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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.: 39588

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.
W05461	F06-027	B1WCW4	J8G230284-1	KR3C11AA	9KR3C110	8205493
		B1WCW4	J8G230284-1	KR3C11AC	9KR3C110	8205496
		B1WCW5	J8G230284-2	KR3C31AA	9KR3C310	8205493
		B1WCW5	J8G230284-2	KR3C31AC	9KR3C310	8205496
		B1WCW6	J8G230284-3	KR3C51AA	9KR3C510	8205493
		B1WCW6	J8G230284-3	KR3C51AC	9KR3C510	8205496
		B1WCW7	J8G230284-4	KR3C61AA	9KR3C610	8205493
		B1WCW7	J8G230284-4	KR3C61AC	9KR3C610	8205496
		B1WCW8	J8G230284-5	KR3C71AA	9KR3C710	8205493
		B1WCW8	J8G230284-5	KR3C71AC	9KR3C710	8205496
		B1WCW9	J8G230284-6	KR3C91AA	9KR3C910	8205493
		B1WCW9	J8G230284-6	KR3C91AC	9KR3C910	8205496
		B1WCX0	J8G230284-7	KR3DC1AA	9KR3DC10	8205493
		B1WCX0	J8G230284-7	KR3DC1AC	9KR3DC10	8205496
		B1WCX1	J8G230284-8	KR3DD1AA	9KR3DD10	8205493
		B1WCX1	J8G230284-8	KR3DD1AC	9KR3DD10	8205496
		B1WCX2	J8G230284-9	KR3DE1AA	9KR3DE10	8205493
		B1WCX2	J8G230284-9	KR3DE1AC	9KR3DE10	8205496
		B1WCX3	J8G230284-10	KR3DF1AA	9KR3DF10	8205493
		B1WCX3	J8G230284-10	KR3DF1AC	9KR3DF10	8205496
	F06-027	B1WCX4	J8G230284-11	KR3DH1AA	9KR3DH10	8205493
		B1WCX4	J8G230284-11	KR3DH1AC	9KR3DH10	8205496
		B1WCX5	J8G230284-12	KR3DJ1AA	9KR3DJ10	8205493
		B1WCX5	J8G230284-12	KR3DJ1AC	9KR3DJ10	8205496
		B1WCX6	J8G230284-13	KR3DK1AA	9KR3DK10	8205493
		B1WCX6	J8G230284-13	KR3DK1AC	9KR3DK10	8205496

Report No.: 39588

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.
W05461	F06-027	B1WCX7	J8G230284-14	KR3DL1AA	9KR3DL10	8205493
		B1WCX7	J8G230284-14	KR3DL1AC	9KR3DL10	8205496
		B1WL51	J8G230284-15	KR3DM1AA	9KR3DM10	8205493
		B1WL51	J8G230284-15	KR3DM1AC	9KR3DM10	8205496
		B1WL52	J8G230284-16	KR3DN1AA	9KR3DN10	8205493
		B1WL52	J8G230284-16	KR3DN1AC	9KR3DN10	8205496
		B1WL53	J8G230284-17	KR3DP1AA	9KR3DP10	8205493
		B1WL53	J8G230284-17	KR3DP1AC	9KR3DP10	8205496

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

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

July 28, 2008

Attention: Steve Trent

SAF Number	:	F06-027
Date SDG Closed	:	July 23, 2008
Number of Samples	:	Seventeen (17)
Sample Type	:	Water
SDG Number	:	W05461
Data Deliverable	:	3/15 Day

CASE NARRATIVE

I. Introduction

On July 23, 2008 seventeen samples were received at TestAmerica for radiochemical analysis. Upon receipt, the samples were assigned to lot J8G230284 and assigned the following laboratory ID number to correspond with the Fluor Hanford (FH) specific ID:

FLH ID#	STLR ID#	DATE OF RECEIPT	MATRIX
B1WCW4	KR3C1	7/23/08	WATER
B1WCW5	KR3C3	7/23/08	WATER
B1WCW6	KR3C5	7/23/08	WATER
B1WCW7	KR3C6	7/23/08	WATER
B1WCW8	KR3C7	7/23/08	WATER
B1WCW9	KR3C9	7/23/08	WATER
B1WCX0	KR3DC	7/23/08	WATER
B1WCX1	KR3DD	7/23/08	WATER
B1WCX2	KR3DE	7/23/08	WATER
B1WCX3	KR3DF	7/23/08	WATER
B1WCX4	KR3DH	7/23/08	WATER
B1WCX5	KR3DJ	7/23/08	WATER
B1WCX6	KR3DK	7/23/08	WATER

B1WCX7	KR3DL	7/23/08	WATER
B1WL51	KR3DM	7/23/08	WATER
B1WL52	KR3DN	7/23/08	WATER
B1WL53	KR3DP	7/23/08	WATER

II. Sample Receipt

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

III. Analytical Results/Methodology

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

The requested analyses were:

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

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 24, 2008. The client accepted the proposed resolution (Tracking Number: 08-106) on July 24, 2008.

All the samples in this SDG, except sample B1WL53, were analyzed with reduced aliquots based on weight screens. The samples did not meet the CRDL. The samples were counted for the maximum 200 minutes.

Except as noted, the LCS, batch blank, sample and sample duplicate (B1WCW5) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:
The samples were not acidified. TestAmerica emailed an IRF on July 24, 2008. The client accepted the proposed resolution (Tracking Number: 08-106) on July 24, 2008.

All the samples in this SDG, except sample B1WL53, were analyzed with reduced aliquots based on weight screens. The samples did not meet the CRDL. The samples were counted for the maximum 200 minutes.

Except as noted, the LCS, batch blank, sample and sample duplicate (B1WCW4) 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: 08-106
SAF No.: F06-027
Date: July 24, 2008
SDG: W05461
Sample No.(s) B1WCW4, B1WCW5, B1WCW6, B1WCW7, B1WCW8, B1WCW9, B1WCX0, B1WCX1, B1WCX2, B1WCX3, B1WCX4, B1WCX5, B1WCX6, B1WCX7, B1WL51, B1WL52, B1WL53

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 instructed TestAmerica to acidify the samples and proceed with analysis. The 24 hour waiting period after acidification was waived by the client.

FLH COMMENTS -
Accept proposed resolution and note in case narrative.

Heidi Hampt 7/24/08

Signature and date

Seger, Sandra

From: Hampt, Heidi [Heidi_Hampt@RL.gov]
Sent: Thursday, July 24, 2008 10:14 AM
To: Seger, Sandra
Cc: Trent, Stephen J; Ayres, Doris E; Widrig, Dana L
Subject: RE: W05461 IRF
Attachments: 08-106.DOC

Sandra,

Our response is attached.

