U	pCi/L	100%			5.27E-01
8217223 LCS,								
KTKJE1AC	ALPHA	2.06E+01 +- 4.53E+00		pCi/L	100%	92%	-0.1	4.39E-01
BETA_GPC								
8217224 BLANK QC,								
KTKJH1AA	BETA	2.02E+00 +- 1.06E+00		pCi/L	100%			1.83E+00
8217224 LCS,								
KTKJH1AC	BETA	2.13E+01 +- 4.07E+00		pCi/L	100%	93%	-0.1	1.57E+00

No. of Results: 4

TestAmerica **rptSTLRchQcSummary V5.1.7 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: 07-Aug-08

Lab Name: TestAmerica **SDG:** W05473 **Collection Date:** 8/1/2008 8:30:00 AM

Lot-Sample No.: J8H010285-1 **Report No. :** 39661 **Received Date:** 8/1/2008 1:50:00 PM

Client Sample ID: B1WM78 **COC No. :** F06-027-267 **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: 8217223	9310_ALPHABETA_GPC			**Work Order:** KTH631AC			**Report DB ID:** 9KTH6310					
ALPHA	***5.16E-01***	U	2.2E+00	2.2E+00	4.09E+00	pCi/L	100%	*0.13*	8/5/08 04:17 a		0.0362	GPC10A
						1.70E+00	3.00E+00	*0.47*			L	
Batch: 8217224	BETA_GPC			**Work Order:** KTH631AA			**Report DB ID:** 9KTH6310					
BETA	***4.37E+02***		1.6E+01	5.8E+01	9.47E+00	pCi/L	100%	*(46.2)*	8/5/08 05:38 a		0.0421	GPC31A
						4.57E+00	4.00E+00	*(15.2)*			L	

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

TestAmerica
rptSTLRchSample
V5.1.7 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: 07-Aug-08

Lab Name:	TestAmerica	**SDG:**	W05473	**Collection Date:**	8/1/2008 8:20:00 AM
Lot-Sample No.:	J8H010285-2	**Report No. :**	39661	**Received Date:**	8/1/2008 1:50:00 PM
Client Sample ID:	B1WM79	**COC No. :**	F06-027-267	**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: 8217223	9310_ALPHABETA_GPC		**Work Order:** KTH641AC			**Report DB ID:** 9KTH6410					
ALPHA	***4.21E+00***	2.4E+00	2.5E+00	2.90E+00	pCi/L	100%	*(1.4)*	8/5/08 04:17 a		0.0382	GPC10D
					1.15E+00	3.00E+00	*(3.3)*			L	
Batch: 8217224	BETA_GPC		**Work Order:** KTH641AA			**Report DB ID:** 9KTH6410					
BETA	***4.84E+03***	5.1E+01	8.6E+02	9.97E+00	pCi/L	100%	*(485.4)*	8/5/08 05:38 a		0.0403	GPC31B
					4.81E+00	4.00E+00	*(11.3)*			L	

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

TestAmerica
rptSTLRchSample
V5.1.7 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: 07-Aug-08

Lab Name: TestAmerica **SDG:** W05473 **Collection Date:** 8/1/2008 9:20:00 AM

Lot-Sample No.: J8H010285-3 **Report No. :** 39661 **Received Date:** 8/1/2008 1:50:00 PM

Client Sample ID: B1VWL8 **COC No. :** F06-027-267 **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: 8217223	9310_ALPHABETA_GPC			**Work Order:** KTH661AC			**Report DB ID:** 9KTH6610					
ALPHA	***-5.49E+00***	U	6.5E+00	6.6E+00	1.48E+01	pCi/L	100%	*-0.37*	8/5/08 04:17 a		0.0128	GPC10E
						6.32E+00	3.00E+00	*-(1.7)*			L	
Batch: 8217224	BETA_GPC			**Work Order:** KTH661AA			**Report DB ID:** 9KTH6610					
BETA	***7.53E+02***		3.5E+01	1.0E+02	2.58E+01	pCi/L	100%	*(29.2)*	8/5/08 05:38 a		0.0155	GPC31D
						1.24E+01	4.00E+00	*(14.5)*			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: 07-Aug-08

Lab Name: TestAmerica **SDG:** W05473 **Collection Date:** 8/1/2008 7:45:00 AM

Lot-Sample No.: J8H010285-4 **Report No. :** 39661 **Received Date:** 8/1/2008 1:50:00 PM

Client Sample ID: B1VWL9 **COC No. :** F06-027-267 **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: 8217223	9310_ALPHABETA_GPC			**Work Order:** KTH681AC			**Report DB ID:** 9KTH6810					
ALPHA	***1.09E+00***	U	2.8E+00	2.8E+00	5.12E+00	pCi/L	100%	*0.21*	8/5/08 04:17 a		0.0266	GPC10F
						2.07E+00	3.00E+00	*0.77*			L	
Batch: 8217224	BETA_GPC			**Work Order:** KTH681AA			**Report DB ID:** 9KTH6810					
BETA	***3.56E+02***		1.8E+01	4.8E+01	1.39E+01	pCi/L	100%	*(25.6)*	8/5/08 05:38 a		0.0294	GPC32A
						6.72E+00	4.00E+00	*(14.8)*			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: 07-Aug-08

