Analytical Data Package Prepared For

CH2M Hill Plateau Remediation

Radiochemical Analysis By

TestAmerica Inc

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

Assigned Laboratory Code: TARL

Data Package Contains 90 *Pages*

Report No.: 68936

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.
W07470	I16-021	B34XX1	J6E230411-1	M8NAV1AD	9M8NAV10	6148047
		B34XX1	J6E230411-1	M8NAV1AA	9M8NAV10	6148048
		B34XX1	J6E230411-1	M8NAV1AH	9M8NAV10	6148049
		B34XX1	J6E230411-1	M8NAV1AE	9M8NAV10	6148050
		B34XX1	J6E230411-1	M8NAV1AF	9M8NAV10	6148051
		B34XX1	J6E230411-1	M8NAV1AG	9M8NAV10	6148052
		B34XX1	J6E230411-1	M8NAV1AL	9M8NAV10	6148053
		B34XX1	J6E230411-1	M8NAV1AC	9M8NAV10	6148056
		B34XX1	J6E230411-1	M8NAV1AK	9M8NAV10	6148057
		B34XX1	J6E230411-1	M8NAV1AJ	9M8NAV10	6148059
		B34XX4	J6E230411-2	M8NAW1AD	9M8NAW10	6148047
		B34XX4	J6E230411-2	M8NAW1AA	9M8NAW10	6148048
		B34XX4	J6E230411-2	M8NAW1AH	9M8NAW10	6148049
		B34XX4	J6E230411-2	M8NAW1AE	9M8NAW10	6148050
		B34XX4	J6E230411-2	M8NAW1AF	9M8NAW10	6148051
		B34XX4	J6E230411-2	M8NAW1AG	9M8NAW10	6148052
		B34XX4	J6E230411-2	M8NAW1AL	9M8NAW10	6148053
		B34XX4	J6E230411-2	M8NAW1AC	9M8NAW10	6148056
		B34XX4	J6E230411-2	M8NAW1AK	9M8NAW10	6148057
		B34XX4	J6E230411-2	M8NAW1AJ	9M8NAW10	6148059
	S16-005	B350X8	J6E230412-1	M8NAX1AC	9M8NAX10	6148054
		B350X8	J6E230412-1	M8NAX1AD	9M8NAX10	6148055
		B350X8	J6E230412-1	M8NAX1AA	9M8NAX10	6148056
		B350X8	J6E230412-1	M8NAX1AE	9M8NAX10	6148058
		B35112	J6E260422-1	M8N2R1AA	9M8N2R10	6148055
		B351K4	J6E120405-8	M8L3P1AA	9M8L3P10	6148056

Report No.: 68936

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SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
W07470	S16-005	B351K4	J6E120405-8	M8L3P1AC	9M8L3P10	6148058
		B351L3	J6E120405-7	M8L3N1AA	9M8L3N10	6148056
		B351L3	J6E120405-7	M8L3N1AC	9M8L3N10	6148058
		B351M4	J6E120405-1	M8L3G1AC	9M8L3G10	6148054
		B351M4	J6E120405-1	M8L3G1AD	9M8L3G10	6148055
		B351M4	J6E120405-1	M8L3G1AA	9M8L3G10	6148056
		B351M4	J6E120405-1	M8L3G1AF	9M8L3G10	6148057
		B351M4	J6E120405-1	M8L3G1AE	9M8L3G10	6148058
		B351N0	J6E230414-3	M8NCA1AC	9M8NCA10	6148055
		B351N0	J6E230414-3	M8NCA1AA	9M8NCA10	6148056
		B351N0	J6E230414-3	M8NCA1AE	9M8NCA10	6148057
		B351N0	J6E230414-3	M8NCA1AD	9M8NCA10	6148059
		B351P8	J6E120405-4	M8L3K1AC	9M8L3K10	6148054
		B351P8	J6E120405-4	M8L3K1AD	9M8L3K10	6148055
		B351P8	J6E120405-4	M8L3K1AA	9M8L3K10	6148056
		B351P8	J6E120405-4	M8L3K1AF	9M8L3K10	6148057
		B351P8	J6E120405-4	M8L3K1AE	9M8L3K10	6148058
		B351P9	J6E120405-3	M8L3J1AC	9M8L3J10	6148054
		B351P9	J6E120405-3	M8L3J1AD	9M8L3J10	6148055
		B351P9	J6E120405-3	M8L3J1AA	9M8L3J10	6148056
		B351P9	J6E120405-3	M8L3J1AF	9M8L3J10	6148057
		B351P9	J6E120405-3	M8L3J1AE	9M8L3J10	6148058
		B351R8	J6E120405-6	M8L3M1AA	9M8L3M10	6148056
		B351R8	J6E120405-6	M8L3M1AC	9M8L3M10	6148058
		B351T8	J6E120405-5	M8L3L1AA	9M8L3L10	6148056
		B351T8	J6E120405-5	M8L3L1AD	9M8L3L10	6148057
		B351T8	J6E120405-5	M8L3L1AC	9M8L3L10	6148058
		B351V3	J6E230415-1	M8NCD1AA	9M8NCD10	6148059
		B351X2	J6E230414-4	M8NCC1AA	9M8NCC10	6148057
		B351Y8	J6E120405-9	M8L3Q1AA	9M8L3Q10	6148054
		B351Y8	J6E120405-9	M8L3Q1AC	9M8L3Q10	6148055
		B351Y8	J6E120405-9	M8L3Q1AD	9M8L3Q10	6148058
		B35223	J6E230413-1	M8NA01AA	9M8NA010	6148058
		B35234	J6E230413-2	M8NA21AC	9M8NA210	6148057
		B35234	J6E230413-2	M8NA21AA	9M8NA210	6148059
		B35290	J6E230414-2	M8NA91AD	9M8NA910	6148053
		B35290	J6E230414-2	M8NA91AC	9M8NA910	6148057
		B35290	J6E230414-2	M8NA91AA	9M8NA910	6148059

Report No.: 68936

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.
W07470	S16-005	B35291	J6E230414-1	M8NA81AD	9M8NA810	6148053
		B35291	J6E230414-1	M8NA81AC	9M8NA810	6148057
		B35291	J6E230414-1	M8NA81AA	9M8NA810	6148059
		B35FH7	J6E120405-2	M8L3H1AC	9M8L3H10	6148054
		B35FH7	J6E120405-2	M8L3H1AD	9M8L3H10	6148055
		B35FH7	J6E120405-2	M8L3H1AA	9M8L3H10	6148056
		B35FH7	J6E120405-2	M8L3H1AF	9M8L3H10	6148057
		B35FH7	J6E120405-2	M8L3H1AE	9M8L3H10	6148058

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

CH2M Hill Plateau Remediation Company
P.O. Box 1600
Mail Stop – R3-60
Richland, WA 99352

July 18, 2016

Attention: Scot Fitzgerald

SAF Number	:	S16-005, I16-021
Date SDG Closed	:	May 25, 2016
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W07470
Data Deliverable	:	30-Day / Summary

CASE NARRATIVE

I. Introduction

Between May 11, 2016 and May 25, 2016, twenty samples were received at TestAmerica (TARL). Upon receipt, the samples were assigned laboratory ID numbers to correspond with the CH2M specific IDs.

II. Sample Receipt

The 500-mL bottle for B34XX4 for Technetium-99 analysis was received unacidified. For more information refer to SIR attached to report. Except as noted, the samples were received in good condition and no anomalies were noted during check-in.

III. Analytical Results/Methodology

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

The requested analyses were:

Alpha Spectroscopy
Americium 241 by method RL-ALP-003
Plutonium-238, -239/240 by method RL-ALP-002
Uranium 234, 235 and 238 by method RL-ALP-015

Gas Proportional Counting
Gross Alpha by method RL-GPC-001
Gross Beta by method RL-GPC-001
Strontium-90 by method RL-GPC-010
Gamma Spectroscopy
Gamma Spec by method RL-GAM-001
Liquid Scintillation Counting
Carbon-14 by method RL-LSC-008
Plutonium-241 by method RL-ALP-002
Selenium-79 by method RL-LSC-012
Technetium-99 by TEVA method RL-LSC-014
Tritium by method RL-LSC-005

IV. Quality Control

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

QC and sample results are reported in the same units.

V. Comments

Alpha Spectroscopy
Americium 241 by method RL-ALP-003:
No analytical or quality issues were noted. The sample results and associated batch QC results are within contractual requirements.

Plutonium-238, -239/240 by method RL-ALP-002:
The blank result has a low tracer yield due to smeared spectra. A recount confirms the result. The LCS had a recovery outside of acceptance criteria at 128%. A recount confirmed. For more information refer to the SIR that is attached to this report. No other analytical or quality issues were noted. Except as noted, the sample results and associated batch QC results are within contractual requirements.

Uranium 234, 235 and 238 by method RL-ALP-015:
The LCS for U-234 has a recovery outside of acceptance criteria at 123%. For more information refer to SIR attached to report. No other analytical or quality issues were noted. Except as noted, the sample results and associated batch QC results are within contractual requirements.

Gas Proportional Counting
Gross Alpha by method RL-GPC-001:
Sample B351Y8 MDA exceeds the CRDL. The sample result is less than the CRDL and MDA. No other analytical or quality issues were noted. The sample results and associated batch QC results are within contractual requirements.

Gross Beta by method RL-GPC-001:
No analytical or quality issues were noted. The sample results and associated batch QC results are within contractual requirements.

Strontium-90 by method RL-GPC-010:
No analytical or quality issues were noted. The sample results and associated batch QC results are within contractual requirements.

Gamma Spectroscopy
Gamma Spec by method RL-GAM-001:
No analytical or quality issues were noted. The sample results and associated batch QC results are within contractual requirements.

Liquid Scintillation Counting
Carbon-14 by method RL-LSC-008:
No analytical or quality issues were noted. The sample results and associated batch QC results are within contractual requirements.

Plutonium-241 by method RL-ALP-002:
The blank MDA exceeds the CRDL. The blank result is less than the MDA and CRDL. No other analytical or quality issues were noted. Except as noted, the sample results and associated batch QC results are within contractual requirements.

Selenium-79 by method RL-LSC-012:
No analytical or quality issues were noted. The sample results and associated batch QC results are within contractual requirements.

Technetium-99 by TEVA method RL-LSC-014:
No analytical or quality issues were noted. The sample results and associated batch QC results are within contractual requirements.

Tritium by method RL-LSC-005:
No analytical or quality issues were noted. The sample results and associated batch QC results are within contractual requirements.

We certify that this data package is in compliance with the SOW, both technically and for completeness, including a full description of, explanation of, and corrective actions for, any and all deviations, from either the analyses requested or the case narrative requested. Release of the data contained in this hard copy data package has been authorized by the Laboratory Analytical Manager (or designee) and the laboratory's client services representative as verified by their signatures on this report.

CH2M Hill Plateau Remediation Company
July 18, 2016

Reviewed and approved:

Digitally signed by
Steven Campbell
Date: 2016.07.18
14:11:53 -07'00'

Steven Campbell
Project Manager Assistant

SAMPLE ISSUE RESOLUTION

SIR NUM	SIR16-364
REV NUM	0
DATE INITIATED	5/24/2016

SAMPLE EVENT INFORMATION

SAF NUM(S)	I16-021
OPERABLE UNIT(S)	200-UP-1
PROJECT(S)	CERC16
SAMPLE EVENT TITLE(S)	CERC16
LABORATORY	TestAmerica Incorporated, Richland

SAMPLING INFORMATION

NUMBER OF SAMPLES	1
SAMPLE NUMBERS	B34XX4
SAMPLE MATRIX	WATER
COLLECTION DATE	-
SDG NUM	

ISSUE BACKGROUND

CLASS	Field Sampling Issue
TYPE	Incorrect Sample Preservation
DESCRIPTION	The sample listed above for Tc-99 analysis was received unacidified.

DISPOSITION

DESCRIPTION	Acidify sample, report results and include comment in the case narrative
JUSTIFICATION	Final Disposition: Accept proposed resoltuion. SUBMITTED BY: Whitney Ritari DATE: 05/23/2016 ACCEPTED BY: Sarah Nagel DATE: 05/24/2016

SAMPLE ISSUE RESOLUTION

SIR NUM	SIR16-451
REV NUM	0
DATE INITIATED	6/30/2016

SAMPLE EVENT INFORMATION

SAF NUM(S)	I16-021
OPERABLE UNIT(S)	200-UP-1
PROJECT(S)	CERC16
SAMPLE EVENT TITLE(S)	CERC16
LABORATORY	TestAmerica Incorporated, Richland

SAMPLING INFORMATION

NUMBER OF SAMPLES	2
SAMPLE NUMBERS	B34XX1, B34XX4
SAMPLE MATRIX	WATER
COLLECTION DATE	5/22/2016 - 5/22/2016
SDG NUM	W07470

ISSUE BACKGROUND

CLASS	Laboratory Issue
TYPE	Quality Control Failure
DESCRIPTION	The batch blank for PUISO has a low tracer yield due to a smeared spectra. The LCS has a high recovery of 128%. Both were confirmed with a recount of the sample and QC. The sample results are less than the CRDL and MDC.

DISPOSITION

DESCRIPTION	Initiate SIR, report results and include comment in the case narrative.
JUSTIFICATION	Final Disposition: Accept proposed resolution. SUBMITTED BY: Whitney Ritari DATE: 06/30/2016 ACCEPTED BY: Scot Fitzgerald DATE: 06/30/2016

SAMPLE ISSUE RESOLUTION

SIR NUM	SIR16-503
REV NUM	0
DATE INITIATED	7/18/2016

SAMPLE EVENT INFORMATION

SAF NUM(S)	S16-005, I16-021
OPERABLE UNIT(S)	200-UP-1, NONE
PROJECT(S)	CERC16, SURV16
SAMPLE EVENT TITLE(S)	CERC16, SURV16
LABORATORY	TestAmerica Incorporated, Richland

SAMPLING INFORMATION

NUMBER OF SAMPLES	4
SAMPLE NUMBERS	B34XX1, B34XX4, B35290, B35291
SAMPLE MATRIX	WATER
COLLECTION DATE	5/20/2016 - 5/22/2016
SDG NUM	W07470

ISSUE BACKGROUND

CLASS	Laboratory Issue
TYPE	Quality Control Failure
DESCRIPTION	The LCS recovery for Uranium-234 analysis was outside acceptance criteria with a recovery of 123%.The sample and duplicate RPD and the batch blank are within acceptance criteria. All sample results are non-detects with U flags.

DISPOSITION

DESCRIPTION	Proposed Resolution: Report results and include comment in the case narrative that LCS recovery is outside acceptance criteria.
JUSTIFICATION	Final Disposition: Accept proposed resolution . SUBMITTED BY: Steven Campbell DATE: 07/14/2016 ACCEPTED BY: Sarah Nagel DATE: 07/18/2016

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	RL-GAM-001
EPA 900.0	Alpha & Beta	RL-GPC-001
EPA 00-02	Gross Alpha (Coprecipitation)	RL-GPC-002
EPA 903.0	Total Alpha Radium (Ra-226)	RL-RA-002
EPA 903.1	Ra-226	RL-RA-001
EPA 904.0	Ra-228	RL-RA-001
EPA 905.0	Sr-89/90	RL-GPC-003
ASTM D5174	Uranium	RL-KPA-003
EPA 906.0	Tritium	RL-LSC-005

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.
CSU (#s) ***u_c Combined Standard Uncert.***	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 standard 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|MDL	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.

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S16-005-249 Page 1 of 1

Collector	Karen Campbell CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-005	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, MAY 2016	Logbook No.	HNF-N-506 85/59	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	SURV	Priority:	30 Days **PRIORITY**	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
N/A
Special Handling:N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B351M4	N	W	5-11-16	1210	1x1-L P	9310_ALPHABETA_GPC: COMMON	6 Months	HNO3 to pH <2
B351M4	N	W	/	/	1x1-L P	906.0_TRITIUM_LSC: COMMON	6 Months	None
B351M4	N	W	/	/	3x1-L G/P	SRISO_SEP_PRECIP_GPC: COMMON	6 Months	HNO3 to pH <2
B351M4	N	W	5-11-16	1210	1x500-mL P	TC99_ETVDSK_LSC: COMMON m8L36	6 Months	HCl to pH <2

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J6E120405
W07470

July 19, 2016

J6E120405

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Karen Campbell CHPRC	Karen Campbell	Karen Campbell	MAY 11 2016 1235	Frank Hall CHPRC			MAY 11 2016 1235
Frank Hall CHPRC			MAY 11 2016 1420	J. Bock, TARL			MAY 11 2016 1420

Matrix *

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

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

PRINTED ON 4/26/2016 FSR ID = FSR12147 A-6004-842 (REV 2)

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CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S16-005-415 Page 1 of 1

Collector	Karen Campbell CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-005	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, MAY 2016	Logbook No.	HNF-N-506 85 / 59	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	SURV	Priority:	30 Days **PRIORITY**	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B35FH7	N	W	5-11-16	1149	1x1-L P	906.0_TRITIUM_LSC: COMMON	6 Months	None
B35FH7	N	W	/	/	1x1-L P	9310_ALPHABETA_GPC: COMMON	6 Months	HNO3 to pH <2
B35FH7	N	W	/	/	3x1-L G/P	SRISO_SEP_PRECIP_GPC: COMMON	6 Months	HNO3 to pH <2
B35FH7	N	W	5-11-16	1149	1x500-mL P	TC99_ETVDSK_LSC: COMMON MSL3H	6 Months	HCl to pH <2

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J6E120405
WD7470

July 19, 2016

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Karen Campbell CHPRC	Karen Campbell	MAY 11 2016 1235		Frank Hall CHPRC		MAY 11 2016 1235
Relinquished By	Frank Hall CHPRC		Date/Time MAY 11 2016 1420	Received By	J. Bock, TARL		Date/Time MAY 11 2016 1420
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S16-005-259 Page 1 of 1

Collector	Karen Campbell CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-005	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, MAY 2016	Logbook No.	HNF-N-506 85/59	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	SURV	Priority:	30 Days **PRIORITY**	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

N/A
Special Handling:N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B351P9	N	W	5-11-16	1051	1x1-L P	906.0_TRITIUM_LSC: COMMON	6 Months	None
B351P9	N	W	/	/	3x1-L G/P	SRISO_SEP_PRECIP_GPC: COMMON	6 Months	HNO3 to pH <2
B351P9	N	W	/	/	1x1-L P	9310_ALPHABETA_GPC: COMMON	6 Months	HNO3 to pH <2
B351P9	N	W	5-11-16	1051	1x500-mL P	TC99_ETVDSK_LSC: COMMON m8L3J	6 Months	HCl to pH <2

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J6E120405
W07470

July 19, 2016

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Karen Campbell CHPRC	Karen Campbell	MAY 11 2016 1235		Frank Hall CHPRC		MAY 11 2016 1235
Relinquished By	Frank Hall CHPRC		Date/Time MAY 11 2016 1420	Received By	J. Bock, TARL		Date/Time MAY 11 2016 1420
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S16-005-257 Page 1 of 1

