0076841

SAF-RC-087
618-7 Burial Ground - Soil
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Rick Kerkow	L6-06	KW 4/2/08 Initials/Date
Kathy Wendt	H4-21	KW 4/2/08 Initials/Date

COMMENTS:

SDG **J00164** **SAF-RC-087**

Rad only X Chem only Rad & Chem

X Complete Partial

WASTE SITE: 618-7 Burial Ground/Stockpiles

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APR 1 0 2008
EDMC

Analytical Data Package Prepared For

Washington Closure Hanford

RECEIVED
APR 2008

Analysis Provided By

TestAmerica Richland
2800 George Washington Way
Richland WA, 99354
(509)375-3131
Assigned Laboratory Code: TALR

SDG Number: J00164

Data Package Contains 55 Pages

RC-087

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Washington Closure Hanford
2620 Fermi Avenue
Richland, WA 99354

April 2, 2008

Attention: Joan Kessner

SAF Number	:	RC-087
Date SDG Closed	:	March 18, 2008
Number of Samples	:	Twenty One (21)
Sample Type	:	Soil
SDG Number	:	J00164
Data Deliverable	:	Quick Turn Metals / Summary

CASE NARRATIVE

I. Introduction

Between March 3, 2008 and March 18, 2008 twenty one soils were received at STL Richland (STLR) for ICP metals analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Washington Closure Hanford (WCH) specific ID;

WCH ID#	STLR ID#	MATRIX	DATE OF RECEIPT
J169F1	KHW8T	SOIL	03/03/08
J169F2	KHW8N	SOIL	03/03/08
J169F3	KHW80	SOIL	03/03/08
J169F4	KHW81	SOIL	03/03/08
J16F5	KHW82	SOIL	03/03/08
J16F6	KHW9A	SOIL	03/03/08
J169F7	KH155	SOIL	03/04/08
J169F8	KH156	SOIL	03/04/08
J169F9	KJA0Q	SOIL	03/10/08
J169C9	KJD12	SOIL	03/11/08
J16DB3	KJD2D	SOIL	03/11/08
J16 DB4	KJD2E	SOIL	03/11/08
J16 DB5	KJD2F	SOIL	03/11/08
J16 DB6	KJD2G	SOIL	03/11/08
J16DB7	KJGAN	SOIL	03/12/08
J16DB8	KJGAV	SOIL	03/12/08

J16DB9	KJKCK	SOIL	03/13/08
J16DL4	KJTM6	SOIL	03/18/08
J16DL1	KJTM8	SOIL	03/18/08
J16DL2	KJTM9	SOIL	03/18/08
J16DL3	KJTNA	SOIL	03/18/08

II. Sample Receipt

The sample was 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:

ICP Metals
ICP Metals by method SW-846 6010A

IV. Quality Control

SDG J00164 includes a minimum of one Laboratory Control Samples (LCS) and one method (reagent) blank. A duplicate sample, matrix spike sample and a matrix spike duplicate sample will be analyzed per 20 samples or per month, whichever is more frequent. Any exceptions have been noted in the "Comments" section.

Blanks and LCS are reported in mg/L units, other QC and sample results are reported in the same units.

V. Comments

ICP Metals
ICP Metals by method SW-846 6010A
Eight batches were analyzed in March 2008 for samples with the standard metal request list and add ons aluminum, beryllium, copper, iron, zinc and zirconium.

Batch 8063367:
The LCS, batch blank, sample, sample duplicate, MS, MSD, ICB, ICV, CCB and CCV results are within contractual limits.

Batch 8065344:
The LCS, batch blank, sample, sample duplicate, MS, MSD, ICB, ICV, CCB and CCV results are within contractual limits.

Batch 8071397:
The LCS, batch blank, sample, sample duplicate, MS, MSD, ICB, ICV, CCB and CCV results are within contractual limits.

Washington Closure Hanford
April 2, 2008

Batch 8072461:
The LCS, batch blank, sample, sample duplicate, MS, MSD, ICB, ICV, CCB and CCV results are within contractual limits.

Batch 8072460:
The LCS, batch blank, sample, sample duplicate, MS, MSD, ICB, ICV, CCB and CCV results are within contractual limits.

Batch 8073216:
The LCS, batch blank, sample, sample duplicate, MS, MSD, ICB, ICV, CCB and CCV results are within contractual limits.

Batch 8073550:
The LCS, batch blank, sample, sample duplicate, MS, MSD, ICB, ICV, CCB and CCV results are within contractual limits.

Batch 8079162:
The LCS, batch blank, sample, sample duplicate, MS, MSD, ICB, ICV, CCB and CCV results are within contractual limits.

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

Reviewed and approved:

Sandra Seger
Project Manager

SDG Number: J00164
SAF Number: RC-087
Batch Number: 8063367

Sample Number	Client ID	Aliquant	Aluminum	Arsenic	Barium	Beryllium	Cadmium	Copper	Chromium	Iron	Lead	Selenium	Silver	Zinc
		sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa
J8C030000-367-B		1	0.0046	-0.0011	0.0001	0	0	0.0001	-0.001	0.0022	0.0022	0.00696	-0.0002	0.0067
J8C030000-367-C		1	0.8811	0.9057	0.894	0.9778	0.9296	0.9488	0.9554	1.005	0.921	0.79136	0.8848	0.8969
LCS Recovery %			88.11%	90.57%	89.40%	97.78%	92.96%	94.98%	95.54%	100.50%	92.10%	79.14%	88.48%	89.69%
		g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J8C030134-001	J169F1	0.5209	5293.338	0.173	54.233	0.163	2.899	11.576	9.320	24130.255	3.600	<MDL	<MDL	37.944
J8C030134-001-DUP	J169F1	0.5659	5473.882	0.256	61.433	0.177	2.978	12.052	6.149	23826.648	3.472	<MDL	<MDL	38.620
J8C030134-002	J169F2	0.5857	5561.294	0.239	62.737	0.179	2.809	11.448	8.742	22107.222	3.756	<MDL	<MDL	37.639
J8C030134-003	J169F3	0.5436	5086.231	0.202	49.834	0.156	2.456	9.630	7.671	19220.843	7.487	<MDL	<MDL	57.138
J8C030134-004	J169F4	0.5231	5493.118	<MDL	53.145	0.162	2.839	10.744	5.697	22155.898	5.410	<MDL	<MDL	40.040
J8C030134-005	J169F5	0.5648	5306.613	0.310	56.843	0.168	2.806	11.128	6.436	22326.222	3.568	<MDL	<MDL	37.960
J8C030134-006	J169F6	0.5268	4995.359	<MDL	56.549	0.161	3.018	11.741	7.090	23840.831	3.559	<MDL	<MDL	41.705
J8C030134-001-MS	J169F1	0.5181	n/a	86.547	153.542	92.704	89.037	104.227	95.348	n/a	90.137	73.482	80.554	124.783
% Recovery				86.374%	99.309%	92.541%	86.138%	92.651%	86.028%		86.537%	73.482%	80.554%	86.839%
J8C030134-001-MSD	J169F1	0.5101	n/a	90.198	147.226	96.275	91.835	106.940	97.746	n/a	92.443	76.751	83.621	123.995
% Recovery				90.025%	92.993%	96.112%	88.936%	95.364%	88.425%		88.843%	76.751%	83.621%	86.051%