Lab Name: TestAmerica **SDG:** W05473 **Collection Date:** 8/1/2008 8:00:00 AM

Lot-Sample No.: J8H010285-5 **Report No. :** 39661 **Received Date:** 8/1/2008 1:50:00 PM

Client Sample ID: B1WM75 **COC No. :** F06-027-267 **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: 8217223	9310_ALPHABETA_GPC			**Work Order:** KTH691AC		**Report DB ID:** 9KTH6910						
ALPHA	***6.69E-01***	U	4.0E+00	4.0E+00	7.32E+00	pCi/L	100%	*0.09*	8/5/08 04:17 a		0.0298	GPC11A
						3.21E+00	3.00E+00	*0.33*			L	
Batch: 8217224	BETA_GPC			**Work Order:** KTH691AA		**Report DB ID:** 9KTH6910						
BETA	***9.53E+02***		2.5E+01	1.2E+02	1.17E+01	pCi/L	100%	*(81.1)*	8/5/08 05:38 a		0.0335	GPC32B
						5.66E+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: 07-Aug-08

Lab Name: TestAmerica **SDG:** W05473 **Collection Date:** 8/1/2008 8:50:00 AM

Lot-Sample No.: J8H010285-6 **Report No. :** 39661 **Received Date:** 8/1/2008 1:50:00 PM

Client Sample ID: B1WM76 **COC No. :** F06-027-267 **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: 8217223	9310_ALPHABETA_GPC			**Work Order:** KTH7A1AC			**Report DB ID:** 9KTH7A10					
ALPHA	***-6.77E-01***	U	2.7E+00	2.8E+00	5.31E+00	pCi/L	100%	*-0.13*	8/5/08 04:17 a		0.0451	GPC11C
						2.35E+00	3.00E+00	*-0.49*			L	
Batch: 8217224	BETA_GPC			**Work Order:** KTH7A1AA			**Report DB ID:** 9KTH7A10					
BETA	***4.22E+02***		1.4E+01	5.9E+01	7.04E+00	pCi/L	100%	*(59.9)*	8/5/08 05:38 a		0.0529	GPC32C
						3.39E+00	4.00E+00	*(14.3)*			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: 07-Aug-08

Lab Name:	TestAmerica	**SDG:**	W05473	**Collection Date:**	8/1/2008 8:10:00 AM
Lot-Sample No.:	J8H010285-7	**Report No. :**	39661	**Received Date:**	8/1/2008 1:50:00 PM
Client Sample ID:	B1WM77	**COC No. :**	F06-027-267	**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: 8217223	9310_ALPHABETA_GPC			**Work Order:** KTH7C1AC			**Report DB ID:** 9KTH7C10					
ALPHA	***-1.93E+00***	U	1.9E+00	1.9E+00	4.31E+00	pCi/L	100%	*-0.45*	8/5/08 04:17 a		0.0442	GPC11D
						1.87E+00	3.00E+00	*-(2.)*			L	
Batch: 8217224	BETA_GPC			**Work Order:** KTH7C1AA			**Report DB ID:** 9KTH7C10					
BETA	***3.21E+02***		1.2E+01	5.0E+01	7.39E+00	pCi/L	100%	*(43.4)*	8/5/08 05:38 a		0.051	GPC32D
						3.57E+00	4.00E+00	*(12.9)*			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 I

SAMPLE RESULTS

Date: 07-Aug-08

Lab Name: TestAmerica **SDG:** W05473 **Collection Date:** 8/1/2008 9:10:00 AM

Lot-Sample No.: J8H010285-8 **Report No. :** 39661 **Received Date:** 8/1/2008 1:50:00 PM

Client Sample ID: B1VWL3 **COC No. :** F06-027-267 **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: 8217223	9310_ALPHABETA_GPC			**Work Order:** KTH7F1AC			**Report DB ID:** 9KTH7F10					
ALPHA	***-1.02E+01***	U	8.7E+00	9.0E+00	2.30E+01	pCi/L	100%	*-0.44*	8/5/08 04:29 a		0.0069	GPC12A
						9.56E+00	3.00E+00	*-(2.3)*			L	
Batch: 8217224	BETA_GPC			**Work Order:** KTH7F1AA			**Report DB ID:** 9KTH7F10					
BETA	***2.69E+02***		3.4E+01	5.0E+01	4.47E+01	pCi/L	100%	*(6.)*	8/5/08 06:56 a		0.0095	GPC26A
						2.16E+01	4.00E+00	*(10.7)*			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: 07-Aug-08

Lab Name: TestAmerica | **SDG:** W05473 | **Collection Date:** 8/1/2008 9:00:00 AM

Lot-Sample No.: J8H010285-9 | **Report No. :** 39661 | **Received Date:** 8/1/2008 1:50:00 PM

Client Sample ID: B1VWL4 | **COC No. :** F06-027-267 | **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: 8217223	9310_ALPHABETA_GPC			**Work Order:** KTH7H1AC			**Report DB ID:** 9KTH7H10					
ALPHA	***-7.17E+00***	U	8.4E+00	8.5E+00	1.76E+01	pCi/L	100%	*-0.41*	8/5/08 04:29 a		0.0147	GPC12B
						7.83E+00	3.00E+00	*-(1.7)*			L	
Batch: 8217224	BETA_GPC			**Work Order:** KTH7H1AA			**Report DB ID:** 9KTH7H10					
BETA	***2.02E+01***	U	1.2E+01	1.3E+01	2.24E+01	pCi/L	100%	*0.9*	8/5/08 06:56 a		0.0177	GPC26B
						1.08E+01	4.00E+00	*(3.2)*			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: 07-Aug-08

