Analytical Data Package Prepared For

CH2M Hill Plateau Remediation

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Radiochemical Analysis By

TestAmerica TARL

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

Data Package Contains 79 *Pages*

Report Nbr: 42425

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05711	A09-007	B20XH9	J9H180260-1	LJCR11AA	9LJCR110	9245375
		B20XJ2	J9H180260-2	LJCTA1AA	9LJCTA10	9245375
		B20XJ8	J9H180260-3	LJCTE1AA	9LJCTE10	9245375
		B20XK4	J9H180260-4	LJCTH1AA	9LJCTH10	9245375
	W09-008	B219M5	J9H250183-1	LJPPL1AA	9LJPPL10	9245377
		B219M6	J9H250183-2	LJPP81AA	9LJPP810	9245377
	A09-007	B20XK1	J9H250189-1	LJPQ81AA	9LJPQ810	9245375
	W09-007	B210J4	J9H250190-1	LJPRD1AA	9LJPRD10	9245375
	I09-054	B21801	J9H250192-1	LJPRN1AA	9LJPRN10	9245375
	A09-009	B21H98	J9H270171-1	LJV5A1AA	9LJV5A10	9245375
		B21HB0	J9H270171-2	LJV561AA	9LJV5610	9245375
		B21HB1	J9H270171-3	LJV6N1AA	9LJV6N10	9245375
	I09-060	B21JV2	J9H270185-1	LJWAM1AA	9LJWAM10	9245375
		B21JV3	J9H270185-2	LJWCJ1AA	9LJWCJ10	9245375
	W09-009	B21L52	J9H270203-1	LJWED1AA	9LJWED10	9245380

Comments:

Report Nbr: 42425

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05711	I09-059	B21JR3	J9H270205-1	LJWEL1AA	9LJWEL10	9245375
	W09-008	B219J3	J9H270207-1	LJWFE1AA	9LJWFE10	9245377
		B219N6	J9H270207-2	LJWF21AA	9LJWF210	9245377
		B219N7	J9H270207-3	LJWF41AA	9LJWF410	9245377
	S09-006	B20PF3	J9H270243-1	LJWPV1AC	9LJWPV10	9245381
		B20PF4	J9H270243-2	LJWP11AC	9LJWP110	9245381

Comments:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

TestAmerica Laboratories, Inc.

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

September 25, 2009

Attention: Mike Neely

SAF Number	:	A09-007, W09-008, W09-007, I09-054, A09-009, I09-060, W09-009, I09-059, S09-006
Date SDG Closed	:	August 26, 2009
Number of Samples	:	Twenty One (21)
Sample Type	:	Water
SDG Number	:	W05711
Data Deliverable	:	30-Day / Summary

CASE NARRATIVE

I. Introduction

Between August 17, 2009 and August 26, 2009 twenty one water samples were received at TestAmerica (TARL) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the CH2M specific IDs:

CH2M ID#	TARL ID#	DATE OF RECEIPT	MATRIX
B20XH9	LJCR1	08/17/09	WATER
B20XJ2	LJCTA	08/17/09	WATER
B20XJ8	LJCTE	08/17/09	WATER
B20XK4	LJCTH	08/17/09	WATER
B219M5	LJPPL	08/24/09	WATER
B219M6	LJPP8	08/24/09	WATER
B20XK1	LJPQ8	08/24/09	WATER
B210J4	LJPRD	08/24/09	WATER
B21801	LJPRN	08/24/09	WATER
B21H98	LJV5A	08/26/09	WATER
B21HB0	LJV56	08/26/09	WATER
B21HB1	LJV6N	08/26/09	WATER
B21JV3	LJWCJ	08/26/09	WATER

CH2M Hill Plateau Remediation Company
September 25, 2009

B21JV2	LJWAM	08/26/09	WATER
B21L52	LJWED	08/26/09	WATER
B21JR3	LJWEL	08/26/09	WATER
B219J3	LJWFE	08/26/09	WATER
B219N6	LJWF2	08/26/09	WATER
B219N7	LJWF4	08/26/09	WATER
B20PF3	LJWPV	08/26/09	WATER
B20PF4	LJWP1	08/26/09	WATER

II. Sample Receipt

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

III. Analytical Results/Methodology

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

The requested analyses were:

Gamma Spectroscopy
Gamma Spec (LL) by method RL-GAM-001 (RICH-RC-5017)*
Iodine-129 (LL) by method RL-GAM-002 (RICH-RC-5025)*
Liquid Scintillation Counting
Selenium-79 by method RL-LSC-012 (RICH-RC-5043)*
Enriched Tritium by method RL-LSC-007 (RICH-RC-5024)*

*SOP ID's changed effective 7-01-2008. Attached is a cross reference until SOP ID's are changed in all systems.

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.

CH2M Hill Plateau Remediation Company
September 25, 2009

V. Comments

Gamma Spectroscopy

Gamma Spec (LL) by method RL-GAM-001 (RICH-RC-5017):
There was insufficient volume for a duplicate. Sample B219M5 was recounted on a different detector for the duplicate (B219M5 DUP). Except as noted, the LCS, batch blank, samples and sample duplicate (B219M5) results are within contractual requirements.

Iodine-129 (LL) by method RL-GAM-002 (RICH-RC-5025):
The samples and QC were counted using the improved method.

The LCS, batch blank, samples and sample duplicate (B20XH9) results are within contractual requirements.

Liquid Scintillation Counting

Selenium-79 by method RL-LSC-012 (RICH-RC-5043):
There is no LCS for selenium-79. Except as noted, batch blank, sample and sample duplicate (B21L52) results are within contractual requirements.

Enriched Tritium by method RICH-RC-5024
On November 18, 2008 TestAmerica was instructed to analyze all enriched tritium request by the mid-level tritium procedure. These instructions were confirmed by a email from the client on January 23, 2009. Samples B20PF3 and B20PF4 were logged for mid level tritium.

Mid Level Tritium by method RL-LSC-005 (RICH-RC-5007):
The LCS, batch blank, samples and sample duplicate (B20PF3) results are within contractual requirements.

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

Reviewed and approved:

for Sandra Seger
Project Manager

Problem and Discrepancy Report

TARL

SDG W05711

1. **The data package has the following issues:**

a) Sample check in lists, Most of them have a received time that does not agree with the COCs. **(Affected COCs A09-007-2, A09-007-5, A09-007-11, A09-007-14, A09-007-17, I09-054-12, W09-007-116, W09-008-42 and W09-008-43)**

Resolution: Provide correct times.

Lab Response: None provided

CHPRC Response:

A review of the problem and discrepancy issue reported above was conducted on 12/21/2010. It was concluded from the review that the errant sample received times identified on the sample check-in lists were obvious laboratory errors. The sample received time(s) identified on the sample check-in lists should always match the sample received time(s) recorded on the individual COCs. TARL has been instructed on the acceptable use and recording of the date and time stamp. No further corrective action is required at this time.

Please correct the issues and resubmit the hard copy data package.

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.
Total Uncert (#s) *u_c - Combined Uncertainty.*	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, *u_c the combined uncertainty.* The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or TestAmerica "default" nominal detection limit. Often referred to the reporting level (RL)
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. Lc=(1.645 * Sqrt(2*(BkgrndCnt/BkgrndCntMin)/SCntMin)) * (ConvFct/(Eff*Yld*Abn*Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC|MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. MDC = (4.65 * Sqrt((BkgrndCnt/BkgrndCntMin)/SCntMin) + 2.71/SCntMin) * (ConvFct/(Eff * Yld * Abn * Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the **Work Order** Number.
RER	The equation Replicate Error Ratio = (S-D)/[sqrt($TPUs^2 + TPUd^2$)] as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by TestAmerica upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

Isotope	Richland SOP #	Old Richland SOP #	Method Reference	Title
Metals	ARCHIVED	BHI-MT-0001	6010	ICP-AE SPECTROSCOPY, SPECTROMETRIC METHOD FOR TRACE ELEMENT ANALYSIS, METHOD 6010A FOR Bechtel
Asbestos	RL-ASB-001	N/A	NIOSH 7400	Fiber Counting by Phase Contrast Microscopy based on NIOSH 7400
Asbestos	RL-ASB-002	N/A	NIOSH 9002	Sample Prep and Analysis for Asbestos (bulk) by Polarized Light Microsopy based on NIOSH 9002
Metals	RL-MT-001	RICH-MT-0001	6010B	ICP-AES for TRACE ELEMENT ANALYSIS, METHOD 6010B
Metals	RL-MT-002	RICH-MT-0002	SW486 3050B	ACID DIGESTION FOR ICP ANALYSIS
Metals	RL-MT-003	RICH-MT-0003	NIOSH 7300	DIGESTION PREP based on METHOD NIOSH 7300
Prep - Bioassay	ARCHIVED	RICH-RB-0001		PREPARATION FOR RAPID BIOASSAY ANALYSES
Po	RL-ALP-007	RICH-RB-5001	NAS-NS-3037 HASL 300	DETERMINATION OF POLONIUM-210 IN URINE
Prep - Bioassay	RL-PRP-001	RICH-RB-5002	Mod Pu06 / HASL 300	PREPARATION OF URINE AND BLOOD SAMPLES
Prep - Bioassay	ARCHIVED	RICH-RB-5004	ASTM D1429-95	DETERMINATION OF SPECIFIC GRAVITY OF URINE
Th	RL-ALP-008	RICH-RB-5006	Mod Th01 / HASL 300	SEPARATION OF THORIUM FROM URINE AND FECAL SAMPLES
Sr	RL-GPC-005	RICH-RB-5007	Mod Sr02 / HASL 300 Mod 905.0 / EPA 600	DETERMINATION OF TOTAL STRONTIUM IN URINE
C14	RL-LSC-001	RICH-RB-5013	Mod H-02 / EPA 520	TRITIUM, CARBON-14, NICKEL-63 OR PHOSPHORUS-32 ANALYSIS IN URINE
H3	RL-LSC-001	RICH-RB-5013	Mod H-02 / EPA 520	TRITIUM, CARBON-14, NICKEL-63 OR PHOSPHORUS-32 ANALYSIS IN URINE
Ni63	RL-LSC-001	RICH-RB-5013	Mod H-02 / EPA 520	TRITIUM, CARBON-14, NICKEL-63 OR PHOSPHORUS-32 ANALYSIS IN URINE
P32	RL-LSC-001	RICH-RB-5013	Mod H-02 / EPA 520	TRITIUM, CARBON-14, NICKEL-63 OR PHOSPHORUS-32 ANALYSIS IN URINE
Pu	ARCHIVED	RICH-RB-5015	Pu11 / HASL 300	RAPID DETERMINATION OF PLUTONIUM IN FECES
S35	ARCHIVED	RICH-RB-5020	Hillebrand, Lundeell, Bright, Hoffman 1953	DETERMINATION OF SULFUR-35 IN URINE
Sr	RL-GPC-006	RICH-RB-5021	Mod Sr02 / HASL300 Mod 905.0 / EPA 600	DETERMINATION OF STRONTIUM IN FECES
Sr	ARCHIVED	RICH-RB-5022	Mod Sr02 / HASL300 Mod 905.0 / EPA 600	DETERMINATION OF TOTAL STRONTIUM IN URINE FOR RAPID ANALYSIS
Sr	ARCHIVED	RICH-RB-5031	Mod Sr02 / HASL300 Mod 905.0 / EPA 600	RAPID DETERMINATION OF TOTAL STRONTIUM IN FECES
H3	RL-LSC-003	RICH-RB-5034	7500-3 / SM	DETERMINATION OF TRITIUM IN URINE BY DISTILLATION
Alpha - Gross	ARCHIVED	RICH-RB-5035	Liquid Scintillation Anal/ Packard	DETERMINATION OF GROSS ALPHA IN NASAL SMEARS BY LIQUID SCINTILLATION COUNTING
Prep - Bioassay	RL-RPL-002	RICH-RB-5036	Pub 6490,6601 / PNL	PREPARATION OF SYNTHETIC URINE AND FECES USING RECIPES FROM HPS N13.30 PREFORMANCE TESTING
Prep - Bioassay	RL-PRP-002	RICH-RB-5037	LA-10300-M R200 ASTM D3865	PREPARATION OF FECAL SAMPLES USING HYDROFLUORIC ACID DIGESTION
Prep - Count	RL-ALP-016	RICH-RC-5003	G-03 / HASL 300	COPRECIPITATION OF SOME ACTINIDES ON NEODYMIUM FLUORIDE FOR ALPHA-PARTICLE SPECTROMETRY
H3	RL-LSC-004	RICH-RC-5004	H3 / EPA LV539	DETERMINATION OF TRITIUM IN AIR
Ra	RL-RA-001	RICH-RC-5005	903.1 / EPA 600	RADIUM-226 AND RADIUM-228 SEPARATION IN RADIOCHEMICAL MATRICES - ADAPTED FROM EPA 903.1 AND 904.0
Ra	RL-RA-001	RICH-RC-5005	904.0 / EPA 600	RADIUM-226 AND RADIUM-228 SEPARATION IN RADIOCHEMICAL MATRICES - ADAPTED FROM EPA 903.1 AND 904.0
Sr	RL-GPC-003	RICH-RC-5006	Mod Sr02 / HASL300 Mod 905.0 / EPA 600	STRONTIUM SEPARATION IN ENVIROMENTAL MATRICES
H3	RL-LSC-005	RICH-RC-5007	Mod '906.0 / EPA 600	SEPARATION OF TRITIUM IN WATER AND AQUEOUS COMPONENT OF WINE
Np	RL-ALP-013	RICH-RC-5009	NAS-NS-3060	DETERMINATION OF NEPTUNIUM-237 BY LIQUID-LIQUID EXTRACTION IN ALL MATRICES
Pu	RL-ALP-002	RICH-RC-5010	Pu11 / HASL 300	DETERMINATION OF ISOTOPIC PLUTONIUM IN ALL MATRICES