Thanks,
Heidi

From: Seger, Sandra [mailto:Sandra.Seger@testamericainc.com]
Sent: Thursday, July 24, 2008 8:18 AM
To: Hampt, Heidi
Subject: W05461 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 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: 28-Jul-08

TestAmerica TARL

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

Report No. : 39588 **SDG No:** W05461

Batch / Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
8205493 BETA_GPC								
B1WCW4								
KR3C11AA	BETA	5.11E+01 +- 2.31E+01		pCi/L	100%	3.98E+01	4.00E+00	
B1WCW4 DUP								
KR3C11AD	BETA	4.28E+01 +- 2.15E+01		pCi/L	100%	3.78E+01	4.00E+00	17.8
B1WCW5								
KR3C31AA	BETA	2.73E+01 +- 1.11E+01		pCi/L	100%	1.85E+01	4.00E+00	
B1WCW6								
KR3C51AA	BETA	5.14E+01 +- 1.50E+01		pCi/L	100%	2.23E+01	4.00E+00	
B1WCW7								
KR3C61AA	BETA	8.41E+00 +- 1.47E+01	U	pCi/L	100%	2.90E+01	4.00E+00	
B1WCW8								
KR3C71AA	BETA	3.67E+01 +- 1.60E+01		pCi/L	100%	2.71E+01	4.00E+00	
B1WCW9								
KR3C91AA	BETA	5.16E+01 +- 3.10E+01	U	pCi/L	100%	5.63E+01	4.00E+00	
B1WCX0								
KR3DC1AA	BETA	5.35E+01 +- 2.74E+01		pCi/L	100%	4.85E+01	4.00E+00	
B1WCX1								
KR3DD1AA	BETA	6.80E+02 +- 1.14E+02		pCi/L	100%	2.30E+01	4.00E+00	
B1WCX2								
KR3DE1AA	BETA	3.01E+01 +- 1.31E+01		pCi/L	100%	2.24E+01	4.00E+00	
B1WCX3								
KR3DF1AA	BETA	6.02E+02 +- 8.20E+01		pCi/L	100%	2.19E+01	4.00E+00	
B1WCX4								
KR3DH1AA	BETA	1.24E+03 +- 1.70E+02		pCi/L	100%	3.62E+01	4.00E+00	
B1WCX5								
KR3DJ1AA	BETA	4.19E+02 +- 7.74E+01		pCi/L	100%	1.69E+01	4.00E+00	
B1WCX6								
KR3DK1AA	BETA	1.68E+03 +- 2.17E+02		pCi/L	100%	1.37E+01	4.00E+00	
B1WCX7								
KR3DL1AA	BETA	4.09E+02 +- 5.30E+01		pCi/L	100%	8.62E+00	4.00E+00	
B1WL51								
KR3DM1AA	BETA	3.84E+02 +- 5.12E+01		pCi/L	100%	1.34E+01	4.00E+00	
B1WL52								
KR3DN1AA	BETA	9.10E+02 +- 1.29E+02		pCi/L	100%	1.93E+01	4.00E+00	
B1WL53								
KR3DP1AA	BETA	5.80E+02 +- 7.84E+01		pCi/L	100%	3.02E+00	4.00E+00	
8205496 RICHRC5014								
B1WCW4								
KR3C11AC	ALPHA	6.82E+00 +- 8.15E+00	U	pCi/L	100%	1.28E+01	3.00E+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

Date: 28-Jul-08

TestAmerica TARL

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

Report No. : 39588 **SDG No:** W05461

Batch / Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
8205496 RICHRC5014								
B1WCW5								
KR3C31AC	ALPHA	5.07E+00 +- 4.49E+00	U	pCi/L	100%	6.06E+00	3.00E+00	
B1WCW5 DUP								
KR3C31AD	ALPHA	3.29E+00 +- 4.71E+00	U	pCi/L	100%	7.74E+00	3.00E+00	42.5
B1WCW6								
KR3C51AC	ALPHA	1.43E+00 +- 4.53E+00	U	pCi/L	100%	8.59E+00	3.00E+00	
B1WCW7								
KR3C61AC	ALPHA	1.60E+00 +- 5.55E+00	U	pCi/L	100%	1.05E+01	3.00E+00	
B1WCW8								
KR3C71AC	ALPHA	8.70E+00 +- 6.08E+00		pCi/L	100%	6.73E+00	3.00E+00	
B1WCW9								
KR3C91AC	ALPHA	7.74E+00 +- 1.68E+01	U	pCi/L	100%	2.91E+01	3.00E+00	
B1WCX0								
KR3DC1AC	ALPHA	-2.06E+01 +- 1.58E+01	U	pCi/L	100%	3.46E+01	3.00E+00	
B1WCX1								
KR3DD1AC	ALPHA	6.63E-01 +- 5.78E+00	U	pCi/L	100%	1.11E+01	3.00E+00	
B1WCX2								
KR3DE1AC	ALPHA	-3.19E+00 +- 5.25E+00	U	pCi/L	100%	1.10E+01	3.00E+00	
B1WCX3								
KR3DF1AC	ALPHA	8.25E+00 +- 7.22E+00	U	pCi/L	100%	1.03E+01	3.00E+00	
B1WCX4								
KR3DH1AC	ALPHA	1.05E+01 +- 1.09E+01	U	pCi/L	100%	1.66E+01	3.00E+00	
B1WCX5								
KR3DJ1AC	ALPHA	4.46E-01 +- 2.73E+00	U	pCi/L	100%	6.28E+00	3.00E+00	
B1WCX6								
KR3DK1AC	ALPHA	2.45E+00 +- 2.89E+00	U	pCi/L	100%	5.10E+00	3.00E+00	
B1WCX7								
KR3DL1AC	ALPHA	3.89E-01 +- 1.49E+00	U	pCi/L	100%	3.28E+00	3.00E+00	
B1WL51								
KR3DM1AC	ALPHA	8.24E-01 +- 2.16E+00	U	pCi/L	100%	4.59E+00	3.00E+00	
B1WL52								
KR3DN1AC	ALPHA	1.49E+00 +- 3.40E+00	U	pCi/L	100%	7.13E+00	3.00E+00	
B1WL53								
KR3DP1AC	ALPHA	1.23E+00 +- 1.00E+00	U	pCi/L	100%	1.26E+00	3.00E+00	

No. of Results: 36

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.

QC Results Summary

Date: 28-Jul-08

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Report No. : 39588 **SDG No.:** W05461

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
BETA_GPC								
8205493 BLANK QC,								
KR3DW1AA	BETA	1.60E+00 +- 1.19E+00	U	pCi/L	100%			2.22E+00
8205493 LCS,								
KR3DW1AC	BETA	2.73E+01 +- 4.11E+00		pCi/L	100%	122%	0.2	1.98E+00
RICHRC5014								
8205496 BLANK QC,								
KR3D61AA	ALPHA	-4.64E-02 +- 1.15E-01	U	pCi/L	100%			3.33E-01
8205496 LCS,								
KR3D61AC	ALPHA	1.91E+01 +- 4.28E+00		pCi/L	100%	85%	-0.2	5.64E-01

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.