Collector	Karen Campbell CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-005	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, MAY 2016	Logbook No.	HNF-N-506 85 / 59	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	SURV	Priority:	30 Days **PRIORITY**	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

N/A
Special Handling:N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B351P8	N	W	5-11-16	0730	1x1-L P	906.0_TRITIUM_LSC: COMMON	6 Months	None
B351P8	N	W	|	|	3x1-L G/P	SRISO_SEP_PRECIP_GPC: COMMON	6 Months	HNO3 to pH <2
B351P8	N	W	|	|	1x1-L P	9310_ALPHABETA_GPC: COMMON	6 Months	HNO3 to pH <2
B351P8	N	W	5-11-16	0730	1x500-mL P	TC99_ETVDSK_LSC: COMMON M8L3K	6 Months	HCl to pH <2

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J6E120405
WO7470

July 19, 2016

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Karen Campbell CHPRC	Karen Campbell	MAY 1 1 2016 1235		Frank Hall CHPRC		MAY 1 1 2016 1235
Relinquished By	Frank Hall CHPRC		MAY 1 1 2016 1420	Received By		J. Bock, TARI	MAY 1 1 2016 1420
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

PRINTED ON 4/26/2016 FSR ID = FSR31991 A-6004-842 (REV 2)

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CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S16-005-264 Page 1 of 1

Collector	Karen Campbell CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-005	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, MAY 2016	Logbook No.	HNF-N-506 85/59	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	SURV	Priority:	30 Days **PRIORITY**	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

N/A
Special Handling:N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B351T8	N	W	5-11-16	1130	1x1-L P	906.0_TRITIUM_LSC: COMMON	6 Months	None
B351T8	N	W			3x1-L G/P	SRISO_SEP_PRECIP_GPC: COMMON	6 Months	HNO3 to pH <2
B351T8	N	W	5-11-16	1130	1x500-mL P	TC99_ETVDSK_LSC: COMMON m8L3L	6 Months	HCl to pH <2

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July 19, 2016

JL6E120405
W07470

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Karen Campbell CHPRC	Karen Campbell	MAY 1 1 2016 1235		Frank Hall CHPRC		MAY 1 1 2016 1235
Relinquished By	Frank Hall CHPRC		Date/Time MAY 1 1 2016 1420	Received By	J. Bock, TARL		Date/Time MAY 1 1 2016 1420
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

PRINTED ON 3/21/2016 FSR ID = FSR12150 A-6004-842 (REV 2)

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CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S16-005-261 Page 1 of 1

Collector	Karen Campbell CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-005	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, MAY 2016	Logbook No.	HNF-N-506 85159	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	SURV	Priority:	30 Days **PRIORITY**	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

N/A
Special Handling:N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B351R8	N	W	5-11-16	1110	1x1-L P	906.0_TRITIUM_LSC: COMMON	6 Months	None
B351R8	N	W	5-11-16	1110	3x1-L G/P	SRISO_SEP_PRECIP_GPC: COMMON m8L3m	6 Months	HNO3 to pH <2

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JL6E120405
W07470

July 19, 2016

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Karen Campbell CHPRC	Karen Campbell	MAY 11 2016 1235		Frank Hall CHPRC		MAY 11 2016 1235
Relinquished By	Frank Hall CHPRC		Date/Time MAY 11 2016 1420	Received By	J. Bock, TARL		Date/Time MAY 11 2016 1420
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

PRINTED ON 3/21/2016 FSR ID = FSR28031 A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S16-005-246 Page 1 of 1

Collector	J.R. Aguilar/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-005	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, MAY 2016	Logbook No.	HNF-N-506 84/10	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	SURV	Priority:	30 Days PRIORITY	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

N/A
Special Handling:N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B351L3	N	W	5-11-16	1209	1x1-L P	906.0_TRITIUM_LSC: COMMON	6 Months	None
B351L3	N	W	5-11-16	1209	3x1-L G/P	SRISO_SEP_PRECIP_GPC: COMMON M8L3N	6 Months	HNO3 to pH <2

July 19, 2016

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J6E120405
W07470

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
J.R. Aguilar/CHPRC			MAY 11 2016 1220	Frank Hall CHPRC			MAY 11 2016 1220
Frank Hall CHPRC			MAY 11 2016 1420	J. Bock, TARL			MAY 11 2016 1420

Matrix *

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

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

PRINTED ON 3/21/2016 FSR ID = FSR28019 A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S16-005-243
		Page 1 of 1

Collector	Karen Campbell CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-005	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, MAY 2016	Logbook No.	HNF-N-506 85 / 59	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	SURV	Priority:	30 Days **PRIORITY**	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

N/A

Special Handling:N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B351K4	N	W	5-11-16	0944	1x1-L P	906.0_TRITIUM_LSC: COMMON	6 Months	None
B351K4	N	W	5-11-16	0944	3x1-L G/P	SRISO_SEP_PRECIP_GPC: COMMON M8L38	6 Months	HNO3 to pH <2

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JLE120405

W07470

July 19, 2016

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Karen Campbell CHPRC	Karen Campbell		MAY 11 2016 1025	Troy Bacon CHPRC	Troy L. Bacon		MAY 11 2016 1025
Troy Bacon CHPRC	Troy L. Bacon		MAY 11 2016 1420				MAY 11 2016 1420
					J. Beck, TARS		

Matrix *

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

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

PRINTED ON 3/21/2016 FSR ID = FSR9031 A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S16-005-278 Page 1 of 1

Collector	Karen Campbell CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-005	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, MAY 2016	Logbook No.	HNF-N-506 85/59	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	SURV	Priority:	30 Days **PRIORITY**	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

N/A
Special Handling:N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B351Y8	N	W	5-11-16	0956	1x1-L P	9310_ALPHABETA_GPC: COMMON	6 Months	HNO3 to pH <2
B351Y8	N	W	5-11-16	0956	3x1-L G/P	SRISO_SEP_PRECIP_GPC: COMMON M8L3Q	6 Months	HNO3 to pH <2

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JGE 120405
W07470

July 19, 2016

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Karen Campbell CHPRC	Karen Campbell	MAY 11 2016 1025		Troy Bacon CHPRC	Troy L. Bacon	MAY 11 2016 1025
Relinquished By	Troy Bacon CHPRC	Troy L. Bacon	MAY 11 2016 1420	Received By		J. Bock, TARL	MAY 11 2016 1420
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

PRINTED ON 3/21/2016 FSR ID = FSR12162 A-6004-842 (REV 2)

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

July 19, 2016

Sample Check-in List

Date/Time Received: 5-11-16 | 1420 Container GM Screen Result: (Airlock) 0 cpm Initials [B]
Sample GM Screen Result (Sample Receiving) 0 cpm Initials [B]

Client: PGW SDG #: W0N470 SAF #: S16-005 NA [ ]

Lot Number: J16E120405

Chain of Custody # S16-005-259; 261; 264; 246; 257; 415; 249; 243; 278

Shipping Container ID or Air Bill Number : _____ NA [B]

Samples received inside shipping container/cooler/box Yes [B] Continue with 1 through 4. Initial appropriate response.
No [ ] Go to 5, add comment to #16.

1. Custody Seals on shipping container intact? Yes [ ] No [ ] No Custody Seal [B]
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [B]
3. Cooler temperature: 11.8 °C Ice NA [ ]
4. Vermiculite/packing materials is NA [B] Wet [ ] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [B] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 9
7. Containers received: 5x500mLp; 39x4p
   40 SR 5/13/16
8. Sample holding times exceeded? NA [ ] Yes [ ] No [B]
9. Samples have: ____tape ____hazard labels [B] custody seals [B] appropriate sample labels
10. Matrix: ____A (FLT, Wipe, Solid, Soil) [B] I (Water) ____S (Air, Niosh 7400) ____T (Biological, Ni-63)
11. Samples:
    [B] are in good condition ____are leaking ____are broken
    ____have air bubbles (Only for samples requiring no head space) ____Other _____
12. Sample pH appropriate for analysis requested Yes [B] No [ ] NA [ ]
    (If acidification is necessary go to pH area & document sample ID, initial pH, amount of HNO_3 added and pH after addition on table)
13. Were any anomalies identified in sample receipt? Yes [ ] No [B]
14. Description of anomalies (include sample numbers): NA [B] _____
15. Sample Location, Sample Collector Listed on COC? * Yes [B] No [ ]
    *For documentation only. No corrective action needed.
16. Additional Information: N/A

[ ] Client/Courier denied temperature check. [B] Client/Courier unpack cooler.

Sample Check-in List completed by Sample Custodian:
Signature: [signature] Date: 5-11-16

Client Notification needed? Yes [ ] No [B] Date: _____
By: _____
Person contacted: _____

[B] No action necessary; process as is

Project Manager Stan Cupp Date 5/13/16

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I16-021-005 Page 1 of 1

Collector	Scott King CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	I16-021	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	200 UP1, MAY 2016	Logbook No.	HNF-N-506 83 / 74	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority: 30 Days	PRIORITY	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

N/A
Special Handling:N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B34XX1	N	W	MAY 2 2 2016	0845	1x1-L P	906.0_TRITIUM_LSC: COMMON	6 Months	None
B34XX1	N	W			1x1-L G/P	AMCMISO_EIE_PLATE_AEA: COMMON	6 Months	HNO3 to pH <2
B34XX1	N	W			2x1-L G/P	C14_LSC: COMMON	6 Months	None
B34XX1	N	W			3x1-L G/P	GAMMA_GS: COMMON; GAMMA_GS: GW 01	6 Months	HNO3 to pH <2
B34XX1	N	W			3x1-L G/P	PU241_IE_LSC: COMMON	6 Months	HNO3 to pH <2
B34XX1	N	W			1x1-L G/P	PUISO_PLATE_AEA: COMMON	6 Months	HNO3 to pH <2
B34XX1	N	W			2x1-L G/P	SE79_SEP_IE_LSC: COMMON	6 Months	HNO3 to pH <2
B34XX1	N	W			3x1-L G/P	SRISO_SEP_PRECIP_GPC: COMMON	6 Months	HNO3 to pH <2
B34XX1	N	W			1x500-mL P	TC99_ETVDSK_LSC: COMMON	6 Months	HCl to pH <2
B34XX1	N	W	MAY 2 2 2016	0845	1x1-L G/P	UISO_PLATE_AEA: COMMON	6 Months	HNO3 to pH <2

M8NAV

J6E230411

LA 5/23/16 ~~J6E231~~ J6E230411 W07470

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
Scott King CHPRC		MAY 2 2 2016 1325	L. Anderson, TARL		MAY 2 2 2016 1325
Relinquished By		Date/Time	Received By		Date/Time
Relinquished By		Date/Time	Received By		Date/Time
Relinquished By		Date/Time	Received By		Date/Time

Matrix *

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

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

PRINTED ON 5/4/2016 FSR ID = FSR28163 A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I16-021-013 Page 1 of 1

Collector	Scott King CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	I16-021	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	200 UP1, MAY 2016	Logbook No.	HNF-N-506 83/74	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority: 30 Days	PRIORITY	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

N/A
Special Handling:N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B34XX4	N	W	MAY 22 2016	0845	1x1-L P	906.0_TRITIUM_LSC: COMMON	6 Months	None
B34XX4	N	W			1x1-L G/P	AMCMISO_EIE_PLATE_AEA: COMMON	6 Months	HNO3 to pH <2
B34XX4	N	W			2x1-L G/P	C14_LSC: COMMON	6 Months	None
B34XX4	N	W			3x1-L G/P	GAMMA_GS: COMMON; GAMMA_GS: GW 01	6 Months	HNO3 to pH <2
B34XX4	N	W			3x1-L G/P	PU241_IE_LSC: COMMON	6 Months	HNO3 to pH <2
B34XX4	N	W			1x1-L G/P	PUISO_PLATE_AEA: COMMON	6 Months	HNO3 to pH <2
B34XX4	N	W			2x1-L G/P	SE79_SEP_IE_LSC: COMMON	6 Months	HNO3 to pH <2
B34XX4	N	W			3x1-L G/P	SRISO_SEP_PRECIP_GPC: COMMON	6 Months	HNO3 to pH <2
B34XX4	N	W			1x500-mL P	TC99_ETVDSK_LSC: COMMON	6 Months	HCl to pH <2
B34XX4	N	W	MAY 22 2016	0845	1x1-L G/P	UISO_PLATE_AEA: COMMON	6 Months	HNO3 to pH <2

M8NAW

JGE230411
W07470

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Scott King CHPRC	Scott King	MAY 22 2016 1325		L. Anderson, TARL	L. Anderson	MAY 22 2016 1325
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

PRINTED ON 5/4/2016 FSR ID = FSR28163 A-6004-842 (REV 2)

July 19, 2016

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 5/22/16 1325 Container GM Screen Result: (Airlock) 0 cpm Initials [LA]
Sample GM Screen Result (Sample Receiving) 0 cpm Initials [LA]

Client: PGW SDG #: W01470 SAF #: I16-021 NA [ ]

Lot Number: J16E230411

Chain of Custody # I16-021-005; 013

Shipping Container ID or Air Bill Number : _____ NA [LA]

Samples received inside shipping container/cooler/box Yes [LA] Continue with 1 through 4. Initial appropriate response.
No [ ] Go to 5, add comment to #16.

1. Custody Seals on shipping container intact? Yes [ ] No [ ] No Custody Seal [LA]
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [LA]
3. Cooler temperature: 7.1 °C ICE NA [ ]
4. Vermiculite/packing materials is NA [ ] Wet [LA] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [LA] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 2
7. Containers received: 2x500mLP; 34xLP
8. Sample holding times exceeded? NA [ ] Yes [ ] No [LA]
9. Samples have: ____ tape ____ hazard labels LA custody seals LA appropriate sample labels
10. Matrix: ____ A (FLT, Wipe, Solid, Soil) LA I (Water) ____ S (Air, Niosh 7400) ____ T (Biological, Ni-63)
11. Samples:
    LA are in good condition ____ are leaking ____ are broken
    ____ have air bubbles (Only for samples requiring no head space) ____ Other _____
12. Sample pH appropriate for analysis requested Yes [LA] No [ ] NA [ ]
    (If acidification is necessary go to pH area & document sample ID, initial pH, amount of HNO_3 added and pH after addition on table)
13. Were any anomalies identified in sample receipt? Yes [ ] No [LA] SR 5/24/16
14. Description of anomalies (include sample numbers): NA [LA] 500 mL container for B34XX4 Tc-99 analysis was received unacidified.
15. Sample Location, Sample Collector Listed on COC? * Yes [LA] No [ ]
    *For documentation only. No corrective action needed.
16. Additional Information: N/A

[ ] Client/Courier denied temperature check. [LA] Client/Courier unpack cooler.

Sample Check-in List completed by Sample Custodian:
Signature: J. Anderson Date: 5/22/16

Client Notification needed? Yes [ ] No [LA] Date: _____
By: _____
Person contacted: _____

[LA] No action necessary; process as is

Project Manager Stan Cupp Date 5/24/16

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Lot Number: JGE230411 SDG #: W01470

17. RPL ID # of preservative used: 5-15-00328

SAMPLE ID	DATE & TIME SAMPLED	DATE & TIME PRESERVED	< 5 DAYS? Y or N	Initial pH	Acid Amt	Final pH
B34XX4 500mLP	5/22/16 0845	5-24-16/8:40	N	~4.5	.5mL	<2

Sample Custodian: J Bock Date: 5-24-16

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S16-005-182 Page 1 of 1

Collector	Frank Hall CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-005	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, MAY 2016	Logbook No.	HNF-N-506 85 / 60	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	SURV	Priority:	30 Days PRIORITY	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

N/A
Special Handling:N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B350X8	N	W	MAY 2 2 2016	0856	1x1-L P	906.0_TRITIUM_LSC: COMMON	6 Months	None
B350X8	N	W	↓	↓	1x1-L P	9310_ALPHABETA_GPC: COMMON	6 Months	HNO3 to pH <2
B350X8	N	W	↓	↓	3x1-L G/P	SRISO_SEP_PRECIP_GPC: COMMON	6 Months	HNO3 to pH <2

M8NAX

J6E230412
W07470

J6E230412

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Frank Hall CHPRC			MAY 2 2 2016 1350		L. Anderson, TARL		MAY 2 2 2016 1350
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

PRINTED ON 3/21/2016 FSR ID = FSR27981 A-6004-842 (REV 2)

July 19, 2016
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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 5/22/16 1350 Container GM Screen Result: (Airlock) 0 cpm Initials [LA]
Sample GM Screen Result (Sample Receiving) 0 cpm Initials [LA]

Client: PGW SDG #: W01470 SAF #: S16-005 NA [ ]

Lot Number: 56E230412

Chain of Custody # S16-005-182

Shipping Container ID or Air Bill Number : _____ NA [LA]

Samples received inside shipping container/cooler/box Yes [LA] Continue with 1 through 4. Initial appropriate response.
No [ ] Go to 5, add comment to #16.

1. Custody Seals on shipping container intact? Yes [X] LA 5/22/16 No [ ] No Custody Seal [LA]
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [LA]
3. Cooler temperature: 7.4 °C ICE NA [ ]
4. Vermiculite/packing materials is NA [ ] Wet [LA] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [LA] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 1
7. Containers received: 5xLP
8. Sample holding times exceeded? NA [ ] Yes [ ] No [LA]
9. Samples have: ____tape ____hazard labels LA custody seals LA appropriate sample labels
10. Matrix: ____A (FLT, Wipe, Solid, Soil) LA I (Water) ____S (Air, Niosh 7400) ____T (Biological, Ni-63)
11. Samples:
    LA are in good condition ____are leaking ____are broken
    ____have air bubbles (Only for samples requiring no head space) ____Other _____
12. Sample pH appropriate for analysis requested Yes [LA] No [ ] NA [ ]
    (If acidification is necessary go to pH area & document sample ID, initial pH, amount of HNO_3 added and pH after addition on table)
13. Were any anomalies identified in sample receipt? Yes [ ] No [LA]
14. Description of anomalies (include sample numbers): NA [LA] _____
15. Sample Location, Sample Collector Listed on COC? * Yes [LA] No [ ]
    *For documentation only. No corrective action needed.
16. Additional Information: N/A

[ ] Client/Courier denied temperature check. [LA] Client/Courier unpack cooler.