SDG Number: J00164
SAF Number: RC-087
Batch Number: 8065344

Sample Number	Client ID	Aliquant	Aluminum	Arsenic	Barium	Beryllium	Cadmium	Copper	Chromium	Iron	Lead	Selenium	Silver	Zinc
		sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa
J8C030000-367-B		1.000	0.026	-0.001	0.000	0.000	0.000	0.001	0.000	0.079	0.004	0.005	0.000	0.015
J8C030000-367-C		1.000	0.925	0.943	0.936	1.020	0.972	0.991	0.988	1.086	0.960	0.841	0.925	0.921
LCS Recovery %			0.925	0.943	n 936	1.020	0.972	0.991	0.988	1.086	0.960	0.841	0.925	0.921
		g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J8C050113-001	J169F7	0.527	17028.068	0.578	62.526	0.190	2.418	12.393	5.528	24488.621	4.789	<MDL	<MDL	37.114
J8C050113-001-DUP	J169F7	0.550	54510.996	1.127	56.743	0.191	2.172	19.802	39.686	21725.463	252.635	<MDL	<MDL	37.105
J8C050113-002	J169F8	0.583	127592.624	0.403	17.684	0.069	0.669	153.602	95.197	8861.321	23.105	<MDL	<MDL	204.374
J8C050113-001-MS	J169F7	0.534	n/a	86.819	142.951	91.771	87.970	104.381	92.848	N/A	90.208	74.346	80.640	118.236
% Recovery				0.862	0.804	0.916	0.856	0.920	0.873		0.854	0.743	0.806	0.811
J8C050113-001-MSD	J169F7	0.521	n/a	89.985	147.014	94.968	90.993	107.067	94.767	N/A	93.490	78.308	83.561	121.183
% Recovery				0.894	0.845	0.948	0.886	0.947	0.892		0.867	0.783	0.836	0.841

SDG Number: J00164
SAF Number: RC-087
Batch Number: 8071397

Sample Number	Client ID	Aliquant	Aluminum	Arsenic	Barium	Beryllium	Cadmium	Copper	Chromium	Iron	Lead	Selenium	Silver	Zinc
		sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa
J8C110000-397-B		1.000	0.009	-0.003	0.000	0.000	0.0092	0.001	0.000	0.017	0.0037	0.004	0.000	0.008
J8C110000-397-C		1.000	0.897	0.920	0.916	1.000	0.8966	0.966	0.964	1.053	0.9425	0.826	0.904	0.920
LCS Recovery %			0.897	0.920	0.916	1.000	0.897	0.966	0.964	1.053	0.943	0.826	0.904	0.920
		g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J8C100220-001	J169F9	0.558	2244.715156	0.134360444	134.6291852	<MDL	1.827302042	1573.808671	14.25116446	12629.88176	13.33751344	<MDL	<MDL	112.1461842
J8C100220-001-DUP	J169F9	0.531	2396.382818	0.69708104	129.8040693	<MDL	2.694048722	914.9397136	14.42162773	19830.74604	16.24905803	<MDL	<MDL	138.9412208
J8C100220-001-MS	J169F9	0.536	n/a	85.71029083	180.0894855	91.10738255	87.79828486	N/A	110.551827	N/A	100.3914989	74.28598061	81.19873229	226.6984952
% Recovery				85.576	45.460	91.107	85.971		96.301		87.054	74.286	81.199	114.550
J8C100220-001-MSD	J169F9	0.514	n/a	89.33437135	269.1708836	95.36784741	91.27062254	N/A	107.045543	N/A	104.2234332	77.87757882	85.67536006	271.3117945
% Recovery				89.200	134.542	95.368	89.444		92.794		90.688	77.878	85.675	159.166

SDG Number: J00164
SAF Number: RC-087
Batch Number: 8072461

Sample Number	Client ID	Aliquant	Aluminum	Arsenic	Barium	Beryllium	Cadmium	Copper	Chromium	Iron	Lead	Selenium	Silver	Zinc
		sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa
J8C120000-461-B		1.000	0.026	-0.004	0.000	0.000	0.0001	0.001	0.000	0.012	0.003	0.002	-0.001	0.013
J8C120000-461-C		1.000	0.925	0.924	0.942	0.988	0.9445	0.996	0.963	1.050	0.9348	0.822	0.906	0.888
LCS Recovery %			0.925	0.924	0.942	0.988	0.945	0.996	0.963	1.050	0.935	0.822	0.906	0.888
		g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J8C110311-001	J169C9	0.5086	17410.54	0.344082	97.92568	0.294927	2.909949	27.53637	16.13252	24085.73	126.917	<MDL	<MDL	101.8482
J8C110311-001-DUP	J169C9	0.5988	16983.97	0.350701	95.44088	0.367401	2.722111	23.35504	19.59753	22202.74	256.346	<MDL	<MDL	122.996
J8C110311-001-MS	J169C9	0.6019	n/a	77.69563	174.5307	81.40056	78.0196	104.8347	98.27214	N/A	457.1357	67.04685	72.80279	167.1374
% Recovery				77.352	76.605	81.106	75.110	77.298	82.140		330.219	67.047	72.803	65.289
J8C110311-001-MSD	J169C9	0.5113	n/a	90.37747	185.5075	95.46255	90.98377	121.8463	111.4805	N/A	398.1029	78.25543	85.69333	189.3213
% Recovery				90.027	90.067	95.095	88.262	98.491	91.883		141.757	78.255	85.693	66.325

SDG Number: J00164
SAF Number: RC-087
Batch Number: 8072460

Sample Number	Client ID	Aliquant	Aluminum	Arsenic	Barium	Berylium	Cadmium	Copper	Chromium	Iron	Lead	Selenium	Silver	Zinc
		sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa
J8C120000-460-B		1.000	0.017	-0.002	0.000	0.000	0.0001	0.000	-0.001	0.018	0.0036	0.002	0.000	0.003
J8C120000-460-C		1.000	0.906	0.921	0.943	0.998	0.9526	1.006	0.975	1.062	0.9451	0.810	0.913	0.912
LCS Recovery %			0.906	0.921	0.943	0.998	0.953	1.006	0.975	1.062	0.945	0.810	0.913	0.912
		g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J8C110313-001	J16DB3	0.5291	4872.425	0.529201	50.21735	0.14175	2.249102	10.80136	5.934606	20402.57	3.279153	2.251937	<MDL	31.56303
J8C110313-001-DUP	J16DB3	0.5419	5152.242	<MDL	56.00664	0.156856	2.555822	12.27164	6.237313	22799.41	3.82912	<MDL	<MDL	37.83908
J8C110313-002	J16DB4	0.5735	5435.048	0.479512	52.16216	0.16565	2.353967	9.965126	7.358326	20104.62	3.931997	<MDL	<MDL	36.8265
J8C110313-003	J16DB5	0.5542	10366.29	0.839047	80.62071	0.198484	2.697582	17.51173	11.27752	23186.58	35.9437	<MDL	<MDL	86.69253
J8C110313-004	J16DB6	0.5521	22794.78	0.380366	86.77776	0.253577	2.59011	27.44974	22.14273	20403.91	2136.388	<MDL	<MDL	115.6493
J8C110313-001-MS	J16DB3	0.6033	n/a	73.91845	136.9965	78.65075	75.67545	94.3146	81.6675	N/A	77.03464	62.80126	69.72485	107.9065
% Recovery				73.389	86.779	78.509	73.426	83.513	75.733		73.755	62.801	69.725	76.343
J8C110313-001-MSD	J16DB3	0.5178	n/a	86.95442	150.1545	92.92198	89.21398	108.6327	95.20085	N/A	90.46929	75.18057	82.61877	119.7374
% Recovery				86.954	99.937	92.780	86.965	97.831	89.266		87.190	75.181	82.619	88.174