Isotope	Richland SOP #	Old Richland SOP #	Method Reference	Title
Po	RL-ALP-012	RICH-RC-5012	Po-01 / HASL 300 Mod U01 HASL 300	SEPARATION OF ISOTOPIC URANIUM AND POLONIUM-210 IN WATER, SOIL AND FILTERS
U	RL-ALP-012	RICH-RC-5012	Po-01 / HASL 300 Mod U01 / HASL 300	SEPARATION OF ISOTOPIC URANIUM AND POLONIUM-210 IN WATER, SOIL AND FILTERS
Prep - Soil	RL-PRP-003	RICH-RC-5013	Pu02A / HASL 300	PREPARATION OF SOIL SAMPLES
Alpha - Gross	RL-GPC-001	RICH-RC-5014	9310 / EPA SW846 900.0 / EPA 600	DETERMINATION OF GROSS ALPHA AND GROSS BETA IN WATER BY METHOD 9310
Beta - Gross	RL-GPC-001	RICH-RC-5014	9310 / EPA SW846 900.0 / EPA 600	DETERMINATION OF GROSS ALPHA AND GROSS BETA IN WATER BY METHOD 9310
Prep - Env	RL-KPA-001	RICH-RC-5015	ASTM / D5174-97	ENVIRONMENTAL SAMPLE PREPARATION FOR URANIUM BY LASER-INDUCED PHOSPHORESCENCE
Prep - Env	RL-PRP-004	RICH-RC-5016	Sr02 / HASL 300	PREPARATION OF ENVIRONMENTAL MATRICES
Gamma	RL-GAM-001	RICH-RC-5017	901.0 / HASL 300 ASTM D3649	PREPARATION OF ALL MATRICES FOR ANALYSIS BY GAMMA SPECTROSCOPY
Prep - Resin	RL-ALP-017	RICH-RC-5018	Mod Pu11 / Mod 300	ION-EXCHANGE PREPARATION
Prep - Soil	RL-PRP-005	RICH-RC-5019	D5259 / ASTM SW 846/3015/3051/3052	PREPARATION AND DISSOLUTION OF SEDIMENTS AND SOIL BY MICROWAVE BOMB DIGESTION
Alpha - Gross	RL-GPC-007	RICH-RC-5020	SM 7110B EPA 680	DETERMINATION OF GROSS ALPHA AND GROSS BETA IN SOIL, SHORELINE SOIL, FOOD AND VEGETATION
Beta - Gross	RL-GPC-007	RICH-RC-5020	SM 7110B EPA 680	DETERMINATION OF GROSS ALPHA AND GROSS BETA IN SOIL, SHORELINE SOIL, FOOD AND VEGETATION
Alpha - Gross	RL-GPC-002	RICH-RC-5021	00-02 EPA 520	DETERMINATION OF GROSS ALPHA ACTIVITY IN WATER BY COPRECIPITATION
C14	RL-LSC-008	RICH-RC-5022	EPA C-01 / EPA 520	CARBON 14 BY DIGESTION METHOD
Fe55	RL-LSC-016	RICH-RC-5023	R4-73-014 / EPA HASL 300	DETERMINATION OF IRON-55 AND IRON-59 IN WATER
Fe59	RL-LSC-016	RICH-RC-5023	R4-73-014 / EPA HASL 300	DETERMINATION OF IRON-55 AND IRON-59 IN WATER
H3	RL-LSC-007	RICH-RC-5024	H-3 by EE EPA LV539 / HASL 300	DETERMINATION OF LOW LEVEL TRITIUM IN WATER BY ELECTROLYTIC ENRICHMENT
I129	RL-GAM-002	RICH-RC-5025	R4-73-014I/EPA ASTM D2334 (Discontinued)	DETERMINATION OF IODINE-131 AND 129 IN WATER BY SOLVENT EXTRACTION METHOD
I131	RL-GAM-002	RICH-RC-5025	R4-73-014I/EPA ASTM D2334 (Discontinued)	DETERMINATION OF IODINE-131 AND 129 IN WATER BY SOLVENT EXTRACTION METHOD
Ra	RL-RA-002	RICH-RC-5027	Mod D2460/ ASTM 903.0 / EPA 600	DETERMINATION OF TOTAL RADIUM
Prep - Bioassay	RL-RPL-003	RICH-RC-5028	ICRP Publication 23	PREPARATION OF SYNTHETIC URINE AND FECES
U	RL-KPA-002	RICH-RC-5031	Mod U01 / HASL 300	SEPARATION OF TOTAL URANIUM IN WATER AND URINE
Prep - Soil	RL-PRP-006	RICH-RC-5032	Pu02A / HASL 300	COMPLETE DISSOLUTION BY MIXED ACIDS IN A TEFLON BEAKER
Solubility	ARCHIVED	RICH-RC-5035	Kalfward&Thomas PNL3716	DETERMINATION OF SOLUBILITY OF RADIOACTIVE PARTICLE CONSTITUENTS
Alpha - Gross	RL-GPC-008	RICH-RC-5036	ER100 / LANL	PREPARATION OF AIR FILTERS FOR GROSS ALPHA/BETA AND COMPOSITING AIR FILTERS
Beta - Gross	RL-GPC-008	RICH-RC-5036	ER100 / LANL	PREPARATION OF AIR FILTERS FOR GROSS ALPHA/BETA AND COMPOSITING AIR FILTERS
H3	RL-LSC-002	RICH-RC-5037	H-3 in Water/Tissue / LV 539	DETERMINATION OF TRITIUM BY CRYOGENIC DISTILLATION
Prep - Count	RL-ALP-015	RICH-RC-5039	G-03 / HASL 300 Anal Chem 1972	ELECTRODEPOSITION OF ACTINIDES
C14	RL-LSC-009	RICH-RC-5040	Mod C14 / EPA 680	DETERMINATION OF CARBON-14 BY BENZENE SYNTHESIS
Se79	RL-LSC-012	RICH-RC-5043	Selenium / NAS-NS-3030	RADIOCHEMICAL DETERMINATION OF SELENIUM-79
Prep - Env	RL-PRP-007	RICH-RC-5045	Mod Pu02 / HASL 300	PREPARATION OF MIXED BED RESINS AND PRE-FILTERS
C14	RL-LSC-010	RICH-RC-5046	EPA C-01 / EPA 520	DETERMINATION OF CARBON-14 IN GRAPHITE AND SOIL
C14	RL-LSC-011	RICH-RC-5047	Mod H-02 / EPA 520	DETERMINATION OF CARBON-14 IN WATER BY DIRECT COUNTING

Isotope	Richland SOP #	Old Richland SOP #	Method Reference	Title
H3	RL-LSC-006	RICH-RC-5048	H-3 in Water/Tissue / LV 539	TRITIUM PREPARATION IN MILK SAMPLES
I131	ARCHIVED	RICH-RC-5049	HASL 300 (1983)	DETERMINATION OF IODINE-131 IN MILK BY BATCH ION-EXCHANGE
U	RL-KPA-003	RICH-RC-5058	D5174 / ASTM	DETERMINATION OF URANIUM BY PHOSPHORESCENCE ANALYSIS
Np	RL-ALP-006	RICH-RC-5064	EXT Chromatography	SEPARATION OF NEPTUNIUM BY EXTRACTION CHROMATOGRAPHY
Tc	RL-LSC-014	RICH-RC-5065	EXT Chromatography Mod RP550 / DOE0089T	DETERMINATION OF TECHNETIUM-99 BY EXTRACTION CHROMATOGRAPHY
U	RL-ALP-004	RICH-RC-5067	EXT Chromatography Mod RP725 / DOE0089T	SEPARATION OF URANIUM BY EXTRACTION CHROMATOGRAPHY
Prep - Env	RL-PRP-008	RICH-RC-5068	Mod ER100 / LA10300	PREPARATION OF SOIL, VEGETATION AND AIR FILTERS BY MIXED STRONG ACID LEACHING
Ni63	RL-LSC-017	RICH-RC-5069	EXT Chromatography Mod RP300 / DOE0089T	SEPARATION OF Ni-63 BY EXTRACTION CHROMATOGRAPHY
Sr - Yt	RL-GPC-004	RICH-RC-5071	Mod Sr02 / HASL300 Mod 905.0 / EPA 600	YTTRIUM-90 SEPARATION FOR STRONTIUM-90 DETERMINATION IN ALL MATRICES
Am	RL-ALP-003	RICH-RC-5072	Mod RP 725 / DOE0089T EXT Chromatography	SEPARATION OF AMERICIUM, CURIUM, AND URANIUM BY EXTRACTION CHROMATOGRAPHY
Cm	RL-ALP-003	RICH-RC-5072	Mod RP 725 / DOE0089T EXT Chromatography	SEPARATION OF AMERICIUM, CURIUM, AND URANIUM BY EXTRACTION CHROMATOGRAPHY
U	RL-ALP-003	RICH-RC-5072	EXT Chrom Mod RP725 & 800 / DOE0089T	SEPARATION OF AMERICIUM, CURIUM, AND URANIUM BY EXTRACTION CHROMATOGRAPHY
Fe	RL-LSC-015	RICH-RC-5074	EXT Chromatography ModFe55/PNL-ALO-435	SEPARATION OF IRON AND NICKEL BY EXTRACTION CHROMATOGRAPHY
Ni	RL-LSC-015	RICH-RC-5074	EXT Chromatography ModFe55/PNL-ALO-435	SEPARATION OF IRON AND NICKEL BY EXTRACTION CHROMATOGRAPHY
Pb	RL-ALP-011	RICH-RC-5076	EXT Chromatography	DETERMINATION OF LEAD-210 BY EXTRACTION CHROMATOGRAPHY
Prep - Soil	RL-PRP-009	RICH-RC-5077	Mod ER100 / LA10300	PREPARATION OF SMALL SOIL SAMPLES FOR GAMMA SPEC AND/OR RADIOCHEM ANAL BY ACID DIGESTION
Tc	RL-LSC-013	RICH-RC-5078	Tc01 / HASL 300	SEPARATION OF TECHNETIUM-99 IN ALL MATRICES
U	RL-ALP-009	RICH-RC-5079	EXT Chromatography Mod RP725 / DOE0089T	DETERMINATION OF ISOTOPIC URANIUM IN ALL MATRICES
Am	RL-ALP-010	RICH-RC-5080	Am03/Pu11HASL 300 NAS-NS-3006	SEQUENTIAL SEPARATION OF PLUTONIUM AND AMERICIUM
Pu	RL-ALP-010	RICH-RC-5080	Am03 HASL 300 Pu11 / HASL 300	SEQUENTIAL SEPARATION OF PLUTONIUM AND AMERICIUM
Rn	RL-LSC-019	RICH-RC-5082	913.0 / EPA	DETERMINATION OF RADON-222 - ADAPTED FROM METHOD 913.0
Th	RL-ALP-005	RICH-RC-5084	Mod Th01 / HASL 300 Anal Chim Acta 1982	DETERMINATION OF THORIUM ISOTOPIC IN ENVIRONMENTAL MATRICES
Prep - Count	RL-ALP-014	RICH-RC-5085	Morrison & Freiser NAS-NS-3050	ANHYDROUS ETHER EXTRACTION OF URANIUM
Prep - Urine	RL-PRP-010	RICH-RC-5086	AnalyticaChemActa1992 RP800 / DOE00089T	URINE AND WATER SAMPLE PREPARATION BY CALCIUM PHOSPHATE PRECIPITATION
Prep - Water	RL-PRP-010	RICH-RC-5086	AnalyticaChemActa1992 RP800 / DOE00089T	URINE AND WATER SAMPLE PREPARATION BY CALCIUM PHOSPHATE PRECIPITATION
Pu	RL-ALP-001	RICH-RC-5087	AnalyticaChemActa1992 RP800 / DOE00089T	DETERMINATION OF PLUTONIUM BY EXTRACTION CHROMATOGRAPHY
Coliform	RL-WC-001	RICH-WC-5001	9222B	DETERMINATION OF TOTAL COLIFORM: MULTIPLE TUBE FERMENTATION TECHNIQUE
Coliform	RL-WC-002	RICH-WC-5002	9131	TOTAL COLIFORMS BY MEMBRANE FILTRATION
Cr6+	RL-WC-003	RICH-WC-5003	7196A, SW846	DETERMINATION OF HEXAVALENT CHROMIUM [Cr(VI)] IN WATER, SOIL, AND SIMILAR MATRICES
Cr6+	RL-WC-004	RICH-WC-5005	3060 / SW846	DETERMINATION OF HEXAVALENT CHROMIUM (CrVI) IN SOLID MATRICES WITH ALKALINE DIGESTION
Coliform	RL-WC-005	RICH-WC-5007	9223	TOTAL COLIFORM BY THE COLILERT METHOD

9/25/2009 9:58:25 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 42425 File Name: h:\Reportdb\edd\FeadIV\Rad\W05711.Edd, h:\Reportdb\edd\FeadIV\Rad\42425.Edd

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9LJCR110	B20XH9		MW6-SBB-A1	A09-007	W05711					08/16/2009 10:39

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9245375	I-129	15046-84-1	6.69E-02	pCi/L	1.1E-01	1.1E-01	U	1.20E-01	101.9	I129LL_SEP_LEPS	3.9177E+00	L	09/12/2009 11:07	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9LJCTA10	B20XJ2		MW6-SBB-A1	A09-007	W05711					08/16/2009 12:26