Lab Name:	TestAmerica	**SDG:**	W05473	**Collection Date:**	8/1/2008 7:50:00 AM
Lot-Sample No.:	J8H010285-10	**Report No. :**	39661	**Received Date:**	8/1/2008 1:50:00 PM
Client Sample ID:	B1VWL5	**COC No. :**	F06-027-267	**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: 8217223	9310_ALPHABETA_GPC			**Work Order:** KTH7J1AC			**Report DB ID:** 9KTH7J10					
ALPHA	***-7.26E+00***	U	6.2E+00	6.3E+00	1.30E+01	pCi/L	100%	*-0.56*	8/5/08 04:29 a		0.0198	GPC12C
						5.88E+00	3.00E+00	*-(2.3)*			L	
Batch: 8217224	BETA_GPC			**Work Order:** KTH7J1AA			**Report DB ID:** 9KTH7J10					
BETA	***6.35E+02***		2.4E+01	8.6E+01	1.49E+01	pCi/L	100%	*(42.7)*	8/5/08 06:56 a		0.0262	GPC26C
						7.16E+00	4.00E+00	*(14.8)*			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: 07-Aug-08

Lab Name: TestAmerica | **SDG:** W05473 | **Collection Date:** 8/1/2008 9:30:00 AM

Lot-Sample No.: J8H010285-11 | **Report No. :** 39661 | **Received Date:** 8/1/2008 1:50:00 PM

Client Sample ID: B1VWL6 | **COC No. :** F06-027-267 | **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: 8217223	9310_ALPHABETA_GPC			**Work Order:** KTH7L1AC			**Report DB ID:** 9KTH7L10					
ALPHA	***6.19E+00***	U	6.9E+00	7.0E+00	1.09E+01	pCi/L	100%	*0.57*	8/5/08 07:51 a		0.013	GPC10A
						4.52E+00	3.00E+00	*(1.8)*			L	
Batch: 8217224	BETA_GPC			**Work Order:** KTH7L1AA			**Report DB ID:** 9KTH7L10					
BETA	***7.92E+01***		1.5E+01	1.8E+01	2.23E+01	pCi/L	100%	*(3.5)*	8/5/08 06:56 a		0.0168	GPC26D
						1.07E+01	4.00E+00	*(8.7)*			L	

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

TestAmerica
rptSTLRchSample
V5.1.7 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: 07-Aug-08

Lab Name: TestAmerica **SDG:** W05473 **Collection Date:** 8/1/2008 8:40:00 AM

Lot-Sample No.: J8H010285-12 **Report No. :** 39661 **Received Date:** 8/1/2008 1:50:00 PM

Client Sample ID: B1VWL7 **COC No. :** F06-027-267 **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: 8217223	9310_ALPHABETA_GPC			**Work Order:** KTH7M1AC			**Report DB ID:** 9KTH7M10					
ALPHA	***1.92E+00***	U	2.4E+00	2.4E+00	3.88E+00	pCi/L	100%	*0.5*	8/5/08 07:51 a		0.0303	GPC10C
						1.57E+00	3.00E+00	*(1.6)*			L	
Batch: 8217224	BETA_GPC			**Work Order:** KTH7M1AA			**Report DB ID:** 9KTH7M10					
BETA	***7.45E+02***		2.2E+01	9.7E+01	1.06E+01	pCi/L	100%	*(70.2)*	8/5/08 06:57 a		0.035	GPC27A
						5.11E+00	4.00E+00	*(15.4)*			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: 07-Aug-08

Lab Name: TestAmerica **SDG:** W05473 **Collection Date:** 8/1/2008 10:30:00 AM

Lot-Sample No.: J8H010285-13 **Report No. :** 39661 **Received Date:** 8/1/2008 1:50:00 PM

Client Sample ID: B1VWJ5 **COC No. :** F06-027-267 **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: 8217223	9310_ALPHABETA_GPC			**Work Order:** KTH7P1AC			**Report DB ID:** 9KTH7P10					
ALPHA	***3.13E+00***	U	5.9E+00	5.9E+00	1.03E+01	pCi/L	100%	*0.31*	8/5/08 07:51 a		0.0122	GPC10D
						4.08E+00	3.00E+00	*(1.1)*			L	
Batch: 8217224	BETA_GPC			**Work Order:** KTH7P1AA			**Report DB ID:** 9KTH7P10					
BETA	***3.51E+01***		1.6E+01	1.7E+01	2.84E+01	pCi/L	100%	*(1.2)*	8/5/08 06:57 a		0.0148	GPC27B
						1.37E+01	4.00E+00	*(4.2)*			L	

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

TestAmerica
rptSTLRchSample
V5.1.7 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: 07-Aug-08

Lab Name: TestAmerica **SDG:** W05473 **Collection Date:** 8/1/2008 10:15:00 AM

Lot-Sample No.: J8H010285-14 **Report No. :** 39661 **Received Date:** 8/1/2008 1:50:00 PM