SDG Number: J00164
SAF Number: RC-087
Batch Number: 8073216

Sample Number	Client ID	Aliquant	Aluminum	Arsenic	Barium	Berylium	Cadmium	Copper	Chromium	Iron	Lead	Selenium	Silver	Zinc
		sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa
J8C130000-216-B		1.000	0.007	-0.003	0.000	0.000	0	0.000	-0.001	0.019	0.0032	0.005	0.000	0.010
J8C130000-216-C		1.000	0.883	0.904	0.905	0.986	0.938	0.959	0.951	1.016	0.9306	0.816	0.895	0.898
LCS Recovery %			0.883	0.904	0.905	0.986	0.938	0.959	0.951	1.016	0.931	0.816	0.895	0.898
		g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J8C120315-001	J16DB7	0.50	6438.67	0.33	68.43	0.22	2.97	31.17	21.55	21804.06	48.61	<MDL	<MDL	228.30
J8C120315-001-DUP	J16DB7	0.52	18096.25	0.41	110.91	0.43	3.16	27.14	22.77	25130.99	36.44	<MDL	<MDL	142.93
J8C120315-002	J16DB8	0.58	5700.12	0.07	64.75	0.13	2.86	27.65	21.35	19293.90	262.44	<MDL	<MDL	208.50
J8C120315-001-MS	J16DB7	0.51	n/a	86.86	151.37	92.32	88.82	128.41	168.68	N/A	147.41	75.29	81.72	270.08
% Recovery				86.53	82.94	92.10	85.85	97.24	147.13		98.80	75.29	81.72	41.79
J8C120315-001-MSD	J16DB7	0.59	n/a	75.13	137.49	80.59	77.50	116.12	95.59	N/A	93.72	65.08	70.62	215.01
% Recovery				74.72	26.58	80.16	74.33	88.98	72.82		57.28	65.08	70.62	72.09

SDG Number: J00164
SAF Number: RC-087
Batch Number: 8073550

Sample Number	Client ID	Aliquant	Aluminum	Arsenic	Barium	Berylium	Cadmium	Copper	Chromium	Iron	Lead	Selenium	Silver	Zinc
		sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa
J8C130000-550-B		1.000	0.003	-0.003	0.000	0.000	0.0002	0.000	-0.001	0.033	0.003	0.002	0.000	0.002
J8C130000-550-C		1.000	0.888	0.919	0.920	0.986	0.9453	0.976	0.979	1.065	0.9404	0.805	0.906	0.908
LCS Recovery %			88.800%	91.890%	92.010%	98.550%	94.530%	97.560%	97.920%	106.500%	94.040%	80.511%	90.570%	90.820%
		g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J8C130375-001	J16DB9	0.5658	6278.720	4.719	124.956	0.239	2.881	100.389	20.732	21597.738	10.631	<MDL	<MDL	89.431
J8C130375-001-DUP	J16DB9	0.5626	5343.939	0.471	82.794	0.196	4.506	56.079	17.508	34607.181	12.922	<MDL	<MDL	106.114
J8C130375-001-MS	J16DB9	0.5366	n/a	86.946	176.854	92.136	88.129	167.816	103.429	N/A	95.322	73.480	82.100	167.257
% Recovery				82.227	51.898	91.897	85.248	67.427	82.697		84.691	73.480	82.100	77.826
J8C130375-001-MSD	J16DB9	0.5245	n/a	88.942	165.968	94.051	90.067	213.060	150.524	N/A	101.049	75.223	87.159	190.181
% Recovery				84.223	41.012	93.813	87.186	112.671	129.793		90.418	75.223	87.159	100.750

SDG Number: J00164
SAF Number: RC-087
Batch Number: 8079162

Sample Number	Client ID	Aliquant	Aluminum	Arsenic	Barium	Berylium	Cadmium	Copper	Chromium	Iron	Lead	Selenium	Silver	Zinc
		sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa	mg/sa
J8C190000-162-B		1.000	0.010	0.000	0.000	0.000	0.0001	0.000	0.000	0.041	0.0021	0.003	0.000	0.010
J8C190000-162-C		1.000	0.897	0.935	0.958	0.972	0.9357	1.011	0.965	1.102	0.9289	0.799	0.900	0.904
LCS Recovery %			89.680%	93.500%	95.760%	97.220%	93.570%	101.100%	96.460%	110.200%	92.890%	79.897%	89.980%	90.370%
		g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J8C190113-001	J16DL1	0.486	4722.394	<MDL	57.968	<MDL	2.663	12.256	8.256	22424.429	3.156	<MDL	<MDL	37.240
J8C190113-001-DUP	J16DL1	0.519	5031.774	0.298	57.895	<MDL	2.831	11.978	5.228	26073.561	3.534	<MDL	<MDL	38.947
J8C190113-002	J16DL2	0.531	4973.625	0.433	56.792	<MDL	2.016	9.495	5.501	17586.662	6.547	<MDL	<MDL	35.183
J8C190113-003	J16DL3	0.512	15322.266	0.918	162.402	<MDL	3.057	36.240	21.592	24433.594	222.266	<MDL	<MDL	291.895
J8C190113-004	J16DL4	0.505	108600.872	0.684	1.665	<MDL	37.178	4027.943	34.750	1539.834	33.442	0.627	0.505	541.221
J8C190113-001-MS	J16DL1	0.528	n/a	86.659	143.453	89.170	85.854	106.500	92.401	N/A	86.905	71.429	79.685	117.491
% Recovery				86.659	85.484	89.170	83.191	94.244	84.145		83.749	71.429	79.685	80.251
J8C190113-001-MSD	J16DL1	0.519	n/a	88.213	147.920	90.591	87.442	108.725	94.434	N/A	88.444	72.723	81.096	121.437
% Recovery				88.213	89.952	90.591	84.779	96.469	86.178		85.287	72.723	81.096	84.196

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-087-019	Page 1 of 2

Collector: RB Kerkow / B Lawrence	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Project Designation: 618-7 Burial Ground - Soil	Sampling Location: 618-7 Stockpiles		SAF No.: RC-087
Ice Chest No.	Field Logbook No.: EL-1359-12	COA: RG61872600	Method of Shipment: Government Vehicle
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.		Bill of Lading/Air Bill No.