TESTAMERICA

FORM I

SAMPLE RESULTS

Date: 28-Jul-08

Lab Name: TestAmerica | **SDG:** W05461 | **Collection Date:** 7/23/2008 11:35:00 AM

Lot-Sample No.: J8G230284-1 | **Report No. :** 39588 | **Received Date:** 7/23/2008 3:45:00 PM

Client Sample ID: B1WCW4 | **COC No. :** F06-027-247 | **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: 8205493	BETA_GPC			**Work Order:** KR3C11AA			**Report DB ID:** 9KR3C110					
BETA	***5.11E+01***		2.2E+01	2.3E+01	3.98E+01	pCi/L	100%	*(1.3)*	7/25/08 02:49 p		0.0106	GPC26A
						1.92E+01	4.00E+00	*(4.4)*			L	
Batch: 8205496	RICHRC5014			**Work Order:** KR3C11AC			**Report DB ID:** 9KR3C110					
ALPHA	***6.82E+00***	U	8.0E+00	8.2E+00	1.28E+01	pCi/L	100%	*0.53*	7/25/08 03:11 p		0.0087	GPC10A
						5.06E+00	3.00E+00	*(1.7)*			L	

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

13

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.

TESTAMERICA

FORM I

SAMPLE RESULTS

Date: 28-Jul-08

Lab Name: TestAmerica | **SDG:** W05461 | **Collection Date:** 7/23/2008 11:45:00 AM

Lot-Sample No.: J8G230284-2 | **Report No. :** 39588 | **Received Date:** 7/23/2008 3:45:00 PM

Client Sample ID: B1WCW5 | **COC No. :** F06-027-247 | **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: 8205493	BETA_GPC			**Work Order:** KR3C31AA		**Report DB ID:** 9KR3C310						
BETA	***2.73E+01***		1.0E+01	1.1E+01	1.85E+01	pCi/L	100%	*(1.5)*	7/25/08 02:49 p		0.0211	GPC26C
						8.93E+00	4.00E+00	*(4.9)*			L	
Batch: 8205496	RICHRC5014			**Work Order:** KR3C31AC		**Report DB ID:** 9KR3C310						
ALPHA	***5.07E+00***	U	4.4E+00	4.5E+00	6.06E+00	pCi/L	100%	*0.84*	7/25/08 03:11 p		0.0166	GPC10B
						2.27E+00	3.00E+00	*(2.3)*			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.

TESTAMERICA

FORM I

SAMPLE RESULTS

Date: 28-Jul-08

Lab Name: TestAmerica | **SDG:** W05461 | **Collection Date:** 7/23/2008 11:55:00 AM

Lot-Sample No.: J8G230284-3 | **Report No. :** 39588 | **Received Date:** 7/23/2008 3:45:00 PM

Client Sample ID: B1WCW6 | **COC No. :** F06-027-247 | **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: 8205493	BETA_GPC			**Work Order:** KR3C51AA			**Report DB ID:** 9KR3C510					
BETA	***5.14E+01***		1.3E+01	1.5E+01	2.23E+01	pCi/L	100%	*(2.3)*	7/25/08 02:49 p		0.0176	GPC26D
						1.07E+01	4.00E+00	*(6.9)*			L	
Batch: 8205496	RICHRC5014			**Work Order:** KR3C51AC			**Report DB ID:** 9KR3C510					
ALPHA	***1.43E+00***	U	4.5E+00	4.5E+00	8.59E+00	pCi/L	100%	*0.17*	7/25/08 03:11 p		0.0123	GPC10D
						3.33E+00	3.00E+00	*0.63*			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: 28-Jul-08

Lab Name: TestAmerica | **SDG:** W05461 | **Collection Date:** 7/23/2008 11:15:00 AM

Lot-Sample No.: J8G230284-4 | **Report No. :** 39588 | **Received Date:** 7/23/2008 3:45:00 PM

Client Sample ID: B1WCW7 | **COC No. :** F06-027-247 | **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: 8205493	BETA_GPC			**Work Order:**	KR3C61AA		**Report DB ID:**	9KR3C610				
BETA	***8.41E+00***	U	1.5E+01	1.5E+01	2.90E+01	pCi/L	100%	*0.29*	7/25/08 02:49 p		0.0129	GPC27A
						1.39E+01	4.00E+00	*(1.1)*			L	
Batch: 8205496	RICHRC5014			**Work Order:**	KR3C61AC		**Report DB ID:**	9KR3C610				
ALPHA	***1.60E+00***	U	5.5E+00	5.5E+00	1.05E+01	pCi/L	100%	*0.15*	7/25/08 03:11 p		0.0114	GPC10E
						4.16E+00	3.00E+00	*0.58*			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.

TESTAMERICA

FORM I

SAMPLE RESULTS

Date: 28-Jul-08

Lab Name: TestAmerica | **SDG:** W05461 | **Collection Date:** 7/23/2008 11:25:00 AM

Lot-Sample No.: J8G230284-5 | **Report No. :** 39588 | **Received Date:** 7/23/2008 3:45:00 PM

Client Sample ID: B1WCW8 | **COC No. :** F06-027-247 | **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: 8205493	BETA_GPC			**Work Order:** KR3C71AA			**Report DB ID:** 9KR3C710					
BETA	***3.67E+01***		1.5E+01	1.6E+01	2.71E+01	pCi/L	100%	*(1.4)*	7/25/08 02:49 p		0.0148	GPC27B
						1.31E+01	4.00E+00	*(4.6)*			L	
Batch: 8205496	RICHRC5014			**Work Order:** KR3C71AC			**Report DB ID:** 9KR3C710					
ALPHA	***8.70E+00***		5.8E+00	6.1E+00	6.73E+00	pCi/L	100%	*(1.3)*	7/25/08 03:11 p		0.0124	GPC10F
						2.38E+00	3.00E+00	*(2.9)*			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.

TESTAMERICA

FORM I

SAMPLE RESULTS

Date: 28-Jul-08

Lab Name: TestAmerica | **SDG:** W05461 | **Collection Date:** 7/23/2008 10:35:00 AM

Lot-Sample No.: J8G230284-6 | **Report No. :** 39588 | **Received Date:** 7/23/2008 3:45:00 PM

Client Sample ID: B1WCW9 | **COC No. :** F06-027-247 | **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: 8205493	BETA_GPC			**Work Order:** KR3C91AA			**Report DB ID:** 9KR3C910					
BETA	***5.16E+01***	U	3.0E+01	3.1E+01	5.63E+01	pCi/L	100%	*0.92*	7/25/08 02:49 p		0.0074	GPC27C
						2.72E+01	4.00E+00	*(3.3)*			L	
Batch: 8205496	RICHRC5014			**Work Order:** KR3C91AC			**Report DB ID:** 9KR3C910					
ALPHA	***7.74E+00***	U	1.7E+01	1.7E+01	2.91E+01	pCi/L	100%	*0.27*	7/25/08 03:11 p		0.0063	GPC11A
						1.25E+01	3.00E+00	*0.92*			L	

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

18

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: 28-Jul-08

Lab Name: TestAmerica **SDG:** W05461 **Collection Date:** 7/23/2008 10:45:00 AM

Lot-Sample No.: J8G230284-7 **Report No. :** 39588 **Received Date:** 7/23/2008 3:45:00 PM

Client Sample ID: B1WCX0 **COC No. :** F06-027-247 **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: 8205493	BETA_GPC			**Work Order:**	KR3DC1AA		**Report DB ID:**	9KR3DC10				
BETA	***5.35E+01***		2.6E+01	2.7E+01	4.85E+01	pCi/L	100%	*(1.1)*	7/25/08 02:49 p		0.0083	GPC27D
						2.34E+01	4.00E+00	*(3.9)*			L	
Batch: 8205496	RICHRC5014			**Work Order:**	KR3DC1AC		**Report DB ID:**	9KR3DC10				
ALPHA	***-2.06E+01***	U	1.5E+01	1.6E+01	3.46E+01	pCi/L	100%	*-0.6*	7/25/08 03:11 p		0.0073	GPC11C
						1.53E+01	3.00E+00	*-(2.6)*			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.