Sample Check-in List completed by Sample Custodian:
Signature: J. Anderson Date: 5/22/16

Client Notification needed? Yes [ ] No [SB] Date: _____
By: _____
Person contacted: _____

[SB] No action necessary; process as is

Project Manager Stan Cupp Date 5/23/16

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S16-005-286 Page 1 of 1

Collector	W.M. WISE/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-005	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, MAY 2016	Logbook No.	HNF-N-506 8W 11	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	SURV	Priority:	30 Days **PRIORITY**	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

N/A
Special Handling:N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B35223	N	W	5-22-16	1125	3x1-L G/P	SRISO_SEP_PRECIP_GPC: COMMON	6 Months	HNO3 to pH <2

M8NA0

J6E230413
W07470

J6E230413

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
W.M. WISE/CHPRC			MAY 22 2016 1425		L. Anderson, TARL		MAY 22 2016 1425
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

PRINTED ON 3/21/2016 FSR ID = FSR28044 A-6004-842 (REV 2)

July 19, 2016

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S16-005-290 Page 1 of 1

Collector	W.M. WISE/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-005	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, MAY 2016	Logbook No.	HNF-N-506 SC / 11	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	SURV	Priority:	30 Days **PRIORITY**	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

N/A
Special Handling:N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B35234	N	W	5-22-16	1001	3x1-L G/P	SRISO_SEP_PRECIP_GPC: COMMON	6 Months	HNO3 to pH <2
B35234	N	W	5-22-16	1001	1x500-mL P	TC99_ETVDSK_LSC: COMMON	6 Months	HCl to pH <2

M8NA2

JGE23043
W07470

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
W.M. WISE/CHPRC			MAY 22 2016 1425		L. Anderson, TARL		MAY 22 2016 1425
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

PRINTED ON 3/21/2016 FSR ID = FSR28046 A-6004-842 (REV 2)

July 19, 2016

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 05/22/16 1425 Container GM Screen Result: (Airlock) 0 cpm Initials [LA]
Sample GM Screen Result (Sample Receiving) 0 cpm Initials [LA]

Client: PGW SDG #: W0T410 SAF #: S16-005 NA [ ]

Lot Number: JL6E230413

Chain of Custody # LA 5/23/16 ~~S16~~ S16-005-286; 290

Shipping Container ID or Air Bill Number : _____ NA [LA]

Samples received inside shipping container/cooler/box Yes [LA] Continue with 1 through 4. Initial appropriate response.
No [ ] Go to 5, add comment to #16.

1. Custody Seals on shipping container intact? Yes [ ] No [ ] No Custody Seal [LA]
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [LA]
3. Cooler temperature: 13.4 °C ICE NA [ ]
4. Vermiculite/packing materials is NA [ ] Wet [LA] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [LA] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 2
7. Containers received: 1x500mLP; 6LP
8. Sample holding times exceeded? NA [ ] Yes [ ] No [LA]
9. Samples have: ____tape ____hazard labels LA custody seals LA appropriate sample labels
10. Matrix: ____A (FLT, Wipe, Solid, Soil) LA I (Water) ____S (Air, Niosh 7400) ____T (Biological, Ni-63)
11. Samples:
    LA are in good condition ____are leaking ____are broken
    ____have air bubbles (Only for samples requiring no head space) ____Other ____
12. Sample pH appropriate for analysis requested Yes [LA] No [ ] NA [ ]
    (If acidification is necessary go to pH area & document sample ID, initial pH, amount of HNO_3 added and pH after addition on table)
13. Were any anomalies identified in sample receipt? Yes [ ] No [LA]
14. Description of anomalies (include sample numbers): NA [LA] ____
15. Sample Location, Sample Collector Listed on COC? * Yes [LA] No [ ]
    *For documentation only. No corrective action needed.
16. Additional Information: N/A

[ ] Client/Courier denied temperature check. [LA] Client/Courier unpack cooler.

Sample Check-in List completed by Sample Custodian:
Signature: J. Anderson Date: 5/22/16

Client Notification needed? Yes [ ] No [SL] Date: ____
By: ____
Person contacted: ____

[SL] No action necessary; process as is

Project Manager Stan Cupp Date 5/23/16

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S16-005-310 Page 1 of 1

Collector	Scott King CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-005	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, MAY 2016	Logbook No.	HNF-N-506 83/72	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	SURV	Priority: 30 Days	PRIORITY	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

N/A
Special Handling:N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B35291	N	W	MAY 20 2016	1040	3x1-L G/P	SRISO_SEP_PRECIP_GPC: COMMON	6 Months	HNO3 to pH <2
B35291	N	W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: COMMON	6 Months	HCl to pH <2
B35291	N	W	MAY 20 2016	1040	1x1-L G/P	UISO_PLATE_AEA: COMMON M8NA8	6 Months	HNO3 to pH <2

J6E230414
W07470

J6E230414

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Scott King CHPRC		Scott King	MAY 20 2016 1110	Troy Bacon CHPRC		Troy L. Bacon	MAY 20 2016 1110
Relinquished By: Troy Bacon CHPRC		Troy L. Bacon	MAY 20 2016 1410	Received By		J. Bock TALK	MAY 20 2016 1410
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

PRINTED ON 3/24/2016 FSR ID = FSR26612 A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S16-005-309 Page 1 of 1

Collector	Scott King CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-005	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, MAY 2016	Logbook No.	HNF-N-506 83 / 72	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	SURV	Priority:	30 Days PRIORITY	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

N/A
Special Handling:N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B35290	N	W	MAY 20 2016	1040	3x1-L G/P	SRISO_SEP_PRECIP_GPC: COMMON	6 Months	HNO3 to pH <2
B35290	N	W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: COMMON	6 Months	HCl to pH <2
B35290	N	W	MAY 20 2016	1040	1x1-L G/P	UISO_PLATE_AEA: COMMON M8NA9	6 Months	HNO3 to pH <2

JLOE230414
W07470

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Scott King CHPRC	Scott King	MAY 20 2016 1110		Troy Bacon CHPRC	Troy L. Bacon	MAY 20 2016 1110
Relinquished By	Troy Bacon CHPRC	Troy L. Bacon	MAY 20 2016 1410	Received By		J. Bock, TARL	MAY 20 2016 1410
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

PRINTED ON 3/24/2016 FSR ID = FSR26612 A-6004-842 (REV 2)

July 19, 2016

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S16-005-251 Page 1 of 1

Collector	D.L. Floyd/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-005	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, MAY 2016	Logbook No.	HNF-N-506 82 79	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	SURV	Priority:	30 Days **PRIORITY**	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

N/A
Special Handling:N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B351N0	N	W	MAY 20 2016	0859	1x1-L P	906.0_TRITIUM_LSC: COMMON	6 Months	None
B351N0	N	W			1x1-L P	9310_ALPHABETA_GPC: Gross Beta	6 Months	HNO3 to pH <2
B351N0	N	W			3x1-L G/P	SRISO_SEP_PRECIP_GPC: COMMON	6 Months	HNO3 to pH <2
B351N0	N	W			1x500-mL P	TC99_ETVDSK_LSC: COMMON MSNCA	6 Months	HCl to pH <2

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July 19, 2016

J6 E230414
W07470

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	D.L. Floyd/CHPRC		MAY 20 2016 1230		Troy Bacon CHPRC	Troy L. Bacon	MAY 20 2016 1230
Relinquished By	Troy Bacon CHPRC	Troy L. Bacon	MAY 20 2016 1410	Received By	J. Bock, TARL		MAY 20 2016 1410
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

PRINTED ON 3/22/2016 FSR ID = FSR28026 A-6004-842 (REV 2)

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CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S16-005-273 Page 1 of 1

Collector	D.L. Floyd/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-005	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, MAY 2016	Logbook No.	HNF-N-506 82 / 79	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	SURV	Priority:	30 Days **PRIORITY**	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

N/A
Special Handling:N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B351X2	N	W	MAY 2 0 2016	1041 ~~0945~~ 05 5-28-16	1x500-mL P	TC99_ETVDSK_LSC: COMMON M8NCC	6 Months	HCl to pH <2

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July 19, 2016

J6E230414
W07470

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D.L. Floyd/CHPRC			MAY 2 0 2016 1230	Troy Bacon CHPRC	Troy L. Bacon		MAY 2 0 2016 1230
Troy Bacon CHPRC	Troy L. Bacon		MAY 2 0 2016 1410	J. Bock, TARL			MAY 2 0 2016 1410

Matrix *

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

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

PRINTED ON 3/21/2016 FSR ID = FSR28025 A-6004-842 (REV 2)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

July 19, 2016

Sample Check-in List

Date/Time Received: 5-20-16 / 1410 Container GM Screen Result: (Airlock) 0 cpm Initials [B]
Sample GM Screen Result (Sample Receiving) 0 cpm Initials [B]

Client: PGW SDG #: W07470 SAF #: S16-005 NA [ ]

Lot Number: J6E230414

Chain of Custody # S16-005-310, 309, 251, 273

Shipping Container ID or Air Bill Number : _____ NA [B]

Samples received inside shipping container/cooler/box Yes [B] Continue with 1 through 4. Initial appropriate response.
No [ ] Go to 5, add comment to #16.

1. Custody Seals on shipping container intact? Yes [ ] No [ ] No Custody Seal [B]
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [B]
3. Cooler temperature: 9.3 °C Ice NA [ ]
4. Vermiculite/packing materials is NA [B] Wet [ ] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [B] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 4
7. Containers received: 4x500mLp; 13xLp
8. Sample holding times exceeded? NA [ ] Yes [ ] No [B]
9. Samples have: ____tape ____hazard labels B custody seals B appropriate sample labels
10. Matrix: ____A (FLT, Wipe, Solid, Soil) B I (Water) ____S (Air, Niosh 7400) ____T (Biological, Ni-63)
11. Samples:
    B are in good condition ____are leaking ____are broken
    ____have air bubbles (Only for samples requiring no head space) ____Other _____
12. Sample pH appropriate for analysis requested Yes [B] No [ ] NA [ ]
    (If acidification is necessary go to pH area & document sample ID, initial pH, amount of HNO_3 added and pH after addition on table)
13. Were any anomalies identified in sample receipt? Yes [ ] No [B]
14. Description of anomalies (include sample numbers): NA [B] _____
15. Sample Location, Sample Collector Listed on COC? * Yes [B] No [ ]
    *For documentation only. No corrective action needed.
16. Additional Information: N/A

[ ] Client/Courier denied temperature check. [B] Client/Courier unpack cooler.

Sample Check-in List completed by Sample Custodian:
Signature: Jennifer Bosch Date: 5-20-16

Client Notification needed? Yes [ ] No [B] Date: _____
By: _____
Person contacted: _____

[B] No action necessary; process as is

Project Manager Sam Cupp Date 5/24/16

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S16-005-266 Page 1 of 1

Collector	D.L. Floyd/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-005	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, MAY 2016	Logbook No.	HNF-N-506 821 SC	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	SURV	Priority:	30 Days **PRIORITY**	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

N/A
Special Handling:N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B351V3	N	W	MAY 20 2016	1331	3x1-L G/P	SRISO_SEP_PRECIP_GPC: COMMON, 1N8NCD	6 Months	HNO3 to pH <2

J6E230415
W07470

J6E230415

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D.L. Floyd/CHPRC			MAY 20 2016 1440		J. Bock, TARL		MAY 20 2016 1440
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

PRINTED ON 3/21/2016 FSR ID = FSR28033 A-6004-842 (REV 2)

July 19, 2016

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

July 19, 2016

Sample Check-in List

Date/Time Received: 5-20-16 / 1440 Container GM Screen Result: (Airlock) 0 cpm Initials [B]
Sample GM Screen Result (Sample Receiving) 0 cpm Initials [B]

Client: PGW SDG #: W01470 SAF #: S16-005 NA [ ]

Lot Number: J6E230415

Chain of Custody # S16-005-266

Shipping Container ID or Air Bill Number : _____ NA [B]

Samples received inside shipping container/cooler/box Yes [B] Continue with 1 through 4. Initial appropriate response.
No [ ] Go to 5, add comment to #16.

1. Custody Seals on shipping container intact? Yes [ ] No [ ] No Custody Seal [B]
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [B]
3. Cooler temperature: 12.5 °C not on ice NA [ ]
4. Vermiculite/packing materials is NA [B] Wet [ ] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [B] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 1
7. Containers received: 3x4p
8. Sample holding times exceeded? NA [ ] Yes [ ] No [B]
9. Samples have: ____ tape ____ hazard labels B custody seals B appropriate sample labels
10. Matrix: ____ A (FLT, Wipe, Solid, Soil) B I (Water) ____ S (Air, Niosh 7400) ____ T (Biological, Ni-63)
11. Samples:
    B are in good condition ____ are leaking ____ are broken
    ____ have air bubbles (Only for samples requiring no head space) ____ Other ____
12. Sample pH appropriate for analysis requested Yes [B] No [ ] NA [ ]
    (If acidification is necessary go to pH area & document sample ID, initial pH, amount of HNO_3 added and pH after addition on table)
13. Were any anomalies identified in sample receipt? Yes [ ] No [B] – See #16
14. Description of anomalies (include sample numbers): NA [B]
15. Sample Location, Sample Collector Listed on COC? * Yes [B] No [ ]
    *For documentation only. No corrective action needed.
16. Additional Information: Samples were received not on ice. Pm gone. Contacted P.W. who told me to note on check-list

[ ] Client/Courier denied temperature check. [B] Client/Courier unpack cooler.

Sample Check-in List completed by Sample Custodian:
Signature: Julie Bosch Date: 5-20-16

Client Notification needed? Yes [ ] No [B] Date: _____
By: _____
Person contacted: _____

[B] No action necessary; process as is

Project Manager Sam Cupp Date 5/24/16

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S16-005-191 Page 1 of 1

Collector	D.L. Floyd/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-005	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, MAY 2016	Logbook No.	HNF-N-506 82/81	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	SURV	Priority:	30 Days **PRIORITY**	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

N/A
Special Handling:N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B35112	N	W	MAY 2 5 2016	1153	1x1-L P	9310_ALPHABETA_GPC: Gross Beta	6 Months	HNO3 to pH <2

M8N27R

J6E260422

W07470

J6E260422

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D.L. Floyd/CHPRC			MAY 2 5 2016 1230	L.D. Wall CHPRC			MAY 2 5 2016 1230
L.D. Wall CHPRC			MAY 2 5 2016 1415	J. Bock, TARL			MAY 2 5 2016 1415

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

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

PRINTED ON 3/21/2016 FSR ID = FSR27993 A-6004-842 (REV 2)

July 19, 2016

TestAmerica
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Sample Check-in List

Date/Time Received: 5-25-16 / 1415 Container GM Screen Result: (Airlock) 0 cpm Initials[ ]
Sample GM Screen Result (Sample Receiving) 0 cpm Initials[ ]

Client: PGW SDG #: W07470 SAF #: S16-005 NA [ ]

Lot Number: J6E260422

Chain of Custody # S16-005-191

Shipping Container ID or Air Bill Number : _____ NA [ ]

Samples received inside shipping container/cooler/box Yes [ ] Continue with 1 through 4. Initial appropriate response.
No [ ] Go to 5, add comment to #16.

1. Custody Seals on shipping container intact? Yes [ ] No [ ] No Custody Seal [ ]
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [ ]
3. Cooler temperature: 12.4 °C Ice NA [ ]
4. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [ ] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 1
7. Containers received: 1XLP
8. Sample holding times exceeded? NA [ ] Yes [ ] No [ ]
9. Samples have: ____tape ____hazard labels ____custody seals ____appropriate sample labels
10. Matrix: ____A (FLT, Wipe, Solid, Soil) ____I (Water) ____S (Air, Niosh 7400) ____T (Biological, Ni-63)
11. Samples:
    ____are in good condition ____are leaking ____are broken
    ____have air bubbles (Only for samples requiring no head space) ____Other _____
12. Sample pH appropriate for analysis requested Yes [ ] No [ ] NA [ ]
    (If acidification is necessary go to pH area & document sample ID, initial pH, amount of HNO_3 added and pH after addition on table)
13. Were any anomalies identified in sample receipt? Yes [ ] No [ ]
14. Description of anomalies (include sample numbers): NA [ ] _____
15. Sample Location, Sample Collector Listed on COC? * Yes [ ] No [ ]
    *For documentation only. No corrective action needed.
16. Additional Information: N/A

[ ] Client/Courier denied temperature check. [ ] Client/Courier unpack cooler.

Sample Check-in List completed by Sample Custodian:
Signature: _____ Date: 1415 5/25/16

Client Notification needed? Yes [ ] No [ ] Date: _____
By: _____
Person contacted: _____

[ ] No action necessary; process as is

Project Manager _____ Date 5/27/16

Sample Results Summary

Date: 13-Jul-16

TestAmerica Inc TARL

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

Report No. : 68936 **SDG No:** W07470

Batch	Client Id Work Order	Parameter	Result +- CSU (2 s)	Qual	Units	Tracer Yield	MDL	CRDL	RPD
6148058 SRISO_SEP_PRECIP_GPC									
B350X8									
	M8NAX1AE	STRONTIUM	-6.56E-02 +- 4.5E-01	U	pCi/L	82%	8.28E-01	2.00E+00	
B351K4									
	M8L3P1AC	STRONTIUM	8.56E-01 +- 5.9E-01		pCi/L	79%	8.22E-01	2.00E+00	
B351L3									
	M8L3N1AC	STRONTIUM	1.04E+01 +- 2.6E+00		pCi/L	82%	8.47E-01	2.00E+00	
B351M4									
	M8L3G1AE	STRONTIUM	1.61E-01 +- 4.5E-01	U	pCi/L	83%	7.88E-01	2.00E+00	
B351P8									
	M8L3K1AE	STRONTIUM	3.36E-01 +- 5.9E-01	U	pCi/L	74%	9.90E-01	2.00E+00	
B351P9									
	M8L3J1AE	STRONTIUM	-6.40E-02 +- 4.4E-01	U	pCi/L	84%	8.08E-01	2.00E+00	
B351R8									
	M8L3M1AC	STRONTIUM	5.23E-01 +- 5.5E-01	U	pCi/L	82%	8.65E-01	2.00E+00	
B351R8 DUP									
	M8L3M1AD	STRONTIUM	5.97E-01 +- 6.2E-01	U	pCi/L	77%	9.64E-01	2.00E+00	13.3
B351T8									
	M8L3L1AC	STRONTIUM	5.45E-01 +- 6.0E-01	U	pCi/L	74%	9.41E-01	2.00E+00	
B351Y8									
	M8L3Q1AD	STRONTIUM	3.89E-02 +- 5.0E-01	U	pCi/L	76%	8.94E-01	2.00E+00	
B35223									
	M8NA01AA	STRONTIUM	5.38E+00 +- 1.5E+00		pCi/L	83%	8.75E-01	2.00E+00	
B35FH7									
	M8L3H1AE	STRONTIUM	7.13E-03 +- 4.5E-01	U	pCi/L	83%	8.20E-01	2.00E+00	
6148059 SRISO_SEP_PRECIP_GPC									
B34XX1									
	M8NAV1AJ	STRONTIUM	-6.94E-02 +- 3.9E-01	U	pCi/L	89%	7.20E-01	2.00E+00	
B34XX4									
	M8NAW1AJ	STRONTIUM	4.15E-01 +- 4.5E-01	U	pCi/L	89%	7.05E-01	2.00E+00	
B351N0									
	M8NCA1AD	STRONTIUM	3.93E+00 +- 1.2E+00		pCi/L	86%	7.64E-01	2.00E+00	
B351V3									
	M8NCD1AA	STRONTIUM	1.72E+00 +- 6.8E-01		pCi/L	88%	6.86E-01	2.00E+00	
B35234									
	M8NA21AA	STRONTIUM	-8.44E-02 +- 4.0E-01	U	pCi/L	88%	7.45E-01	2.00E+00	
B35290									
	M8NA91AA	STRONTIUM	-2.87E-01 +- 4.4E-01	U	pCi/L	78%	8.56E-01	2.00E+00	
B35290 DUP									
	M8NA91AE	STRONTIUM	-2.50E-01 +- 3.8E-01	U	pCi/L	83%	7.41E-01	2.00E+00	-13.8

RPD - Relative Percent Difference.