Price Code: 2A

Data Turnaround: 24 Hours

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Radiological and Beryllium contamination

Special Handling and/or Storage

None

Preservation	None RTC 2/27/08											
Type of Container	G											
No. of Container(s)	1											
Volume	60mL											
SAMPLE ANALYSIS	See item (1) in Special Instructions.											

Sample No.	Matrix *	Sample Date	Sample Time									
~~J169F0~~	~~SOIL~~											
J169F1 KHW8T	SOIL	2/27/08	1310	X							SEG.	001
J169F2 KHW8W	SOIL		1320	X							"	002
J169F3 KHW80	SOIL		1335	X							"	003
J169F4 KHW81	SOIL	2/27/08	1355	X							"	004

RTC 2/27/08

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
B Lawrence	1555 2-27-08	RT Coffman / RT Coffman	1600 2/27/08
RT Coffman / RT Coffman	1630 2/27/08	MZ MStankovich	1630 2/27/08
MZ MStankovich	0905 3/3/08	RP LLANE	0905 3-3-08

SPECIAL INSTRUCTIONS

None

(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}; Metals by ICP - 6010 - Quick Turn (Add On) {Aluminum, Beryllium, Copper, Iron, Zinc, Zirconium}

J8C030134
J00164
DUE 3-4-08

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

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

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Washington Closure Hanford

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

RC-087-019

Collector	RB Kerkow / B Lawrence
Company Contact	Joan Kessner
Telephone No.	509-375-4688
Project Coordinator	KESSNER, JH
Price Code	2A
Data Turnaround	24 Hours
Project Designation	618-7 Burial Ground - Soil
Sampling Location	618-7 Stockpiles
SAF No.	RC-087
Ice Chest No.	
Field Logbook No.	EL-1359-12
COA	RG61872600
Method of Shipment	Government Vehicle
Shipped To	TestAmerica Incorporated, Richland
Offsite Property No.	
Bill of Lading/Air Bill No.	

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Radiological and Beryllium contamination

Special Handling and/or Storage

None

SAMPLE ANALYSIS

Preservation	None RTC 2/27/08												
Type of Container	2G												
No. of Container(s)	1												
Volume	60mL												
	See item (1) in Special Instructions.												
Sample No.	Matrix *	Sample Date	Sample Time										
J169F5 KHW82	SOIL	2/27/08	1410	X									
J169F6 KHW9A	SOIL	2/27/08	1430	X								SEG	005
~~J169F7~~	~~SOIL~~											SEG.	006
~~J169F8~~	~~SOIL~~												
~~J169F9~~	~~SOIL~~												

4/27/08

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
B Lawrence	1555 2-27-08	RTCOFFMAN / RTCoffman	1600 2/27/08
RTCOFFMAN / RTCoffman	1630 2/27/08	mstankovich	1630 2/27/08
mstankovich	3/3/08 0208	RJ LANE 7AL-IL	3-3-08 0905

SPECIAL INSTRUCTIONS

None

(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}; Metals by ICP - 6010 - Quick Turn (Add On) {Aluminum, Beryllium, Copper, Iron, Zinc, Zirconium}

J8C030134
J00164
DUE 3-4-08

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

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Analysis Report for RCF19163

J169D6 SAF:RC-087 FF2/618-7 STOCKPILES

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF19163
Sample Description	: J169D6 SAF:RC-087 FF2/618-7 STOCKPILES
Sample Type	: 80 gram pill box
Unit	:
Sample Point	
Sample Size	: 7.300E+01 grams
Facility	: Default
Sample Taken On	: 2/27/2008 2:30:00PM
Acquisition Started	: 2/28/2008 9:18:31AM
Procedure	: 80 gram pill box
Operator	: RCT
Detector Name	: REGIE02
Geometry	: 80 Gram Pill Box
Live Time	: 3600.0 seconds
Real Time	: 3600.3 seconds
Dead Time	: 0.01 %
Peak Locate Threshold	: 3.00
Peak Locate Range (in channels)	: 80 - 4096
Peak Area Range (in channels)	: 80 - 4096
Identification Energy Tolerance	: 1.300 keV
Energy Calibration Used Done On	: 1/10/2008
Efficiency Calibration Used Done On	: 1/11/2008
Efficiency Calibration Description	: 80g Pill Box 71385A-238 1/10/2008
Sample Number	: 17596

INTERFERENCE CORRECTED REPORT

Nuclide Name		Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40		1.000	1.34E+01	2.50E+00	
~~EU-155~~		~~0.365~~			
PB-212		0.998	8.50E-01	1.41E-01	
RA-226d		0.678	3.92E-01	1.29E-01	
TH-232d		0.999	6.52E-01	1.49E-01	
U-235		0.546	1.12E-01	9.71E-02	
U-238d	@	0.999	1.16E+00	1.04E+00	

Analysis Report for RCF19163

J169D6 SAF:RC-087 FF2/618-7 STOCKPILES

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity
d = identified by daughter product energy lines assumed to be in secular equilibrium
Errors quoted at 2.000 sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 2/28/2008 10:18:45AM
Peak Locate From Channel : 80
Peak Locate To Channel : 4096

Peak No.		Energy (keV)	Peak Rate (CPS)	Peak Rate (%) Uncertainty
M	4	84.40 NP	7.08E-03	41.64

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

NP = No Peak
UK = Unknown

NUCLIDE MDA REPORT

Nuclide Library Used : \\GOZER\ApexRoot\Default\Library\RCF UNKNOWN.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	K-40	1460.83	*	10.67	1.34E+01	2.10E+00	2.10E+00
	CO-60	1173.24		99.90	9.56E-02	2.10E-01	2.49E-01
		1332.50		99.98	7.38E-02		2.10E-01
	NB-94	702.63		99.81	-9.36E-03	1.53E-01	1.53E-01
		871.10		99.89	-6.52E-04		1.77E-01
	AG-108m	433.94		90.50	3.63E-02	1.35E-01	1.35E-01
		614.28		89.80	-1.56E-02		2.23E-01
		722.94		90.80	9.24E-02		1.87E-01
	CS-137	661.66		85.21	-3.99E-02	1.59E-01	1.59E-01
	EU-152	40.12		38.40	-1.42E-01	1.80E-01	1.80E-01
		45.38		11.10	1.31E-01		6.94E-01
		121.78		28.40	-5.72E-02		2.51E-01
		244.69		7.51	-5.29E+00		1.39E+00
		344.29		26.60	1.01E-02		4.10E-01
		411.12		2.23	3.72E-01		5.12E+00
		443.89		2.80	9.05E-01		4.17E+00
		778.92		12.98	-1.28E+00		1.16E+00