Client Sample ID: B1VWJ6 **COC No. :** F06-027-267 **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: 8217223	9310_ALPHABETA_GPC			**Work Order:** KTH7R1AC			**Report DB ID:** 9KTH7R10					
ALPHA	***-4.93E+00***	U	4.9E+00	5.0E+00	1.16E+01	pCi/L	100%	*-0.43*	8/5/08 07:51 a		0.0153	GPC10E
						4.96E+00	3.00E+00	*-(2.)*			L	
Batch: 8217224	BETA_GPC			**Work Order:** KTH7R1AA			**Report DB ID:** 9KTH7R10					
BETA	***1.21E+01***	U	1.1E+01	1.1E+01	2.07E+01	pCi/L	100%	*0.58*	8/5/08 06:57 a		0.0193	GPC27C
						9.97E+00	4.00E+00	*(2.2)*			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: 07-Aug-08

Lab Name: TestAmerica **SDG:** W05473 **Collection Date:** 8/1/2008 10:25:00 AM

Lot-Sample No.: J8H010285-15 **Report No. :** 39661 **Received Date:** 8/1/2008 1:50:00 PM

Client Sample ID: B1VWL0 **COC No. :** F06-027-267 **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: 8217223	9310_ALPHABETA_GPC			**Work Order:** KTH7T1AC			**Report DB ID:** 9KTH7T10					
ALPHA	***-5.82E-01***	U	3.9E+00	3.9E+00	8.21E+00	pCi/L	100%	*-0.07*	8/5/08 07:51 a		0.0156	GPC10F
						3.32E+00	3.00E+00	*-0.3*			L	
Batch: 8217224	BETA_GPC			**Work Order:** KTH7T1AA			**Report DB ID:** 9KTH7T10					
BETA	***6.39E+01***		1.3E+01	1.6E+01	1.91E+01	pCi/L	100%	*(3.4)*	8/5/08 06:56 a		0.0193	GPC28B
						9.16E+00	4.00E+00	*(7.8)*			L	

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

TestAmerica
rptSTLRchSample
V5.1.7 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: 07-Aug-08

Lab Name: TestAmerica **SDG:** W05473 **Collection Date:** 8/1/2008 10:10:00 AM

Lot-Sample No.: J8H010285-16 **Report No. :** 39661 **Received Date:** 8/1/2008 1:50:00 PM

Client Sample ID: B1VWL1 **COC No. :** F06-027-267 **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: 8217223	9310_ALPHABETA_GPC			**Work Order:** KTH7V1AC			**Report DB ID:** 9KTH7V10					
ALPHA	***-2.48E+00***	U	9.2E+00	9.2E+00	1.81E+01	pCi/L	100%	*-0.14*	8/5/08 07:51 a		0.0115	GPC11A
						7.93E+00	3.00E+00	*-0.54*			L	
Batch: 8217224	BETA_GPC			**Work Order:** KTH7V1AA			**Report DB ID:** 9KTH7V10					
BETA	***4.88E+00***	U	1.7E+01	1.7E+01	3.25E+01	pCi/L	100%	*0.15*	8/5/08 06:56 a		0.013	GPC28C
						1.57E+01	4.00E+00	*0.58*			L	

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

TestAmerica
rptSTLRchSample
V5.1.7 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: 07-Aug-08

Lab Name: TestAmerica | **SDG:** W05473 | **Collection Date:** 8/1/2008 10:00:00 AM

Lot-Sample No.: J8H010285-17 | **Report No. :** 39661 | **Received Date:** 8/1/2008 1:50:00 PM

Client Sample ID: B1VWL2 | **COC No. :** F06-027-267 | **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: 8217223	9310_ALPHABETA_GPC			**Work Order:** KTH7X1AC			**Report DB ID:** 9KTH7X10					
ALPHA	***-5.66E+00***	U	7.0E+00	7.1E+00	1.48E+01	pCi/L	100%	*-0.38*	8/5/08 07:51 a		0.0168	GPC11C
						6.55E+00	3.00E+00	*-(1.6)*			L	
Batch: 8217224	BETA_GPC			**Work Order:** KTH7X1AA			**Report DB ID:** 9KTH7X10					
BETA	***2.44E+01***		1.1E+01	1.2E+01	1.98E+01	pCi/L	100%	*(1.2)*	8/5/08 06:56 a		0.0201	GPC28D
						9.55E+00	4.00E+00	*(4.2)*			L	

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

TestAmerica
rptSTLRchSample
V5.1.7 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

Date: 07-Aug-08

DUPLICATE RESULTS

Lab Name: TestAmerica **SDG:** W05473 **Collection Date:** 8/1/2008 8:30:00 AM

Lot-Sample No.: J8H010285-1 **Report No. :** 39661 **Received Date:** 8/1/2008 1:50:00 PM

Client Sample ID: B1WM78 DUP **COC No. :** F06-027-267 **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: 8217223	9310_ALPHABETA_GPC			**Work Order:** KTH631AD		**Report DB ID:** KTH631DR			**Orig Sa DB ID:** 9KTH6310			
ALPHA	1.78E+00	U	2.2E+00	2.2E+00	3.58E+00	pCi/L	100%	0.5	8/5/08 04:17 a		0.0363	GPC10C
	5.16E-01	U	**RPD**	**109.9**		3.00E+00		(1.6)			L	

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

TestAmerica rptSTLRchDupV5.1 .7 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.