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9245375	I-129	15046-84-1	-4.90E-02	pCi/L	8.8E-02	8.8E-02	U	1.50E-01	97.3	I129LL_SEP_LEPS	3.6454E+00	L	09/12/2009 14:32	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9LJCTE10	B20XJ8		MW6-SBB-A1	A09-007	W05711					08/16/2009 13:54

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9245375	I-129	15046-84-1	8.59E-02	pCi/L	1.1E-01	1.1E-01	U	2.05E-01	103.2	I129LL_SEP_LEPS	3.8982E+00	L	09/18/2009 03:30	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9LJCTH10	B20XK4		MW6-SBB-A1	A09-007	W05711					08/16/2009 11:21

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9245375	I-129	15046-84-1	-8.39E-02	pCi/L	9.0E-02	9.0E-02	U	1.47E-01	101.9	I129LL_SEP_LEPS	3.9357E+00	L	09/18/2009 03:30	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9LJPP810	B219M6		MW6-SBB-A1	W09-008	W05711					08/19/2009 10:22

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9245377	BE-7	13966-02-4	1.09E+01	pCi/L	1.5E+01	1.5E+01	U	2.76E+01		GAMMALL_GS	2.00E+00	L	09/09/2009 03:16	I
9245377	CO-60	10198-40-0	4.40E+01	pCi/L	7.6E+00	7.6E+00		2.70E+00		GAMMALL_GS	2.00E+00	L	09/09/2009 03:16	I
9245377	CS-134	13967-70-9	3.28E-01	pCi/L	2.0E+00	2.0E+00	U	3.51E+00		GAMMALL_GS	2.00E+00	L	09/09/2009 03:16	I
9245377	CS-137	10045-97-3	9.65E-01	pCi/L	1.7E+00	1.7E+00	U	3.07E+00		GAMMALL_GS	2.00E+00	L	09/09/2009 03:16	I
9245377	EU-152	14683-23-9	-2.84E-01	pCi/L	4.2E+00	4.2E+00	U	7.13E+00		GAMMALL_GS	2.00E+00	L	09/09/2009 03:16	I
9245377	EU-154	15585-10-1	-9.55E+00	pCi/L	5.2E+00	5.2E+00	U	7.02E+00		GAMMALL_GS	2.00E+00	L	09/09/2009 03:16	I
9245377	EU-155	14391-16-3	3.91E+00	pCi/L	4.5E+00	4.5E+00	U	7.83E+00		GAMMALL_GS	2.00E+00	L	09/09/2009 03:16	I
9245377	K-40	13966-00-2	2.09E+01	pCi/L	5.7E+01	5.7E+01	U	3.08E+01		GAMMALL_GS	2.00E+00	L	09/09/2009 03:16	I
9245377	RU-106	13967-48-1	1.42E+00	pCi/L	1.4E+01	1.4E+01	U	2.46E+01		GAMMALL_GS	2.00E+00	L	09/09/2009 03:16	I
9245377	SB-125	14234-35-6	2.74E+00	pCi/L	3.9E+00	3.9E+00	U	7.02E+00		GAMMALL_GS	2.00E+00	L	09/09/2009 03:16	I

TestAmerica

rptFeadRadSummaryEdd v3.48

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

9/25/2009 9:58:25 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 42425 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05711.Edd, h:\Reportdb\edd\FeadIV\Rad\42425.Edd

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9LJPPL10	B219M5		MW6-SBB-A1	W09-008	W05711					08/19/2009 10:22

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9245377	BE-7	13966-02-4	6.00E+00	pCi/L	1.8E+01	1.8E+01	U	3.16E+01		GAMMALL_GS	2.00E+00	L	09/09/2009 03:15	I
9245377	CO-60	10198-40-0	4.72E+01	pCi/L	1.1E+01	1.1E+01		3.84E+00		GAMMALL_GS	2.00E+00	L	09/09/2009 03:15	I
9245377	CS-134	13967-70-9	-1.55E+00	pCi/L	2.5E+00	2.5E+00	U	4.13E+00		GAMMALL_GS	2.00E+00	L	09/09/2009 03:15	I
9245377	CS-137	10045-97-3	-7.44E-01	pCi/L	1.9E+00	1.9E+00	U	3.30E+00		GAMMALL_GS	2.00E+00	L	09/09/2009 03:15	I
9245377	EU-152	14683-23-9	-4.03E+00	pCi/L	4.4E+00	4.4E+00	U	7.19E+00		GAMMALL_GS	2.00E+00	L	09/09/2009 03:15	I
9245377	EU-154	15585-10-1	1.82E-01	pCi/L	5.4E+00	5.4E+00	U	9.89E+00		GAMMALL_GS	2.00E+00	L	09/09/2009 03:15	I
9245377	EU-155	14391-16-3	1.76E-01	pCi/L	3.0E+00	3.0E+00	U	5.14E+00		GAMMALL_GS	2.00E+00	L	09/09/2009 03:15	I
9245377	K-40	13966-00-2	4.48E+01	pCi/L	3.7E+01	3.7E+01	U	7.49E+01		GAMMALL_GS	2.00E+00	L	09/09/2009 03:15	I
9245377	RU-106	13967-48-1	-5.76E-01	pCi/L	1.8E+01	1.8E+01	U	3.15E+01		GAMMALL_GS	2.00E+00	L	09/09/2009 03:15	I
9245377	SB-125	14234-35-6	9.09E-01	pCi/L	4.2E+00	4.2E+00	U	7.46E+00		GAMMALL_GS	2.00E+00	L	09/09/2009 03:15	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9LJPQ810	B20XK1		MW6-SBB-A1	A09-007	W05711					08/17/2009 09:28

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9245375	I-129	15046-84-1	5.43E-02	pCi/L	9.6E-02	9.6E-02	U	1.79E-01	101.9	I129LL_SEP_LEPS	3.9005E+00	L	09/18/2009 06:52	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9LJPRD10	B210J4		MW6-SBB-A1	W09-007	W05711					08/17/2009 11:36

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9245375	I-129	15046-84-1	3.61E-01	pCi/L	1.7E-01	1.7E-01		1.54E-01	97.3	I129LL_SEP_LEPS	3.9132E+00	L	09/18/2009 06:52	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9LJPRN10	B21801		MW6-SBB-A1	I09-054	W05711					08/17/2009 11:17

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9245375	I-129	15046-84-1	1.01E+00	pCi/L	2.6E-01	2.6E-01		1.85E-01	100.3	I129LL_SEP_LEPS	3.8938E+00	L	09/18/2009 10:14	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9LJV5610	B21HB0		MW6-SBB-A1	A09-009	W05711					08/26/2009 10:53

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9245375	I-129	15046-84-1	7.65E-02	pCi/L	1.0E-01	1.0E-01	U	1.89E-01	99.2	I129LL_SEP_LEPS	3.9209E+00	L	09/18/2009 13:38	I

TestAmerica

rptFeadRadSummaryEdd v3.48

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

9/25/2009 9:58:25 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 42425 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05711.Edd, h:\Reportdb\edd\FeadIV\Rad\42425.Edd

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9LJV5A10	B21H98		MW6-SBB-A1	A09-009	W05711					08/26/2009 10:02

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9245375	I-129	15046-84-1	-2.02E-02	pCi/L	8.1E-02	8.1E-02	U	1.44E-01	100.0	I129LL_SEP_LEPS	3.926E+00	L	09/18/2009 10:15	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9LJV6N10	B21HB1		MW6-SBB-A1	A09-009	W05711					08/26/2009 10:53

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9245375	I-129	15046-84-1	7.80E-02	pCi/L	1.2E-01	1.2E-01	U	1.38E-01	99.5	I129LL_SEP_LEPS	3.918E+00	L	09/18/2009 13:38	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9LJWAM10	B21JV2		MW6-SBB-A1	I09-060	W05711					08/26/2009 12:04

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9245375	I-129	15046-84-1	3.33E+00	pCi/L	4.9E-01	4.9E-01		2.26E-01	100.5	I129LL_SEP_LEPS	3.9095E+00	L	09/18/2009 17:08	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9LJWCJ10	B21JV3		MW6-SBB-A1	I09-060	W05711					08/26/2009 06:35

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9245375	I-129	15046-84-1	1.16E-01	pCi/L	8.8E-02	8.8E-02	U	1.64E-01	100.3	I129LL_SEP_LEPS	3.8479E+00	L	09/18/2009 17:09	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9LJWED10	B21L52		MW6-SBB-A1	W09-009	W05711					08/26/2009 09:20

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9245380	Se-79	15758-45-9	2.86E+00	pCi/L	3.1E+00	4.7E+00	U	7.32E+00	58.5	SE79_SEP_IE_LS	2.00E-01	L	09/09/2009 21:53	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9LJWEL10	B21JR3		MW6-SBB-A1	I09-059	W05711					08/26/2009 08:38

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9245375	I-129	15046-84-1	1.49E-02	pCi/L	9.7E-02	9.7E-02	U	1.76E-01	96.2	I129LL_SEP_LEPS	3.8889E+00	L	09/19/2009 07:26	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9LJWF210	B219N6		MW6-SBB-A1	W09-008	W05711					08/24/2009 12:19

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9245377	BE-7	13966-02-4	2.86E+00	pCi/L	1.2E+01	1.2E+01	U	2.24E+01		GAMMALL_GS	2.00E+00	L	09/09/2009 03:16	I

TestAmerica

rptFeadRadSummaryEdd v3.48

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

9/25/2009 9:58:26 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 42425 File Name: h:\Reportdb\edd\FeadIV\Rad\W05711.Edd, h:\Reportdb\edd\FeadIV\Rad\42425.Edd

9245377	CO-60	10198-40-0	1.50E+01	pCi/L	4.1E+00	4.1E+00		2.44E+00	GAMMALL_GS	2.00E+00	L	09/09/2009	03:16	I
9245377	CS-134	13967-70-9	1.55E+00	pCi/L	1.7E+00	1.7E+00	U	3.37E+00	GAMMALL_GS	2.00E+00	L	09/09/2009	03:16	I
9245377	CS-137	10045-97-3	2.01E+00	pCi/L	1.6E+00	1.6E+00	U	3.26E+00	GAMMALL_GS	2.00E+00	L	09/09/2009	03:16	I
9245377	EU-152	14683-23-9	-4.03E+00	pCi/L	3.6E+00	3.6E+00	U	5.74E+00	GAMMALL_GS	2.00E+00	L	09/09/2009	03:16	I
9245377	EU-154	15585-10-1	3.18E+00	pCi/L	4.5E+00	4.5E+00	U	9.32E+00	GAMMALL_GS	2.00E+00	L	09/09/2009	03:16	I
9245377	EU-155	14391-16-3	3.12E+00	pCi/L	3.2E+00	3.2E+00	U	5.91E+00	GAMMALL_GS	2.00E+00	L	09/09/2009	03:16	I
9245377	K-40	13966-00-2	3.91E+01	pCi/L	3.4E+01	3.4E+01		3.10E+01	GAMMALL_GS	2.00E+00	L	09/09/2009	03:16	I
9245377	RU-106	13967-48-1	-2.48E-01	pCi/L	1.6E+01	1.6E+01	U	2.79E+01	GAMMALL_GS	2.00E+00	L	09/09/2009	03:16	I
9245377	SB-125	14234-35-6	1.74E+00	pCi/L	3.5E+00	3.5E+00	U	6.57E+00	GAMMALL_GS	2.00E+00	L	09/09/2009	03:16	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9LJWF410	B219N7		MW6-SBB-A1	W09-008	W05711					08/24/2009 09:20

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
9245377	BE-7	13966-02-4	-2.93E+00	pCi/L	8.6E+00	8.6E+00	U	1.48E+01		GAMMALL_GS	2.00E+00	L	09/09/2009	03:16	I
9245377	CO-60	10198-40-0	-7.16E-01	pCi/L	9.7E-01	9.7E-01	U	1.60E+00		GAMMALL_GS	2.00E+00	L	09/09/2009	03:16	I
9245377	CS-134	13967-70-9	4.26E-02	pCi/L	1.1E+00	1.1E+00	U	2.06E+00		GAMMALL_GS	2.00E+00	L	09/09/2009	03:16	I
9245377	CS-137	10045-97-3	1.55E+00	pCi/L	1.1E+00	1.1E+00	U	2.19E+00		GAMMALL_GS	2.00E+00	L	09/09/2009	03:16	I
9245377	EU-152	14683-23-9	-4.73E-01	pCi/L	2.4E+00	2.4E+00	U	4.07E+00		GAMMALL_GS	2.00E+00	L	09/09/2009	03:16	I
9245377	EU-154	15585-10-1	-1.40E+00	pCi/L	3.3E+00	3.3E+00	U	5.73E+00		GAMMALL_GS	2.00E+00	L	09/09/2009	03:16	I
9245377	EU-155	14391-16-3	1.95E-01	pCi/L	2.2E+00	2.2E+00	U	3.81E+00		GAMMALL_GS	2.00E+00	L	09/09/2009	03:16	I
9245377	K-40	13966-00-2	1.18E+01	pCi/L	2.4E+01	2.4E+01	U	1.92E+01		GAMMALL_GS	2.00E+00	L	09/09/2009	03:16	I
9245377	RU-106	13967-48-1	5.90E+00	pCi/L	8.9E+00	8.9E+00	U	1.70E+01		GAMMALL_GS	2.00E+00	L	09/09/2009	03:16	I
9245377	SB-125	14234-35-6	8.98E-01	pCi/L	2.4E+00	2.4E+00	U	4.38E+00		GAMMALL_GS	2.00E+00	L	09/09/2009	03:16	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9LJWFE10	B219J3		MW6-SBB-A1	W09-008	W05711					08/24/2009 11:04