J169D6 SAF:RC-087 FF2/618-7 STOCKPILES

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
		867.38		4.21	1.06E+00		4.49E+00
		964.11		14.50	-1.46E-01		1.61E+00
		1085.89		9.94	-7.33E-01		1.92E+00
		1089.71		1.71	-5.02E-01		1.14E+01
		1112.07		13.60	-2.47E+00		1.50E+00
		1212.93		1.40	2.56E+00		1.56E+01
		1299.16		1.63	5.91E+00		1.35E+01
		1408.00		20.80	-2.57E-01		7.96E-01
	EU-154	123.10		40.50	-7.71E-03	1.78E-01	1.78E-01
		723.36		19.70	3.49E-01		8.63E-01
		873.23		11.45	3.15E-01		1.55E+00
		1004.78		17.90	9.61E-02		1.13E+00
		1274.54		35.50	-1.88E-01		6.18E-01
	EU-155	86.54	*	34.00	9.43E-02	1.62E-01	1.62E-01
		105.31		20.60	-2.26E-01		3.54E-01
+	PB-212	74.81	*	10.50	9.63E-01	3.08E-01	5.34E-01
		77.11	*	17.70	9.12E-01		3.08E-01
		87.19	*	6.27	5.11E-01		8.80E-01
+	RA-226d	186.11	*	3.28	2.21E+00	2.52E-01	2.33E+00
		241.92		7.46	-2.85E+00		1.93E+00
		295.09	*	19.20	2.20E-01		4.19E-01
		351.87	*	37.10	4.31E-01		2.52E-01
		609.31	*	46.10	4.50E-01		2.65E-01
		1120.27		15.00	1.44E+00		1.69E+00
		1764.49		15.90	1.65E+00		1.68E+00
+	TH-232d	238.58	*	43.60	5.31E-01	1.54E-01	1.54E-01
		338.42	*	12.40	5.90E-01		6.73E-01
		583.02	*	30.87	8.03E-01		3.19E-01
		911.16	*	29.00	5.35E-01		5.26E-01
		968.97	*	17.40	8.74E-01		7.03E-01
+	U-235	143.79		10.50	2.18E-01	1.44E-01	7.70E-01
		163.38		4.70	9.15E-01		2.02E+00
		185.74	*	53.00	1.36E-01		1.44E-01
		205.33		4.70	1.22E+00		2.00E+00
+	U-238d	63.29	*	3.80	1.16E+00	9.97E-01	1.67E+00
		92.56	*	5.41	8.90E-01		9.97E-01
	AM-241	59.54		35.70	-3.36E-01	2.38E-01	2.38E-01
	CM-243	99.52		14.40	-4.08E-01	3.20E-01	5.19E-01
		103.73		23.00	2.85E-02		3.20E-01
		116.93		8.32	-1.06E-01		8.48E-01
		228.19		10.56	-4.15E-01		8.71E-01
		277.60		14.00	-6.14E-01		6.67E-01
	CM-245	99.52		21.10	-2.79E-01	2.19E-01	3.54E-01
		103.73		33.60	1.95E-02		2.19E-01
		116.93		12.20	-7.23E-02		5.78E-01
		174.94		9.50	-4.86E-01		9.02E-01

Analysis Report for RCF19163

J169D6 SAF:RC-087 FF2/618-7 STOCKPILES

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

Reviewed and Approved:

DAVID M. BREHM

(printed name)

FEB 28 2008

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

DUE 3-4-08

Date/Time Received: 3-3-08 0905 GM Screen Result 0.3 K

Client: WCH SDG #: J00164 NA[ ] SAF #: RC-087 NA [ ]

Work Order Number: J8C030134 Chain of Custody # RC-087-019

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 6
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ✓ Custody Seals
   - ____ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [✓] SOIL pH<2 [ ] pH>2 [ ] pH>9 [ ] Amount HNO_3 Added _____
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 3-3-08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

Washington Closure Hanford

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

RC-087-019 | Page 2 of 2

Collector: RB Kerkow / B Lawrence	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Project Designation: 618-7 Burial Ground - Soil	Sampling Location: 618-7 Stockpiles		SAF No.: RC-087
Ice Chest No.	Field Logbook No.: EL-1359-12	COA: RG61872600	Method of Shipment: Government Vehicle
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.		Bill of Lading/Air Bill No.

Price Code: 2A

Data Turnaround: 24 Hours

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Radiological and Beryllium contamination

Special Handling and/or Storage

None

SAMPLE ANALYSIS

Preservation	None													
Type of Container	P													
No. of Container(s)	1													
Volume	60mL													
	See item (1) in Special Instructions.													
Sample No.	Matrix *	Sample Date	Sample Time											
~~J169F5~~	~~SOIL~~													
~~J169F6~~	~~SOIL~~													
J169F7	SOIL	2/28/08	1450	X										
~~J169F8~~	~~SOIL~~													
~~J169F9~~	~~SOIL~~												WHT	POWDER

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
BLawrence	2/25/08 1600	RTCoffman / RTCoffman	2/28/08 1600
RTCoffman / RTCoffman	2/28/08 1645	REFER # 1A	2/28/08 1645
1060/1A	3/4/08 1500	mstankovich	3/4/08 1500
mstankovich	3/4/08 1535	[illegible]	3/4/08 1535

SPECIAL INSTRUCTIONS

None

(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}; Metals by ICP - 6010 - Quick Turn (Add On) {Aluminum, Beryllium, Copper, Iron, Zinc, Zirconium}

J8C050113
J00164
DUE 3-5-08
KH155

7065344

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

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Washington Closure Hanford

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

RC-087-019 | Page 2 of 2

Collector: RB Kerkow / B Lawrence	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Project Designation: 618-7 Burial Ground - Soil	Sampling Location: 618-7 Stockpiles		SAF No.: RC-087
Ice Chest No.	Field Logbook No.: EL-1359-12	COA: RG61872600	Method of Shipment: Government Vehicle
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.		Bill of Lading/Air Bill No.

Price Code: 2A

Data Turnaround: 24 Hours

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Radiological and Beryllium contamination

Special Handling and/or Storage

None

SAMPLE ANALYSIS

Preservation	None												
Type of Container	P												
No. of Container(s)	1												
Volume	60mL												
	See item (1) in Special Instructions												

Sample No.	Matrix *	Sample Date	Sample Time										
~~J169F5~~	~~SOIL~~												
~~J169F6~~	~~SOIL~~												
~~J169F7~~	~~SOIL~~												
J169F8	SOIL	3/3/08	1000	X									
~~J169F9~~	~~SOIL~~												

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
BLawrence	11:30 3-3-08	RTCoffman / RTCoffman	1130 3/3/08
RT Coffman / RTCoffman	1400 3/3/08	RETER #1A	1400 3/3/08
1060/1A	3/4/08 1500	mstankovich	1500 3/4/08
WCH / mstankovich	1535 3/4/08	[illegible]	1535 3/4/08

SPECIAL INSTRUCTIONS

None

(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}; Metals by ICP - 6010 - Quick Turn (Add On) {Aluminum, Beryllium, Copper, Iron, Zinc, Zirconium}

J8C050113
J00164
DUE 3-5-08
KH156

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

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Analysis Report for RCF19169