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FORM I

SAMPLE RESULTS

Date: 28-Jul-08

Lab Name: TestAmerica | **SDG:** W05461 | **Collection Date:** 7/23/2008 9:35:00 AM

Lot-Sample No.: J8G230284-8 | **Report No. :** 39588 | **Received Date:** 7/23/2008 3:45:00 PM

Client Sample ID: B1WCX1 | **COC No. :** F06-027-247 | **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: 8205493	BETA_GPC			**Work Order:** KR3DD1AA		**Report DB ID:** 9KR3DD10						
BETA	***6.80E+02***		3.2E+01	1.1E+02	2.30E+01	pCi/L	100%	*(29.6)*	7/25/08 02:49 p		0.0169	GPC28B
						1.11E+01	4.00E+00	*(11.9)*			L	
Batch: 8205496	RICHRC5014			**Work Order:** KR3DD1AC		**Report DB ID:** 9KR3DD10						
ALPHA	***6.63E-01***	U	5.8E+00	5.8E+00	1.11E+01	pCi/L	100%	*0.06*	7/25/08 03:11 p		0.0147	GPC11D
						4.63E+00	3.00E+00	*0.23*			L	

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

20

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.

TESTAMERICA

FORM I

SAMPLE RESULTS

Date: 28-Jul-08

Lab Name: TestAmerica | **SDG:** W05461 | **Collection Date:** 7/23/2008 10:55:00 AM

Lot-Sample No.: J8G230284-9 | **Report No. :** 39588 | **Received Date:** 7/23/2008 3:45:00 PM

Client Sample ID: B1WCX2 | **COC No. :** F06-027-247 | **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: 8205493	BETA_GPC			**Work Order:** KR3DE1AA			**Report DB ID:** 9KR3DE10					
BETA	***3.01E+01***		1.3E+01	1.3E+01	2.24E+01	pCi/L	100%	*(1.3)*	7/25/08 02:49 p		0.0183	GPC28C
						1.08E+01	4.00E+00	*(4.6)*			L	
Batch: 8205496	RICHRC5014			**Work Order:** KR3DE1AC			**Report DB ID:** 9KR3DE10					
ALPHA	***-3.19E+00***	U	5.2E+00	5.3E+00	1.10E+01	pCi/L	100%	*-0.29*	7/25/08 03:12 p		0.0173	GPC12A
						4.79E+00	3.00E+00	*-(1.2)*			L	

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

21

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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.

TESTAMERICA

FORM I

SAMPLE RESULTS

Date: 28-Jul-08

Lab Name: TestAmerica | **SDG:** W05461 | **Collection Date:** 7/23/2008 10:05:00 AM

Lot-Sample No.: J8G230284-10 | **Report No. :** 39588 | **Received Date:** 7/23/2008 3:45:00 PM

Client Sample ID: B1WCX3 | **COC No. :** F06-027-247 | **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: 8205493	BETA_GPC			**Work Order:** KR3DF1AA			**Report DB ID:** 9KR3DF10					
BETA	***6.02E+02***		2.9E+01	8.2E+01	2.19E+01	pCi/L	100%	*(27.4)*	7/25/08 02:49 p		0.0183	GPC28D
						1.05E+01	4.00E+00	*(14.7)*			L	
Batch: 8205496	RICHRC5014			**Work Order:** KR3DF1AC			**Report DB ID:** 9KR3DF10					
ALPHA	***8.25E+00***	U	7.0E+00	7.2E+00	1.03E+01	pCi/L	100%	*0.8*	7/25/08 03:12 p		0.015	GPC12B
						4.23E+00	3.00E+00	*(2.3)*			L	

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

22

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.

TESTAMERICA

FORM I

SAMPLE RESULTS

Date: 28-Jul-08

Lab Name: TestAmerica | **SDG:** W05461 | **Collection Date:** 7/23/2008 11:05:00 AM

Lot-Sample No.: J8G230284-11 | **Report No. :** 39588 | **Received Date:** 7/23/2008 3:45:00 PM

Client Sample ID: B1WCX4 | **COC No. :** F06-027-247 | **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: 8205493	BETA_GPC			**Work Order:** KR3DH1AA			**Report DB ID:** 9KR3DH10					
BETA	***1.24E+03***		5.2E+01	1.7E+02	3.62E+01	pCi/L	100%	*(34.2)*	7/25/08 02:49 p		0.011	GPC31A
						1.75E+01	4.00E+00	*(14.6)*			L	
Batch: 8205496	RICHRC5014			**Work Order:** KR3DH1AC			**Report DB ID:** 9KR3DH10					
ALPHA	***1.05E+01***	U	1.1E+01	1.1E+01	1.66E+01	pCi/L	100%	*0.63*	7/25/08 03:12 p		0.0097	GPC12C
						7.03E+00	3.00E+00	*(1.9)*			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.

TESTAMERICA

FORM I

SAMPLE RESULTS

Date: 28-Jul-08

Lab Name: TestAmerica | **SDG:** W05461 | **Collection Date:** 7/23/2008 9:25:00 AM

Lot-Sample No.: J8G230284-12 | **Report No. :** 39588 | **Received Date:** 7/23/2008 3:45:00 PM

Client Sample ID: B1WCX5 | **COC No. :** F06-027-247 | **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: 8205493	BETA_GPC			**Work Order:** KR3DJ1AA			**Report DB ID:** 9KR3DJ10					
BETA	***4.19E+02***		2.2E+01	7.7E+01	1.69E+01	pCi/L	100%	*(24.8)*	7/25/08 02:49 p		0.0227	GPC31B
						8.14E+00	4.00E+00	*(10.8)*			L	
Batch: 8205496	RICHRC5014			**Work Order:** KR3DJ1AC			**Report DB ID:** 9KR3DJ10					
ALPHA	***4.46E-01***	U	2.7E+00	2.7E+00	6.28E+00	pCi/L	100%	*0.07*	7/26/08 08:28 a		0.0196	GPC10A
						2.54E+00	3.00E+00	*0.33*			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.

TESTAMERICA

FORM I

SAMPLE RESULTS

Date: 28-Jul-08

Lab Name: TestAmerica | **SDG:** W05461 | **Collection Date:** 7/23/2008 9:15:00 AM

Lot-Sample No.: J8G230284-13 | **Report No. :** 39588 | **Received Date:** 7/23/2008 3:45:00 PM

Client Sample ID: B1WCX6 | **COC No. :** F06-027-247 | **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: 8205493	BETA_GPC			**Work Order:** KR3DK1AA			**Report DB ID:** 9KR3DK10					
BETA	***1.68E+03***		3.6E+01	2.2E+02	1.37E+01	pCi/L	100%	*(122.5)*	7/25/08 02:49 p		0.0296	GPC31D
						6.59E+00	4.00E+00	*(15.4)*			L	
Batch: 8205496	RICHRC5014			**Work Order:** KR3DK1AC			**Report DB ID:** 9KR3DK10					
ALPHA	***2.45E+00***	U	2.8E+00	2.9E+00	5.10E+00	pCi/L	100%	*0.48*	7/26/08 08:28 a		0.0224	GPC10B
						2.02E+00	3.00E+00	*(1.7)*			L	

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

25

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.