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
9245377	BE-7	13966-02-4	5.73E+00	pCi/L	1.4E+01	1.4E+01	U	2.50E+01		GAMMALL_GS	2.00E+00	L	09/09/2009	03:16	I
9245377	CO-60	10198-40-0	6.43E+01	pCi/L	9.5E+00	9.5E+00		2.41E+00		GAMMALL_GS	2.00E+00	L	09/09/2009	03:16	I
9245377	CS-134	13967-70-9	1.34E-02	pCi/L	1.9E+00	1.9E+00	U	3.22E+00		GAMMALL_GS	2.00E+00	L	09/09/2009	03:16	I
9245377	CS-137	10045-97-3	-1.24E+00	pCi/L	1.6E+00	1.6E+00	U	2.62E+00		GAMMALL_GS	2.00E+00	L	09/09/2009	03:16	I
9245377	EU-152	14683-23-9	-1.81E+00	pCi/L	4.0E+00	4.0E+00	U	6.81E+00		GAMMALL_GS	2.00E+00	L	09/09/2009	03:16	I
9245377	EU-154	15585-10-1	2.80E+00	pCi/L	4.0E+00	4.0E+00	U	7.75E+00		GAMMALL_GS	2.00E+00	L	09/09/2009	03:16	I

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

9/25/2009 9:58:26 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 42425 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05711.Edd, h:\Reportdb\edd\FeadIV\Rad\42425.Edd

9245377	EU-155	14391-16-3	-5.60E+00	pCi/L	3.9E+00	3.9E+00	U	6.12E+00	GAMMALL_GS	2.00E+00	L	09/09/2009	03:16	I
9245377	K-40	13966-00-2	-8.92E+00	pCi/L	2.2E+01	2.2E+01	U	4.06E+01	GAMMALL_GS	2.00E+00	L	09/09/2009	03:16	I
9245377	RU-106	13967-48-1	1.41E+01	pCi/L	1.3E+01	1.3E+01	U	2.51E+01	GAMMALL_GS	2.00E+00	L	09/09/2009	03:16	I
9245377	SB-125	14234-35-6	-1.69E+00	pCi/L	3.9E+00	3.9E+00	U	6.48E+00	GAMMALL_GS	2.00E+00	L	09/09/2009	03:16	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9LJWP110	B20PF4		MW6-SBB-A1	S09-006	W05711					08/25/2009 07:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9245381	H-3	10028-17-8	-6.73E+00	pCi/L	1.1E+01	1.8E+01	U	2.28E+01	100.0	906.0ML_H3_LSC	1.00E-02	L	09/03/2009 08:40	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9LJWPV10	B20PF3		MW6-SBB-A1	S09-006	W05711					08/25/2009 10:54

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9245381	H-3	10028-17-8	-2.56E+01	pCi/L	1.1E+01	1.7E+01	U	2.26E+01	100.0	906.0ML_H3_LSC	1.00E-02	L	09/03/2009 08:40	I

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

Friday, September 25, 2009

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05711.Edd, h:\Reportdb\edd\FeadIV\Rad\42425.Edd

Lab Sample Id:	LJ70M1AB	**Sdg/Rept Nbr:**	W05711	42425	**Collection Date:** 08/19/2009 10:22
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 08/24/2009

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
9245377	BE-7	7.44E+00	pCi/L	1.5E+01	U	2.62E+01			GAMMALL_GS	2.00E+00	09/09/2009				D
BLK	13966-02-4			1.5E+01						L	06:38				
9245377	CO-60	-1.25E+00	pCi/L	1.7E+00	U	2.75E+00			GAMMALL_GS	2.00E+00	09/09/2009				D
BLK	10198-40-0			1.7E+00						L	06:38				
9245377	CS-134	7.51E-01	pCi/L	1.7E+00	U	3.09E+00			GAMMALL_GS	2.00E+00	09/09/2009				D
BLK	13967-70-9			1.7E+00						L	06:38				
9245377	CS-137	-9.61E-02	pCi/L	1.6E+00	U	2.71E+00			GAMMALL_GS	2.00E+00	09/09/2009				D
BLK	10045-97-3			1.6E+00						L	06:38				
9245377	EU-152	1.24E+00	pCi/L	3.8E+00	U	6.66E+00			GAMMALL_GS	2.00E+00	09/09/2009				D
BLK	14683-23-9			3.8E+00						L	06:38				
9245377	EU-154	-1.12E+00	pCi/L	4.5E+00	U	7.91E+00			GAMMALL_GS	2.00E+00	09/09/2009				D
BLK	15585-10-1			4.5E+00						L	06:38				
9245377	EU-155	1.43E+00	pCi/L	4.3E+00	U	7.39E+00			GAMMALL_GS	2.00E+00	09/09/2009				D
BLK	14391-16-3			4.3E+00						L	06:38				
9245377	K-40	-2.69E+01	pCi/L	4.7E+01	U	9.58E+01			GAMMALL_GS	2.00E+00	09/09/2009				D
BLK	13966-00-2			4.7E+01						L	06:38				
9245377	RU-106	6.57E+00	pCi/L	1.3E+01	U	2.29E+01			GAMMALL_GS	2.00E+00	09/09/2009				D
BLK	13967-48-1			1.3E+01						L	06:38				
9245377	SB-125	2.82E-01	pCi/L	3.6E+00	U	6.29E+00			GAMMALL_GS	2.00E+00	09/09/2009				D
BLK	14234-35-6			3.6E+00						L	06:38				

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

Friday, September 25, 2009

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05711.Edd, h:\Reportdb\edd\FeadIV\Rad\42425.Edd

Lab Sample Id:	LJ71J1AB	**Sdg/Rept Nbr:**	W05711	42425	**Collection Date:** 08/26/2009 09:20
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 08/26/2009

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
9245380	Se-79	-6.01E+00	pCi/L	4.8E+00	U	7.84E+00	54.5		SE79_SEP_IE	2.00E-01	09/10/2009				D
BLK	15758-45-9			3.2E+00						L	04:40				

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

Friday, September 25, 2009

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05711.Edd, h:\Reportdb\edd\FeadIV\Rad\42425.Edd

Lab Sample Id: LJ71M1AB **Sdg/Rept Nbr:** W05711 42425 **Collection Date:** 08/25/2009 10:54

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 08/26/2009

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
9245381	H-3	-7.37E+00	pCi/L	1.7E+01	U	2.38E+01	100.0		906.0ML_H3_L	1.00E-02	09/03/2009				D
BLK	10028-17-8			1.1E+01						L	08:40				

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

Friday, September 25, 2009

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05711.Edd, h:\Reportdb\edd\FeadIV\Rad\42425.Edd

Lab Sample Id:	LJ7X01AB	**Sdg/Rept Nbr:**	W05711	42425	**Collection Date:** 08/16/2009 10:39
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 08/17/2009

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
9245375	I-129	3.38E-03	pCi/L	8.5E-02	U	1.53E-01	100.3		I129LL_SEP_L	3.9797E+00	09/19/2009				D
BLK	15046-84-1			8.5E-02						L	07:27				

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

Friday, September 25, 2009

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05711.Edd, h:\Reportdb\edd\FeadIV\Rad\42425.Edd

Lab Sample Id: LJ70M1CS **Sdg/Rept Nbr:** W05711 42425 **Collection Date:** 08/19/2009 10:22

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 08/24/2009

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
9245377	CO-60	3.70E+01	pCi/L	8.9E+00		3.47E+00		3.71E+01	GAMMALL_GS	2.00E+00	09/09/2009			70	D
BS	10198-40-0			8.9E+00				99.6		L	06:39			130	
9245377	CS-137	5.09E+01	pCi/L	8.8E+00		3.69E+00		5.05E+01	GAMMALL_GS	2.00E+00	09/09/2009			70	D
BS	10045-97-3			8.8E+00				100.8		L	06:39			130	
9245377	EU-152	8.62E+01	pCi/L	1.5E+01	U	1.82E+01		7.62E+01	GAMMALL_GS	2.00E+00	09/09/2009			70	D
BS	14683-23-9			1.5E+01				113.1		L	06:39			130	

21

20

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

Friday, September 25, 2009

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05711.Edd, h:\Reportdb\edd\FeadIV\Rad\42425.Edd

Lab Sample Id:	LJ71M1CS	**Sdg/Rept Nbr:**	W05711 42425	**Collection Date:**	08/25/2009 10:54
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	08/26/2009

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
9245381	H-3	2.52E+03	pCi/L	2.7E+02		2.42E+01	100.0	2.71E+03	906.0ML_H3_L	1.00E-02	09/03/2009			70	D
BS	10028-17-8			3.6E+01				92.9		L	08:40			130	

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

Friday, September 25, 2009

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05711.Edd, h:\Reportdb\edd\FeadIV\Rad\42425.Edd

Lab Sample Id:	LJ7X01CS	**Sdg/Rept Nbr:**	W05711 42425	**Collection Date:**	08/16/2009 10:39
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	08/17/2009

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
9245375	I-129	9.69E+00	pCi/L	1.2E+00		3.07E-01	90.9	9.60E+00	I129LL_SEP_L	3.9892E+00	09/22/2009			70	D
BS	15046-84-1			1.2E+00				100.9		L	03:15			130	

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

Friday, September 25, 2009

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05711.Edd, h:\Reportdb\edd\FeadIV\Rad\42425.Edd

Lab Sample Id:	LJCR11CR	**Sdg/Rept Nbr:**	W05711	42425	**Collection Date:** 08/16/2009 10:39
Client Id:	B20XH9	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 08/17/2009

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A09-007	MW6-SBB-A19981								BC	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
9245375	I-129	9.73E-02	pCi/L	1.0E-01	U	1.93E-01	105.1		I129LL_SEP_L	3.9183E+00	09/12/2009	37.0	0.4		D
DUP	15046-84-1	6.69E-02		1.0E-01						L	14:31	20.0	3		

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

Friday, September 25, 2009

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05711.Edd, h:\Reportdb\edd\FeadIV\Rad\42425.Edd

Lab Sample Id: LJPPL1CR **Sdg/Rept Nbr:** W05711 42425 **Collection Date:** 08/19/2009 10:22

Client Id: B219M5 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 08/24/2009

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W09-008	MW6-SBB-A19981								BD	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
9245377	BE-7	3.09E+00	pCi/L	1.3E+01	U	2.37E+01			GAMMALL_GS	2.00E+00	09/09/2009	64.0	0.3		D
DUP	13966-02-4	6.00E+00		1.3E+01						L	06:38	20.0	3		
9245377	CO-60	4.51E+01	pCi/L	7.9E+00		3.15E+00			GAMMALL_GS	2.00E+00	09/09/2009	4.5	0.4		D
DUP	10198-40-0	4.72E+01		7.9E+00						L	06:38	20.0	3		
9245377	CS-134	3.92E-01	pCi/L	2.2E+00	U	4.06E+00			GAMMALL_GS	2.00E+00	09/09/2009	0.0	1.2		D
DUP	13967-70-9	-1.55E+00		2.2E+00						L	06:38	20.0	3		
9245377	CS-137	1.44E+00	pCi/L	1.8E+00	U	3.48E+00			GAMMALL_GS	2.00E+00	09/09/2009	626.6	1.7		D
DUP	10045-97-3	-7.44E-01		1.8E+00						L	06:38	20.0	3		
9245377	EU-152	3.09E+00	pCi/L	3.8E+00	U	7.07E+00			GAMMALL_GS	2.00E+00	09/09/2009	0.0	2.7		D
DUP	14683-23-9	-4.03E+00		3.8E+00						L	06:38	20.0	3		
9245377	EU-154	-1.53E+00	pCi/L	4.7E+00	U	8.27E+00			GAMMALL_GS	2.00E+00	09/09/2009	0.0	0.5		D
DUP	15585-10-1	1.82E-01		4.7E+00						L	06:38	20.0	3		
9245377	EU-155	-1.69E+00	pCi/L	3.4E+00	U	5.63E+00			GAMMALL_GS	2.00E+00	09/09/2009	0.0	0.8		D
DUP	14391-16-3	1.76E-01		3.4E+00						L	06:38	20.0	3		
9245377	K-40	2.48E+01	pCi/L	3.0E+01	U	6.21E+01			GAMMALL_GS	2.00E+00	09/09/2009	57.4	1.		D
DUP	13966-00-2	4.48E+01		3.0E+01						L	06:38	20.0	3		
9245377	RU-106	4.91E+00	pCi/L	1.6E+01	U	2.83E+01			GAMMALL_GS	2.00E+00	09/09/2009	253.1	0.5		D
DUP	13967-48-1	-5.76E-01		1.6E+01						L	06:38	20.0	3		
9245377	SB-125	-1.04E+00	pCi/L	3.9E+00	U	6.75E+00			GAMMALL_GS	2.00E+00	09/09/2009	0.0	0.7		D
DUP	14234-35-6	9.09E-01		3.9E+00						L	06:38	20.0	3		

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

Friday, September 25, 2009

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05711.Edd, h:\Reportdb\edd\FeadIV\Rad\42425.Edd

Lab Sample Id:	LJWED1CR	**Sdg/Rept Nbr:**	W05711	42425	**Collection Date:** 08/26/2009 09:20
Client Id:	B21L52	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 08/26/2009

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W09-009	MW6-SBB-A19981								BE	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
9245380	Se-79	-3.56E-01	pCi/L	4.5E+00	U	7.15E+00	59.8		SE79_SEP_IE	2.00E-01	09/10/2009	256.9	1.		D
DUP	15758-45-9	2.86E+00		3.0E+00						L	01:16	20.0	3		

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

Friday, September 25, 2009

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05711.Edd, h:\Reportdb\edd\FeadIV\Rad\42425.Edd