J169D7 SAF-RC-087-018 FF2 618-7 STOCKPILES

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF19169
Sample Description	: J169D7 SAF-RC-087-018 FF2 618-7 STOCKPILES
Sample Type	: 80 gram pill box
Unit	:
Sample Point	
Sample Size	: 6.700E+01 grams
Facility	: Default
Sample Taken On	: 2/28/2008 2:50:00PM
Acquisition Started	: 3/3/2008 9:09:01AM
Procedure	: 80 gram pill box
Operator	: RCT
Detector Name	: BEGEINSP
Geometry	: 80 Gram Pill Box
Live Time	: 3600.0 seconds
Real Time	: 3600.5 seconds
Dead Time	: 0.01 %
Peak Locate Threshold	: 3.00
Peak Locate Range (in channels)	: 80 - 4096
Peak Area Range (in channels)	: 80 - 4096
Identification Energy Tolerance	: 1.300 keV
Energy Calibration Used Done On	: 1/15/2008
Efficiency Calibration Used Done On	: 11/13/2007
Efficiency Calibration Description	: 80g Pill box 11-13-2007
Sample Number	: 17638

INTERFERENCE CORRECTED REPORT

Nuclide Name		Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40		0.999	9.02E+00	2.27E+00	
PB-212		0.706	5.17E-01	1.67E-01	
TH-232d		0.456	4.16E-01	1.21E-01	
U-235		1.000	2.26E+00	1.97E-01	
U-238d	@	1.000	3.96E+01	3.37E+00	

Analysis Report for RCF19169

J169D7 SAF-RC-087-018 FF2 618-7 STOCKPILES

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity
d = identified by daughter product energy lines assumed to be in secular equilibrium
Errors quoted at 2.000 sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 3/3/2008 10:09:08AM
Peak Locate From Channel : 80
Peak Locate To Channel : 4096

Peak No.	Energy (keV)	Peak Rate (CPS)	Peak Rate (%) Uncertainty
1	53.27 NP	3.27E-02	29.27
5	84.16 Th-234	4.52E-02	23.98
7	98.43 NP	3.61E-02	22.84
8	112.61 NP	2.16E-02	38.06
14	295.22 Pb-214	1.28E-02	33.17
15	351.82 Pb-214	1.11E-02	34.08

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

NP = No Peak
UK = Unknown

NUCLIDE MDA REPORT

Nuclide Library Used : \\GOZER\ApexRoot\Default\Library\RCF UNKNOWN.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	K-40	1460.83	*	10.67	9.02E+00	1.99E+00	1.99E+00
	CO-60	1173.24		99.90	-9.10E-02	2.11E-01	2.11E-01
		1332.50		99.98	9.64E-02		2.16E-01
	NB-94	702.63		99.81	7.51E-03	1.61E-01	1.61E-01
		871.10		99.89	-5.58E-02		1.94E-01
	AG-108m	433.94		90.50	-9.03E-03	1.21E-01	1.21E-01
		614.28		89.80	-1.56E-01		1.94E-01
		722.94		90.80	-1.20E-01		1.88E-01
	CS-137	661.66		85.21	3.89E-02	1.46E-01	1.46E-01
	EU-152	40.12		38.40	-1.99E-02	1.72E-01	1.72E-01
		45.38		11.10	4.76E-01		7.35E-01
		121.78		28.40	4.31E-02		2.46E-01
		244.69		7.51	-4.64E-01		1.06E+00
		344.29		26.60	7.35E-02		3.74E-01
		411.12		2.23	2.09E+00		4.96E+00

Analysis Report for RCF19169

J169D7 SAF-RC-087-018 FF2 618-7 STOCKPILES

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
		443.89		2.80	2.62E+00		4.02E+00
		778.92		12.98	-1.98E-01		1.24E+00
		867.38		4.21	1.60E+00		4.72E+00
		964.11		14.50	-5.23E-02		1.28E+00
		1085.89		9.94	2.33E-01		1.80E+00
		1089.71		1.71	3.19E+00		1.08E+01
		1112.07		13.60	-1.24E+00		1.46E+00
		1212.93		1.40	5.98E+00		1.81E+01
		1299.16		1.63	3.42E+00		1.33E+01
		1408.00		20.80	6.40E-01		1.23E+00
	EU-154	123.10		40.50	1.40E-01	1.77E-01	1.77E-01
		723.36		19.70	-3.37E-01		8.76E-01
		873.23		11.45	-2.57E-01		1.75E+00
		1004.78		17.90	1.91E+00		1.76E+00
		1274.54		35.50	-2.82E-01		4.82E-01
	EU-155	86.54		34.00	1.85E-02	2.97E-01	2.98E-01
		105.31		20.60	-6.01E-02		2.97E-01
+	PB-212	74.81	*	10.50	7.42E-01	4.80E-01	7.25E-01
		77.11	*	17.70	4.37E-01		4.80E-01
		87.19		6.27	-1.44E+00		1.46E+00
	RA-226d	186.11		3.28	3.65E+01	3.53E-01	6.09E+00
		241.92		7.46	3.73E-01		1.41E+00
		295.09		19.20	7.71E-01		5.76E-01
		351.87		37.10	3.96E-01		3.53E-01
		609.31		46.10	5.37E-01		4.42E-01
		1120.27		15.00	9.03E-01		1.57E+00
		1764.49		15.90	7.17E-01		1.42E+00
+	TH-232d	238.58	*	43.60	3.75E-01	2.01E-01	2.01E-01
		338.42		12.40	-3.79E-01		8.32E-01
		583.02	*	30.87	5.26E-01		2.93E-01
		911.16		29.00	5.24E-01		8.91E-01
		968.97		17.40	7.83E-01		1.18E+00
+	U-235	143.79	*	10.50	1.97E+00	1.54E-01	7.93E-01
		163.38	*	4.70	1.63E+00		1.52E+00
		185.74	*	53.00	2.31E+00		1.54E-01
		205.33	*	4.70	2.74E+00		1.30E+00
+	U-238d	63.29	*	3.80	3.96E+01	2.38E+00	2.72E+00
		92.56	*	5.41	3.54E+01		2.38E+00
	AM-241	59.54		35.70	-2.57E-02	2.79E-01	2.79E-01
	CM-243	99.52		14.40	-1.05E-01	2.61E-01	5.48E-01
		103.73		23.00	1.02E-01		2.61E-01
		116.93		8.32	-5.11E-01		8.41E-01
		228.19		10.56	-1.71E-01		7.28E-01
		277.60		14.00	-9.92E-02		6.38E-01
	CM-245	99.52		21.10	-7.16E-02	1.79E-01	3.74E-01
		103.73		33.60	7.01E-02		1.79E-01
		116.93		12.20	-3.48E-01		5.73E-01
		174.94		9.50	-2.37E-01		7.99E-01

Analysis Report for RCF19169

J169D7 SAF-RC-087-018 FF2 618-7 STOCKPILES

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

Reviewed and Approved:

DAVID M. BREHM

(printed/sign/date)

MAR 04 2008

Analysis Report for RCF19172

J169D8 SAF:RC-087 FF2/618-7 Stockpiles Soil Sample

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF19172
Sample Description	: J169D8 SAF:RC-087 FF2/618-7 Stockpiles Soil Sample
Sample Type	: 50 gram pill box
Unit	:
Sample Point	
Sample Size	: 4.900E+01 grams
Facility	: Default
Sample Taken On	: 3/3/2008 10:00:00AM
Acquisition Started	: 3/3/2008 2:30:13PM
Procedure	: 50 gram pill box
Operator	: RCT
Detector Name	: BEGEINSP
Geometry	: 50 ml Pill Box
Live Time	: 3600.0 seconds
Real Time	: 3600.4 seconds
Dead Time	: 0.01 %
Peak Locate Threshold	: 3.00
Peak Locate Range (in channels)	: 80 - 4096
Peak Area Range (in channels)	: 80 - 4096
Identification Energy Tolerance	: 1.300 keV
Energy Calibration Used Done On	: 1/15/2008
Efficiency Calibration Used Done On	: 10/30/2007
Efficiency Calibration Description	: 50 ml Pill Box 10-30-2007
Sample Number	: 17642