TESTAMERICA

FORM I

SAMPLE RESULTS

Date: 28-Jul-08

Lab Name: TestAmerica | **SDG:** W05461 | **Collection Date:** 7/23/2008 9:55:00 AM

Lot-Sample No.: J8G230284-14 | **Report No. :** 39588 | **Received Date:** 7/23/2008 3:45:00 PM

Client Sample ID: B1WCX7 | **COC No. :** F06-027-247 | **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: 8205493	BETA_GPC			**Work Order:** KR3DL1AA			**Report DB ID:** 9KR3DL10					
BETA	***4.09E+02***		1.4E+01	5.3E+01	8.62E+00	pCi/L	100%	*(47.4)*	7/25/08 02:49 p		0.0478	GPC32A
						4.16E+00	4.00E+00	*(15.4)*			L	
Batch: 8205496	RICHRC5014			**Work Order:** KR3DL1AC			**Report DB ID:** 9KR3DL10					
ALPHA	***3.89E-01***	U	1.5E+00	1.5E+00	3.28E+00	pCi/L	100%	*0.12*	7/26/08 08:28 a		0.0423	GPC10C
						1.35E+00	3.00E+00	*0.52*			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.

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FORM I

SAMPLE RESULTS

Date: 28-Jul-08

Lab Name: TestAmerica | **SDG:** W05461 | **Collection Date:** 7/23/2008 9:45:00 AM

Lot-Sample No.: J8G230284-15 | **Report No. :** 39588 | **Received Date:** 7/23/2008 3:45:00 PM

Client Sample ID: B1WL51 | **COC No. :** F06-027-247 | **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: 8205493	BETA_GPC			**Work Order:**	KR3DM1AA		**Report DB ID:**	9KR3DM10				
BETA	***3.84E+02***		1.8E+01	5.1E+01	1.34E+01	pCi/L	100%	*(28.7)*	7/25/08 02:49 p		0.029	GPC32B
						6.46E+00	4.00E+00	*(15.)*			L	
Batch: 8205496	RICHRC5014			**Work Order:**	KR3DM1AC		**Report DB ID:**	9KR3DM10				
ALPHA	***8.24E-01***	U	2.2E+00	2.2E+00	4.59E+00	pCi/L	100%	*0.18*	7/26/08 08:28 a		0.0278	GPC10D
						1.86E+00	3.00E+00	*0.76*			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.

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FORM I

SAMPLE RESULTS

Date: 28-Jul-08

Lab Name: TestAmerica | **SDG:** W05461 | **Collection Date:** 7/23/2008 10:25:00 AM

Lot-Sample No.: J8G230284-16 | **Report No. :** 39588 | **Received Date:** 7/23/2008 3:45:00 PM

Client Sample ID: B1WL52 | **COC No. :** F06-027-247 | **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: 8205493	BETA_GPC			**Work Order:** KR3DN1AA			**Report DB ID:** 9KR3DN10					
BETA	***9.10E+02***		3.3E+01	1.3E+02	1.93E+01	pCi/L	100%	*(47.2)*	7/25/08 02:49 p		0.02	GPC32C
						9.27E+00	4.00E+00	*(14.1)*			L	
Batch: 8205496	RICHRC5014			**Work Order:** KR3DN1AC			**Report DB ID:** 9KR3DN10					
ALPHA	***1.49E+00***	U	3.4E+00	3.4E+00	7.13E+00	pCi/L	100%	*0.21*	7/26/08 08:28 a		0.0156	GPC10E
						2.79E+00	3.00E+00	*0.87*			L	

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

28

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.

TESTAMERICA

FORM I

SAMPLE RESULTS

Date: 28-Jul-08

Lab Name: TestAmerica | **SDG:** W05461 | **Collection Date:** 7/23/2008 10:15:00 AM

Lot-Sample No.: J8G230284-17 | **Report No. :** 39588 | **Received Date:** 7/23/2008 3:45:00 PM

Client Sample ID: B1WL53 | **COC No. :** F06-027-247 | **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: 8205493	BETA_GPC			**Work Order:** KR3DP1AA			**Report DB ID:** 9KR3DP10					
BETA	***5.80E+02***		1.1E+01	7.8E+01	3.02E+00	pCi/L	100%	*(192.)*	7/25/08 05:24 p		0.2	GPC26A
						1.44E+00	4.00E+00	*(14.8)*			L	
Batch: 8205496	RICHRC5014			**Work Order:** KR3DP1AC			**Report DB ID:** 9KR3DP10					
ALPHA	***1.23E+00***	U	9.7E-01	1.0E+00	1.26E+00	pCi/L	100%	*0.98*	7/25/08 05:34 p		0.2	GPC10A
						4.13E-01	3.00E+00	*(2.5)*			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.

TESTAMERICA

FORM II

Date: 28-Jul-08

DUPLICATE RESULTS

Lab Name: TestAmerica **SDG:** W05461 **Collection Date:** 7/23/2008 11:35:00 AM

Lot-Sample No.: J8G230284-1 **Report No. :** 39588 **Received Date:** 7/23/2008 3:45:00 PM

Client Sample ID: B1WCW4 DUP **COC No. :** F06-027-247 **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: 8205493	BETA_GPC			**Work Order:** KR3C11AD		**Report DB ID:** KR3C11DR			**Orig Sa DB ID:** 9KR3C110			
BETA	4.28E+01		2.1E+01	2.1E+01	3.78E+01	pCi/L	100%	(1.1)	7/25/08 02:49 p		0.0106	GPC26B
	5.11E+01		**RPD**	**17.8**		4.00E+00		(4.)			L	

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

30

RPD - Relative Percent Difference.

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

TESTAMERICA

FORM II

Date: 28-Jul-08

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	W05461	**Collection Date:**	7/23/2008 11:45:00 AM
Lot-Sample No.:	J8G230284-2	**Report No. :**	39588	**Received Date:**	7/23/2008 3:45:00 PM
Client Sample ID:	B1WCW5 DUP	**COC No. :**	F06-027-247	**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: 8205496	RICHRC5014			**Work Order:** KR3C31AD		**Report DB ID:** KR3C31DR			**Orig Sa DB ID:** 9KR3C310			
ALPHA	3.29E+00	U	4.7E+00	4.7E+00	7.74E+00	pCi/L	100%	0.43	7/25/08 03:11 p		0.0166	GPC10C
	5.07E+00	U	**RPD**	**42.5**		3.00E+00		(1.4)			L	

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

31

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.