Lab Sample Id:	LJWPV1DR	**Sdg/Rept Nbr:**	W05711	42425	**Collection Date:** 08/25/2009 10:54
Client Id:	B20PF3	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 08/26/2009

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S09-006	MW6-SBB-A19981								BF	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
9245381	H-3	-3.04E+01	pCi/L	1.7E+01	U	2.21E+01	100.0		906.0ML_H3_L	1.00E-02	09/03/2009	0.0	0.4		D
DUP	10028-17-8	-2.56E+01		1.0E+01						L	08:40	20.0	3		

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

TestAmerica THE LEADER IN ENVIRONMENTAL TESTING

SUBMITTAL Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

REVISION 1

DECEMBER 21, 2010

9/29/2009 12:42:21 PM

Lot No., Due Date: J9H250183,J9H270207; 09/25/2009

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 9245377; RGAMMA Gamma by GER

SDG, Matrix: W05711; WATER

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

6.0 Comments on any No response:

First Level Review John Norton **Date** 9-9-9

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 9245377

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

Comments on any "No" response: _____

Second Level Review: Jodie C Date: 9/23/09

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

TestAmerica THE LEADER IN ENVIRONMENTAL TESTING

SUBMITTAL DECEMBER 21, 2010 REVISION 1

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

9/22/2009 1:59:53 PM

Lot No., Due Date: J9H180260,J9H250189,J9H250190,J9H250192,J9H270171,J9H270185,J9H270205; 09/25/2009

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 9245375; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05711; WATER

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

6.0 Comments on any No response:

First Level Review John Norton **Date** 9-22-9

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 9245375

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

Comments on any "No" response: _____

Second Level Review: [signature] Date: 9/23/09

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

TestAmerica THE LEADER IN ENVIRONMENTAL TESTING

SUBMITTAL

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

DECEMBER 21, 2010

REVISION 1

9/11/2009 12:56:35 PM

Lot No., Due Date: J9H270203; 09/25/2009

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 9245380; RSE79 Se-79 by LSC

SDG, Matrix: W05711; WATER

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

6.0 Comments on any No response:

First Level Review _____ **Date** 9-11-9

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 9245380

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

Comments on any "No" response: _____

Second Level Review: [signature] Date: 9/23/09

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

REVISION 1

DECEMBER 21, 2010

9/17/2009 10:48:00 AM

Lot No., Due Date: J9H270243; 09/25/2009

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 9245381; RTRITIUM Midlevel Tritium

SDG, Matrix: W05711; WATER

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

6.0 Comments on any No response:

First Level Review John Horton **Date** 9-11-9

TestAmerica Richland
QAS_RADCALCv4.8.36

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 9245381

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

Comments on any "No" response: _____

Second Level Review: Jodie G Date: 9/23/09

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

CHPRC WD5711 J9H180260

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # A09-007-2

Page 1 of 1

Collector KC Patterson CHPRC	Contact/Requester Dana Widrig	Telephone No. 509-376-2858 MSIN FAX
SAF No. A09-007	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title LLWMA(4)-PA, JULY 2009	HNF-N-506-22175	Ice Chest No. Temp.
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol Other	Priority: 30 Days PRIORITY	Offsite Property No.

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

SPECIAL INSTRUCTIONS Hold Time
200 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B20XH9		W	8-16-09	1039	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1) LJCCI	6 Months	None
B20XH9		W	8-16-09	1039	1x20-mL P	Activity Scan	6 Months	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
KC Patterson CHPRC			1500 AUG 16 2009	SSU#1			1500 AUG 16 2009
SSU#1			1200 AUG 17 2009	RD Julian CHPRC			1200 AUG 17 2009
RD Julian CHPRC			1250 AUG 17 2009	Cingular Tower			1250 AUG 17 2009

Matrix *

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

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

TestAmerica Laboratories, Inc.

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P&D SUBMITTAL

DECEMBER 21, 2010

REVISION 1

CHPRC W0571 J9H180260

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # A09-007-5

Page 1 of 1

Collector KC Patterson CHPRC	Contact/Requester Dana Widrig	Telephone No. 509-376-2858 MSIN FAX
SAF No. A09-007	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title LLWMA(4)-PA JULY 2009	LINE N 506 22175	Ice Chest No. Temp.
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol Other	Priority: 30 Days PRIORITY	Offsite Property No.

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

SPECIAL INSTRUCTIONS Hold Time
200 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B20XJ2 ✓		W	8-6-09	1226	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1) LJCTA	6 Months	None
B20XJ2 ✓		W	1	1	1x20-mL P	Activity Scan	6 Months	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
KC Patterson CHPRC			1500 AUG 16 2009	SSU #1			1500 AUG 16 2009
SSU #1			1200 AUG 17 2009	RD Julian CHPRC			1200 AUG 17 2009
RD Julian CHPRC			AUG 17 2009 1250				AUG 17 2009 8/17/09 1250

Matrix *

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

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

TestAmerica Laboratories, Inc.

P&D SUBMITTAL DECEMBER 21, 2010 REVISION 1

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CHPRC W05711 JGH 1802L00

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # A09-007-11

Page 1 of 1

Collector: KC Patterson CHPRC	Contact/Requester: Dana Widrig	Telephone No.: 509-376-2858 MSIN FAX
SAF No.: A09-007	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: LLWMA(4)-PA, JULY 2009	HNF-N-506-22175	Ice Chest No. Temp.
Shipped To (Lab): TestAmerica Incorporated Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: Other	Priority: 30 Days PRIORITY	Offsite Property No.

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

SPECIAL INSTRUCTIONS Hold Time
200 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B20XJ8 ✓		W	8-16-9	1354	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1) LJLT9	6 Months	None
B20XJ8 ✓		W	8-16-09	1354	1x20-mL P	Activity Scan	6 Months	None

Relinquished By	Date/Time	Received By	Date/Time
KC Patterson CHPRC (Print) (Sign)	1500 AUG 16 2009	SSU#1 (Print) (Sign)	1500 AUG 16 2009
SSU#1	1200 AUG 17 2009	RD Julian CHPRC	1200 AUG 17 2009
RD Julian CHPRC	1250 AUG 17 2009	Angel Grace Tuck	1250 AUG 17 2009

Matrix *

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

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

TestAmerica Laboratories, Inc.

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DECEMBER 21, 2010

REVISION 1

CHPRC WOS711 J9H180260

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # A09-007-17

Page 1 of 1

Collector KC Patterson CHPRC	Contact/Requester Dana Widrig	Telephone No. 509-376-2858 MSIN FAX
SAF No. A09-007	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title LLWMA(4)-PA JULY 2009	~~HNF-N-506~~ 22175	Ice Chest No. Temp.
Shipped To (Lab) TestAmerica Incorporated Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol Other	Priority: 30 Days PRIORITY	Offsite Property No.

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

SPECIAL INSTRUCTIONS Hold Time
200 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B20XK4 ✓		W	8-16-09	1121	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1) LJCTH	6 Months	None
B20XK4 ✓		W	"	"	1x20-mL P	Activity Scan	6 Months	None

8-16-09

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
KC Patterson CHPRC			1500 AUG 16 2009	SSU #1			1600 AUG 16 2009
SSU #1			AUG 17 2009 1200	RD Julian CHPRC			1200 AUG 17 2009
RD Julian CHPRC			AUG 17 2009 1250				AUG 17 2009 8/17/09 1250
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica Laboratories, Inc.

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DECEMBER 21, 2010

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THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: Aug. 17. 09 @ 10 AM GM Screen Results .06

Client: PGW SDG #: W05711 NA [ ] SAF #: A09-007 NA [ ]

Work Order Number: J9H180260 Chain of Custody # A09-007-2; A09-007-5; A09-007-11; A09-007-17

Shipping Container ID: N/A Air Bill # N/A

1. Custody Seals on shipping container intact? Yes [✓] No [ ]
2. Custody Seals dated and signed? Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: 4°C NA [ ] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 4 @ 12 Containers
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   - ✓ tape
   - ✓ custody seals
   - ✓ hazard labels
   - ✓ appropriate samples labels
9. Samples are:
   - ✓ in good condition
   - broken
   - leaking
   - have air bubbles (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ] Amount of HNO3 Added
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers):

Sample Custodian: Angel Garcia Jr. Date: Aug. 17. 09 @ 10 AM

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, Rev. 8, 3/09

CHPRC WOS711 J9H250183

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W09-008-42

Collector: KB Hulse CHPRC	Contact/Requester: Dana Widrig	Telephone No.: 509-376-2858 MSIN FAX
SAF No.: W09-008	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA AUGUST 2009	HNF-N-506- 24161	Ice Chest No. Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 30 Days **PRIORITY**	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B219M5	1 SPPL	W	8/19/09	1022	1x20-mL P	Activity Scan	6 Months	None
B219M5		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2

Relinquished By	Date/Time	Received By	Date/Time
KB Hulse CHPRC (Print) (Sign)	1430 AUG 19 2009	SSU #1 (Print) (Sign)	1430 AUG 19 2009
SSU #1	0900 AUG 24 2009	RD Julian CHPRC	0900 AUG 24 2009
RD Julian CHPRC	1030 AUG 24 2009		1030 AUG 24 2009

Matrix*

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

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

TestAmerica Laboratories, Inc.

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TestAmerica Laboratories, Inc.

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CHPRC W05711
J9H250183

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W09-008-43

Page 1 of 1

Collector: KB Hulse, CHPRC	Contact/Requester: Dana Widrig	Telephone No.: 509-376-2858 MSIN FAX
SAF No.: W09-008	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA AUGUST 2009	HNF-N-506- 24161	Ice Chest No. Temp.
Shipped To (Lab): TestAmerica Incorporated Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 30 Days PRIORITY	Offsite Property No.

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

SPECIAL INSTRUCTIONS Hold Time
Site-Wide Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B219M6	L3PP8	W	8/19/09	1022	1x20-mL P	Activity Scan	6 Months	None
B219M6		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2

ZEH 8/19/09

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
KB Hulse, CHPRC			1430 AUG 19 2009	SSU #1			1430 AUG 19 2009
SSU #1			0830 AUG 24 2009	RD Julian, CHPRC			0830 AUG 24 2009
RD Julian, CHPRC			1030 AUG 24 2009				1030 AUG 24 2009
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

TEER

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

TestAmerica
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Sample Check-in List

Date/Time Received: 08/24/09 @ 10 AM GM Screen Results .03

Client: PGW SDG #: WO 5711 NA [ ] SAF #: W09-008 NA [ ]

Work Order Number: 59H250183 Chain of Custody # W09-008-42; ~~W09-008-43~~ -43 SKS 9/2/09

Shipping Container ID: N/A Air Bill # N/A

1. Custody Seals on shipping container intact? Yes [✓] No [ ]
2. Custody Seals dated and signed? Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: 4°C NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [✓] Dry [ ]
6. Number of samples in shipping container: 2 @ 4 Containers 2@4000mL 2@20mL
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   - ✓ tape
   - ✓ custody seals
   - ___ hazard labels
   - ✓ appropriate samples labels
9. Samples are:
   - ✓ in good condition
   - ___ broken
   - ___ leaking
   - ___ have air bubbles (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ] Amount of HNO3 Added ___
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): ___

Sample Custodian: [signature] Date: Aug. 24. 09 Mon @ 10 AM

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on ___ by ___ Person contacted ___

[ ] No action necessary; process as is.

Project Manager ___ Date ___

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CHPRC WO 5711 J9H250189

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # A09-007-14

Page 1 of 1

Collector: DR Williamson CHPRC	Contact/Requester: Dana Widrig	Telephone No.: 509-376-2858 MSIN FAX
SAF No.: A09-007	Sampling Origin: Hanford Site	Purchase Order/Charge Code: NA
Project Title: LLWMA(4)-PA, JULY 2009	HNF-N-506-21169	Ice Chest No.: GWS-111 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: Other	Priority: 30 Days PRIORITY	Offsite Property No.: 1

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

SPECIAL INSTRUCTIONS Hold Time
200 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B20XK1	LSP09	W	8-17-09	0928	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
B20XK1		W	↓	↓	1x20-mL P	Activity Scan	6 Months	None

DRW 8-17-09

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Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DR Williamson CHPRC			AUG 17 2009 1430	DRW 8-24-09	DR Williamson CHPRC	SSU #1	8-17-09 DRW 8-24-09 AUG 17 2009 1430
SSU #1			0900 AUG 24 2009	RD Julian CHPRC			0900 AUG 24 2009
RD Julian CHPRC			1030 AUG 24 2009				1030 AUG 24 2009

Matrix *

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

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

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 08/24/09 Mon @ 10AM GM Screen Results .04

Client: PGW SDG #: W05711 NA [ ] SAF #: A09-007 NA [ ]

Work Order Number: J9H250189 Chain of Custody # A09-007-14

Shipping Container ID: GWS-111 Air Bill # N/A

1. Custody Seals on shipping container intact? Yes [✓] No [ ]
2. Custody Seals dated and signed? Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: 4°C NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [✓] Dry [ ]
6. Number of samples in shipping container: 1 @ 3 Containers 2 @ 4000mL 1 @ 20mL
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   ✓ tape
   ✓ custody seals
   ___ hazard labels
   ✓ appropriate samples labels
9. Samples are:
   ✓ in good condition
   ___ broken
   ___ leaking
   ___ have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ] Amount of HNO3 Added ___
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): ___

Sample Custodian: Angel Garcia Date: Aug 24.09 Mon @ 10AM

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on ___ by ___ Person contacted ___

[ ] No action necessary; process as is.