INTERFERENCE CORRECTED REPORT

Nuclide Name		Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
U-235		0.796	6.23E-01	1.28E-01	
U-238d	@	1.000	1.06E+01	1.46E+00	

Analysis Report for RCF19172

J169D8 SAF:RC-087 FF2/618-7 Stockpiles Soil Sample

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity
d = identified by daughter product energy lines assumed to be in secular equilibrium
Errors quoted at 2.000 sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 3/3/2008 3:30:18PM
Peak Locate From Channel : 80
Peak Locate To Channel : 4096

Peak No.	Energy (keV)	Peak Rate (CPS)	Peak Rate (%) Uncertainty
2	77.10 Pb-212	1.22E-02	52.37
6	238.60 Pb-212	1.26E-02	23.27

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

NP = No Peak
UK = Unknown

NUCLIDE MDA REPORT

Nuclide Library Used : \\GOZER\ApexRoot\Default\Library\RCF UNKNOWN.NLB

Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
K-40	1460.83	10.67	4.21E+00	4.42E+00	4.42E+00
CO-60	1173.24	99.90	5.80E-02	2.43E-01	2.45E-01
	1332.50	99.98	-1.22E-01		2.43E-01
NB-94	702.63	99.81	-2.18E-02	1.64E-01	1.92E-01
	871.10	99.89	-1.63E-01		1.64E-01
AG-108m	433.94	90.50	-3.64E-02	1.18E-01	1.18E-01
	614.28	89.80	-1.78E-01		2.10E-01
	722.94	90.80	-2.01E-01		1.65E-01
CS-137	661.66	85.21	9.76E-02	2.16E-01	2.16E-01
EU-152	40.12	38.40	-1.62E-02	1.82E-01	1.82E-01
	45.38	11.10	2.87E-01		6.21E-01
	121.78	28.40	3.51E-02		2.06E-01
	244.69	7.51	1.40E+00		1.19E+00
	344.29	26.60	-1.92E-01		3.77E-01
	411.12	2.23	-2.10E+00		4.64E+00
	443.89	2.80	2.51E+00		4.69E+00
	778.92	12.98	-4.33E-01		1.07E+00
	867.38	4.21	6.54E-01		4.51E+00

J169D8 SAF:RC-087 FF2/618-7 Stockpiles Soil Sample

Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	964.11		14.50	-3.56E-01		1.47E+00
	1085.89		9.94	-1.98E+00		1.78E+00
	1089.71		1.71	4.78E+00		1.36E+01
	1112.07		13.60	1.05E-01		1.53E+00
	1212.93		1.40	-5.94E-01		1.81E+01
	1299.16		1.63	-1.25E+00		1.45E+01
	1408.00		20.80	6.35E-01		1.39E+00
EU-154	123.10		40.50	4.55E-02	1.45E-01	1.45E-01
	723.36		19.70	-9.08E-01		7.81E-01
	873.23		11.45	3.46E-01		1.63E+00
	1004.78		17.90	4.97E-01		1.18E+00
	1274.54		35.50	-2.47E-01		6.52E-01
EU-155	86.54		34.00	-7.20E-02	1.79E-01	1.79E-01
	105.31		20.60	-4.86E-02		2.21E-01
PB-212	74.81		10.50	-4.90E-02	3.93E-01	6.08E-01
	77.11		17.70	5.87E-01		3.93E-01
	87.19		6.27	-1.33E+00		9.25E-01
RA-226d	186.11		3.28	1.02E+01	3.64E-01	4.13E+00
	241.92		7.46	7.74E-02		1.37E+00
	295.09		19.20	4.94E-01		5.58E-01
	351.87		37.10	3.16E-01		3.64E-01
	609.31		46.10	3.84E-01		4.56E-01
	1120.27		15.00	1.81E-01		1.73E+00
	1764.49		15.90	1.22E+00		2.30E+00
TH-232d	238.58		43.60	1.06E-01	2.39E-01	2.39E-01
	338.42		12.40	4.09E-01		8.69E-01
	583.02		30.87	3.42E-01		5.13E-01
	911.16		29.00	3.79E-01		9.56E-01
	968.97		17.40	1.25E-01		1.30E+00
U-235	143.79	*	10.50	4.56E-01	1.68E-01	6.42E-01
	163.38		4.70	6.42E-01		1.59E+00
	185.74	*	53.00	6.42E-01		1.68E-01
	205.33		4.70	7.23E-02		1.78E+00
U-238d	63.29	*	3.80	1.06E+01	1.53E+00	1.58E+00
	92.56	*	5.41	1.04E+01		1.53E+00
AM-241	59.54		35.70	7.06E-02	1.79E-01	1.79E-01
CM-243	99.52		14.40	1.48E-01	2.03E-01	3.67E-01
	103.73		23.00	7.83E-02		2.03E-01
	116.93		8.32	-7.98E-01		6.81E-01
	228.19		10.56	-1.11E-01		6.43E-01
	277.60		14.00	3.32E-01		6.52E-01
CM-245	99.52		21.10	1.01E-01	1.39E-01	2.50E-01
	103.73		33.60	5.36E-02		1.39E-01
	116.93		12.20	-5.44E-01		4.64E-01
	174.94		9.50	1.76E-01		7.41E-01

Analysis Report for RCF19172

J169D8 SAF:RC-087 FF2/618-7 Stockpiles Soil Sample

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

Reviewed and Approved:

(print/sign/date)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

DUE 3-5-08

Date/Time Received: 3/4/08 1535 GM Screen Result <0.2

Client: ~~WHC~~ WCH SDG #: J00164 NA[ ] SAF #: RC-087 NA [ ]

Work Order Number: J8C050113 Chain of Custody # RC-087-09

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

1. Custody Seals on shipping container intact? NA[X] Yes [ ] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes[X] No [ ]
3. Chain of Custody record present? NA [ ] Yes [X] No [ ]
4. Cooler Temperature: _____ NA [X] 5. Vermiculite/packing materials is NA[X] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? NA [X] Yes [ ] No [ ]
8. Samples have:
   - X Tape
   - X Custody Seals
   - ____ Hazard Lables
   - ____ Appropriate Sample Lables
9. Samples are:
   - X In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles (Only for samples requiring no head space.)
10. Sample pH taken? NA [X] pH<2 [ ] pH>2 [ ] pH>9 [ ] Amount HNO_3 Added _____
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [X]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 3/4/08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-087-019	Page 2 of 2

Collector RB Kerkow / B Lawrence	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator KESSNER, JH	Price Code 8G	Data Turnaround 24 Hours
Project Designation 618-7 Burial Ground - Soil	Sampling Location 618-7 Stockpiles		SAF No. RC-087		
Ice Chest No.	Field Logbook No. EL-1359-12	COA RG61872600	Method of Shipment Government Vehicle		
Shipped To TestAmerica Incorporated, Richland	Offsite Property No.		Bill of Lading/Air Bill No.		