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: 07-Aug-08

DUPLICATE RESULTS

Lab Name:	**TestAmerica**	**SDG:**	W05473	**Collection Date:**	8/1/2008 8:20:00 AM
Lot-Sample No.:	**J8H010285-2**	**Report No. :**	39661	**Received Date:**	8/1/2008 1:50:00 PM
Client Sample ID:	**B1WM79 DUP**	**COC No. :**	F06-027-267	**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: 8217224	BETA_GPC			**Work Order:** KTH641AD		**Report DB ID:** KTH641DR			**Orig Sa DB ID:** 9KTH6410			
BETA	4.61E+03		4.9E+01	5.8E+02	1.01E+01	pCi/L	100%	(456.9)	8/5/08 05:38 a		0.0403	GPC31C
	4.84E+03		**RPD**	**4.8**		4.00E+00		(15.8)			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.

FORM II

BLANK RESULTS

Date: 07-Aug-08

Lab Name: TestAmerica **SDG:** W05473

Matrix: WATER **Report No. :** 39661

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: 8217223	9310_ALPHABETA_GPC			**Work Order:**	KTKJE1AA		**Report DB ID:**	KTKJE1AB				
ALPHA	-3.41E-01	U	2.0E-01	2.1E-01	5.27E-01	pCi/L	100%	-0.65	8/5/08 07:51 a		0.2001	GPC11D
					2.28E-01	3.00E+00		-(3.2)			L	
Batch: 8217224	BETA_GPC			**Work Order:**	KTKJH1AA		**Report DB ID:**	KTKJH1AB				
BETA	2.02E+00		1.0E+00	1.1E+00	1.83E+00	pCi/L	100%	(1.1)	8/5/08 09:02 a		0.1999	GPC31A
					8.83E-01	4.00E+00		(3.8)			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

LCS RESULTS

Date: 07-Aug-08

Lab Name: TestAmerica **SDG:** W05473

Matrix: WATER **Report No. :** 39661

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: 8217223	9310_ALPHABETA_GPC			**Work Order:** KTKJE1AC			**Report DB ID:** KTKJE1CS						
ALPHA	2.06E+01		1.5E+00	4.5E+00	4.39E-01	pCi/L	100%	2.24E+01	3.30E-01	92%	8/5/08 08:01 a	0.2	GPC12A
							Rec Limits:	70	130	-0.1		L	
Batch: 8217224	BETA_GPC			**Work Order:** KTKJH1AC			**Report DB ID:** KTKJH1CS						
BETA	2.13E+01		1.6E+00	4.1E+00	1.57E+00	pCi/L	100%	2.28E+01	2.99E-01	93%	8/5/08 09:02 a	0.2001	GPC31B
							Rec Limits:	70	130	-0.1		L	

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

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

TestAmerica

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

8/5/2008 11:01:35 AM

Lot No., Due Date: J8H010285; 08/06/2008

Client, Site: 108302; FLH HANFORD

QC Batch No., Method Test: 8217223; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05473; 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:
Please see NCM # 10-12812

First Level Review John Morton **Date** 8-5-8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 821723

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: Erika Ford Date: 9/5/7

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-12812**
NCM Initiated By: John Norton
Date Opened: 08/05/2008
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Alpha by GPC-Am
Lot #'s (Sample #'s): J8H010285 (1,10,11,12,13,14,15,16,17,2,3,4,5,6,7,8,9), (223),
QC Batches: 8217223,

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

Problem Description / Root Cause

Name	Date	Description
John Norton	08/05/2008	Sample J8H010215-2 did meet the CRDL, the other 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	08/05/2008	The 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: 8/5/2008

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

8/7/2008 8:40:25 AM

Lot No., Due Date: J8H010285; 08/06/2008

Client, Site: 108302; FLH HANFORD

QC Batch No., Method Test: 8217224; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05473; 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:
Please see NCM # 10-12818

First Level Review John Vento **Date** 8-7-8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8217224

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: 8/7/09

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-12818**
NCM Initiated By: John Norton
Date Opened: 08/07/2008
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Beta by GPC-Sr/Y
Lot #'s (Sample #'s): J8H010285 (1,10,11,12,13,14,15,16,17,2, 3,4,5,6,7,8,9), (224),
QC Batches: 8217224,

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

Problem Description / Root Cause

Name	Date	Description
John Norton	08/07/2008	These samples did not meet the RDL due to reduced aliquot sizes caused by high residue weights.

Corrective Action

Name	Date	Corrective Action
John Norton	08/07/2008	All of the samples showed activity greater than the IDC accept for J8H010285-9,14 and 16 which 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: 8/7/2008

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F06-027-267

TestAmerica Laboratories, Inc.