Project Manager ___ Date ___

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CHPRC W05711 J9H250190

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W09-007-116

Page 1 of 1

Collector RA Shepard CHPRC	Contact/Requester Dana Widrig	Telephone No. 376-2858 MSIN FAX
SAF No. W09-007	Sampling Origin	Purchase Order/Charge Code
Project Title RCRA JULY 2009		Ice Chest No. Temp.
Shipped To (Lab) TestAmerica Incorporated Richland	Method of Shipment ~~HNF-N-506~~ 22176 Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol RCRA	Priority: 30 Days PRIORITY	Offsite Property No.

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 09 SAFs into one SDG, not to exceed SDG closure of 14 days.WSCF: Batch all GW samples submitted into one SDG, daily closure.FY08 and FY09 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B210J4	LSPED	W	8-17-09	1136	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
B210J4		W	↓	↓	1x20-mL P	Activity Scan	6 Months	None

AUG 17 2009

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
RA Shepard CHPRC			AUG 17 2009 1240	SSU#1			AUG 17 2009 1240
SSU#1			0900 AUG 24 2009	RD Julian CHPRC			0900 AUG 24 2009
RD Julian CHPRC			1030 AUG 24 2009				1030 AUG 24 2009
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica Laboratories, Inc.

P&D SUBMITTAL

DECEMBER 21, 2010

REVISION 1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 8/24/09@10am GM Screen Results .04

Client: PGW SDG #: W05711 NA [ ] SAF #: W09-007 NA [ ]

Work Order Number: T9H 250190 Chain of Custody # W09-007-116

Shipping Container ID: N/A Air Bill # N/A

1. Custody Seals on shipping container intact? Yes [✓] No [ ]
2. Custody Seals dated and signed? Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: 4°C NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [✓] Dry [ ]
6. Number of samples in shipping container: 1 @ 3 Containers 2@4000mL 1@20mL
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   ✓ tape
   ✓ custody seals
   ___ hazard labels
   ✓ appropriate samples labels
9. Samples are:
   ✓ in good condition
   ___ broken
   ___ leaking
   ___ have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ] Amount of HNO3 Added ___
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): ___

Sample Custodian: [signature] Date: Aug 24. 09 Mon @ 10 AM

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on ___ by ___ Person contacted ___

[ ] No action necessary; process as is.

Project Manager ___ Date ___

LS-023, Rev. 8, 3/09

CHPRC WO 5711 J9H250197

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I09-054-12

Collector: DR Williamson CHPRC	Contact/Requester: Dana Widrig	Telephone No.: 509-376-2858 MSIN FAX
SAF No.: I09-054	Sampling Origin: Hanford Site	Purchase Order/Charge Code: N/A
Project Title: 2ZP1, AUGUST 2009	HNF-N-506- 2/1 69	Ice Chest No. Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. 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 but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time**
200 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B21801	LJPEN	W	8/17/09	1117	1x20-mL P	Activity Scan	6 Months	None
B21801		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None

8/17/09

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DR Williamson CHPRC			AUG 17 2009 1430	SSU #1			AUG 17 2009 1430
SSU #1			0900 AUG 24 2009	RD Julian CHPRC			0900 AUG 24 2009
RD Julian CHPRC			1030 AUG 24 2009				8/24/09 1030 AUG 24 2009

Matrix *

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

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

P&D SUBMITTAL DECEMBER 21, 2010 REVISION 1

TestAmerica Laboratories, Inc.

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 8/24/09@10am GM Screen Results -04

Client: PGW SDG #: W05711 NA [ ] SAF #: I09-054 NA [ ]

Work Order Number: J9H250192 Chain of Custody # I09-054-12

Shipping Container ID: N/A Air Bill # N/A

1. Custody Seals on shipping container intact? Yes [✓] No [ ]
2. Custody Seals dated and signed? Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: 4°C NA [ ] 5.Vermiculite/packing materials is NA [ ] Wet [✓] Dry [ ]
6. Number of samples in shipping container: 1 @ 3 Containers 2 @ 4000 mL 1 @ 20 mL
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   ✓ tape
   ✓ custody seals
   ___ hazard labels
   ✓ appropriate samples labels
9. Samples are:
   ✓ in good condition
   ___ broken
   ___ leaking
   ___ have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ] Amount of HNO3 Added ___
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): ___

Sample Custodian: [signature] Date: 08/24/09@10am Mon

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on ___ by ___ Person contacted ___

[ ] No action necessary; process as is.

Project Manager ___ Date ___

LS-023, Rev. 8, 3/09

CHPRC WO 5711
V9H270171

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # A09-009-5

Page 1 of 1

Collector DR Williamson CHPRC	Contact/Requester Dana Widrig	Telephone No. 509-376-2858 MSIN FAX
SAF No. A09-009	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title LLWMA(3)-PA, SEPTEMBER 2009	HNF-N-506-23155	Ice Chest No. Temp.
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol Other	Priority: 30 Days PRIORITY	Offsite Property No.

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

SPECIAL INSTRUCTIONS Hold Time
200 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B21H98	LJV5A	W	8-26-09	1002	1x20-mL P	Activity Scan	6 Months	None
B21H98		W	8-26-09	1002	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DR Williamson CHPRC		215	AUG 26 2009		Angel Garcia	215	AUG 26 2009
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica Laboratories, Inc.

P&D SUBMITTAL

DECEMBER 21, 2010

REVISION 1

CHPRC W05711
JGH270171

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # A09-009-7

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Collector: DR Williamson	Contact/Requester: Dana Widrig	Telephone No.: 509-376-2858 MSIN FAX
SAF No. CHPRC A09-009	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: LLWMA(3)-PA, SEPTEMBER 2009	HNF-N-506-23155	Ice Chest No. Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: Other	Priority: 30 Days PRIORITY	Offsite Property No.

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

SPECIAL INSTRUCTIONS Hold Time
200 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B21HB0	W056	W	8-26-09	1053	1x20-mL P	Activity Scan	6 Months	None
B21HB0		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DR Williamson, CHPRC			215 AUG 26 2009		Angel Garcia		AUG 26 2009 215
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica Laboratories, Inc.

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DECEMBER 21, 2010

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CHPRC W05711
J9H270171

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # A09-009-8

Page 1 of 1

Collector: DR Williamson, CHPRC	Contact/Requester: Dana Widrig	Telephone No.: 509-376-2858 MSIN FAX
SAF No.: A09-009	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: LLWMA(3)-PA, SEPTEMBER 2009	HNF-N-508- 23155	Ice Chest No. Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: Other	Priority: 30 Days PRIORITY	Offsite Property No.

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

SPECIAL INSTRUCTIONS Hold Time
200 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B21HB1	LJV6N	W	8-26-09	1053	1x20-mL P	Activity Scan	6 Months	None
B21HB1		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None

8-26-09

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DR Williamson, CHPRC			AUG 26 2009			Angel Garcia	AUG 26 2009
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica Laboratories, Inc.

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DECEMBER 21, 2010

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THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: Aug 26 09 Wed @ 2:15pm GM Screen Results .03

Client: PGW SDG #: W0S711 NA [ ] SAF #: A09-009 NA [ ]

Work Order Number: J9H270171 Chain of Custody # A09-009-5; ~~A09-009-7~~; A09-009-8

Shipping Container ID: N/A Air Bill # A09-009-7 SKS 9/2/09

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

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

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

4. Cooler temperature: 4°C NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [✓] Dry [ ]

6. Number of samples in shipping container: 3 c 3@ 20mL 6@ 4000mL

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

8. Samples have:
   ____ tape
   ✓ custody seals
   ____ hazard labels
   ✓ appropriate samples labels

9. Samples are:
   ✓ in good condition
   ____ broken
   ____ leaking
   ____ have air bubbles
   (Only for samples requiring head space)

10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ] Amount of HNO3 Added_____

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

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

13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: Aug 26 09 Wed @ 2:15pm

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on_____ by_____ Person contacted_____

[ ] No action necessary; process as is.

Project Manager_____ Date_____

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CHPRC W05711
J9H270177-185 AG, 8/27/09

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I09-060-3

Page 1 of 1

Collector: DR Williamson, CHPRC	Contact/Requester: Dana Widrig	Telephone No.: 509-376-2858 MSIN FAX
SAF No.: I09-060	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2ZP1, SEPTEMBER 2009	HNF-N-506-23 15	Ice Chest No. Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: CERCLA	Priority: 30 Days PRIORITY	Offsite Property No.

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

SPECIAL INSTRUCTIONS Hold Time
200 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B21JV3		W	8-26-09	0635	1x20-mL P	Activity Scan	6 Months	None
B21JV3		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
			4 WCT					

Relinquished By	Date/Time	Received By	Date/Time
DR Williamson, CHPRC — Print; Sign; AUG 26 2009	DR Williamson, CHPRC 215	Angel Garcia — Print; Sign; AUG 26 2009	215

Matrix *

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

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

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DECEMBER 21, 2010

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TestAmerica Laboratories, Inc.

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CHPRC W05711
09H270H1 — AB 8/27/09

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I09-060-2

Collector: DR Williamson, CHPRC 185	Contact/Requester: Dana Widrig	Telephone No.: 509-376-2858 MSIN FAX
SAF No.: I09-060	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2ZP1, SEPTEMBER 2009	HNF-N-506-23155	Ice Chest No. Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: CERCLA	Priority: 30 Days **PRIORITY**	Offsite Property No.

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
200 Area Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B21JV2	LJWAM	W	8-26-09	1204	1x20-mL P	Activity Scan	6 Months	None
B21JV2		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DR Williamson CHPRC			2:15 AUG 26 2009		Angel Garcia		2:15 AUG 26 2009
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 8/26/09 Wed @ 2:15 pm GM Screen Results .04

Client: PGW SDG #: W05711 NA [ ] SAF #: I09-060 NA [ ]

Work Order Number: 9H290185 Chain of Custody # ~~I09-060-2, I09-060-3~~ I09-060-3 SKS 8/26/09

Shipping Container ID: N/A Air Bill # N/A

1. Custody Seals on shipping container intact? Yes [✓] No [ ]
2. Custody Seals dated and signed? Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: 4°C NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [✓] Dry [ ]
6. Number of samples in shipping container: 2 @ 4 @ 4000mL & 2 @ 20 mL
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   ____tape ____hazard labels
   ✓ custody seals ✓ appropriate samples labels
9. Samples are:
   ✓ in good condition ____leaking
   ____broken ____have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ] Amount of HNO3 Added____
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): ____

Sample Custodian: [signature] Date: Aug. 26. 09 Wed @ 2:15 pm

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on____ by____ Person contacted____

[ ] No action necessary; process as is.

Project Manager____ Date____

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CHPRC W05711
J9H270203

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W09-009-222**

Page 1 of 1

Collector DR Williamson	**Contact/Requester** Dana Widrig	**Telephone No.** 509-376-2858 **MSIN** **FAX**
SAF No. CHPRC W09-009	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, SEPTEMBER 2009	HNF-N-506-23155	**Ice Chest No.** **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 30 Days **PRIORITY**	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B21L52	LJW2D	W	8-26-09	0920	1x20-mL P	Activity Scan	6 Months	None
B21L52		W	8-26-09	0920	2x1000-mL G/P	Selenium-79	6 Months	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DR Williamson CHPRC			AUG 25 2009				AUG 25, 2009
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica Laboratories, Inc.

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THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 8/26/09 WED @ 215 GM Screen Results .04

Client: PGW SDG #: W05711 NA [ ] SAF #: W09-009 NA [ ]

Work Order Number: J9H270203 Chain of Custody # W09-009-222

Shipping Container ID: N/A Air Bill # N/A

1. Custody Seals on shipping container intact? Yes [✓] No [ ]
2. Custody Seals dated and signed? Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: 4°C NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [✓] Dry [ ]
6. Number of samples in shipping container: 1 @ 2 @ 1000mL & 1 @ 20ml
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   ___ tape
   ✓ custody seals
   ___ hazard labels
   ✓ appropriate samples labels
9. Samples are:
   ✓ in good condition
   ___ broken
   ___ leaking
   ___ have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ] Amount of HNO3 Added ___
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): ___

Sample Custodian: [signature] Date: Aug 26. 09 WED @ 215 pm

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on ___ by ___ Person contacted ___

[ ] No action necessary; process as is.

Project Manager ___ Date ___

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CHPRC W05711 J9H270205

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I09-059-23

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Collector: DR Williamson CHPRC	Contact/Requester: Dana Widrig	Telephone No.: 509-376-2858 MSIN FAX
SAF No.: I09-059	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2UP1, SEPTEMBER 2009		Ice Chest No. Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle HNF-N-506-23155	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 30 Days PRIORITY	Offsite Property No.

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

SPECIAL INSTRUCTIONS Hold Time
200 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B21JR3	LJWEL	W	8-26-09	0838	1x20-mL P	Activity Scan	6 Months	None
B21JR3		W	8-26-09	0838	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None

8-26-09

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DR Williamson CHPRC		215	AUG 20 2009		Angel Garcia	215	AUG 20 2009
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica Laboratories, Inc.

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THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: Aug. 26. 09 @ 215 pm GM Screen Results .04

Client: PGW SDG #: W45711 NA [ ] SAF #: I09-059 NA [ ]

Work Order Number: N/A J9H 270205 Chain of Custody # I09-059-23
8/29/09

Shipping Container ID: N/A Air Bill # N/A

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

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

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

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

6. Number of samples in shipping container: 1 @ 3 containers 1@20mL 2@4000mL

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

8. Samples have:
   ____tape
   ✓ custody seals
   ____hazard labels
   ✓ appropriate samples labels

9. Samples are:
   ✓ in good condition
   ____broken
   ____leaking
   ____have air bubbles
   (Only for samples requiring head space)

10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ] Amount of HNO3 Added____

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

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

13. Description of anomalies (include sample numbers): ____

Sample Custodian: [signature] Date: Aug. 26 09 Wed @ 215 pm

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on____by____Person contacted____

[ ] No action necessary; process as is.