TESTAMERICA

FORM II

BLANK RESULTS

Date: 28-Jul-08

Lab Name: TestAmerica **SDG:** W05461

Matrix: WATER **Report No. :** 39588

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: 8205496	RICHRC5014			**Work Order:**	KR3D61AA		**Report DB ID:**	KR3D61AB				
ALPHA	-4.64E-02	U	1.1E-01	1.1E-01	3.33E-01	pCi/L	100%	-0.14	7/26/08 08:28 a		0.2	GPC10F
					1.31E-01	3.00E+00		-0.81			L	
Batch: 8205493	BETA_GPC			**Work Order:**	KR3DW1AA		**Report DB ID:**	KR3DW1AB				
BETA	1.60E+00	U	1.2E+00	1.2E+00	2.22E+00	pCi/L	100%	0.72	7/25/08 02:49 p		0.2	GPC32D
					1.07E+00	4.00E+00		(2.7)			L	

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

32

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.

TESTAMERICA

FORM II

LCS RESULTS

Date: 28-Jul-08

Lab Name: TestAmerica **SDG:** W05461

Matrix: WATER **Report No. :** 39588

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: 8205496	RICHRC5014			**Work Order:** KR3D61AC			**Report DB ID:**	KR3D61CS					
ALPHA	1.91E+01		1.5E+00	4.3E+00	5.64E-01	pCi/L	100%	2.26E+01	3.32E-01	85%	7/26/08 08:29 a	0.2	GPC11A
							Rec Limits:	75	125	-0.2		L	
Batch: 8205493	BETA_GPC			**Work Order:** KR3DW1AC			**Report DB ID:**	KR3DW1CS					
BETA	2.73E+01		1.9E+00	4.1E+00	1.98E+00	pCi/L	100%	2.24E+01	2.95E-01	122%	7/26/08 08:06 a	0.2	GPC26A
							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

7/28/2008 9:34:11 AM

Lot No., Due Date: J8G230284; 07/28/2008
Client, Site: 108302; FLH HANFORD
QC Batch No., Method Test: 8205496; RALPHATH Alpha by GPC-Th
SDG, Matrix: W05461; 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 # 10-12739

First Level Review John Kostka **Date** 7-28-9

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8205496

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: Emily Ford Date: 7/28/08

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-12739**
NCM Initiated By: John Norton
Date Opened: 07/28/2008
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Alpha by GPC-Th
Lot #'s (Sample #'s): J8G230000 (496), J8G230284 (1,10,11,12,13,14,15,16,17,2,3,4,5,6,7,8,9),
QC Batches: 8205496,

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

Problem Description / Root Cause

Name	Date	Description
John Norton	07/28/2008	The samples did not meet the CRDL due to reduced aliquot sizes caused by hgih residue weights.

Corrective Action

Name	Date	Corrective Action
John Norton	07/28/2008	The samples were couned 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: 7/28/2008

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

Lot No., Due Date: J8G230284; 07/28/2008

Client, Site: 108302; FLH HANFORD

QC Batch No., Method Test: 8205493; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05461; 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 # 10-12738

First Level Review John Martin **Date** 7-28-8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 820493

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 Narr

Second Level Review: Erika Ford Date: 7/28/15

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

Clouseau
Nonconformance Memo

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-12738**
NCM Initiated By: John Norton
Date Opened: 07/28/2008
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Beta by GPC-Sr/Y
Lot #'s (Sample #'s): J8G230000 (493), J8G230284 (1,10,11,12,13,14,15,16,17,2,3,4,5,6,7,8,9),
QC Batches: 8205493,

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

Problem Description / Root Cause

Name	Date	Description
John Norton	07/28/2008	The samples did not meet the CRDL due to reduced aliquot sizes caused by high residue weights.

Corrective Action

Name	Date	Corrective Action
John Norton	07/28/2008	The samples were couned 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: 7/28/2008

TESTAMERICA

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F06-027-247

COLLECTOR
D. L. Ebb

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.#4-Post-Inj.Smpls-Day5

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.

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	
B1WCW4	KR3C1	WATER	7-23-8	1135	X
B1WCW5	KR3C3	WATER		1145	X
B1WCW6	KR3C5	WATER		1155	X
B1WCW7	KR3C6	WATER		1115	X
B1WCW8	KR3C7	WATER		1125	X

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
D. L. Ebb / [illegible]	7-23-8/1540	[illegible] LWLANE TAL	7-23-8/1540

SPECIAL INSTRUCTIONS

J8G230284
WO5461
DUE 72808

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

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

A-6003-618(01/06)

TESTAMERICA

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F06-027-247

COLLECTOR
D. CHILDS

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.#4-Post-Inj.Smpls-Day5

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.

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	
B1WCW9	KR3C9	WATER	7-23-8	1035	X
B1WCX0	KR3DC	WATER		1045	X
B1WCX1	KR3DD	WATER		0935	X
B1WCX2	KR3DE	WATER		1055	X
B1WCX3	KR3DF	WATER		1005	X

41

CHAIN OF POSSESSION

SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
D. CHILDS / DW Weil	7-23-8 / 1540	RR LVLANE TAL	7-23-8 / 1540
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

SPECIAL INSTRUCTIONS

J8G230284
W05461
DUE 72808

LABORATORY SECTION RECEIVED BY — TITLE — DATE/TIME

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

TESTAMERICA

Fluor Hanford Inc. | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | F06-027-247 | PAGE 3 OF 4

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	7A	DATA TURNAROUND
D, [illegible]	FABRE, RJ	373-2774	TRENT, SJ	AIR QUALITY	☐	3 Days / 15 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.	
100NR2 Syn.Apatite Inj.#4-Post-Inj.Smpls-Day5	100-N Apatite Barrier Performance Monitoring	F06-027	

ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA	METHOD OF SHIPMENT
	HNF-N-585-11		122561ES20	GOVERNMENT VEHICLE

SHIPPED TO	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
TestAmerica Incorporated, Richland		

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	
B1WCX4	KR3DH	WATER	7-23-8	1105	X
B1WCX5	KR3DJ	WATER		0925	X
B1WCX6	KR3DK	WATER		0915	X
B1WCX7	KR3DL	WATER		0955	X
B1WL51	KR3DM	WATER		0945	X

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[illegible]/[illegible]	7-23-8/1540	LJ LANE TAL	7-23-8/1540
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

SPECIAL INSTRUCTIONS

J8G230284
W05461
DUE 72808

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

A-6003-618(01/06)

TESTAMERICA

Fluor Hanford Inc. | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | F06-027-247 | PAGE 4 OF 4

COLLECTOR D. Weis	**COMPANY CONTACT** FABRE, RJ	**TELEPHONE NO.** 373-2774	**PROJECT COORDINATOR** TRENT, SJ	**PRICE CODE** 7A
SAMPLING LOCATION 100NR2 Syn.Apatite Inj.#4-Post-Inj.Smpls-Day5	**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.**	

DATA TURNAROUND 3 Days / 15 Days

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	
B1WL52	KR3DN	WATER	7-23-8	1025	X
B1WL53	KR3DP	WATER	7-23-8	1015	X

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
D. Weis / K. Weis	7-23-8/1540	RJ FABRE / RJ LANE TAL	7-23-8/1540
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

SPECIAL INSTRUCTIONS

J8G230284
WO5461
DUE 72808

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: 72308 1540 GM Screen Result 0.1K

Client: FLH SDG #: W0546 NA[ ] SAF #: F06-027 NA [ ]

Work Order Number: 180230284 Chain of Custody # F06-027-247

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 2-6mLs/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: _____ Date: 72308