U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

Sample Results Summary

Date: 13-Jul-16

TestAmerica Inc TARL

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

Report No. : 68936 **SDG No:** W07470

Batch	Client Id Work Order	Parameter	Result +- CSU (2 s)	Qual	Units	Tracer Yield	MDL	CRDL	RPD
6148059 SRISO_SEP_PRECIP_GPC									
B35291									
	M8NA81AA	STRONTIUM	-3.77E-01 +- 4.2E-01	U	pCi/L	90%	8.16E-01	2.00E+00	
6148052 PUISO_PLATE_AEA									
B34XX1									
	M8NAV1AG	PU-238	-1.22E-02 +- 9.1E-02	U	pCi/L	82%	2.86E-01	1.00E+00	
		PU239/40	-1.74E-02 +- 8.8E-02	U	pCi/L	82%	2.12E-01	1.00E+00	
B34XX4									
	M8NAW1AG	PU-238	-4.37E-02 +- 8.2E-02	U	pCi/L	88%	2.47E-01	1.00E+00	
		PU239/40	-3.12E-03 +- 7.8E-02	U	pCi/L	88%	1.43E-01	1.00E+00	
B34XX4 DUP									
	M8NAW1AQ	PU-238	5.38E-03 +- 9.3E-02	U	pCi/L	81%	2.65E-01	1.00E+00	-256.2
		PU239/40	4.12E-02 +- 9.0E-02	U	pCi/L	81%	1.65E-01	1.00E+00	232.7
6148047 AMCMISO_EIE_PLT_AEA									
B34XX1									
	M8NAV1AD	AMERICIUM 241	1.18E-01 +- 1.5E-01	U	pCi/L	91%	1.69E-01	1.00E+00	
B34XX1 DUP									
	M8NAV1AM	AMERICIUM 241	3.79E-02 +- 1.0E-01	U	pCi/L	80%	2.19E-01	1.00E+00	102.7
B34XX4									
	M8NAW1AD	AMERICIUM 241	1.60E-02 +- 7.5E-02	U	pCi/L	93%	1.92E-01	1.00E+00	
6148053 UISO_PLATE_AEA									
B34XX1									
	M8NAV1AL	U-234	1.11E-01 +- 2.6E-01	U	pCi/L	102%	4.99E-01	1.00E+00	
		U-235	-7.75E-03 +- 2.6E-01	U	pCi/L	102%	4.45E-01	1.00E+00	
		U-238	-2.33E-02 +- 2.6E-01	U	pCi/L	102%	5.20E-01	1.00E+00	
B34XX4									
	M8NAW1AL	U-234	5.40E-01 +- 6.4E-01	U	pCi/L	72%	6.16E-01	1.00E+00	
		U-235	-1.10E-02 +- 3.7E-01	U	pCi/L	72%	6.43E-01	1.00E+00	
		U-238	3.47E-01 +- 5.2E-01	U	pCi/L	72%	6.87E-01	1.00E+00	
B35290									
	M8NA91AD	U-234	4.11E-01 +- 5.1E-01	U	pCi/L	88%	5.85E-01	1.00E+00	
		U-235	-2.90E-03 +- 2.9E-01	U	pCi/L	88%	4.60E-01	1.00E+00	
		U-238	5.39E-01 +- 5.9E-01	U	pCi/L	88%	6.47E-01	1.00E+00	
B35291									
	M8NA81AD	U-234	4.22E-01 +- 5.3E-01	U	pCi/L	84%	6.47E-01	1.00E+00	
		U-235	1.33E-01 +- 3.0E-01	U	pCi/L	84%	5.86E-01	1.00E+00	
		U-238	2.30E-01 +- 4.3E-01	U	pCi/L	84%	7.60E-01	1.00E+00	
B35291 DUP									
	M8NA81AE	U-234	2.66E-01 +- 4.6E-01	U	pCi/L	81%	7.45E-01	1.00E+00	45.2

TestAmerica Inc

rptTALRchSaSummary2 V5.6 A2002

RPD - Relative Percent Difference.

U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

Sample Results Summary

Date: 14-Jul-16

TestAmerica Inc TARL

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

Report No. : 68936 **SDG No:** W07470

Batch	Client Id Work Order	Parameter	Result +- CSU (2 s)	Qual	Units	Tracer Yield	MDL	CRDL	RPD
6148053 UISO_PLATE_AEA									
B35291 DUP									
	M8NA81AE	U-235	-1.28E-02 +- 3.2E-01	U	pCi/L	81%	5.85E-01	1.00E+00	242.6
		U-238	2.92E-01 +- 4.6E-01	U	pCi/L	81%	6.60E-01	1.00E+00	23.4
6148051 GAMMA_GS									
B34VX0 DUP									
	M8L3E1AL	CO-60	2.67E-01 +- 2.1E+00	U	pCi/L		3.90E+00	2.50E+01	-2742.2
		CS-137	-2.34E-01 +- 1.8E+00	U	pCi/L		3.17E+00	1.50E+01	-145.2
		EU-152	1.77E-01 +- 5.1E+00	U	pCi/L		8.71E+00	5.00E+01	135.5
		EU-154	-1.47E-01 +- 5.6E+00	U	pCi/L		1.02E+01	5.00E+01	219.8
		EU-155	-3.55E+00 +- 4.5E+00	U	pCi/L		7.62E+00	5.00E+01	-67.6
B34XX1									
	M8NAV1AF	CO-60	-1.27E+00 +- 1.8E+00	U	pCi/L		3.08E+00	2.50E+01	
		CS-134	1.82E-01 +- 1.8E+00	U	pCi/L		3.23E+00	8.00E+01	
		CS-137	7.54E-01 +- 1.6E+00	U	pCi/L		2.93E+00	1.50E+01	
		EU-152	-1.69E+00 +- 3.3E+00	U	pCi/L		5.72E+00	5.00E+01	
		EU-154	-7.82E-01 +- 5.3E+00	U	pCi/L		9.37E+00	5.00E+01	
		EU-155	3.79E-01 +- 2.9E+00	U	pCi/L		5.09E+00	5.00E+01	
		K-40	-3.37E+01 +- 3.1E+01	U	pCi/L		5.83E+01		
		SB-125	5.94E-02 +- 3.5E+00	U	pCi/L		6.22E+00	5.00E+01	
B34XX4									
	M8NAW1AF	CO-60	6.53E-01 +- 1.4E+00	U	pCi/L		2.89E+00	2.50E+01	
		CS-134	8.30E-01 +- 1.5E+00	U	pCi/L		2.84E+00	8.00E+01	
		CS-137	2.52E-02 +- 1.2E+00	U	pCi/L		2.26E+00	1.50E+01	
		EU-152	2.21E+00 +- 3.6E+00	U	pCi/L		6.50E+00	5.00E+01	
		EU-154	5.86E-01 +- 4.6E+00	U	pCi/L		8.62E+00	5.00E+01	
		EU-155	2.79E-01 +- 3.0E+00	U	pCi/L		5.20E+00	5.00E+01	
		K-40	2.33E+01 +- 3.4E+01	U	pCi/L		2.72E+01		
		SB-125	4.95E-01 +- 3.1E+00	U	pCi/L		5.58E+00	5.00E+01	
6148054 9310_ALPHABETA_GPC									
B350X8									
	M8NAX1AC	Alpha	2.33E+00 +- 1.4E+00		pCi/L	100%	1.72E+00	3.00E+00	
B351M4									
	M8L3G1AC	Alpha	3.45E-01 +- 9.0E-01	U	pCi/L	100%	1.56E+00	3.00E+00	
B351M4 DUP									
	M8L3G2AG	Alpha	8.53E-01 +- 8.9E-01	U	pCi/L	100%	1.39E+00	3.00E+00	84.7
B351P8									
	M8L3K1AC	Alpha	-2.45E-01 +- 4.4E-01	U	pCi/L	100%	8.49E-01	3.00E+00	
B351P9									

RPD - Relative Percent Difference.

U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

Sample Results Summary

TestAmerica Inc TARL

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

Date: 13-Jul-16

Report No. : 68936

SDG No: W07470

Batch / Client Id / Work Order	Parameter	Result +- CSU (2 s)	Qual	Units	Tracer Yield	MDL	CRDL	RPD
6148054 9310_ALPHABETA_GPC								
B351P9								
M8L3J1AC	Alpha	1.01E+00 +- 1.1E+00	U	pCi/L	100%	1.76E+00	3.00E+00	
B351Y8								
M8L3Q1AA	Alpha	2.30E+00 +- 2.2E+00	U	pCi/L	100%	3.36E+00	3.00E+00	
B35FH7								
M8L3H1AC	Alpha	7.29E-01 +- 9.9E-01	U	pCi/L	100%	1.60E+00	3.00E+00	
6148055 9310_ALPHABETA_GPC								
B350X8								
M8NAX1AD	Beta	3.88E+00 +- 1.5E+00		pCi/L	100%	2.18E+00	4.00E+00	
B35112								
M8N2R1AA	Beta	3.84E+00 +- 1.4E+00		pCi/L	100%	1.94E+00	4.00E+00	
B351M4								
M8L3G1AD	Beta	4.65E+00 +- 1.4E+00		pCi/L	100%	1.82E+00	4.00E+00	
B351N0								
M8NCA1AC	Beta	9.28E+00 +- 1.9E+00		pCi/L	100%	1.81E+00	4.00E+00	
B351P8								
M8L3K1AD	Beta	-2.99E-01 +- 9.3E-01	U	pCi/L	100%	1.62E+00	4.00E+00	
B351P9								
M8L3J1AD	Beta	1.18E+01 +- 2.1E+00		pCi/L	100%	1.68E+00	4.00E+00	
B351Y8								
M8L3Q1AC	Beta	6.45E+00 +- 2.2E+00		pCi/L	100%	2.97E+00	4.00E+00	
B35FH7								
M8L3H1AD	Beta	4.72E+00 +- 1.4E+00		pCi/L	100%	1.80E+00	4.00E+00	
B35FH7 DUP								
M8L3H1AG	Beta	3.76E+00 +- 1.3E+00		pCi/L	100%	1.75E+00	4.00E+00	22.8
6148048 PU241_IE_LSC								
B34XX1								
M8NAV1AA	PU-241	-1.92E+00 +- 2.0E+01	U	pCi/L	82%	1.96E+01	2.50E+01	
B34XX4								
M8NAW1AA	PU-241	-7.51E+00 +- 1.8E+01	U	pCi/L	88%	1.81E+01	2.50E+01	
B34XX4 DUP								
M8NAW1A	PU-241	7.68E+00 +- 2.2E+01	U	pCi/L	81%	2.00E+01	2.50E+01	17095.2
6148049 SE79_SEP_IE_LSC								
B34XX1								
M8NAV1AH	Se-79	-1.86E+00 +- 5.1E+00	U	pCi/L	64%	1.04E+01	5.00E+01	
B34XX1 DUP								
M8NAV1AN	Se-79	1.38E+01 +- 4.3E+00		pCi/L	85%	7.53E+00	5.00E+01	262.3
B34XX4								
M8NAW1AH	Se-79	2.57E+01 +- 4.7E+00		pCi/L	89%	7.07E+00	5.00E+01	

TestAmerica Inc

rptTALRchSaSummary2 V5.6 A2002

RPD - Relative Percent Difference.

U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

Sample Results Summary

Date: 13-Jul-16

TestAmerica Inc TARL

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

Report No. : 68936 **SDG No:** W07470

Batch	Client Id Work Order	Parameter	Result +- CSU (2 s)	Qual	Units	Tracer Yield	MDL	CRDL	RPD
6148049 SE79_SEP_IE_LSC									
6148050 C14_LSC									
B34XX1									
	M8NAV1AE	C-14	-9.62E+00 +- 7.8E+00	U	pCi/L	100%	1.62E+01	5.00E+01	
B34XX4									
	M8NAW1AE	C-14	-4.51E+00 +- 7.9E+00	U	pCi/L	100%	1.62E+01	5.00E+01	
B34XX4 DUP									
	M8NAW1AP	C-14	-1.76E+00 +- 8.0E+00	U	pCi/L	100%	1.59E+01	5.00E+01	-87.6
6148056 906.0_H3_LSC									
B34XX1									
	M8NAV1AC	H-3	1.38E+02 +- 1.4E+02	U	pCi/L	100%	2.92E+02	7.00E+02	
B34XX4									
	M8NAW1AC	H-3	1.28E+02 +- 1.4E+02	U	pCi/L	100%	2.97E+02	7.00E+02	
B350X8									
	M8NAX1AA	H-3	1.57E+03 +- 2.1E+02		pCi/L	100%	2.95E+02	7.00E+02	
B351K4									
	M8L3P1AA	H-3	1.14E+03 +- 1.9E+02		pCi/L	100%	2.93E+02	7.00E+02	
B351L3									
	M8L3N1AA	H-3	9.12E+02 +- 1.8E+02		pCi/L	100%	2.90E+02	7.00E+02	
B351M4									
	M8L3G1AA	H-3	2.72E+02 +- 1.5E+02	U	pCi/L	100%	2.89E+02	7.00E+02	
B351N0									
	M8NCA1AA	H-3	1.15E+02 +- 1.4E+02	U	pCi/L	100%	2.97E+02	7.00E+02	
B351P8									
	M8L3K1AA	H-3	-3.77E+01 +- 1.3E+02	U	pCi/L	100%	2.98E+02	7.00E+02	
B351P9									
	M8L3J1AA	H-3	2.06E+02 +- 1.4E+02	U	pCi/L	100%	2.95E+02	7.00E+02	
B351P9 DUP									
	M8L3J1AG	H-3	1.96E+02 +- 1.4E+02	U	pCi/L	100%	2.92E+02	7.00E+02	5.0
B351R8									
	M8L3M1AA	H-3	1.67E+02 +- 1.4E+02	U	pCi/L	100%	2.90E+02	7.00E+02	
B351T8									
	M8L3L1AA	H-3	-2.97E+01 +- 1.3E+02	U	pCi/L	100%	2.91E+02	7.00E+02	
B35FH7									
	M8L3H1AA	H-3	4.26E+02 +- 1.5E+02		pCi/L	100%	2.91E+02	7.00E+02	
6148057 TC99_ETVDSK_LSC									
B34XX1									
	M8NAV1AK	Tc-99	4.44E+00 +- 4.2E+00	U	pCi/L	100%	9.32E+00	5.00E+01	
B34XX4									
	M8NAW1AK	Tc-99	3.69E+00 +- 4.2E+00	U	pCi/L	100%	9.38E+00	5.00E+01	

RPD - Relative Percent Difference.

U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

Sample Results Summary

Date: 13-Jul-16

TestAmerica Inc TARL

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

Report No. : 68936 **SDG No:** W07470

Batch	Client Id Work Order	Parameter	Result +- CSU (2 s)	Qual	Units	Tracer Yield	MDL	CRDL	RPD
6148057 TC99_ETVDSK_LSC									
B351M4									
	M8L3G1AF	Tc-99	6.12E+00 +- 4.3E+00	U	pCi/L	100%	9.41E+00	5.00E+01	
B351N0									
	M8NCA1AE	Tc-99	4.15E+00 +- 4.3E+00	U	pCi/L	100%	9.42E+00	5.00E+01	
B351P8									
	M8L3K1AF	Tc-99	-2.32E+00 +- 4.0E+00	U	pCi/L	100%	9.37E+00	5.00E+01	
B351P9									
	M8L3J1AF	Tc-99	3.34E+01 +- 5.2E+00		pCi/L	100%	9.32E+00	5.00E+01	
B351T8									
	M8L3L1AD	Tc-99	2.62E+00 +- 4.2E+00	U	pCi/L	100%	9.37E+00	5.00E+01	
B351T8 DUP									
	M8L3L1AE	Tc-99	5.11E+00 +- 4.3E+00	U	pCi/L	100%	9.39E+00	5.00E+01	64.2
B351X2									
	M8NCC1AA	Tc-99	3.89E+00 +- 4.2E+00	U	pCi/L	100%	9.41E+00	5.00E+01	
B35234									
	M8NA21AC	Tc-99	4.45E+00 +- 4.3E+00	U	pCi/L	100%	9.43E+00	5.00E+01	
B35290									
	M8NA91AC	Tc-99	4.11E+00 +- 4.2E+00	U	pCi/L	100%	9.33E+00	5.00E+01	
B35291									
	M8NA81AC	Tc-99	3.40E+00 +- 4.2E+00	U	pCi/L	100%	9.31E+00	5.00E+01	
B35FH7									
	M8L3H1AF	Tc-99	5.97E+00 +- 4.3E+00	U	pCi/L	100%	9.40E+00	5.00E+01	

No. of Results: 116

RPD - Relative Percent Difference.

U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

QC Results Summary

Date: 13-Jul-16

TestAmerica Inc TARL

Ordered by Method, Batch No, QC Type,.