Project Manager____Date____

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TestAmerica Laboratories, Inc.

CHPRC W05711 J9H270207

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W09-008-185

Page 1 of 1

Collector: KE Hamilton CHPRC	Contact/Requester: Dana Widrig	Telephone No.: 509-376-2858 MSIN FAX
SAF No.: W09-008	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, AUGUST 2009	HNF-N-506-24 / 63	Ice Chest No. Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 30 Days PRIORITY	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B219J3	LJWFE	W	8-24-09	1104	1x20-mL P	Activity Scan	6 Months	None
B219J3		W	8-24-09	1104	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2

RRW 8-24-09

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
KE Hamilton CHPRC	Ken Ellwanger		0800 AUG 24 2009	SSU #1			0800 AUG 24 2009
SSU #1			AUG 26 2009 1015	AR McIntyre			AUG 26 2009 1015
AR McIntyre 8-26-09			AUG 26 2009 215	Angel Garcia			AUG 26 2009 215

Matrix *

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

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

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CHPRC W05711 J9H270207

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W09-008-56

Collector: KE Hamilton CHPRC	Contact/Requester: Dana Widrig	Telephone No.: 509-376-2858 MSIN FAX
SAF No.: W09-008	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA AUGUST 2009	HNF-N-506-24 / 63	Ice Chest No. Temp.
Shipped To (Lab): TestAmerica Incorporated Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 30 Days **PRIORITY**	Offsite Property No.

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

SPECIAL INSTRUCTIONS Hold Time
Site-Wide Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B219N6	LJWF2	W	8/24/08	1219	1x20-mL P	Activity Scan	6 Months	None
B219N6		W	8/24/08	1219	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2

DLW 8-24-09

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
KE Hamilton CHPRC			AUG 2 4 2009 1430	SSU #1			AUG 2 4 2009 1430
AGM AR McIntyre 8-26-09	SSU #1		AUG 2 6 2009 1015	AR McIntyre			AUG 2 6 2009 1015
AR McIntyre			AUG 2 6 2009 215	Angel Lopez Jr. Angel			AUG 2 6 2009 215
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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CHPRC W05711 JRH270007

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W09-008-57

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Collector: KE Hamilton, CHPRC	Contact/Requester: Dana Widrig	Telephone No.: 509-376-2858 MSIN FAX
SAF No.: W09-008	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, AUGUST 2009	HNF-N-506- 24 163	Ice Chest No. Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 30 Days **PRIORITY**	Offsite Property No.

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

SPECIAL INSTRUCTIONS Hold Time
Site-Wide Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B219N7	LJWFH	W	8-24-09	0920	1x20-mL P	Activity Scan	6 Months	None
B219N7		W	8-24-09	0920	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
KE Hamilton, CHPRC			AUG 24 2009 1430	SSU #1			AUG 24 2009 1430
AR McIntyre 8-26-09	SSU #1		AUG 26 2009 1015	AR McIntyre			AUG 26 2009 1015
AR McIntyre			AUG 26 2009 215	TAR ANGEL			AUG 26 2009 215
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica Laboratories, Inc.
P&D SUBMITTAL DECEMBER 21, 2010 REVISION 1
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THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: Wed Aug. 26. 09 @ 215 pm GM Screen Results .04

Client: PGW SDG #: W05711 NA [ ] SAF #: W09-008 NA [ ]

Work Order Number: JPH20207 Chain of Custody # W09-008-56; W09-008-57 W09-008-185

Shipping Container ID: N/A Air Bill # N/A

1. Custody Seals on shipping container intact? Yes [✓] No [ ]
2. Custody Seals dated and signed? Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: 4°C NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [✓] Dry [ ]
6. Number of samples in shipping container: 3 @ 3@4000mL & 3@20mL
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   ___ tape ___ hazard labels
   ✓ custody seals ✓ appropriate samples labels
9. Samples are:
   ✓ in good condition ___ leaking
   ___ broken ___ have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ] Amount of HNO3 Added ___
11. Sample Location, Sample Collector Listed? * Yes [✓] No [✓] SKS 9/2/09
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): ___

Sample Custodian: [signature] Date: Aug 26. 09 @ 215 pm Wed.

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on ___ by ___ Person contacted ___

[ ] No action necessary; process as is.

Project Manager ___ Date ___

CHPRC W05711
J9H270243

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S09-006-6

Page 1 of 1

Collector: KE Hamilton, CHPRC	Contact/Requester: Dana Widrig	Telephone No.: 509-376-2858 MSIN FAX
SAF No.: S09-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JUNE 2009	HNF-N-506- 21172	Ice Chest No. Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS Hold Time — Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.
ESL - Hold all samples until all 10 are received and run the complete set at ONE time.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B20PF3	LJWPV	W	8-25-09	1054	1x20-mL P	Activity Scan	6 Months.	None
B20PF3		W	↓	↓	3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	6 Months	None

AUG 25 2009

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
KE Hamilton CHPRC			AUG 25 2009 1315	SSU #1			AUG 25 2009 1315
AR McIntyre 8-26-09	SSU #1		AUG 26 2009 1015	AR McIntyre			AUG 26 2009 1015
AR McIntyre			AUG 26 2009 215	TALR Angel Garcia			AUG 26 2009 215
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica Laboratories, Inc.

P&D SUBMITTAL

DECEMBER 21, 2010

REVISION 1

CHPRC W05711
J9H270243

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S09-006-7

Page 1 of 1

Collector: KE Hamilton CHPRC	Contact/Requester: Dana Widrig	Telephone No.: 509-376-2858 MSIN FAX
SAF No.: S09-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JUNE 2009	HNF-N-506- 21172	Ice Chest No. Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.
ESL - Hold all samples until all 10 are received and run the complete set at ONE time.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B20PF4	LJW01	W	8-25-09	0700	1x20-mL P	Activity Scan	6 Months	None
B20PF4		W	↓	↓	3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	6 Months	None

AUG 25 2009

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
KE Hamilton CHPRC	Kevin E Hamilton		AUG 25 2009 1315	SSU #1			AUG 25 2009 1315
AR McIntyre 8-26-09	SSU #1		AUG 26 2009 1015	AR McIntyre			AUG 26 2009 1015
AR McIntyre			AUG 26 2009 215	Angel	Talk		AUG 26 2009 215

Matrix *

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

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

TestAmerica Laboratories, Inc.
P&D SUBMITTAL DECEMBER 21, 2010 REVISION 1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: WED 8/26/09 @ 215PM GM Screen Results .04

Client: PGW SDG #: W0S711 NA [ ] SAF #: S09-006 NA [ ]

Work Order Number: J9H270243 Chain of Custody # S09-006-6, ~~S09-006-7~~ S09-006-7 SKS 9/2/09

Shipping Container ID: N/A Air Bill # N/A

1. Custody Seals on shipping container intact? Yes [✓] No [ ]
2. Custody Seals dated and signed? Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: 4°C NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [✓] Dry [ ]
6. Number of samples in shipping container: 2 @ 6 @ 1000 mLP & 2 @ 20 mL
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   ____ tape
   ✓ custody seals
   ____ hazard labels
   ✓ appropriate samples labels
9. Samples are:
   ✓ in good condition
   ____ broken
   ____ leaking
   ____ have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ] Amount of HNO3 Added ____
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): ____

Sample Custodian [signature] Date Aug. 26.09 @ 215 PM WED.

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on ____ by ____ Person contacted ____

[ ] No action necessary; process as is.

Project Manager ____ Date ____

LS-023, Rev. 8, 3/09

TestAmerica Laboratories, Inc.

9/3/2009 7:17:00 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AW Gamma Prp GAM001
TA Gamma by HPGE
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 09/25/2009

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Batch: 9245377 WATER pCi/L PM, Quote: SS , 57671

SEQ Batch, Test: None

Prep Tech: ,Barcotl Bock

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments
1 LJPPL-1-AA J9H250183-1-SAMP 08/19/2009 10:22		2000.00g,in AmtRec: 4LP,VIAL #Containers: 2			100 mLS	200	66	0635	9/9/09	Scr: Alpha: 2.04E-03 uCi/Sa 3.5E-01L Beta: 4.06E-04 uCi/Sa
2 LJPPL-1-AC-X J9H250183-1-DUP 08/19/2009 10:22		ISV AmtRec: 4LP,VIAL #Containers: 2					67	0958	↓	Scr: Alpha: 2.04E-03 uCi/Sa 3.5E-01L Beta: 4.06E-04 uCi/Sa
3 LJPP8-1-AA J9H250183-2-SAMP 08/19/2009 10:22		2000.00g,in AmtRec: 4LP,VIAL #Containers: 2					613	0636	9/9/09	Scr: Alpha: 7.96E-04 uCi/Sa Beta: 1.00E-03 uCi/Sa
4 LJWFE-1-AA J9H270207-1-SAMP 08/24/2009 11:04		2000.00g,in AmtRec: 4LP,VIAL20 #Containers: 2					610	0636		Scr: Alpha: 1.54E-03 uCi/Sa Beta: 6.31E-04 uCi/Sa
5 LJWF2-1-AA J9H270207-2-SAMP 08/24/2009 12:19		2000.00g,in AmtRec: 4LP,VIAL20 #Containers: 2					67	0636		Scr: Alpha: 3.18E-03 uCi/Sa 2.3E-01L Beta: -4.35E-04 uCi/Sa
6 LJWF4-1-AA J9H270207-3-SAMP 08/24/2009 09:20		2000.00g,in AmtRec: 4LP,VIAL20 #Containers: 2					611	0634		Scr: Alpha: 1.04E-04 uCi/Sa Beta: 1.20E-04 uCi/Sa
7 LJ70M-1-AA-B J9I020000-377-BLK 08/19/2009 10:22		2000.00g,in AmtRec: #Containers: 1					613	0454	9/9/09	Scr: Alpha: Beta:

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67 68

TestAmerica Richland Wa. Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Page 1 ISV - Insufficient Volume for Analysis WO Cnt: 7 Prep_SamplePrep v4.8.34

9/3/2009 7:17:02 AM

Sample Preparation/Analysis

AW Gamma Prp GAM001
TA Gamma by HPGE
5I CLIENT: HANFORD

Balance Id:1120482733
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,Barcotl

AnalyDueDate: 09/25/2009

Batch: 9245377 pCi/L
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments
8 LJ70M-1-AC-C J9I020000-377-LCS 08/19/2009 10:22		2000.00g,in AmtRec:	QCAG1573 04/24/09,pd 06/08/05,r #Containers: 1		100 mls	200	66	0959 Scr:	9/9/09 S Alpha:	Beta:

Comments: No dup due to ISV please recount on separate detector

PH <2.0 IB 9-3-09

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

LJPPL1AA-SAMP Constituent List:

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

LJ70M1AA-BLK:

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

LJ70M1AC-LCS:

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

LJPPL1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LJ70M1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LJ70M1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

P&D SUBMITTAL DECEMBER 21, 2010 REVISION 1

ICOC Fraction Transfer/Status Report

ByDate: 9/9/2008, 9/14/2009, Batch: '9245377', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus		Accepting		Comments
9245377						
AC		**Rev1C**	**Barcotl**	9/3/2009 7:17:08 AM		
SC			wagarr	IsBatched	9/2/2009 2:14:47 PM	ICOC_RADCALC v4.8.35
SC			Barcotl	InPrep	9/3/2009 7:17:08 AM	RL-PRP-004 REVISION 0
SC			Barcotl	Prep1C	9/3/2009 7:17:19 AM	RL-PRP-004 REVISION 0
SC			BockJ	InPrep2	9/3/2009 8:14:33 AM	RL-GAM-001 REVISION 0
SC			BockJ	Prep2C	9/8/2009 3:28:15 PM	RL-GAM-001 REVISION 0
SC			ClarkR	InCnt1	9/8/2009 3:39:58 PM	RL-CI-007 REVISION 0
SC			ClarkR	CalcC	9/9/2009 12:13:34 PM	RL-CI-007 REVISION 0
SC			nortonj	Rev1C	9/9/2009 2:38:52 PM	RL-DR-001 REV 0
AC			**Barcotl**	9/3/2009 7:17:19 AM		
AC			**BockJ**	9/3/2009 8:14:33 AM		
AC			**BockJ**	9/8/2009 3:28:15 PM		
AC			**ClarkR**	9/8/2009 3:39:58 PM		
AC			**ClarkR**	9/9/2009 12:13:34 PM		
AC			**nortonj**	9/9/2009 2:38:52 PM		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.36

9/4/2009 9:20:55 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

BN I-129 Prp/Sep GAM002
TB Gamma by LEPD
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 09/25/2009

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Batch: 9245375 WATER pCi/L PM, Quote: SS , 57671

SEQ Batch, Test: None All Tests: 9245375 BNTB,

Prep Tech: ,Barcotl

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments
1 LJCR1-1-AA J9H180260-1-SAMP 08/16/2009 10:39	AmtRec: 2X4LP,VIAL20	3917.70g,in	ITA8650 07/31/09	#Containers: 3	37.7	200	L5	1427 Scr: Alpha: 0.00E+00 uCi/Sa	9/12/09 MC Beta: 0.00E+00 uCi/Sa	
2 LJCR1-1-AC-X J9H180260-1-DUP 08/16/2009 10:39	AmtRec: 2X4LP,VIAL20	3918.30g,in	ITA8651 07/31/09	#Containers: 3	38.9		L4	1751 Scr: Alpha: 0.00E+00 uCi/Sa	9/12/09 MC Beta: 0.00E+00 uCi/Sa	
3 LJCTA-1-AA J9H180260-2-SAMP 08/16/2009 12:26	AmtRec: 2X4LP,VIAL20	3645.40g,in	ITA8652 07/31/09	#Containers: 3	36.0		L5	1752 Scr: Alpha: 0.00E+00 uCi/Sa	Beta: 0.00E+00 uCi/Sa	
4 LJCTE-1-AA J9H180260-3-SAMP 08/16/2009 13:54	AmtRec: 2X4LP,VIAL20	3898.20g,in	ITA8653 07/31/09	#Containers: 3	38.2		L4	0650 Scr: Alpha: 0.00E+00 uCi/Sa	9/18/09 S Beta: 0.00E+00 uCi/Sa	
5 LJCTH-1-AA J9H180260-4-SAMP 08/16/2009 11:21	AmtRec: 2X4LP,VIAL20	3935.70g,in	ITA8654 07/31/09	#Containers: 3	37.7		L5	0650 Scr: Alpha: 0.00E+00 uCi/Sa	Beta: 0.00E+00 uCi/Sa	
6 LJPQ8-1-AA J9H250189-1-SAMP 08/17/2009 09:28	AmtRec: 2X4LP,VIAL	3900.50g,in	ITA8655 07/31/09	#Containers: 3	37.7		L4	1012 Scr: Alpha: -2.13E-04 uCi/Sa	9/17/09 S Beta: 1.24E-03 uCi/Sa	
7 LJPRD-1-AA J9H250190-1-SAMP 08/17/2009 11:36	AmtRec: 2X4LP,VIAL	3913.20g,in	ITA8656 07/31/09	#Containers: 3	36.0		L5	1018 Scr: Alpha: -9.13E-04 uCi/Sa	Beta: -4.32E-05 uCi/Sa	

TestAmerica Richland Wa. Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Page 1 ISV - Insufficient Volume for Analysis WO Cnt: 7 Prep_SamplePrep v4.8.34

TestAmerica Laboratories, Inc.