COLLECTOR
Miller

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 Post-Inj.#4-Day14

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.
J8H010285 W05473 Dec 08 05 08
8/4/08

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		
B1VWJ5	WATER	8/1/8	1030	02	KTH7P
B1VWJ6	WATER		1015		KTH7R
B1VWL0	WATER		1025		KTH7T
B1VWL1	WATER		1010		KTH7V
B1VWL2	WATER		1000		KTH7X

40

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J.Miller/D.Uke	8/1/8 1350	S.Smith	08-07-0813

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

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

Fluor Hanford Inc. | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | F06-027-267 | PAGE 2 OF 4

COLLECTOR Mueller	**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 Post-Inj.#4-Day14	**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.** J8H010285	W05473	Due 08 06 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)

RJ 8/14/08

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1VWL3	WATER	8/1/8	0910	0296	KTH7F
B1VWL4	WATER	↓	0900	↓	KTH7H
B1VWL5	WATER	↓	0750	↓	KTH7J
B1VWL6	WATER	↓	0930	↓	KTH7L
B1VWL7	WATER	↓	0840	↓	KTH7M

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J Mueller / Mueller	8/1/8 1350	S. Smith S-Smith	08-01-08 1350

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

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F06-027-267 PAGE 3 OF 4

COLLECTOR
Munter

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 Post-Inj.#4-Day14

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.
J8H010285 W05473 Due 08-05-08

OK
RW 8/4/08

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		
B1VWL8	WATER	8/1/8	0920	028688	KTH66
B1VWL9	WATER		0745	028688	KTH68
B1WM75	WATER		0800		KTH69
B1WM76	WATER		0850		KTH7A
B1WM77	WATER		0810		KTH7C

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J.Munter	8/1/8 1350	A.Smith S.Smith	08-01-08 1350

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

F06-027-267

TestAmerica Laboratories, Inc.

COLLECTOR
Moulton

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 Post-Inj.#4-Day14

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.
J8H010285 ux05473

Due 08-05-08
7w 8/14/08

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		
B1WM78	WATER	8/1/8	0830		KTH63
B1WM79	WATER	8/1/8	0820	dup 684	KTH64

43

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[signature]	8/1/8 1350	[signature]	08-01-08 1350

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: 08·01·08 1350 GM Screen Result .01

Client: FLH SDG #: W05473 NA[ ] SAF #: F06-027 NA [ ]

Work Order Number: J8H010285 Chain of Custody # F06-027-267

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: 17
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 1-8 ml per LP
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: L. Smith Date: 08·01·08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TestAmerica Laboratories, Inc.

8/4/2008 1:48:28 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

PRIORITY

Pipet #: _____

AnalyDueDate: 08/06/2008 W05473

Sep1 DT/Tm Tech:

Batch: 8217223 WATER pCi/L

PM, Quote: SS , 29754

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 8217223 AZS7, 8217224 BCS8,

Prep Tech: ,AshworthA

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 KTH63-1-AC J8H010285-1-SAMP 08/01/2008 08:30	AmtRec: LP	36.20g,in #Containers: 1		1.5	47.1	200	IIC Scr:	0538 Alpha:	8/5/08 Beta:	
2 KTH63-1-AD-X J8H010285-1-DUP 08/01/2008 08:30	AmtRec: LP	36.30g,in #Containers: 1			47.4		NC Scr:	Alpha:	Beta:	
3 KTH64-1-AC J8H010285-2-SAMP 08/01/2008 08:20	AmtRec: LP	38.20g,in #Containers: 1			40.2		ND Scr:	Alpha:	Beta:	
4 KTH66-1-AC J8H010285-3-SAMP 08/01/2008 09:20	AmtRec: LP	12.80g,in #Containers: 1			49.0		NC Scr:	Alpha:	Beta:	
5 KTH68-1-AC J8H010285-4-SAMP 08/01/2008 07:45	AmtRec: LP	26.60g,in #Containers: 1			48.0		105 Scr:	Alpha:	Beta:	
6 KTH69-1-AC J8H010285-5-SAMP 08/01/2008 08:00	AmtRec: LP	29.80g,in #Containers: 1			47.6		IIC Scr:	Alpha:	Beta:	
7 KTH7A-1-AC J8H010285-6-SAMP 08/01/2008 08:50	AmtRec: LP	45.10g,in #Containers: 1			44.7		IIC Scr:	Alpha:	Beta:	

TestAmerica Laboratories, Inc.

8/4/2008 1:48:28 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: 08/06/2008

Sep1 DT/Tm Tech:

Batch: 8217223 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SS , 29754

Sep2 DT/Tm Tech:

Prep Tech: ,AshworthA

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 KTH7C-1-AC J8H010285-7-SAMP 08/01/2008 08:10		44.20g,in AmtRec: LP #Containers: 1		1.5	46.8	200	11D Scr:	0558 Alpha:	8/6/08 Beta:	
9 KTH7F-1-AC J8H010285-8-SAMP 08/01/2008 09:10		6.90g,in AmtRec: LP #Containers: 1			48.6		10A Scr:	0604 Alpha:		Beta:
10 KTH7H-1-AC J8H010285-9-SAMP 08/01/2008 09:00		14.70g,in AmtRec: LP #Containers: 1			47.7		12B Scr:			Alpha: Beta:
11 KTH7J-1-AC J8H010285-10-SAMP 08/01/2008 07:50		19.80g,in AmtRec: LP #Containers: 1			41.4		12C Scr:			Alpha: Beta:
12 KTH7L-1-AC J8H010285-11-SAMP 08/01/2008 09:30		13.00g,in AmtRec: LP #Containers: 1			44.2		10A Scr:	0532 Alpha:	8/6/08 Beta:	
13 KTH7M-1-AC J8H010285-12-SAMP 08/01/2008 08:40		30.30g,in AmtRec: LP #Containers: 1			40.7		10C Scr:			Alpha: Beta:
14 KTH7P-1-AC J8H010285-13-SAMP 08/01/2008 10:30		12.20g,in AmtRec: LP #Containers: 1			48.4		10D Scr:			Alpha: Beta:

TestAmerica Laboratories, Inc.