Report No. : 68936 **SDG No.:** W07470

Batch Work Order	Parameter	Result +- CSU (2 s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDL
SRISO_SEP_PRECIP_GPC								
6148058 BLANK QC,								
M8N8J1AA	STRONTIUM	-4.82E-02 +- 5.0E-01	U	pCi/L	76%			9.14E-01
6148058 LCS,								
M8N8J1AC	STRONTIUM	1.41E+01 +- 3.6E+00		pCi/L	63%	103%	0.0	1.12E+00
SRISO_SEP_PRECIP_GPC								
6148059 BLANK QC,								
M8N8K1AA	STRONTIUM	3.45E-01 +- 5.3E-01	U	pCi/L	83%			8.77E-01
6148059 LCS,								
M8N8K1AC	STRONTIUM	1.52E+01 +- 3.7E+00		pCi/L	80%	112%	0.1	8.27E-01
PUISO_PLATE_AEA								
6148052 BLANK QC,								
M8N8A1AA	PU-238	-4.23E-02 +- 3.2E-01	U	pCi/L	25%			9.94E-01
	PU239/40	-2.42E-02 +- 3.0E-01	U	pCi/L	25%			6.16E-01
6148052 LCS,								
M8N8A1AC	PU239/40	5.81E+00 +- 1.3E+00		pCi/L	95%	128%	0.3	1.40E-01
AMCMISO_EIE_PLT_AEA								
6148047 BLANK QC,								
M8N711AA	AMERICIUM 241	-1.32E-02 +- 1.1E-01	U	pCi/L	74%			2.41E-01
6148047 LCS,								
M8N711AC	AMERICIUM 241	2.04E+01 +- 3.8E+00		pCi/L	84%	92%	-0.1	1.80E-01
UISO_PLATE_AEA								
6148053 BLANK QC,								
M8N8D1AA	U-234	-5.60E-03 +- 2.8E-01	U	pCi/L	89%			4.71E-01
	U-235	0.00E+00 +- 2.8E-01	U	pCi/L	89%			4.44E-01
	U-238	-2.80E-03 +- 2.8E-01	U	pCi/L	89%			4.44E-01
6148053 LCS,								
M8N8D1AC	U-234	1.07E+01 +- 3.6E+00		pCi/L	85%	123%	0.2	6.71E-01
	U-238	8.78E+00 +- 3.1E+00		pCi/L	85%	97%	0.0	7.36E-01
GAMMA_GS								
6148051 BLANK QC,								
M8N771AA	CO-60	7.28E-01 +- 1.3E+00	U	pCi/L				2.70E+00
	CS-134	3.40E-01 +- 1.4E+00	U	pCi/L				2.63E+00
	CS-137	2.80E-01 +- 1.4E+00	U	pCi/L				2.51E+00
	EU-152	-1.88E+00 +- 3.3E+00	U	pCi/L				5.47E+00
	EU-154	-1.08E+00 +- 3.7E+00	U	pCi/L				6.73E+00
	EU-155	-4.65E-01 +- 2.9E+00	U	pCi/L				5.01E+00
	K-40	-2.68E+01 +- 2.9E+01	U	pCi/L				5.63E+01
	SB-125	1.57E+00 +- 3.1E+00	U	pCi/L				5.75E+00
6148051 LCS,								
M8N771AC	CO-60	4.30E+01 +- 8.1E+00		pCi/L		115%	0.1	4.11E+00
	CS-137	5.25E+01 +- 9.0E+00		pCi/L		105%	0.1	4.08E+00

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

U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

QC Results Summary

Date: 13-Jul-16

TestAmerica Inc TARL

Ordered by Method, Batch No, QC Type,.

Report No. : 68936 **SDG No.:** W07469

Batch Work Order	Parameter	Result +- CSU (2 s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDL
M8N771AC	EU-152	8.20E+01 +- 1.7E+01		pCi/L		109%	0.1	9.94E+00
9310_ALPHABETA_GPC								
6148054 BLANK QC,								
M8N8E1AA	Alpha	-5.05E-01 +- 5.0E-01	U	pCi/L	100%			9.71E-01
6148054 LCS,								
M8N8E1AC	Alpha	1.93E+01 +- 5.1E+00		pCi/L	100%	84%	-0.2	7.21E-01
9310_ALPHABETA_GPC								
6148055 BLANK QC,								
M8N8F1AA	Beta	9.14E-02 +- 1.0E+00	U	pCi/L	100%			1.73E+00
6148055 LCS,								
M8N8F1AC	Beta	2.26E+01 +- 3.4E+00		pCi/L	100%	109%	0.1	1.58E+00
PU241_IE_LSC								
6148048 BLANK QC,								
M8N721AA	PU-241	1.14E+01 +- 6.9E+01	U	pCi/L	25%			6.41E+01
6148048 LCS,								
M8N721AC	PU-241	1.05E+03 +- 1.7E+02		pCi/L	95%	94%	-0.1	1.68E+01
SE79_SEP_IE_LSC								
6148049 BLANK QC,								
M8N741AA	Se-79	2.08E+00 +- 5.2E+00	U	pCi/L	64%			1.02E+01
C14_LSC								
6148050 MATRIX SPIKE, B34XX4								
M8NAW1AN	C-14	4.87E+02 +- 3.2E+01		pCi/L	100%	101%	0.0	1.63E+01
6148050 BLANK QC,								
M8N751AA	C-14	8.79E-01 +- 8.1E+00	U	pCi/L	100%			1.63E+01
6148050 LCS,								
M8N751AC	C-14	4.75E+02 +- 3.1E+01		pCi/L	100%	98%	0.0	1.64E+01
906.0_H3_LSC								
6148056 MATRIX SPIKE, B351P8								
M8L3K1AG	H-3	1.45E+03 +- 2.3E+02		pCi/L	100%	96%	0.0	3.47E+02
6148056 BLANK QC,								
M8N8G1AA	H-3	3.97E+01 +- 1.4E+02	U	pCi/L	100%			3.04E+02
6148056 LCS,								
M8N8G1AC	H-3	2.81E+03 +- 2.6E+02		pCi/L	100%	103%	0.0	3.05E+02
TC99_ETVDSK_LSC								
6148057 MATRIX SPIKE, B35234								
M8NA21AD	Tc-99	4.80E+02 +- 1.7E+01		pCi/L	100%	89%	-0.1	9.37E+00
6148057 BLANK QC,								
M8N8H1AA	Tc-99	2.35E+00 +- 4.2E+00	U	pCi/L	100%			9.25E+00
6148057 LCS,								
M8N8H1AC	Tc-99	9.34E+01 +- 6.9E+00		pCi/L	100%	91%	-0.1	9.34E+00

No. of Results: 41

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

U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 13-Jul-16

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/11/2016 12:10:00 PM
Lot-Sample No.:	**J6E120405-1**	**Report No. :**	68936	**Received Date:**	5/11/2016 2:20:00 PM
Client Sample ID:	**B351M4**	**COC No. :**	S16-005-249	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148054	9310_ALPHABETA_GPC			**Work Order:**	M8L3G1AC		**Report DB ID:**	9M8L3G10				
Alpha	**3.45E-01**	U	9.0E-01	9.0E-01	1.56E+00	pCi/L	100%	*0.22*	6/15/16 09:32 p		0.1394	GPC24C
						7.04E-01	3.00E+00	*0.76*			L	
Batch: 6148055	9310_ALPHABETA_GPC			**Work Order:**	M8L3G1AD		**Report DB ID:**	9M8L3G10				
Beta	**4.65E+00**		1.3E+00	1.4E+00	1.82E+00	pCi/L	100%	*(2.6)*	6/21/16 10:36 a		0.2004	GPC26B
						8.73E-01	4.00E+00	*(6.7)*			L	
Batch: 6148056	906.0_H3_LSC			**Work Order:**	M8L3G1AA		**Report DB ID:**	9M8L3G10				
H-3	**2.72E+02**	U	1.3E+02	1.5E+02	2.89E+02	pCi/L	100%	*0.94*	6/21/16 05:44 p		0.00502	LSC8
						1.37E+02	7.00E+02	*(3.7)*			L	
Batch: 6148057	TC99_ETVDSK_LSC			**Work Order:**	M8L3G1AF		**Report DB ID:**	9M8L3G10				
Tc-99	**6.12E+00**	U	4.1E+00	4.3E+00	9.41E+00	pCi/L	100%	*0.65*	6/17/16 11:31 p		0.1256	LSC9
						4.51E+00	5.00E+01	*(2.8)*			L	
Batch: 6148058	SRISO_SEP_PRECIP_GPC			**Work Order:**	M8L3G1AE		**Report DB ID:**	9M8L3G10				
STRONTIUM	**1.61E-01**	U	4.5E-01	4.5E-01	7.88E-01	pCi/L	83%	*0.2*	6/13/16 09:32 a		0.5009	GPC31B
						3.55E-01	2.00E+00	*0.71*			L	

No. of Results: 5 **Comments:**

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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, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 13-Jul-16

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/11/2016 11:49:00 AM
Lot-Sample No.:	**J6E120405-2**	**Report No. :**	68936	**Received Date:**	5/11/2016 2:20:00 PM
Client Sample ID:	**B35FH7**	**COC No. :**	S16-005-415	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148054	9310_ALPHABETA_GPC			**Work Order:**	M8L3H1AC		**Report DB ID:**	9M8L3H10				
Alpha	**7.29E-01**	U	9.7E-01	9.9E-01	1.60E+00	pCi/L	100%	*0.46*	6/15/16 09:32 p		0.1255	GPC24D
						7.14E-01	3.00E+00	*(1.5)*			L	
Batch: 6148055	9310_ALPHABETA_GPC			**Work Order:**	M8L3H1AD		**Report DB ID:**	9M8L3H10				
Beta	**4.72E+00**		1.3E+00	1.4E+00	1.80E+00	pCi/L	100%	*(2.6)*	6/21/16 10:36 a		0.2046	GPC26C
						8.65E-01	4.00E+00	*(6.7)*			L	
Batch: 6148056	906.0_H3_LSC			**Work Order:**	M8L3H1AA		**Report DB ID:**	9M8L3H10				
H-3	**4.26E+02**		1.4E+02	1.5E+02	2.91E+02	pCi/L	100%	*(1.5)*	6/21/16 07:06 p		0.00503	LSC8
						1.38E+02	7.00E+02	*(5.5)*			L	
Batch: 6148057	TC99_ETVDSK_LSC			**Work Order:**	M8L3H1AF		**Report DB ID:**	9M8L3H10				
Tc-99	**5.97E+00**	U	4.1E+00	4.3E+00	9.40E+00	pCi/L	100%	*0.64*	6/18/16 12:33 a		0.1254	LSC9
						4.50E+00	5.00E+01	*(2.8)*			L	
Batch: 6148058	SRISO_SEP_PRECIP_GPC			**Work Order:**	M8L3H1AE		**Report DB ID:**	9M8L3H10				
STRONTIUM	**7.13E-03**	U	4.5E-01	4.5E-01	8.20E-01	pCi/L	83%	*0.01*	6/13/16 09:32 a		0.501	GPC31C
						3.72E-01	2.00E+00	*0.03*			L	

No. of Results: 5 **Comments:**

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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, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 13-Jul-16

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/11/2016 10:51:00 AM
Lot-Sample No.:	**J6E120405-3**	**Report No. :**	68936	**Received Date:**	5/11/2016 2:20:00 PM
Client Sample ID:	**B351P9**	**COC No. :**	S16-005-259	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148054	9310_ALPHABETA_GPC			**Work Order:** M8L3J1AC			**Report DB ID:** 9M8L3J10					
Alpha	**1.01E+00**	U	1.1E+00	1.1E+00	1.76E+00	pCi/L	100%	*0.58*	6/15/16 09:32 p		0.1041	GPC24B
						7.89E-01	3.00E+00	*(1.8)*			L	
Batch: 6148055	9310_ALPHABETA_GPC			**Work Order:** M8L3J1AD			**Report DB ID:** 9M8L3J10					
Beta	**1.18E+01**		1.5E+00	2.1E+00	1.68E+00	pCi/L	100%	*(7.)*	6/21/16 10:36 a		0.2062	GPC27A
						8.05E-01	4.00E+00	*(11.3)*			L	
Batch: 6148056	906.0_H3_LSC			**Work Order:** M8L3J1AA			**Report DB ID:** 9M8L3J10					
H-3	**2.06E+02**	U	1.3E+02	1.4E+02	2.95E+02	pCi/L	100%	*0.7*	6/21/16 08:28 p		0.00501	LSC8
						1.40E+02	7.00E+02	*(2.9)*			L	
Batch: 6148057	TC99_ETVDSK_LSC			**Work Order:** M8L3J1AF			**Report DB ID:** 9M8L3J10					
Tc-99	**3.34E+01**		4.9E+00	5.2E+00	9.32E+00	pCi/L	100%	*(3.6)*	6/18/16 01:35 a		0.1258	LSC9
						4.47E+00	5.00E+01	*(12.9)*			L	
Batch: 6148058	SRISO_SEP_PRECIP_GPC			**Work Order:** M8L3J1AE			**Report DB ID:** 9M8L3J10					
STRONTIUM	**-6.40E-02**	U	4.4E-01	4.4E-01	8.08E-01	pCi/L	84%	*-0.08*	6/13/16 09:32 a		0.5017	GPC31D
						3.66E-01	2.00E+00	*-0.29*			L	

No. of Results: 5 **Comments:**

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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, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 13-Jul-16

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/11/2016 7:30:00 AM
Lot-Sample No.:	**J6E120405-4**	**Report No. :**	68936	**Received Date:**	5/11/2016 2:20:00 PM
Client Sample ID:	**B351P8**	**COC No. :**	S16-005-257	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148054	9310_ALPHABETA_GPC			**Work Order:**	M8L3K1AC		**Report DB ID:**	9M8L3K10				
Alpha	**-2.45E-01**	U	4.4E-01	4.4E-01	8.49E-01	pCi/L	100%	*-0.29*	6/15/16 09:31 p		0.2056	GPC21A
						3.86E-01	3.00E+00	*-(1.1)*			L	
Batch: 6148055	9310_ALPHABETA_GPC			**Work Order:**	M8L3K1AD		**Report DB ID:**	9M8L3K10				
Beta	**-2.99E-01**	U	9.3E-01	9.3E-01	1.62E+00	pCi/L	100%	*-0.19*	6/21/16 10:36 a		0.2011	GPC27B
						7.75E-01	4.00E+00	*-0.65*			L	
Batch: 6148056	906.0_H3_LSC			**Work Order:**	M8L3K1AA		**Report DB ID:**	9M8L3K10				
H-3	**-3.77E+01**	U	1.2E+02	1.3E+02	2.98E+02	pCi/L	100%	*-0.13*	6/21/16 11:11 p		0.00502	LSC8
						1.41E+02	7.00E+02	*-0.57*			L	
Batch: 6148057	TC99_ETVDSK_LSC			**Work Order:**	M8L3K1AF		**Report DB ID:**	9M8L3K10				
Tc-99	**-2.32E+00**	U	3.8E+00	4.0E+00	9.37E+00	pCi/L	100%	*-0.25*	6/18/16 02:38 a		0.1261	LSC9
						4.49E+00	5.00E+01	*-(1.2)*			L	
Batch: 6148058	SRISO_SEP_PRECIP_GPC			**Work Order:**	M8L3K1AE		**Report DB ID:**	9M8L3K10				
STRONTIUM	**3.36E-01**	U	5.9E-01	5.9E-01	9.90E-01	pCi/L	74%	*0.34*	6/13/16 09:32 a		0.5013	GPC32A
						4.49E-01	2.00E+00	*(1.1)*			L	

No. of Results: 5 **Comments:**

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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, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 13-Jul-16

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/11/2016 11:30:00 AM
Lot-Sample No.:	**J6E120405-5**	**Report No. :**	68936	**Received Date:**	5/11/2016 2:20:00 PM
Client Sample ID:	**B351T8**	**COC No. :**	S16-005-264	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148056	906.0_H3_LSC			**Work Order:**	M8L3L1AA		**Report DB ID:**	9M8L3L10				
H-3	**-2.97E+01**	U	1.2E+02	1.3E+02	2.91E+02	pCi/L	100%	*-0.1*	6/22/16 01:55 a		0.00502	LSC8
						1.38E+02	7.00E+02	*-0.45*			L	
Batch: 6148057	TC99_ETVDSK_LSC			**Work Order:**	M8L3L1AD		**Report DB ID:**	9M8L3L10				
Tc-99	**2.62E+00**	U	3.9E+00	4.2E+00	9.37E+00	pCi/L	100%	*0.28*	6/18/16 03:40 a		0.1259	LSC9
						4.49E+00	5.00E+01	*(1.3)*			L	
Batch: 6148058	SRISO_SEP_PRECIP_GPC			**Work Order:**	M8L3L1AC		**Report DB ID:**	9M8L3L10				
STRONTIUM	**5.45E-01**	U	5.8E-01	6.0E-01	9.41E-01	pCi/L	74%	*0.58*	6/13/16 09:32 a		0.5016	GPC32B
						4.26E-01	2.00E+00	*(1.8)*			L	

No. of Results: 3 **Comments:**

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FORM I

SAMPLE RESULTS

Date: 13-Jul-16

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/11/2016 11:10:00 AM
Lot-Sample No.:	**J6E120405-6**	**Report No. :**	68936	**Received Date:**	5/11/2016 2:20:00 PM
Client Sample ID:	**B351R8**	**COC No. :**	S16-005-261	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148056	906.0_H3_LSC			**Work Order:**	M8L3M1AA		**Report DB ID:**	9M8L3M10				
H-3	**1.67E+02**	U	1.3E+02	1.4E+02	2.90E+02	pCi/L	100%	*0.58*	6/22/16 03:17 a		0.00501	LSC8
						1.37E+02	7.00E+02	*(2.4)*			L	
Batch: 6148058	SRISO_SEP_PRECIP_GPC			**Work Order:**	M8L3M1AC		**Report DB ID:**	9M8L3M10				
STRONTIUM	**5.23E-01**	U	5.4E-01	5.5E-01	8.65E-01	pCi/L	82%	*0.6*	6/13/16 09:32 a		0.5017	GPC32C
						3.92E-01	2.00E+00	*(1.9)*			L	

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

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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, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 13-Jul-16

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/11/2016 12:09:00 PM
Lot-Sample No.:	**J6E120405-7**	**Report No. :**	68936	**Received Date:**	5/11/2016 2:20:00 PM
Client Sample ID:	**B351L3**	**COC No. :**	S16-005-246	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148056	906.0_H3_LSC			**Work Order:**	M8L3N1AA		**Report DB ID:**	9M8L3N10				
H-3	**9.12E+02**		1.5E+02	1.8E+02	2.90E+02	pCi/L	100%	*(3.1)*	6/22/16 04:39 a		0.00503	LSC8
						1.38E+02	7.00E+02	*(10.3)*			L	
Batch: 6148058	SRISO_SEP_PRECIP_GPC			**Work Order:**	M8L3N1AC		**Report DB ID:**	9M8L3N10				
STRONTIUM	**1.04E+01**		1.2E+00	2.6E+00	8.47E-01	pCi/L	82%	*(12.2)*	6/13/16 12:24 p		0.5006	GPC31A
						3.84E-01	2.00E+00	*(7.9)*			L	

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

July 19, 2016

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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, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 13-Jul-16

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/11/2016 9:44:00 AM
Lot-Sample No.:	**J6E120405-8**	**Report No. :**	68936	**Received Date:**	5/11/2016 2:20:00 PM
Client Sample ID:	**B351K4**	**COC No. :**	S16-005-243	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148056	906.0_H3_LSC			**Work Order:**	M8L3P1AA		**Report DB ID:**	9M8L3P10				
H-3	**1.14E+03**		1.6E+02	1.9E+02	2.93E+02	pCi/L	100%	*(3.9)*	6/22/16 06:01 a		0.00501	LSC8
						1.39E+02	7.00E+02	*(12.1)*			L	
Batch: 6148058	SRISO_SEP_PRECIP_GPC			**Work Order:**	M8L3P1AC		**Report DB ID:**	9M8L3P10				
STRONTIUM	**8.56E-01**		5.5E-01	5.9E-01	8.22E-01	pCi/L	79%	*(1.)*	6/13/16 12:24 p		0.5013	GPC31B
						3.70E-01	2.00E+00	*(2.9)*			L	

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

July 19, 2016

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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, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 13-Jul-16