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TESTAMERICA

7/24/2008 1:20:45 PM

108302, Fluor Hanford Inc Management Federal Servi , Waste 7/25/08 APP

Sample Preparation/Analysis

AZ Gross Alpha PrpRC5014

~~IZ~~ Gross Alpha by GPC using Th-230 curve

01 STANDARD TEST SET

S7

PRIORITY

Balance Id:1119381299

Pipet #: _____

AnalyDueDate: 07/28/2008 W054461

Sep1 DT/Tm Tech:

Batch: 8205496 **WATER** **pCi/L**

SEQ Batch, Test: None All Tests: 8205493 BCS8, 8205496 AZTZ,

PM, Quote: SS , 29754

Sep2 DT/Tm Tech:

Prep Tech: ,BockT / 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 KR3C1-1-AC J8G230284-1-SAMP 07/23/2008 11:35		8.70g,in AmtRec: LP #Containers: 1		1.5	40.7	200	9	1652	7/25/08 PA	Scr: Alpha: Beta:
2 KR3C3-1-AC J8G230284-2-SAMP 07/23/2008 11:45		16.60g,in AmtRec: LP #Containers: 1			45.8		10B			Scr: Alpha: Beta:
3 KR3C3-1-AD-X J8G230284-2-DUP 07/23/2008 11:45		16.60g,in AmtRec: LP #Containers: 1			46.7		10C			Scr: Alpha: Beta:
4 KR3C5-1-AC J8G230284-3-SAMP 07/23/2008 11:55		12.30g,in AmtRec: LP #Containers: 1			42.8		10D			Scr: Alpha: Beta:
5 KR3C6-1-AC J8G230284-4-SAMP 07/23/2008 11:15		11.40g,in AmtRec: LP #Containers: 1			42.9		10E			Scr: Alpha: Beta:
6 KR3C7-1-AC J8G230284-5-SAMP 07/23/2008 11:25		12.40g,in AmtRec: LP #Containers: 1			43.3		10F			Scr: Alpha: Beta:
7 KR3C9-1-AC J8G230284-6-SAMP 07/23/2008 10:35		6.30g,in AmtRec: LP #Containers: 1			46.1		11A			Scr: Alpha: Beta:

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7/24/2008 1:20:46 PM

Sample Preparation/Analysis

Balance Id:1119381299

108302, Fluor Hanford Inc Management Federal Servi , Waste

AZ Gross Alpha PrpRC5014

57 ~~TZ~~ Gross Alpha by GPC using Th-230 curve

01 STANDARD TEST SET

Pipet #: _____

AnalyDueDate: 07/28/2008

Sep1 DT/Tm Tech:

Batch: 8205496 **WATER** **pCi/L** **PM, Quote: SS , 29754**

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockT

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 KR3DC-1-AC J8G230284-7-SAMP 07/23/2008 10:45	7.30g,in	AmtRec: LP	#Containers: 1	1.5	47.5	200	11C Scr:	1652 Alpha:	7/25/08 MC Beta:	
9 KR3DD-1-AC J8G230284-8-SAMP 07/23/2008 09:35	14.70g,in	AmtRec: LP	#Containers: 1		48.7		11D Scr:	Alpha:	Beta:	
10 KR3DE-1-AC J8G230284-9-SAMP 07/23/2008 10:55	17.30g,in	AmtRec: LP	#Containers: 1		43.2		12A Scr:	Alpha:	Beta:	
11 KR3DF-1-AC J8G230284-10-SAMP 07/23/2008 10:05	15.00g,in	AmtRec: LP	#Containers: 1		46.2		12B Scr:	Alpha:	Beta:	
12 KR3DH-1-AC J8G230284-11-SAMP 07/23/2008 11:05	9.70g,in	AmtRec: LP	#Containers: 1		43.6		12C Scr:	Alpha:	Beta:	
13 KR3DJ-1-AC J8G230284-12-SAMP 07/23/2008 09:25	19.60g,in	AmtRec: LP	#Containers: 1		42.7		10A Scr:	1010 Alpha:	7/21/08 MC Beta:	
14 KR3DK-1-AC J8G230284-13-SAMP 07/23/2008 09:15	22.40g,in	AmtRec: LP	#Containers: 1		42.3		10B Scr:	Alpha:	Beta:	

TESTAMERICA

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TESTAMERICA

7/24/2008 1:20:47 PM

Sample Preparation/Analysis

Balance Id:1119381299

108302, Fluor Hanford Inc Management Federal Servi , Waste

AZ Gross Alpha PrpRC5014

~~AZ~~ Gross Alpha by GPC using Th-230 curve

01 STANDARD TEST SET

Pipet #: _____

AnalyDueDate: 07/28/2008

Sep1 DT/Tm Tech:

Batch: 8205496 **WATER** **pCi/L** **PM, Quote: SS , 29754**

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockT

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 KR3DL-1-AC J8G230284-14-SAMP 07/23/2008 09:55	AmtRec: LP	42.30g,in			APA	46.9 200	10C	1016	7/27/08 MC	
16 KR3DM-1-AC J8G230284-15-SAMP 07/23/2008 09:45	AmtRec: LP	27.80g,in				42.9	10D			
17 KR3DN-1-AC J8G230284-16-SAMP 07/23/2008 10:25	AmtRec: LP	15.60g,in				41.6	10E			
18 KR3DP-1-AC J8G230284-17-SAMP 07/23/2008 10:15	AmtRec: LP	200.00g,in				36.4 ~~100~~ 50	10A	1601	7/25/08 MC	
19 KR3D6-1-AA-B J8G230000-496-BLK 07/23/2008 11:45	AmtRec:	200.00g,in				0.2 200	10F	1610	7/26/08 MC	
20 KR3D6-1-AC-C J8G230000-496-LCS 07/23/2008 11:45	AmtRec:	200.00g,in	ASD4538 07/16/08,pd 06/01/01,r			0.5	11A			

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Sample Preparation/Analysis

AZ Gross Alpha PrpRC5014
TZ Gross Alpha by GPC using Th-230 curve
01 STANDARD TEST SET

Balance Id:1119381299

Pipet #: _____

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,BockT

AnalyDueDate: 07/28/2008

Batch: 8205496
SEQ Batch, Test: None

pCi/L

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

KR3C11AC-SAMP Constituent List:
ALPHA RDL:3 pCi/L LCL: UCL: RPD:
KR3D61AA-BLK:
ALPHA RDL:3 pCi/L LCL: UCL: RPD:
KR3D61AC-LCS:
Am-241 RDL: pCi/L LCL:70 UCL:130 RPD:20
KR3C11AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: A
KR3D61AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: A
KR3D61AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: A