8/4/2008 1:48:29 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: 08/06/2008

Sep1 DT/Tm Tech:

Batch: 8217223 WATER pCi/L

PM, Quote: SS , 29754

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,AshworthA

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 KTH7R-1-AC J8H010285-14-SAMP 08/01/2008 10:15		15.30g,in AmtRec: LP #Containers: 1		1.5	45.0	200	10E Scr:	0932 Alpha:	8/5/08 Beta:	
16 KTH7T-1-AC J8H010285-15-SAMP 08/01/2008 10:25		15.60g,in AmtRec: LP #Containers: 1			44.0		10E Scr:	Alpha:	Beta:	
17 KTH7V-1-AC J8H010285-16-SAMP 08/01/2008 10:10		11.50g,in AmtRec: LP #Containers: 1			44.3		11A Scr:	Alpha:	Beta:	
18 KTH7X-1-AC J8H010285-17-SAMP 08/01/2008 10:00		16.80g,in AmtRec: LP #Containers: 1			46.7		11C Scr:	Alpha:	Beta:	
19 KTKJE-1-AA-B J8H040000-223-BLK 08/01/2008 08:30		200.10g,in AmtRec: #Containers: 1			0.5		11D Scr:	Alpha:	Beta:	
20 KTKJE-1-AC-C J8H040000-223-LCS 08/01/2008 08:30		200.00g,in AmtRec: #Containers: 1	ASD4554 07/16/08,pd 06/01/01,r		0.6		12A Scr:	0942 Alpha:	8/5/08 Beta:	

Sample Preparation/Analysis

Balance Id:1119381299

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

Pipet #: _____

AnalyDueDate: 08/06/2008

Sep1 DT/Tm Tech:

Batch: 8217223 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,AshworthA

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

Comments:

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

KTH631AC-SAMP Constituent List:
ALPHA RDL:3 pCi/L LCL: UCL: RPD:
KTKJE1AA-BLK:

KTKJE1AC-LCS:

KTH631AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KTKJE1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KTKJE1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

8/5/2008 11:00:15 AM

ICOC Fraction Transfer/Status Report

ByDate: 8/6/2007, 8/10/2008, Batch: '8217223', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting		Comments
8217223						
AC			**Rev1C**	**AshworthA**	8/4/2008 11:45:03	
SC				wagarr	IsBatched 8/4/2008 9:18:13 AM	ICOC_RADCALC v4.8.34
SC				AshworthA	InPrep 8/4/2008 11:45:03 AM	GPC-001 REVISION 0
SC				AshworthA	Prep2C 8/4/2008 10:51:39 PM	GPC-001 REVISION 0
SC				BlackCL	InCnt1 8/5/2008 1:41:59 AM	RL-CI-006 REVISION 0
SC				ClarkR	CalcC 8/5/2008 10:37:11 AM	RL-CI-006 REVISION 0
SC				nortonj	Rev1C 8/5/2008 11:00:06 AM	RL-DR-001 REV 8
AC				**AshworthA**	8/4/2008 10:51:39 PM	
AC				**BlackCL**	8/5/2008 1:41:59 AM	
AC				**ClarkR**	8/5/2008 10:37:11	
AC				**nortonj**	8/5/2008 11:00:06	

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.34

TestAmerica Laboratories, Inc.

8/4/2008 2:16:49 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

PRIORITY

Pipet #: _____

AnalyDueDate: 08/06/2008 iJ05473

Sep1 DT/Tm Tech:

Batch: 8217224 WATER pCi/L

PM, Quote: SS , 29754

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: .AshworthA

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 KTH63-1-AA J8H010285-1-SAMP 08/01/2008 08:30		42.10g,in AmtRec: LP #Containers: 1		1.5	78.0	20	3A Scr:	5/14 Alpha:	8/8 DR Beta:	
2 KTH64-1-AA J8H010285-2-SAMP 08/01/2008 08:20		40.30g,in AmtRec: LP #Containers: 1			75.6		3B Scr:	Alpha:	Beta:	
3 KTH64-1-AD-X J8H010285-2-DUP 08/01/2008 08:20		40.30g,in AmtRec: LP #Containers: 1			74.0		3C Scr:	Alpha:	Beta:	
4 KTH66-1-AA J8H010285-3-SAMP 08/01/2008 09:20		15.50g,in AmtRec: LP #Containers: 1			90.0		3D Scr:	Alpha:	Beta:	
5 KTH68-1-AA J8H010285-4-SAMP 08/01/2008 07:45		29.40g,in AmtRec: LP #Containers: 1			77.4		3A Scr:	Alpha:	Beta:	
6 KTH69-1-AA J8H010285-5-SAMP 08/01/2008 08:00		33.50g,in AmtRec: LP #Containers: 1			76.3		3B Scr:	Alpha:	Beta:	
7 KTH7A-1-AA J8H010285-6-SAMP 08/01/2008 08:50		52.90g,in AmtRec: LP #Containers: 1			74.4		3C Scr:	Alpha:	Beta:	

TestAmerica Laboratories, Inc.