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/11/2016 9:56:00 AM
Lot-Sample No.:	**J6E120405-9**	**Report No. :**	68936	**Received Date:**	5/11/2016 2:20:00 PM
Client Sample ID:	**B351Y8**	**COC No. :**	S16-005-278	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148054	9310_ALPHABETA_GPC			**Work Order:**	M8L3Q1AA		**Report DB ID:**	9M8L3Q10				
Alpha	**2.30E+00**	U	2.1E+00	2.2E+00	3.36E+00	pCi/L	100%	*0.69*	6/15/16 09:31 p		0.0684	GPC21C
						1.52E+00	3.00E+00	*(2.1)*			L	
Batch: 6148055	9310_ALPHABETA_GPC			**Work Order:**	M8L3Q1AC		**Report DB ID:**	9M8L3Q10				
Beta	**6.45E+00**		2.0E+00	2.2E+00	2.97E+00	pCi/L	100%	*(2.2)*	6/21/16 10:36 a		0.1295	GPC27C
						1.43E+00	4.00E+00	*(5.9)*			L	
Batch: 6148058	SRISO_SEP_PRECIP_GPC			**Work Order:**	M8L3Q1AD		**Report DB ID:**	9M8L3Q10				
STRONTIUM	**3.89E-02**	U	5.0E-01	5.0E-01	8.94E-01	pCi/L	76%	*0.04*	6/13/16 12:24 p		0.5004	GPC31C
						4.05E-01	2.00E+00	*0.16*			L	

No. of Results: 3 **Comments:**

July 19, 2016

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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, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 13-Jul-16

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/22/2016 8:45:00 AM
Lot-Sample No.:	**J6E230411-1**	**Report No. :**	68936	**Received Date:**	5/22/2016 1:25:00 PM
Client Sample ID:	**B34XX1**	**COC No. :**	I16-021-005	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148047	AMCMISO_EIE_PLT_AEA			**Work Order:**	M8NAV1AD		**Report DB ID:**	9M8NAV10				
AMERICIUM 241	**1.18E-01**	U	1.4E-01	1.5E-01	1.69E-01	pCi/L	91%	*0.7*	6/27/16 07:46 p		0.2169	ALP39
						4.62E-02	1.00E+00	*(1.6)*			L	
Batch: 6148048	PU241_IE_LSC			**Work Order:**	M8NAV1AA		**Report DB ID:**	9M8NAV10				
PU-241	**-1.92E+00**	U	7.9E+00	2.0E+01	1.96E+01	pCi/L	82%	*-0.1*	7/6/16 09:31 p		0.2004	LSC10
						9.44E+00	2.50E+01	*-0.19*			L	
Batch: 6148049	SE79_SEP_IE_LSC			**Work Order:**	M8NAV1AH		**Report DB ID:**	9M8NAV10				
Se-79	**-1.86E+00**	U	4.2E+00	5.1E+00	1.04E+01	pCi/L	64%	*-0.18*	7/11/16 01:30 p		0.2035	LSC8
						4.99E+00	5.00E+01	*-0.72*			L	
Batch: 6148050	C14_LSC			**Work Order:**	M8NAV1AE		**Report DB ID:**	9M8NAV10				
C-14	**-9.62E+00**	U	6.5E+00	7.8E+00	1.62E+01	pCi/L	100%	*-0.59*	6/12/16 02:20 a		0.075	LSC8
						7.81E+00	5.00E+01	*-(2.5)*			L	
Batch: 6148051	GAMMA_GS			**Work Order:**	M8NAV1AF		**Report DB ID:**	9M8NAV10				
CO-60	**-1.27E+00**	U	1.8E+00	1.8E+00	3.08E+00	pCi/L		*-0.41*	6/10/16 01:00 p		2.014	GER13$1
						1.55E+00	2.50E+01	*-(1.4)*			L	
CS-134	**1.82E-01**	U	1.8E+00	1.8E+00	3.23E+00	pCi/L		*0.06*	6/10/16 01:00 p		2.014	GER13$1
						1.59E+00	8.00E+01	*0.2*			L	
CS-137	**7.54E-01**	U	1.6E+00	1.6E+00	2.93E+00	pCi/L		*0.26*	6/10/16 01:00 p		2.014	GER13$1
						1.47E+00	1.50E+01	*0.96*			L	
EU-152	**-1.69E+00**	U	3.3E+00	3.3E+00	5.72E+00	pCi/L		*-0.3*	6/10/16 01:00 p		2.014	GER13$1
						2.86E+00	5.00E+01	*-(1.)*			L	

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, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 13-Jul-16

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/22/2016 8:45:00 AM
Lot-Sample No.:	**J6E230411-1**	**Report No. :**	68936	**Received Date:**	5/22/2016 1:25:00 PM
Client Sample ID:	**B34XX1**	**COC No. :**	I16-021-005	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
EU-154	**-7.82E-01**	U	5.3E+00	5.3E+00	9.37E+00	pCi/L		*-0.08*	6/10/16 01:00 p		2.014	GER13$1
						4.70E+00	5.00E+01	*-0.3*			L	
EU-155	**3.79E-01**	U	2.9E+00	2.9E+00	5.09E+00	pCi/L		*0.07*	6/10/16 01:00 p		2.014	GER13$1
						2.53E+00	5.00E+01	*0.26*			L	
K-40	**-3.37E+01**	U	3.1E+01	3.1E+01	5.83E+01	pCi/L		*-0.58*	6/10/16 01:00 p		2.014	GER13$1
						2.93E+01		*-(2.2)*			L	
SB-125	**5.94E-02**	U	3.5E+00	3.5E+00	6.22E+00	pCi/L		*0.01*	6/10/16 01:00 p		2.014	GER13$1
						3.08E+00	5.00E+01	*0.03*			L	
Batch: 6148052	PUISO_PLATE_AEA			**Work Order:**	M8NAV1AG		**Report DB ID:**	9M8NAV10				
PU-238	**-1.22E-02**	U	9.1E-02	9.1E-02	2.86E-01	pCi/L	82%	*-0.04*	6/23/16 05:44 p		0.2004	ALP431
						1.01E-01	1.00E+00	*-0.27*			L	
PU239/40	**-1.74E-02**	U	8.8E-02	8.8E-02	2.12E-01	pCi/L	82%	*-0.08*	6/23/16 05:44 p		0.2004	ALP431
						6.46E-02	1.00E+00	*-0.39*			L	
Batch: 6148053	UISO_PLATE_AEA			**Work Order:**	M8NAV1AL		**Report DB ID:**	9M8NAV10				
U-234	**1.11E-01**	U	2.6E-01	2.6E-01	4.99E-01	pCi/L	102%	*0.22*	6/27/16 03:52 p		0.2011	ALP211
						1.21E-01	1.00E+00	*0.86*			L	
U-235	**-7.75E-03**	U	2.6E-01	2.6E-01	4.45E-01	pCi/L	102%	*-0.02*	6/27/16 03:52 p		0.2011	ALP211
						9.44E-02	1.00E+00	*-0.06*			L	
U-238	**-2.33E-02**	U	2.6E-01	2.6E-01	5.20E-01	pCi/L	102%	*-0.04*	6/27/16 03:52 p		0.2011	ALP211
						1.31E-01	1.00E+00	*-0.18*			L	
								Ratio U-234/238 = -4.8				
Batch: 6148056	906.0_H3_LSC			**Work Order:**	M8NAV1AC		**Report DB ID:**	9M8NAV10				

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, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

July 19, 2016

FORM I

SAMPLE RESULTS

Date: 13-Jul-16

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/22/2016 8:45:00 AM
Lot-Sample No.:	**J6E230411-1**	**Report No. :**	68936	**Received Date:**	5/22/2016 1:25:00 PM
Client Sample ID:	**B34XX1**	**COC No. :**	I16-021-005	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
H-3	**1.38E+02**	U	1.2E+02	1.4E+02	2.92E+02	pCi/L	100%	*0.47*	6/22/16 07:23 a		0.00501	LSC8
						1.38E+02	7.00E+02	*(2.)*			L	
Batch: 6148057	TC99_ETVDSK_LSC			**Work Order:**	M8NAV1AK		**Report DB ID:**	9M8NAV10				
Tc-99	**4.44E+00**	U	4.0E+00	4.2E+00	9.32E+00	pCi/L	100%	*0.48*	6/18/16 05:45 a		0.1255	LSC9
						4.47E+00	5.00E+01	*(2.1)*			L	
Batch: 6148059	SRISO_SEP_PRECIP_GPC			**Work Order:**	M8NAV1AJ		**Report DB ID:**	9M8NAV10				
STRONTIUM	**-6.94E-02**	U	3.9E-01	3.9E-01	7.20E-01	pCi/L	89%	*-0.1*	6/23/16 11:15 a		0.501	GPC32A
						3.26E-01	2.00E+00	*-0.36*			L	

No. of Results: 20 **Comments:**

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FORM I

SAMPLE RESULTS

Date: 13-Jul-16

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/22/2016 8:45:00 AM
Lot-Sample No.:	**J6E230411-2**	**Report No. :**	68936	**Received Date:**	5/22/2016 1:25:00 PM
Client Sample ID:	**B34XX4**	**COC No. :**	I16-021-013	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148047	AMCMISO_EIE_PLT_AEA			**Work Order:**	M8NAW1AD		**Report DB ID:**	9M8NAW10				
AMERICIUM 241	**1.60E-02**	U	7.5E-02	7.5E-02	1.92E-01	pCi/L	93%	*0.08*	6/27/16 07:47 p		0.2063	ALP41
						6.12E-02	1.00E+00	*0.43*			L	
Batch: 6148048	PU241_IE_LSC			**Work Order:**	M8NAW1AA		**Report DB ID:**	9M8NAW10				
PU-241	**-7.51E+00**	U	7.1E+00	1.8E+01	1.81E+01	pCi/L	88%	*-0.41*	7/6/16 11:36 p		0.2001	LSC10
						8.74E+00	2.50E+01	*-0.82*			L	
Batch: 6148049	SE79_SEP_IE_LSC			**Work Order:**	M8NAW1AH		**Report DB ID:**	9M8NAW10				
Se-79	**2.57E+01**		3.7E+00	4.7E+00	7.07E+00	pCi/L	89%	*(3.6)*	7/11/16 03:16 p		0.2128	LSC8
						3.40E+00	5.00E+01	*(11.)*			L	
Batch: 6148050	C14_LSC			**Work Order:**	M8NAW1AE		**Report DB ID:**	9M8NAW10				
C-14	**-4.51E+00**	U	6.7E+00	7.9E+00	1.62E+01	pCi/L	100%	*-0.28*	6/12/16 03:23 a		0.075	LSC8
						7.79E+00	5.00E+01	*-(1.1)*			L	
Batch: 6148051	GAMMA_GS			**Work Order:**	M8NAW1AF		**Report DB ID:**	9M8NAW10				
CO-60	**6.53E-01**	U	1.4E+00	1.4E+00	2.89E+00	pCi/L		*0.23*	6/10/16 01:01 p		2.0128	GER11$1
						1.45E+00	2.50E+01	*0.91*			L	
CS-134	**8.30E-01**	U	1.5E+00	1.5E+00	2.84E+00	pCi/L		*0.29*	6/10/16 01:01 p		2.0128	GER11$1
						1.40E+00	8.00E+01	*(1.1)*			L	
CS-137	**2.52E-02**	U	1.2E+00	1.2E+00	2.26E+00	pCi/L		*0.01*	6/10/16 01:01 p		2.0128	GER11$1
						1.14E+00	1.50E+01	*0.04*			L	
EU-152	**2.21E+00**	U	3.6E+00	3.6E+00	6.50E+00	pCi/L		*0.34*	6/10/16 01:01 p		2.0128	GER11$1
						3.25E+00	5.00E+01	*(1.2)*			L	

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MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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July 19, 2016

FORM I

SAMPLE RESULTS

Date: 13-Jul-16

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/22/2016 8:45:00 AM
Lot-Sample No.:	**J6E230411-2**	**Report No. :**	68936	**Received Date:**	5/22/2016 1:25:00 PM
Client Sample ID:	**B34XX4**	**COC No. :**	I16-021-013	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
EU-154	**5.86E-01**	U	4.6E+00	4.6E+00	8.62E+00	pCi/L		*0.07*	6/10/16 01:01 p		2.0128	GER11$1
						4.33E+00	5.00E+01	*0.26*			L	
EU-155	**2.79E-01**	U	3.0E+00	3.0E+00	5.20E+00	pCi/L		*0.05*	6/10/16 01:01 p		2.0128	GER11$1
						2.59E+00	5.00E+01	*0.19*			L	
K-40	**2.33E+01**	U	3.4E+01	3.4E+01	2.72E+01	pCi/L		*0.86*	6/10/16 01:01 p		2.0128	GER11$1
						1.37E+01		*(1.4)*			L	
SB-125	**4.95E-01**	U	3.1E+00	3.1E+00	5.58E+00	pCi/L		*0.09*	6/10/16 01:01 p		2.0128	GER11$1
						2.76E+00	5.00E+01	*0.32*			L	
Batch: 6148052	PUISO_PLATE_AEA			**Work Order:**	M8NAW1AG		**Report DB ID:**	9M8NAW10				
PU-238	**-4.37E-02**	U	8.1E-02	8.2E-02	2.47E-01	pCi/L	88%	*-0.18*	6/23/16 05:45 p		0.2001	ALP432
						8.57E-02	1.00E+00	*-(1.1)*			L	
PU239/40	**-3.12E-03**	U	7.8E-02	7.8E-02	1.43E-01	pCi/L	88%	*-0.02*	6/23/16 05:45 p		0.2001	ALP432
						3.64E-02	1.00E+00	*-0.08*			L	
Batch: 6148053	UISO_PLATE_AEA			**Work Order:**	M8NAW1AL		**Report DB ID:**	9M8NAW10				
U-234	**5.40E-01**	U	6.3E-01	6.4E-01	6.16E-01	pCi/L	72%	*0.88*	6/27/16 03:54 p		0.2077	ALP225
						1.21E-01	1.00E+00	*(1.7)*			L	
U-235	**-1.10E-02**	U	3.7E-01	3.7E-01	6.43E-01	pCi/L	72%	*-0.02*	6/27/16 03:54 p		0.2077	ALP225
						1.34E-01	1.00E+00	*-0.06*			L	
U-238	**3.47E-01**	U	5.2E-01	5.2E-01	6.87E-01	pCi/L	72%	*0.5*	6/27/16 03:54 p		0.2077	ALP225
						1.54E-01	1.00E+00	*(1.3)*			L	
								Ratio U-234/238 = 1.6				
Batch: 6148056	906.0_H3_LSC			**Work Order:**	M8NAW1AC		**Report DB ID:**	9M8NAW10				

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FORM I

SAMPLE RESULTS

Date: 13-Jul-16

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/22/2016 8:45:00 AM
Lot-Sample No.:	**J6E230411-2**	**Report No. :**	68936	**Received Date:**	5/22/2016 1:25:00 PM
Client Sample ID:	**B34XX4**	**COC No. :**	I16-021-013	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
H-3	**1.28E+02**	U	1.3E+02	1.4E+02	2.97E+02	pCi/L	100%	*0.43*	6/22/16 10:07 a		0.00503	LSC8
						1.41E+02	7.00E+02	*(1.8)*			L	
Batch: 6148057	TC99_ETVDSK_LSC			**Work Order:**	M8NAW1AK		**Report DB ID:**	9M8NAW10				
Tc-99	**3.69E+00**	U	4.0E+00	4.2E+00	9.38E+00	pCi/L	100%	*0.39*	6/18/16 06:47 a		0.1254	LSC9
						4.49E+00	5.00E+01	*(1.7)*			L	
Batch: 6148059	SRISO_SEP_PRECIP_GPC			**Work Order:**	M8NAW1AJ		**Report DB ID:**	9M8NAW10				
STRONTIUM	**4.15E-01**	U	4.4E-01	4.5E-01	7.05E-01	pCi/L	89%	*0.59*	6/23/16 11:15 a		0.5014	GPC32B
						3.19E-01	2.00E+00	*(1.9)*			L	

No. of Results: 20 **Comments:**

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

SAMPLE RESULTS

Date: 13-Jul-16

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/22/2016 8:56:00 AM
Lot-Sample No.:	**J6E230412-1**	**Report No. :**	68936	**Received Date:**	5/22/2016 1:50:00 PM
Client Sample ID:	**B350X8**	**COC No. :**	S16-005-182	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148054	9310_ALPHABETA_GPC			**Work Order:**	M8NAX1AC		**Report DB ID:**	9M8NAX10				
Alpha	**2.33E+00**		1.2E+00	1.4E+00	1.72E+00	pCi/L	100%	*(1.4)*	6/15/16 09:31 p		0.1233	GPC21D
						7.64E-01	3.00E+00	*(3.4)*			L	
Batch: 6148055	9310_ALPHABETA_GPC			**Work Order:**	M8NAX1AD		**Report DB ID:**	9M8NAX10				
Beta	**3.88E+00**		1.4E+00	1.5E+00	2.18E+00	pCi/L	100%	*(1.8)*	6/21/16 10:36 a		0.2004	GPC28A
						1.05E+00	4.00E+00	*(5.1)*			L	
Batch: 6148056	906.0_H3_LSC			**Work Order:**	M8NAX1AA		**Report DB ID:**	9M8NAX10				
H-3	**1.57E+03**		1.8E+02	2.1E+02	2.95E+02	pCi/L	100%	*(5.3)*	6/22/16 11:29 a		0.00503	LSC8
						1.40E+02	7.00E+02	*(15.2)*			L	
Batch: 6148058	SRISO_SEP_PRECIP_GPC			**Work Order:**	M8NAX1AE		**Report DB ID:**	9M8NAX10				
STRONTIUM	**-6.56E-02**	U	4.5E-01	4.5E-01	8.28E-01	pCi/L	82%	*-0.08*	6/13/16 12:24 p		0.5005	GPC31D
						3.74E-01	2.00E+00	*-0.29*			L	

No. of Results: 4 **Comments:**

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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, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 13-Jul-16

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/22/2016 11:25:00 AM
Lot-Sample No.:	**J6E230413-1**	**Report No. :**	68936	**Received Date:**	5/22/2016 2:25:00 PM
Client Sample ID:	**B35223**	**COC No. :**	S16-005-286	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148058	SRISO_SEP_PRECIP_GPC			**Work Order:** M8NA01AA			**Report DB ID:** 9M8NA010					
STRONTIUM	**5.38E+00**		9.4E-01	1.5E+00	8.75E-01	pCi/L	83%	*(6.2)*	6/13/16 12:24 p		0.5008	GPC32A
						3.97E-01	2.00E+00	*(6.9)*			L	

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

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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, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 13-Jul-16