Approved By _____ Date: _____

TESTAMERICA

7/28/2008 9:33:16 AM

ICOC Fraction Transfer/Status Report

ByDate: 7/29/2007, 8/2/2008, Batch: '8205496', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting		Comments
8205496					
AC		**Rev1C**	**BockT**	7/24/2008 12:11:14	
SC			wagarr	IsBatched 7/24/2008 8:03:54 AM	ICOC_RADCALC v4.8.32
SC			BockT	InPrep 7/24/2008 12:11:14 PM	rl-gpc-001 rev 0
SC			AshworthA	Prep2C 7/25/2008 12:56:48 PM	GPC-001 REVISION 0
SC			ClarkR	CalcC 7/25/2008 1:00:07 PM	RL-CI-006 REVISION 0
SC			ClarkR	CalcC 7/27/2008 7:25:08 AM	RL-CI-006 REVISION 0
SC			nortonj	Rev1C 7/28/2008 9:33:01 AM	RICH-RC-0002 REV 8
AC			**AshworthA**	7/25/2008 12:56:48	
AC			**ClarkR**	7/25/2008 1:00:07 PM	
AC			**ClarkR**	7/27/2008 7:25:08	
AC			**nortonj**	7/28/2008 9:33:01	

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.33

TESTAMERICA

7/24/2008 2:34:34 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

PRIORITY

Pipet #: _____

AnalyDueDate: 07/28/2008 W054461

Sep1 DT/Tm Tech:

Batch: 8205493 **WATER** **pCi/L**

PM, Quote: SS , 29754

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 8205493 BCS8, 8205496 AZTZ,

Prep Tech: ,BockT / 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 KR3C1-1-AA J8G230284-1-SAMP 07/23/2008 11:35	AmtRec: LP	10.60g,in #Containers: 1		1.5	69.8	200	7CA Scr:	1629 Alpha:	7/25/08 PM Beta:	
2 KR3C1-1-AD-X J8G230284-1-DUP 07/23/2008 11:35	AmtRec: LP	10.60g,in #Containers: 1			70.3		7CB Scr:	Alpha:	Beta:	
3 KR3C3-1-AA J8G230284-2-SAMP 07/23/2008 11:45	AmtRec: LP	21.10g,in #Containers: 1			82.3		7CC Scr:	Alpha:	Beta:	
4 KR3C5-1-AA J8G230284-3-SAMP 07/23/2008 11:55	AmtRec: LP	17.60g,in #Containers: 1			87.6		7CD Scr:	Alpha:	Beta:	
5 KR3C6-1-AA J8G230284-4-SAMP 07/23/2008 11:15	AmtRec: LP	12.90g,in #Containers: 1			72.2		27A Scr:	Alpha:	Beta:	
6 KR3C7-1-AA J8G230284-5-SAMP 07/23/2008 11:25	AmtRec: LP	14.80g,in #Containers: 1			76.5		27B Scr:	Alpha:	Beta:	
7 KR3C9-1-AA J8G230284-6-SAMP 07/23/2008 10:35	AmtRec: LP	7.40g,in #Containers: 1			75.2		27C Scr:	Alpha:	Beta:	

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TESTAMERICA

7/24/2008 2:34:35 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: 07/28/2008

Sep1 DT/Tm Tech:

Batch: 8205493 **WATER** **pCi/L** **PM, Quote: SS , 29754**

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockT

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 KR3DC-1-AA J8G230284-7-SAMP 07/23/2008 10:45		8.30g,in AmtRec: LP		1.5	77.7	200	77D Scr:	1629 Alpha:	7/25/form Beta:	
9 KR3DD-1-AA J8G230284-8-SAMP 07/23/2008 09:35		16.90g,in AmtRec: LP			79.9		258 Scr:	Alpha:	Beta:	
10 KR3DE-1-AA J8G230284-9-SAMP 07/23/2008 10:55		18.30g,in AmtRec: LP			63.3		28C Scr:	Alpha:	Beta:	
11 KR3DF-1-AA J8G230284-10-SAMP 07/23/2008 10:05		18.30g,in AmtRec: LP			82.7		2&0 Scr:	Alpha:	Beta:	
12 KR3DH-1-AA J8G230284-11-SAMP 07/23/2008 11:05		11.00g,in AmtRec: LP			65.6		31A Scr:	Alpha:	Beta:	
13 KR3DJ-1-AA J8G230284-12-SAMP 07/23/2008 09:25		22.70g,in AmtRec: LP			73.2		71B Scr:	Alpha:	Beta:	
14 KR3DK-1-AA J8G230284-13-SAMP 07/23/2008 09:15		29.60g,in AmtRec: LP			95.2		31D Scr:	Alpha:	Beta:	

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TESTAMERICA

7/24/2008 2:34:36 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: 8205493 **WATER** **pCi/L**

PM, Quote: SS , 29754

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockT

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 KR3DL-1-AA J8G230284-14-SAMP 07/23/2008 09:55		47.80g,in AmtRec: LP #Containers: 1		1.5	76.8	200	J24 Scr:	1C 29 Alpha:	7/25/08 RL Beta:	
16 KR3DM-1-AA J8G230284-15-SAMP 07/23/2008 09:45		29.00g,in AmtRec: LP #Containers: 1			61.2		J2B Scr:	Alpha:	Beta:	
17 KR3DN-1-AA J8G230284-16-SAMP 07/23/2008 10:25		20.00g,in AmtRec: LP #Containers: 1			77.0		J2C Scr:	Alpha:	Beta:	
18 KR3DP-1-AA J8G230284-17-SAMP 07/23/2008 10:15		200.00g,in AmtRec: LP #Containers: 1			69.5	100	26A Scr:	1812 Alpha:	7/25/08 RL Beta:	
19 KR3DW-1-AA-B J8G230000-493-BLK 07/23/2008 11:35		200.00g,in AmtRec: #Containers: 1			0.4	200	J2D Scr:	1624 Alpha:	7/25/08 RL Beta:	
20 KR3DW-1-AC-C J8G230000-493-LCS 07/23/2008 11:35		200.00g,in AmtRec: #Containers: 1	BESB3308 07/16/08,pd 07/14/08 r		7.5		T6A Scr:	0947 Alpha:	7/26/08 RL Beta:	

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TESTAMERICA

Sample Preparation/Analysis

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

Balance Id:1119381299

Pipet #: _____

AnalyDueDate: 07/28/2008

Sep1 DT/Tm Tech:

Batch: 8205493 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockT

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

KR3C11AA-SAMP Constituent List:

BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
KR3DW1AA-BLK:					
BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
KR3DW1AC-LCS:					
Sr-90	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

KR3C11AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KR3DW1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KR3DW1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

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ICOC Fraction Transfer/Status Report

ByDate: 7/29/2007, 8/2/2008, Batch: '8205493', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8205493						
AC		Rev1C	BockT	7/24/2008 1:54:28 PM		
SC			wagarr	IsBatched	7/24/2008 8:03:54 AM	ICOC_RADCALC v4.8.32
SC			BockT	InPrep	7/24/2008 1:54:28 PM	rl-gpc-001 rev 0
SC			AshworthA	Prep2C	7/25/2008 12:56:56 PM	GPC-001 REVISION 0
SC			ClarkR	CalcC	7/25/2008 1:00:14 PM	RL-CI-006 REVISION 0
SC			ClarkR	CalcC	7/27/2008 7:07:04 AM	RL-CI-006 REVISION 0
SC			nortonj	Rev1C	7/28/2008 9:27:18 AM	RICH-RC-0002 REV 8
AC			AshworthA	7/25/2008 12:56:56		
AC			ClarkR	7/25/2008 1:00:14 PM		
AC			ClarkR	7/27/2008 7:07:04		
AC			nortonj	7/28/2008 9:27:18		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.33