8/4/2008 2:16:49 PM

Sample Preparation/Analysis

Balance Id:1119381299

108302, Fluor Hanford Inc Management Federal Servi , Waste

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

Pipet #: _____

AnalyDueDate: 08/06/2008

Sep1 DT/Tm Tech:

Batch: 8217224 WATER pCi/L

PM, Quote: SS , 29754

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,AshworthA

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 KTH7C-1-AA J8H010285-7-SAMP 08/01/2008 08:10		51.00g,in AmtRec: LP #Containers: 1		1.5	77.1	200	37D Scr:	0714 Alpha:	8/8/08 Beta:	
9 KTH7F-1-AA J8H010285-8-SAMP 08/01/2008 09:10		9.50g,in AmtRec: LP #Containers: 1			112.3		26A Scr:	0833 Alpha:	Beta:	
10 KTH7H-1-AA J8H010285-9-SAMP 08/01/2008 09:00		17.70g,in AmtRec: LP #Containers: 1			80.0		26B Scr:	Alpha:	Beta:	
11 KTH7J-1-AA J8H010285-10-SAMP 08/01/2008 07:50		26.20g,in AmtRec: LP #Containers: 1			81.4		26C Scr:	Alpha:	Beta:	
12 KTH7L-1-AA J8H010285-11-SAMP 08/01/2008 09:30		16.80g,in AmtRec: LP #Containers: 1			83.6		26D Scr:	Alpha:	Beta:	
13 KTH7M-1-AA J8H010285-12-SAMP 08/01/2008 08:40		35.00g,in AmtRec: LP #Containers: 1			65.6		27A Scr:	Alpha:	Beta:	
14 KTH7P-1-AA J8H010285-13-SAMP 08/01/2008 10:30		14.80g,in AmtRec: LP #Containers: 1			84.8		27B Scr:	Alpha:	Beta:	

8/4/2008 2:16:50 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: 08/06/2008

Sep1 DT/Tm Tech:

Batch: 8217224 **WATER** **pCi/L** **PM, Quote: SS , 29754**

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,AshworthA

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 KTH7R-1-AA J8H010285-14-SAMP 08/01/2008 10:15		19.30g,in AmtRec: LP #Containers: 1		1.5	82.0	20	7C Scr:	0833 Alpha:	8/6/08 Beta:	
16 KTH7T-1-AA J8H010285-15-SAMP 08/01/2008 10:25		19.30g,in AmtRec: LP #Containers: 1			74.2		7B Scr:	Alpha:	Beta:	
17 KTH7V-1-AA J8H010285-16-SAMP 08/01/2008 10:10		13.00g,in AmtRec: LP #Containers: 1			73.7		9C Scr:	Alpha:	Beta:	
18 KTH7X-1-AA J8H010285-17-SAMP 08/01/2008 10:00		20.10g,in AmtRec: LP #Containers: 1			80.8		8D Scr:	Alpha:	Beta:	
19 KTKJH-1-AA-B J8H040000-224-BLK 08/01/2008 08:20		199.90g,in AmtRec: #Containers: 1			0.1		3A Scr:	1538 Alpha:	8/7/08 Beta:	
20 KTKJH-1-AC-C J8H040000-224-LCS 08/01/2008 08:20		200.10g,in AmtRec: #Containers: 1	BESB3322 07/16/08,pd 07/14/08,r		0.4		3B Scr:	Alpha:	Beta:	

TestAmerica Laboratories, Inc.

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Sample Preparation/Analysis

Balance Id:1119381299

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

Pipet #: _____

AnalyDueDate: 08/06/2008

Sep1 DT/Tm Tech:

Batch: 8217224 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,AshworthA

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

Comments:

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

KTH631AA-SAMP Constituent List:

BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:

KTKJH1AA-BLK:

KTKJH1AC-LCS:

KTH631AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

KTKJH1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

KTKJH1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

8/7/2008 8:39:09 AM

ICOC Fraction Transfer/Status Report

ByDate: 8/8/2007, 8/12/2008, Batch: '8217224', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8217224						
AC		**Rev1C**	**AshworthA**	8/4/2008 1:54:01 PM		
SC			wagarr	IsBatched	8/4/2008 9:18:13 AM	ICOC_RADCALC v4.8.34
SC			AshworthA	InPrep	8/4/2008 1:54:01 PM	GPC-001 REVISION 0
SC			AshworthA	Prep2C	8/4/2008 10:51:51 PM	GPC-001 REVISION 0
SC			BlackCL	InCnt1	8/5/2008 1:41:50 AM	RL-CI-006 REVISION 0
SC			ClarkR	CalcC	8/5/2008 11:27:34 AM	RL-CI-006 REVISION 0
SC			nortonj	Rev1C	8/7/2008 8:38:10 AM	RL-DR-001 REV 8
AC			**AshworthA**	8/4/2008 10:51:51 PM		
AC			**BlackCL**	8/5/2008 1:41:50 AM		
AC			**ClarkR**	8/5/2008 11:27:34		
AC			**nortonj**	8/7/2008 8:38:10 AM		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 5

ICOCFractions v4.8.34