P&D SUBMITTAL DECEMBER 21, 2010 REVISION 1

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9/4/2009 9:20:57 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

BN I-129 Prp/Sep GAM002
TB Gamma by LEPD
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 09/25/2009

Sep1 DT/Tm Tech:

Batch: 9245375 WATER pCi/L . PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,Barcotl

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments
8 LJPRN-1-AA J9H250192-1-SAMP 08/17/2009 11:17		3893.80g,in AmtRec: 2X4LP,VIAL20 #Containers: 3	ITA8657 07/31/09		37.1	200	4 1334	~~9/18~~ 9/18	9/18/09 S Scr: Alpha: 5.14E-04 uCi/Sa Beta: 1.28E-04 uCi/Sa	
9 LJV5A-1-AA J9H270171-1-SAMP 08/26/2009 10:02		3926.00g,in AmtRec: 2X4LP,VIAL	ITA8658 07/31/09		37.0		LK ~~1335~~ 9/18	1335	Scr: Alpha: Beta:	
10 LJV56-1-AA J9H270171-2-SAMP 08/26/2009 10:53		3920.90g,in AmtRec: 2X4LP,VIAL	ITA8659 07/31/09		36.7		L4	1658	9/18/09 S Scr: Alpha: Beta:	
11 LJV6N-1-AA J9H270171-3-SAMP 08/26/2009 10:53		3918.00g,in AmtRec: 2X4LP,VIAL	ITA8660 07/31/09		36.8		L5	1658	Scr: Alpha: Beta:	
12 LJWAM-1-AA J9H270185-1-SAMP 08/26/2009 12:04		3909.50g,in AmtRec: VIAL,2X4LP	ITA8661 07/31/09		37.2		L4	2028	9/18/09 0900 Scr: Alpha: Beta:	
13 LJWCJ-1-AA J9H270185-2-SAMP 08/26/2009 06:35		3847.90g,in AmtRec: VIAL,2X4LP	ITA8662 07/31/09		37.1		L5	2029	Scr: Alpha: Beta:	
14 LJWEL-1-AA J9H270205-1-SAMP 08/26/2009 08:38		3888.90g,in AmtRec: 2X4LP,VIAL	ITA8663 07/31/09		35.6		L4	1041	9/19/09 m Scr: Alpha: Beta:	

TestAmerica Laboratories, Inc.

P&D SUBMITTAL DECEMBER 21, 2010 REVISION 1

9/4/2009 9:20:57 AM

Sample Preparation/Analysis

Balance Id:1120482733

BN I-129 Prp/Sep GAM002
TB Gamma by LEPD
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 09/25/2009

Sep1 DT/Tm Tech:

Batch: 9245375 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,Barcotl

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments
15 LJ7X0-1-AA-B J9I020000-375-BLK 08/16/2009 10:39		3979.70g,in AmtRec:	ITA8664 07/31/09 #Containers: 1		37.1	200	L5	1047	9/17/09 mr	
16 LJ7X0-1-AC-C J9I020000-375-LCS 08/16/2009 10:39		3989.20g,in AmtRec:	ISD0954 05/05/09 #Containers: 1		49.4		L4	0036	9/22/09	

Scr: Alpha: Beta:

Scr: Alpha: Beta:

Comments: Samples reduced due to ISV IB 9-4-09

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

LJCR11AA-SAMP Constituent List:
I-129 RDL:0.50E+00 pCi/L LCL: UCL: RPD:
LJ7X01AA-BLK:
I-129 RDL:0.50E+00 pCi/L LCL: UCL: RPD:
LJ7X01AC-LCS:
I-129 RDL:5 pCi/L LCL:70 UCL:130 RPD:20

LJCR11AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LJ7X01AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LJ7X01AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TestAmerica Laboratories, Inc.
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P&D SUBMITTAL DECEMBER 21, 2010 REVISION 1

9/22/2009 1:58:41 PM

ICOC Fraction Transfer/Status Report

ByDate: 9/22/2008, 9/27/2009, Batch: '9245375', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
9245375						
AC		**Rev1C**	**Barcotl**	9/4/2009 9:21:06 AM		
SC			wagarr	IsBatched	9/2/2009 2:14:47 PM	ICOC_RADCALC v4.8.35
SC			Barcotl	InPrep	9/4/2009 9:21:06 AM	RL-PRP-004 REVISION 0
SC			Barcotl	Prep1C	9/4/2009 9:21:16 AM	RL-PRP-004 REVISION 0
SC			BostedD	Prep2C	9/11/2009 2:38:18 PM	RL-GAM-002 REVISION 0
SC			ClarkR	InCnt1	9/11/2009 2:41:08 PM	RL-CI-007 REVISION 0
SC			ClarkR	CalcC	9/22/2009 8:08:03 AM	RL-CI-007 REVISION 0
SC			nortonj	Rev1C	9/22/2009 1:55:28 PM	RL-DR-001 REV 0
AC			**Barcotl**	9/4/2009 9:21:16 AM		
AC			**BostedD**	9/11/2009 2:38:18 PM		
AC			**ClarkR**	9/11/2009 2:41:08 PM		
AC			**ClarkR**	9/22/2009 8:08:03		
AC			**nortonj**	9/22/2009 1:55:28 PM		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.37

9/3/2009 7:27:46 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

CY Se-79 Prp PRP004, Sep LSC012
TM Selenium-79 by Liquid Scint
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 09/25/2009

Sep1 DT/Tm Tech:

Batch: 9245380 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,Barcotl

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments
1 LJWED-1-AA J9H270203-1-SAMP 08/26/2009 09:20		200.00g,in AmtRec: 2XLP,VIAL	SETA0732 07/28/09 #Containers: 3		200		Scr:	Alpha: 2.53E-04 uCi/Sa	Beta: 1.71E-05 uCi/Sa
2 LJWED-1-AC-X J9H270203-1-DUP 08/26/2009 09:20		200.00g,in AmtRec: 2XLP,VIAL	SETA0733 07/28/09 #Containers: 3				Scr:	Alpha: 2.53E-04 uCi/Sa	Beta: 1.71E-05 uCi/Sa
3 LJ71J-1-AA-B J9I020000-380-BLK 08/26/2009 09:20		200.00g,in AmtRec:	SETA0734 07/28/09 #Containers: 1				Scr:	Alpha:	Beta:
4 LJ71J-1-AC-BN J9I020000-380-IBLK 08/26/2009 09:20		AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Comments:

PW < 2.0 IB 9-3-09

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

LJWED1AA-SAMP Constituent List:

Se-79	RDL:3.00E+01	pCi/L	LCL:	UCL:	RPD:

LJ71J1AA-BLK:

Se-79	RDL:3.00E+01	pCi/L	LCL:	UCL:	RPD:

LJ71J1AC-IBLK:

Se-79	RDL:3.00E+01	pCi/L	LCL:	UCL:	RPD:

LJWED1AA-SAMP Calc Info:

TestAmerica Laboratories, Inc.
P&D SUBMITTAL DECEMBER 21, 2010 REVISION 1

9/3/2009 7:27:47 AM

Sample Preparation/Analysis

CY Se-79 Prp PRP004, Sep LSC012
TM Selenium-79 by Liquid Scint
5I CLIENT: HANFORD

AnalyDueDate: 09/25/2009

Batch: 9245380 **pCi/L**
SEQ Batch, Test: None

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

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

Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LJ71J1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LJ71J1AC-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

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ICOC Fraction Transfer/Status Report

ByDate: 9/11/2008, 9/16/2009, Batch: '9245380', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus		Accepting		Comments
9245380						
AC		**Rev1C**	**Barcotl**	9/3/2009 7:27:55 AM		
SC			wagarr	IsBatched	9/2/2009 2:14:47 PM	ICOC_RADCALC v4.8.35
SC			Barcotl	InPrep	9/3/2009 7:27:55 AM	RL-PRP-004 REVISION 0
SC			Barcotl	Prep1C	9/3/2009 7:28:07 AM	RL-PRP-004 REVISION 0
SC			ClarkR	InCnt1	9/9/2009 11:01:10 AM	RL-CI-005 REVISION 0
SC			ClarkR	CalcC	9/11/2009 1:35:12 PM	RL-CI-005 REVISION 0
SC			nortonj	Rev1C	9/11/2009 2:55:38 PM	RL-DR-001 REV 0
AC			**Barcotl**	9/3/2009 7:28:07 AM		
AC			**ClarkR**	9/9/2009 11:01:10		
AC			**ClarkR**	9/11/2009 1:35:12 PM		
AC			**nortonj**	9/11/2009 2:55:38 PM		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 5

ICOCFractions v4.8.36

9/2/2009 2:13:03 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AR H-3 Prp/Sep LSC005
T0 Tritium - Midlevel, by Liquid Scint
5I CLIENT: HANFORD

AnalyDueDate: 09/25/2009 W05711

Batch: 9245381 WATER pCi/L PM, Quote: SS , 57671
SEQ Batch, Test: None

Balance Id: 12454
Pipet #:
Sep1 DT/Tm Tech: 9-3-09 dm
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 LJWPV-1-AC J9H270243-1-SAMP 08/25/2009 10:54		AmtRec: 3XLP,VIAL	#Containers: 4			Scr:	Alpha: 2.09E-04 uCi/Sa	Beta: -3.27E-04 uCi/Sa
2 LJWPV-1-AD-X J9H270243-1-DUP 08/25/2009 10:54		AmtRec: 3XLP,VIAL	#Containers: 4			Scr:	Alpha: 2.09E-04 uCi/Sa	Beta: -3.27E-04 uCi/Sa
3 LJWP1-1-AC J9H270243-2-SAMP 08/25/2009 07:00		AmtRec: 3XLP,VIAL	#Containers: 4			Scr:	Alpha: -3.35E-04 uCi/Sa	Beta: 6.35E-04 uCi/Sa
4 LJ71M-1-AA-B J9I020000-381-BLK 08/25/2009 10:54		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
5 LJ71M-1-AC-C J9I020000-381-LCS 08/25/2009 10:54		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 LJ71M-1-AD-BN J9I020000-381-IBLK 08/25/2009 10:54		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

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9/2/2009 2:13:03 PM

Sample Preparation/Analysis

AR H-3 Prp/Sep LSC005
T0 Tritium - Midlevel, by Liquid Scint
5I CLIENT: HANFORD

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

AnalyDueDate: 09/25/2009

Batch: 9245381 pCi/L
SEQ Batch, Test: None

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

Comments:

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

LJWPV1AC-SAMP Constituent List:
H-3 RDL:25 pCi/L LCL: UCL: RPD:
LJ71M1AA-BLK:

LJ71M1AC-LCS:

LJ71M1AD-IBLK:

LJWPV1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LJ71M1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LJ71M1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LJ71M1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

P&D SUBMITTAL DECEMBER 21, 2010 REVISION 1

ICOC Fraction Transfer Status Report

ByDate: 9/11/2008, 9/16/2009, Batch: '9245381', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
9245381						
AC		**Rev1C**	**McDowellD**	9/3/2009 10:32:21		
SC			wagarr	IsBatched	9/2/2009 2:14:47 PM	ICOC_RADCALC v4.8.35
SC			McDowellD	InSep1	9/3/2009 10:32:21 AM	RL-LSC-005 REVISION 0
SC			McDowellD	Sep1C	9/3/2009 3:27:10 PM	RL-LSC-005 REVISION 0
SC			DAWKINSO	InCnt1	9/3/2009 3:39:05 PM	RL-CI-005 REVISION 0
SC			BlackCL	CalcC	9/11/2009 6:19:38 AM	RL-CI-005 REVISION 0
SC			nortonj	Rev1C	9/11/2009 10:47:07 AM	RL-DR-001 REV 0
AC			**McDowellD**	9/3/2009 3:27:10 PM		
AC			**DAWKINSO**	9/3/2009 3:39:05 PM		
AC			**BlackCL**	9/11/2009 6:19:38		
AC			**nortonj**	9/11/2009 10:47:07		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.36