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/22/2016 10:01:00 AM
Lot-Sample No.:	**J6E230413-2**	**Report No. :**	68936	**Received Date:**	5/22/2016 2:25:00 PM
Client Sample ID:	**B35234**	**COC No. :**	S16-005-290	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148057	TC99_ETVDSK_LSC			**Work Order:**	M8NA21AC		**Report DB ID:**	9M8NA210				
Tc-99	**4.45E+00**	U	4.0E+00	4.3E+00	9.43E+00	pCi/L	100%	*0.47*	6/18/16 07:49 a		0.125	LSC9
						4.52E+00	5.00E+01	*(2.1)*			L	
Batch: 6148059	SRISO_SEP_PRECIP_GPC			**Work Order:**	M8NA21AA		**Report DB ID:**	9M8NA210				
STRONTIUM	**-8.44E-02**	U	4.0E-01	4.0E-01	7.45E-01	pCi/L	88%	*-0.11*	6/23/16 11:15 a		0.5018	GPC32C
						3.39E-01	2.00E+00	*-0.42*			L	

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

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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, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 13-Jul-16

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/20/2016 10:40:00 AM
Lot-Sample No.:	**J6E230414-1**	**Report No. :**	68936	**Received Date:**	5/20/2016 2:10:00 PM
Client Sample ID:	**B35291**	**COC No. :**	S16-005-310	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148053	UISO_PLATE_AEA			**Work Order:**	M8NA81AD		**Report DB ID:**	9M8NA810				
U-234	**4.22E-01**	U	5.3E-01	5.3E-01	6.47E-01	pCi/L	84%	*0.65*	6/27/16 03:55 p		0.2025	ALP215
						1.66E-01	1.00E+00	*(1.6)*			L	
U-235	**1.33E-01**	U	3.0E-01	3.0E-01	5.86E-01	pCi/L	84%	*0.23*	6/27/16 03:55 p		0.2025	ALP215
						1.35E-01	1.00E+00	*0.88*			L	
U-238	**2.30E-01**	U	4.3E-01	4.3E-01	7.60E-01	pCi/L	84%	*0.3*	6/27/16 03:55 p		0.2025	ALP215
						2.21E-01	1.00E+00	*(1.1)*			L	
							Ratio U-234/238 = 1.8					
Batch: 6148057	TC99_ETVDSK_LSC			**Work Order:**	M8NA81AC		**Report DB ID:**	9M8NA810				
Tc-99	**3.40E+00**	U	4.0E+00	4.2E+00	9.31E+00	pCi/L	100%	*0.36*	6/18/16 10:55 a		0.1256	LSC9
						4.46E+00	5.00E+01	*(1.6)*			L	
Batch: 6148059	SRISO_SEP_PRECIP_GPC			**Work Order:**	M8NA81AA		**Report DB ID:**	9M8NA810				
STRONTIUM	**-3.77E-01**	U	4.1E-01	4.2E-01	8.16E-01	pCi/L	90%	*-0.46*	6/23/16 11:15 a		0.5005	GPC32D
						3.74E-01	2.00E+00	*-(1.8)*			L	

No. of Results: 5 **Comments:**

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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, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 13-Jul-16

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/20/2016 10:40:00 AM
Lot-Sample No.:	**J6E230414-2**	**Report No. :**	68936	**Received Date:**	5/20/2016 2:10:00 PM
Client Sample ID:	**B35290**	**COC No. :**	S16-005-309	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148053	UISO_PLATE_AEA			**Work Order:**	M8NA91AD		**Report DB ID:**	9M8NA910				
U-234	**4.11E-01**	U	5.0E-01	5.1E-01	5.85E-01	pCi/L	88%	*0.7*	6/27/16 03:57 p		0.208	ALP217
						1.42E-01	1.00E+00	*(1.6)*			L	
U-235	**-2.90E-03**	U	2.9E-01	2.9E-01	4.60E-01	pCi/L	88%	*-0.01*	6/27/16 03:57 p		0.208	ALP217
						8.34E-02	1.00E+00	*-0.02*			L	
U-238	**5.39E-01**	U	5.8E-01	5.9E-01	6.47E-01	pCi/L	88%	*0.83*	6/27/16 03:57 p		0.208	ALP217
						1.72E-01	1.00E+00	*(1.8)*			L	
							Ratio U-234/238 = 0.8					
Batch: 6148057	TC99_ETVDSK_LSC			**Work Order:**	M8NA91AC		**Report DB ID:**	9M8NA910				
Tc-99	**4.11E+00**	U	4.0E+00	4.2E+00	9.33E+00	pCi/L	100%	*0.44*	6/18/16 11:58 a		0.1261	LSC9
						4.47E+00	5.00E+01	*(1.9)*			L	
Batch: 6148059	SRISO_SEP_PRECIP_GPC			**Work Order:**	M8NA91AA		**Report DB ID:**	9M8NA910				
STRONTIUM	**-2.87E-01**	U	4.4E-01	4.4E-01	8.56E-01	pCi/L	78%	*-0.34*	6/23/16 12:11 p		0.5002	GPC31A
						3.91E-01	2.00E+00	*-(1.3)*			L	

No. of Results: 5 **Comments:**

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TestAmerica Inc
rptSTLRchSample
V5.6 A2002

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

FORM I

SAMPLE RESULTS

Date: 13-Jul-16

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/20/2016 8:59:00 AM
Lot-Sample No.:	**J6E230414-3**	**Report No. :**	68936	**Received Date:**	5/20/2016 2:10:00 PM
Client Sample ID:	**B351N0**	**COC No. :**	S16-005-251	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148055	9310_ALPHABETA_GPC			**Work Order:**	M8NCA1AC		**Report DB ID:**	9M8NCA10				
Beta	**9.28E+00**		1.5E+00	1.9E+00	1.81E+00	pCi/L	100%	*(5.1)*	6/21/16 10:36 a		0.2012	GPC28B
						8.67E-01	4.00E+00	*(9.8)*			L	
Batch: 6148056	906.0_H3_LSC			**Work Order:**	M8NCA1AA		**Report DB ID:**	9M8NCA10				
H-3	**1.15E+02**	U	1.3E+02	1.4E+02	2.97E+02	pCi/L	100%	*0.39*	6/22/16 12:51 p		0.00502	LSC8
						1.41E+02	7.00E+02	*(1.7)*			L	
Batch: 6148057	TC99_ETVDSK_LSC			**Work Order:**	M8NCA1AE		**Report DB ID:**	9M8NCA10				
Tc-99	**4.15E+00**	U	4.0E+00	4.3E+00	9.42E+00	pCi/L	100%	*0.44*	6/18/16 01:00 p		0.1252	LSC9
						4.51E+00	5.00E+01	*(1.9)*			L	
Batch: 6148059	SRISO_SEP_PRECIP_GPC			**Work Order:**	M8NCA1AD		**Report DB ID:**	9M8NCA10				
STRONTIUM	**3.93E+00**		7.5E-01	1.2E+00	7.64E-01	pCi/L	86%	*(5.1)*	6/23/16 12:11 p		0.5019	GPC31C
						3.48E-01	2.00E+00	*(6.7)*			L	

No. of Results: 4 **Comments:**

July 19, 2016

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TestAmerica Inc
rptSTLRchSample
V5.6 A2002

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

FORM I

SAMPLE RESULTS

Date: 13-Jul-16

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/20/2016 10:41:00 AM
Lot-Sample No.:	**J6E230414-4**	**Report No. :**	68936	**Received Date:**	5/20/2016 2:10:00 PM
Client Sample ID:	**B351X2**	**COC No. :**	S16-005-273	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148057	TC99_ETVDSK_LSC			**Work Order:** M8NCC1AA			**Report DB ID:** 9M8NCC10					
Tc-99	**3.89E+00**	U	4.0E+00	4.2E+00	9.41E+00	pCi/L	100%	*0.41*	6/18/16 02:02 p		0.1256	LSC9
						4.51E+00	5.00E+01	*(1.8)*			L	

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

July 19, 2016

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TestAmerica Inc
rptSTLRchSample
V5.6 A2002

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

FORM I

SAMPLE RESULTS

Date: 13-Jul-16

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/20/2016 1:31:00 PM
Lot-Sample No.:	**J6E230415-1**	**Report No. :**	68936	**Received Date:**	5/20/2016 2:40:00 PM
Client Sample ID:	**B351V3**	**COC No. :**	S16-005-266	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148059	SRISO_SEP_PRECIP_GPC			**Work Order:** M8NCD1AA			**Report DB ID:** 9M8NCD10					
STRONTIUM	**1.72E+00**		5.6E-01	6.8E-01	6.86E-01	pCi/L	88%	*(2.5)*	6/23/16 12:11 p		0.5004	GPC31D
						3.10E-01	2.00E+00	*(5.1)*			L	

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

July 19, 2016

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TestAmerica Inc
rptSTLRchSample
V5.6 A2002

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

FORM I

SAMPLE RESULTS

Date: 13-Jul-16

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/25/2016 11:53:00 AM
Lot-Sample No.:	**J6E260422-1**	**Report No. :**	68936	**Received Date:**	5/25/2016 2:15:00 PM
Client Sample ID:	**B35112**	**COC No. :**	S16-005-191	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148055	9310_ALPHABETA_GPC			**Work Order:** M8N2R1AA			**Report DB ID:** 9M8N2R10					
Beta	**3.84E+00**		1.3E+00	1.4E+00	1.94E+00	pCi/L	100%	*(2.)*	6/21/16 10:36 a		0.2049	GPC28D
						9.29E-01	4.00E+00	*(5.5)*			L	

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

July 19, 2016

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TestAmerica Inc

rptSTLRchSample
V5.6 A2002

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

FORM II

Date: 13-Jul-16

DUPLICATE RESULTS

Lab Name:	**TestAmerica Inc**	**SDG:**	W07469	**Collection Date:**	5/11/2016 8:42:00 AM
Lot-Sample No.:	**J6E120403-1**	**Report No. :**	68936	**Received Date:**	5/11/2016 2:20:00 PM
Client Sample ID:	**B34VX0 DUP**	**COC No. :**	X16-030-093	**Matrix:**	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148051	GAMMA_GS			**Work Order:**	M8L3E1AL	**Report DB ID:**	M8L3E1LR		**Orig Sa DB ID:** 9M8L3E10			
CO-60	2.67E-01	U	2.1E+00	2.1E+00	3.90E+00	pCi/L		0.07	6/10/16 12:59 p		2.0222	GER12$1
	-3.09E-01	U	**RPD**	**-2742.2**		2.50E+01		0.26			L	
CS-137	-2.34E-01	U	1.8E+00	1.8E+00	3.17E+00	pCi/L		-0.07	6/10/16 12:59 p		2.0222	GER12$1
	-1.48E+00	U	**RPD**	**-145.2**		1.50E+01		-0.26			L	
EU-152	1.77E-01	U	5.1E+00	5.1E+00	8.71E+00	pCi/L		0.02	6/10/16 12:59 p		2.0222	GER12$1
	9.21E-01	U	**RPD**	**135.5**		5.00E+01		0.07			L	
EU-154	-1.47E-01	U	5.6E+00	5.6E+00	1.02E+01	pCi/L		-0.01	6/10/16 12:59 p		2.0222	GER12$1
	3.12E+00	U	**RPD**	**219.8**		5.00E+01		-0.05			L	
EU-155	-3.55E+00	U	4.5E+00	4.5E+00	7.62E+00	pCi/L		-0.47	6/10/16 12:59 p		2.0222	GER12$1
	-1.76E+00	U	**RPD**	**-67.6**		5.00E+01		-(1.6)			L	

No. of Results: 5 **Comments:**

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FORM II

Date: 13-Jul-16

DUPLICATE RESULTS

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/22/2016 8:45:00 AM
Lot-Sample No.:	**J6E230411-1**	**Report No. :**	68936	**Received Date:**	5/22/2016 1:25:00 PM
Client Sample ID:	**B34XX1 DUP**	**COC No. :**	I16-021-005	**Matrix:**	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148047	AMCMISO_EIE_PLT_AEA			**Work Order:**	M8NAV1AM	**Report DB ID:**	M8NAV1MR		**Orig Sa DB ID:** 9M8NAV10			
AMERICIUM 241	3.79E-02	U	1.0E-01	1.0E-01	2.19E-01	pCi/L	80%	0.17	6/27/16 07:47 p		0.2066	ALP40
	1.18E-01	U	**RPD**	**102.7**		1.00E+00		0.75			L	
									Alpha Spec Result Sum = 3.8E-02			
Batch: 6148049	SE79_SEP_IE_LSC			**Work Order:**	M8NAV1AN	**Report DB ID:**	M8NAV1NR		**Orig Sa DB ID:** 9M8NAV10			
Se-79	1.38E+01		3.6E+00	4.3E+00	7.53E+00	pCi/L	85%	(1.8)	7/11/16 02:23 p		0.2095	LSC8
	-1.86E+00	U	**RPD**	**262.3**		5.00E+01		(6.3)			L	
									Alpha Spec Result Sum = 3.8E-02			

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

July 19, 2016

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FORM II

Date: 13-Jul-16

DUPLICATE RESULTS

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/22/2016 8:45:00 AM
Lot-Sample No.:	**J6E230411-2**	**Report No. :**	68936	**Received Date:**	5/22/2016 1:25:00 PM
Client Sample ID:	**B34XX4 DUP**	**COC No. :**	I16-021-013	**Matrix:**	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148048	PU241_IE_LSC			**Work Order:**	M8NAW1AM	**Report DB ID:**	M8NAW1MR		**Orig Sa DB ID:** 9M8NAW10			
PU-241	7.68E+00	U	8.3E+00	2.2E+01	2.00E+01	pCi/L	81%	0.38	7/7/16 01:42 a		0.2005	LSC10
	-7.51E+00	U	**RPD**	**17095.2**		2.50E+01		0.7			L	
Batch: 6148050	C14_LSC			**Work Order:**	M8NAW1AP	**Report DB ID:**	M8NAW1PR		**Orig Sa DB ID:** 9M8NAW10			
C-14	-1.76E+00	U	6.7E+00	8.0E+00	1.59E+01	pCi/L	100%	-0.11	6/12/16 05:28 a		0.075	LSC8
	-4.51E+00	U	**RPD**	**-87.6**		5.00E+01		-0.44			L	
Batch: 6148052	PUISO_PLATE_AEA			**Work Order:**	M8NAW1AQ	**Report DB ID:**	M8NAW1QR		**Orig Sa DB ID:** 9M8NAW10			
PU-238	5.38E-03	U	9.3E-02	9.3E-02	2.65E-01	pCi/L	81%	0.02	6/23/16 05:45 p		0.2005	ALP433
	-4.37E-02	U	**RPD**	**-256.2**		1.00E+00		0.12			L	
PU239/40	4.12E-02	U	9.0E-02	9.0E-02	1.65E-01	pCi/L	81%	0.25	6/23/16 05:45 p		0.2005	ALP433
	-3.12E-03	U	**RPD**	**232.7**		1.00E+00		0.91			L	

Alpha Spec Result Sum = 4.7E-02

No. of Results: 4 **Comments:**

July 19, 2016

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FORM II

Date: 14-Jul-16

DUPLICATE RESULTS

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/11/2016 12:10:00 PM
Lot-Sample No.:	**J6E120405-1**	**Report No. :**	68936	**Received Date:**	5/11/2016 2:20:00 PM
Client Sample ID:	**B351M4 DUP**	**COC No. :**	S16-005-249	**Matrix:**	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148054	9310_ALPHABETA_GPC			**Work Order:** M8L3G2AG		**Report DB ID:** M8L3G2GR			**Orig Sa DB ID:** 9M8L3G10			
Alpha	8.53E-01	U	8.7E-01	8.9E-01	1.39E+00	pCi/L	100%	0.61	6/20/16 08:45 p		0.1404	GPC24B
	3.45E-01	U	**RPD**	**84.7**		3.00E+00		(1.9)			L	

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

July 19, 2016

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TestAmerica Inc

rptSTLRchDupV5.6 A2002

RPD - Relative Percent Difference.

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

U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM II

Date: 13-Jul-16

DUPLICATE RESULTS

Lab Name:	TestAmerica Inc	**SDG:**	W07470	**Collection Date:**	5/11/2016 10:51:00 AM
Lot-Sample No.:	J6E120405-3	**Report No. :**	68936	**Received Date:**	5/11/2016 2:20:00 PM
Client Sample ID:	B351P9 DUP	**COC No. :**	S16-005-259	**Matrix:**	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148056	906.0_H3_LSC			**Work Order:** M8L3J1AG		**Report DB ID:** M8L3J1GR			**Orig Sa DB ID:** 9M8L3J10			
H-3	1.96E+02	U	1.3E+02	1.4E+02	2.92E+02	pCi/L	100%	0.67	6/21/16 09:50 p		0.00502	LSC8
	2.06E+02	U	**RPD**	**5.0**		7.00E+02		(2.7)			L	

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

July 19, 2016

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TestAmerica Inc

rptSTLRchDupV5.6 A2002

RPD - Relative Percent Difference.

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

U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM II

Date: 13-Jul-16

DUPLICATE RESULTS

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/11/2016 11:10:00 AM
Lot-Sample No.:	**J6E120405-6**	**Report No. :**	68936	**Received Date:**	5/11/2016 2:20:00 PM
Client Sample ID:	**B351R8 DUP**	**COC No. :**	S16-005-261	**Matrix:**	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148058	SRISO_SEP_PRECIP_GPC			**Work Order:** M8L3M1AD		**Report DB ID:** M8L3M1DR			**Orig Sa DB ID:** 9M8L3M10			
STRONTIUM	5.97E-01	U	6.0E-01	6.2E-01	9.64E-01	pCi/L	77%	0.62	6/13/16 09:32 a		0.503	GPC32D
	5.23E-01	U	**RPD**	**13.3**		2.00E+00		(1.9)			L	

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

July 19, 2016

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TestAmerica Inc

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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, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM II

Date: 13-Jul-16

DUPLICATE RESULTS

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/11/2016 11:30:00 AM
Lot-Sample No.:	**J6E120405-5**	**Report No. :**	68936	**Received Date:**	5/11/2016 2:20:00 PM
Client Sample ID:	**B351T8 DUP**	**COC No. :**	S16-005-264	**Matrix:**	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148057	TC99_ETVDSK_LSC			**Work Order:**	M8L3L1AE	**Report DB ID:**	M8L3L1ER		**Orig Sa DB ID:**	9M8L3L10		
Tc-99	5.11E+00	U	4.0E+00	4.3E+00	9.39E+00	pCi/L	100%	0.54	6/18/16 04:42 a		0.1257	LSC9
	2.62E+00	U	**RPD**	**64.2**		5.00E+01		(2.4)			L	

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

July 19, 2016

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FORM II

Date: 13-Jul-16

DUPLICATE RESULTS

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/20/2016 10:40:00 AM
Lot-Sample No.:	**J6E230414-2**	**Report No. :**	68936	**Received Date:**	5/20/2016 2:10:00 PM
Client Sample ID:	**B35290 DUP**	**COC No. :**	S16-005-309	**Matrix:**	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148059	SRISO_SEP_PRECIP_GPC			**Work Order:**	M8NA91AE	**Report DB ID:**	M8NA91ER		**Orig Sa DB ID:** 9M8NA910			
STRONTIUM	-2.50E-01	U	3.7E-01	3.8E-01	7.41E-01	pCi/L	83%	-0.34	6/23/16 12:11 p		0.5006	GPC31B
	-2.87E-01	U	**RPD**	**-13.8**		2.00E+00		-(1.3)			L	

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

July 19, 2016

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TestAmerica Inc

rptSTLRchDupV5.6 A2002

RPD - Relative Percent Difference.

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

U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM II

Date: 13-Jul-16

DUPLICATE RESULTS

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/20/2016 10:40:00 AM
Lot-Sample No.:	**J6E230414-1**	**Report No. :**	68936	**Received Date:**	5/20/2016 2:10:00 PM
Client Sample ID:	**B35291 DUP**	**COC No. :**	S16-005-310	**Matrix:**	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148053	UISO_PLATE_AEA			**Work Order:**	M8NA81AE	**Report DB ID:**	M8NA81ER		**Orig Sa DB ID:** 9M8NA810			
U-234	2.66E-01	U	4.5E-01	4.6E-01	7.45E-01	pCi/L	81%	0.36	6/27/16 06:31 p		0.2061	ALP216
	4.22E-01	U	**RPD**	**45.2**		1.00E+00		(1.2)			L	
U-235	-1.28E-02	U	3.2E-01	3.2E-01	5.85E-01	pCi/L	81%	-0.02	6/27/16 06:31 p		0.2061	ALP216
	1.33E-01	U	**RPD**	**242.6**		1.00E+00		-0.08			L	
U-238	2.92E-01	U	4.5E-01	4.6E-01	6.60E-01	pCi/L	81%	0.44	6/27/16 06:31 p		0.2061	ALP216
	2.30E-01	U	**RPD**	**23.4**		1.00E+00		(1.3)			L	

Ratio U-234/238 = 0.9 ***Alpha Spec Result Sum = 5.4E-01***

No. of Results: 3 **Comments:**

July 19, 2016

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TestAmerica Inc

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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, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM II

Date: 13-Jul-16

DUPLICATE RESULTS

Lab Name:	**TestAmerica Inc**	**SDG:**	W07470	**Collection Date:**	5/11/2016 11:49:00 AM
Lot-Sample No.:	**J6E120405-2**	**Report No. :**	68936	**Received Date:**	5/11/2016 2:20:00 PM
Client Sample ID:	**B35FH7 DUP**	**COC No. :**	S16-005-415	**Matrix:**	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148055	9310_ALPHABETA_GPC			**Work Order:** M8L3H1AG		**Report DB ID:** M8L3H1GR			**Orig Sa DB ID:** 9M8L3H10			
Beta	3.76E+00		1.2E+00	1.3E+00	1.75E+00	pCi/L	100%	(2.2)	6/21/16 10:36 a		0.2037	GPC26D
	4.72E+00		**RPD**	**22.8**		4.00E+00		(5.8)			L	

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

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TestAmerica Inc **RPD** - Relative Percent Difference.

rptSTLRchDupV5.6 A2002 **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: 13-Jul-16

Lab Name: TestAmerica Inc **SDG:** W07469

Matrix: WATER **Report No. :** 68936

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Lc	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6148050	C14_LSC			**Work Order:**	M8N751AA		**Report DB ID:**	M8N751AB				
C-14	8.79E-01	U	6.9E+00	8.1E+00	1.63E+01	pCi/L	100%	0.05	6/12/16 06:31 a		0.075	LSC8
					7.85E+00	5.00E+00		0.22			L	
Batch: 6148052	PUISO_PLATE_AEA			**Work Order:**	M8N8A1AA		**Report DB ID:**	M8N8A1AB				
PU-238	-4.23E-02	U	3.2E-01	3.2E-01	9.94E-01	pCi/L	25%	-0.04	6/23/16 05:46 p		0.2	ALP435
					3.51E-01	1.00E+00		-0.27			L	
PU239/40	-2.42E-02	U	3.0E-01	3.0E-01	6.16E-01	pCi/L	25%	-0.04	6/23/16 05:46 p		0.2	ALP435
					1.68E-01	1.00E+00		-0.16			L	
Batch: 6148053	UISO_PLATE_AEA			**Work Order:**	M8N8D1AA		**Report DB ID:**	M8N8D1AB				
U-234	-5.60E-03	U	2.8E-01	2.8E-01	4.71E-01	pCi/L	89%	-0.01	6/27/16 03:59 p		0.2049	ALP218
					9.25E-02	1.00E+00		-0.04			L	
U-235	0.00E+00	U	0.0E+00	2.8E-01	4.44E-01	pCi/L	89%	0.	6/27/16 03:59 p		0.2049	ALP218
					8.05E-02	1.00E+00		0.			L	
U-238	-2.80E-03	U	2.8E-01	2.8E-01	4.44E-01	pCi/L	89%	-0.01	6/27/16 03:59 p		0.2049	ALP218
					8.05E-02	1.00E+00		-0.02			L	
							Ratio U-234/238 = 2.0					
Batch: 6148047	AMCMISO_EIE_PLT_AEA			**Work Order:**	M8N711AA		**Report DB ID:**	M8N711AB				
AMERICIUM 241	-1.32E-02	U	1.1E-01	1.1E-01	2.41E-01	pCi/L	74%	-0.05	6/27/16 07:48 p		0.2024	ALP42
					6.89E-02	1.00E+00		-0.24			L	
Batch: 6148048	PU241_IE_LSC			**Work Order:**	M8N721AA		**Report DB ID:**	M8N721AB				
PU-241	1.14E+01	U	2.6E+01	6.9E+01	6.41E+01	pCi/L	25%	0.18	7/7/16 03:47 a		0.2	LSC10
					3.09E+01	2.50E+01		0.33			L	
Batch: 6148056	906.0_H3_LSC			**Work Order:**	M8N8G1AA		**Report DB ID:**	M8N8G1AB				

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, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

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FORM II

BLANK RESULTS

Date: 13-Jul-16

Lab Name: TestAmerica Inc **SDG:** W07470

Matrix: WATER **Report No. :** 68936

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Lc	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
H-3	3.97E+01	U	1.2E+02	1.4E+02	3.04E+02	pCi/L	100%	0.13	6/22/16 03:35 p		0.00503	LSC8
					1.44E+02	7.00E+02		0.58			L	
Batch: 6148051	GAMMA_GS			**Work Order:**	M8N771AA		**Report DB ID:**	M8N771AB				
CO-60	7.28E-01	U	1.3E+00	1.3E+00	2.70E+00	pCi/L		0.27	6/10/16 10:07 p		2.0208	GER11$1
					1.36E+00	2.50E+01		(1.1)			L	
CS-134	3.40E-01	U	1.4E+00	1.4E+00	2.63E+00	pCi/L		0.13	6/10/16 10:07 p		2.0208	GER11$1
					1.32E+00	8.00E+01		0.49			L	
CS-137	2.80E-01	U	1.4E+00	1.4E+00	2.51E+00	pCi/L		0.11	6/10/16 10:07 p		2.0208	GER11$1
					1.26E+00	1.50E+01		0.41			L	
EU-152	-1.88E+00	U	3.3E+00	3.3E+00	5.47E+00	pCi/L		-0.34	6/10/16 10:07 p		2.0208	GER11$1
					2.74E+00	5.00E+01		-(1.1)			L	
EU-154	-1.08E+00	U	3.7E+00	3.7E+00	6.73E+00	pCi/L		-0.16	6/10/16 10:07 p		2.0208	GER11$1
					3.41E+00	5.00E+01		-0.58			L	
EU-155	-4.65E-01	U	2.9E+00	2.9E+00	5.01E+00	pCi/L		-0.09	6/10/16 10:07 p		2.0208	GER11$1
					2.51E+00	5.00E+01		-0.32			L	
K-40	-2.68E+01	U	2.9E+01	2.9E+01	5.63E+01	pCi/L		-0.48	6/10/16 10:07 p		2.0208	GER11$1
					2.83E+01			-(1.9)			L	
SB-125	1.57E+00	U	3.1E+00	3.1E+00	5.75E+00	pCi/L		0.27	6/10/16 10:07 p		2.0208	GER11$1
					2.88E+00	5.00E+01		(1.)			L	
Batch: 6148054	9310_ALPHABETA_GPC			**Work Order:**	M8N8E1AA		**Report DB ID:**	M8N8E1AB				
Alpha	-5.05E-01	U	4.8E-01	5.0E-01	9.71E-01	pCi/L	100%	-0.52	6/16/16 08:56 p		0.2042	GPC21C
					4.46E-01	3.00E+00		-(2.)			L	
Batch: 6148055	9310_ALPHABETA_GPC			**Work Order:**	M8N8F1AA		**Report DB ID:**	M8N8F1AB				

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, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

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FORM II

BLANK RESULTS

Date: 13-Jul-16

Lab Name: TestAmerica Inc **SDG:** W07469

Matrix: WATER **Report No. :** 68936

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Lc	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Beta	9.14E-02	U	1.0E+00	1.0E+00	1.73E+00	pCi/L	100%	0.05	6/21/16 07:03 p		0.2222	GPC28A
					8.35E-01	4.00E+00		0.18			L	
Batch: 6148058	SRISO_SEP_PRECIP_GPC			**Work Order:**	M8N8J1AA		**Report DB ID:**	M8N8J1AB				
STRONTIUM	-4.82E-02	U	5.0E-01	5.0E-01	9.14E-01	pCi/L	76%	-0.05	6/13/16 12:24 p		0.5009	GPC32B
					4.14E-01	2.00E+00		-0.19			L	
Batch: 6148059	SRISO_SEP_PRECIP_GPC			**Work Order:**	M8N8K1AA		**Report DB ID:**	M8N8K1AB				
STRONTIUM	3.45E-01	U	5.3E-01	5.3E-01	8.77E-01	pCi/L	83%	0.39	6/23/16 12:11 p		0.5017	GPC32D
					4.02E-01	2.00E+00		(1.3)			L	
Batch: 6148049	SE79_SEP_IE_LSC			**Work Order:**	M8N741AA		**Report DB ID:**	M8N741AB				
Se-79	2.08E+00	U	4.3E+00	5.2E+00	1.02E+01	pCi/L	64%	0.2	7/11/16 04:09 p		0.2066	LSC8
					4.89E+00	5.00E+01		0.8			L	
Batch: 6148057	TC99_ETVDSK_LSC			**Work Order:**	M8N8H1AA		**Report DB ID:**	M8N8H1AB				
Tc-99	2.35E+00	U	3.9E+00	4.2E+00	9.25E+00	pCi/L	100%	0.25	6/18/16 03:04 p		0.1257	LSC9
					4.43E+00	1.50E+01		(1.1)			L	

No. of Results: 23 **Comments:**

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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, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM II

LCS RESULTS

Date: 18-Jul-16

Lab Name: TestAmerica Inc

SDG: W07469

Matrix: WATER

Report No. : 68936

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 6148050	C14_LSC			**Work Order:**	M8N751AC		**Report DB ID:**	M8N751CS					
C-14	4.75E+02		1.6E+01	3.1E+01	1.64E+01	pCi/L	100%	4.85E+02	9.7E+00	98%	6/12/16 07:34 a	0.075	LSC8
							Rec Limits:	80	120	0.0		L	
Batch: 6148052	PUISO_PLATE_AEA			**Work Order:**	M8N8A1AC		**Report DB ID:**	M8N8A1CS					
PU239/40	5.81E+00		9.4E-01	1.3E+00	1.40E-01	pCi/L	95%	4.55E+00	4.6E-02	128%	6/23/16 05:47 p	0.2007	ALP436
							Rec Limits:	80	120	0.3		L	
Batch: 6148053	UISO_PLATE_AEA			**Work Order:**	M8N8D1AC		**Report DB ID:**	M8N8D1CS					
U-234	1.07E+01		2.7E+00	3.6E+00	6.71E-01	pCi/L	85%	8.67E+00	4.7E-02	123%	6/27/16 03:59 p	0.2043	ALP222
							Rec Limits:	80	120	0.2		L	
U-238	8.78E+00		2.4E+00	3.1E+00	7.36E-01	pCi/L	85%	9.08E+00	5.0E-02	97%	6/27/16 03:59 p	0.2043	ALP222
							Rec Limits:	80	120	0.0		L	
Batch: 6148047	AMCMISO_EIE_PLT_AEA			**Work Order:**	M8N711AC		**Report DB ID:**	M8N711CS					
AMERICIUM 241	2.04E+01		1.8E+00	3.8E+00	1.80E-01	pCi/L	84%	2.22E+01	2.2E-01	92%	6/27/16 07:48 p	0.2036	ALP43
							Rec Limits:	80	120	-0.1		L	
Batch: 6148048	PU241_IE_LSC			**Work Order:**	M8N721AC		**Report DB ID:**	M8N721CS					
PU-241	1.05E+03		2.3E+01	1.7E+02	1.68E+01	pCi/L	95%	1.12E+03	4.0E+01	94%	7/7/16 05:53 a	0.2007	LSC10
							Rec Limits:	80	120	-0.1		L	
Batch: 6148056	906.0_H3_LSC			**Work Order:**	M8N8G1AC		**Report DB ID:**	M8N8G1CS					
H-3	2.81E+03		2.2E+02	2.6E+02	3.05E+02	pCi/L	100%	2.72E+03	8.2E+01	103%	6/22/16 04:57 p	0.00501	LSC8
							Rec Limits:	80	120	0.0		L	
Batch: 6148051	GAMMA_GS			**Work Order:**	M8N771AC		**Report DB ID:**	M8N771CS					
CO-60	4.30E+01		8.1E+00	8.1E+00	4.11E+00	pCi/L		3.76E+01	3.2E-01	115%	6/10/16 10:08 p	2.0255	GER12$1
							Rec Limits:	80	120	0.1		L	

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

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FORM II

LCS RESULTS

Date: 13-Jul-16

Lab Name: TestAmerica Inc

SDG: W07469

Matrix: WATER

Report No. : 68936

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
CS-137	5.25E+01		9.0E+00	9.0E+00	4.08E+00	pCi/L		4.98E+01	5.1E-01	105%	6/10/16 10:08 p	2.0255	GER12$1
							Rec Limits:	80	120	0.1		L	
EU-152	8.20E+01		1.7E+01	1.7E+01	9.94E+00	pCi/L		7.52E+01	1.1E+00	109%	6/10/16 10:08 p	2.0255	GER12$1
							Rec Limits:	80	120	0.1		L	
Batch: 6148054	9310_ALPHABETA_GPC			**Work Order:**	M8N8E1AC		**Report DB ID:**	M8N8E1CS					
Alpha	1.93E+01		1.6E+00	5.1E+00	7.21E-01	pCi/L	100%	2.31E+01	2.3E-01	84%	6/16/16 08:56 p	0.2006	GPC21D
							Rec Limits:	80	120	-0.2		L	
Batch: 6148055	9310_ALPHABETA_GPC			**Work Order:**	M8N8F1AC		**Report DB ID:**	M8N8F1CS					
Beta	2.26E+01		1.7E+00	3.4E+00	1.58E+00	pCi/L	100%	2.08E+01	1.5E-01	109%	6/21/16 07:03 p	0.2165	GPC28B
							Rec Limits:	80	120	0.1		L	
Batch: 6148058	SRISO_SEP_PRECIP_GPC			**Work Order:**	M8N8J1AC		**Report DB ID:**	M8N8J1CS					
STRONTIUM	1.41E+01		1.6E+00	3.6E+00	1.12E+00	pCi/L	63%	1.36E+01	9.6E-02	103%	6/13/16 12:24 p	0.5001	GPC32C
							Rec Limits:	80	120	0.0		L	
Batch: 6148059	SRISO_SEP_PRECIP_GPC			**Work Order:**	M8N8K1AC		**Report DB ID:**	M8N8K1CS					
STRONTIUM	1.52E+01		1.4E+00	3.7E+00	8.27E-01	pCi/L	80%	1.35E+01	9.6E-02	112%	6/23/16 01:31 p	0.501	GPC31A
							Rec Limits:	80	120	0.1		L	
Batch: 6148057	TC99_ETVDSK_LSC			**Work Order:**	M8N8H1AC		**Report DB ID:**	M8N8H1CS					
Tc-99	9.34E+01		6.5E+00	6.9E+00	9.34E+00	pCi/L	100%	1.03E+02	6.1E-01	91%	6/18/16 04:05 p	0.1253	LSC9
							Rec Limits:	80	120	-0.1		L	

No. of Results: 15 **Comments:**

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

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FORM II

MATRIX SPIKE RESULTS

Date: 13-Jul-16

Lab Name: TestAmerica Inc **SDG:** W07470

Lot-Sample No.: J6E120405-4, B351P8 **Report No. :** 68936 **Matrix:** WATER

Parameter	SpikeResult, Orig Rst	Qual	Count Error (2 s)	CSU (2 s)	MDC|MDA	Rpt Unit	Yield	Rec-overy	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 6148056	**Work Order:** M8L3K1AG			**Report DB ID:** M8L3K1GW			**Orig Sa DB ID:** 9M8L3K10					
H-3	1.45E+03		2.0E+02	2.3E+02	3.47E+02	pCi/L	100%	96.15%	1.51E+03	6/22/16 12:33 a	0.00431	906.0_H3_LSC
	-3.77E+01								4.5E+01		L	LSC8

Number of Results: 1

Comments:

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RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
Bias - (Result/Expected)-1 as defined by ANSI N13.30.

FORM II

MATRIX SPIKE RESULTS

Date: 13-Jul-16

Lab Name: TestAmerica Inc **SDG:** W07470

Lot-Sample No.: J6E230411-2, B34XX4 **Report No. :** 68936 **Matrix:** WATER

Parameter	SpikeResult, Orig Rst	Qual	Count Error (2 s)	CSU (2 s)	MDC|MDA	Rpt Unit	Yield	Rec-overy	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 6148050	**Work Order:** M8NAW1AN			**Report DB ID:** M8NAW1NW			**Orig Sa DB ID:** 9M8NAW10					
C-14	4.87E+02		1.6E+01	3.2E+01	1.63E+01	pCi/L	100%	100.60%	4.85E+02	6/12/16 04:26 a	0.075	C14_LSC
	-4.51E+00								9.7E+00		L	LSC8

Number of Results: 1

Comments:

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RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
Bias - (Result/Expected)-1 as defined by ANSI N13.30.

FORM II

MATRIX SPIKE RESULTS

Date: 13-Jul-16

Lab Name: TestAmerica Inc **SDG:** W07470

Lot-Sample No.: J6E230413-2, B35234 **Report No. :** 68936 **Matrix:** WATER

Parameter	SpikeResult, Orig Rst	Qual	Count Error (2 s)	CSU (2 s)	MDC|MDA	Rpt Unit	Yield	Rec-overy	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 6148057	**Work Order:** M8NA21AD			**Report DB ID:** M8NA21DW			**Orig Sa DB ID:** 9M8NA210					
Tc-99	4.80E+02		1.2E+01	1.7E+01	9.37E+00	pCi/L	100%	89.38%	5.38E+02	6/18/16 08:51 a	0.1258	TC99_ETVDSK_LSC
	4.45E+00								3.2E+00		L	LSC9

Number of Results: 1

Comments:

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TestAmerica Inc **RER** - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

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

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