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Radiological and Beryllium contamination

Special Handling and/or Storage

None

Preservation	None										
Type of Container	P ~~SNAP VIAL~~										
No. of Container(s)	1										
Volume	60mL										
SAMPLE ANALYSIS	See item (1) in Special Instructions.										

Sample No.	Matrix *	Sample Date	Sample Time
~~J169F5~~	~~SOIL~~		
~~J169F6~~	~~SOIL~~		
~~J169F7~~	~~SOIL~~		
~~J169F8~~	~~SOIL~~		
J169F9	SOIL	3/5/08	1400

RTC 2/27/08

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
BLawrence	1200 3-6-08	RTCoffman/RTCoffman	3/6/08
RTCoffman/RTCoffman	3/6/08 1240	REFER 1A	3/6/08 1240
1060/1A	3/10/08 1400	mstanbrook	3/10/08 1400
mstanbrook	3/10/08 1515	RWLANE	TAL-K 3-10-08 1515
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

None

(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}; Metals by ICP - 6010 - Quick Turn (Add On) {Aluminum, Beryllium, Copper, Iron, Zinc, Zirconium}

J8C100220
J00164
DUE 3-11-08
KJADQ

Matrix *

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

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

31

WCH-EE-011

Radiological Counting Facility

Analysis Report for RCF19200

J169D9 SAF:RC-087 FF2/618-7 Stockpiles black power anomaly

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF19200
Sample Description	: J169D9 SAF:RC-087 FF2/618-7 Stockpiles black power anomaly
Sample Type	: 50 gram pill box
Unit	:
Sample Point	
Sample Size	: 6.000E+01 grams
Facility	: Default
Sample Taken On	: 3/5/2008 2:00:00PM
Acquisition Started	: 3/5/2008 3:55:02PM
Procedure	: 50 gram pill box
Operator	: RCT
Detector Name	: REGIE02
Geometry	: 50 ml Pill Box
Live Time	: 3600.0 seconds
Real Time	: 3632.1 seconds
Dead Time	: 0.88 %
Peak Locate Threshold	: 3.00
Peak Locate Range (in channels)	: 80 - 4096
Peak Area Range (in channels)	: 80 - 4096
Identification Energy Tolerance	: 1.300 keV
Energy Calibration Used Done On	: 1/10/2008
Efficiency Calibration Used Done On	: 1/11/2008
Efficiency Calibration Description	: 50g Pill Box 1-10-2008
Sample Number	: 17699

INTERFERENCE CORRECTED REPORT

Nuclide Name		Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40		1.000	5.06E+00	2.05E+00	
PB-212		0.709	3.09E+00	4.83E-01	
RA-226d		0.882	1.15E+00	2.36E-01	
TH-232d		0.999	3.16E+00	3.02E-01	
U-235		1.000	3.13E+01	9.78E-01	
U-238d	@	1.000	4.43E+02	2.12E+01	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

DUE 3-11-08

Date/Time Received: 3-10-08 1515 GM Screen Result 0.3 K

Client: WCH SDG #: J00164 NA[ ] SAF #: RC-087 NA [ ]

Work Order Number: J8C100220 Chain of Custody # RC-087-019

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ✓ Custody Seals
   - ____ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [✓] SOIL pH<2 [ ] pH>2 [ ] pH>9 [ ] Amount HNO_3 Added _____
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: RJ Date: 3-10-08

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. 7, 1/08

Washington Closure Hanford

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

RC-087-017

Collector: RB Kerkow / B Lawrence	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Project Designation: 618-7 Burial Ground - Soil	Sampling Location: 618-7 Stockpiles		SAF No.: RC-087
Ice Chest No.	Field Logbook No.: EL-1359-12	COA: RG61872600	Method of Shipment: Government Vehicle
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.		Bill of Lading/Air Bill No.

Price Code: 8G

Data Turnaround: 24 Hours

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Radiological and Beryllium contamination

Special Handling and/or Storage

None

Preservation	None
Type of Container	P
No. of Container(s)	1
Volume	60mL

SAMPLE ANALYSIS

See item (1) in Special Instructions.

Sample No.	Matrix *	Sample Date	Sample Time										
J169C9	SOIL	3/6/08	0950	X									B004

CHAIN OF POSSESSION

Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
B Lawrence 3-6-08	1130	RT Coffman / RT Coffman	3/6/08 1130
RT Coffman / RT Coffman	3/6/08 1245	Received By/Stored In: RCFCR #1A	3/6/08 1245
1060/1A mstanko	3/11/08	Received By/Stored In	
1060/1A	3/11/08 1500	Received By/Stored In: mstankovich	3/11/08 1500
mstankovich	3/11/08 1510	Received By/Stored In: PRLJLANE TALR	3-11-08 1510
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

None

(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}; Metals by ICP - 6010 - Quick Turn (Add On) {Aluminum, Beryllium, Copper, Iron, Zinc, Zirconium}

J8C110311
J00164
DUE 3-12-08
KJD12

Matrix *

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

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

DUE 3-12-08

Date/Time Received: 3-11-08 1510 GM Screen Result 0.2K

Client: WCH SDG #: J00164 NA[ ] SAF #: RC-087 NA [ ]

Work Order Number: J8C110311 Chain of Custody # RC-087-017

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ✓ Custody Seals
   - ____ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? SOIL NA [✓] pH<2 [ ] pH>2 [ ] pH>9 [ ] Amount HNO_3 Added _____
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: _____ Date: 3-11-08

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. 7, 1/08

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		RC-087-027	Page 1 of 1
Collector B Lawrence	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator KESSNER, JH	Price Code 8G
Project Designation 618-7 Burial Ground - Soil	Sampling Location 618-7 Burial Ground/Stockpiles		SAF No. RC-087	Data Turnaround 24 Hours
Ice Chest No.	Field Logbook No. EL-1359-12	COA RG61878500	Method of Shipment	
Shipped To TestAmerica Incorporated, Richland	Offsite Property No.		Bill of Lading/Air Bill No.	

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Radiological and Beryllium contamination

Special Handling and/or Storage

None

Preservation	None										
Type of Container	aG										
No. of Container(s)	1										
Volume	60mL										
SAMPLE ANALYSIS	See item (1) in Special Instructions.										

Sample No.	Matrix *	Sample Date	Sample Time									
J16DB3 KJD2D	SOIL	3/6/08	0935	X							B-001	1
J16DB4 KJD2E	SOIL	3/6/08	0940	X							B-002	2
J16DB5 KJD2F	SOIL	3/6/08	0945	X							B-003	3
J16DB6 KJD2G	SOIL	3/6/08	0950	X							B-004	4
~~J16DB7~~	~~SOIL~~				RL 3/6/08							

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
B Lawrence	1130 3-6-08	RTCoffman/RTCoffman	1130 3/6/08
RTCoffman/RTCoffman	1245 3/6/08	RCFER #1A	1245 3/6/08
1060/1A WCH	3/11/08 1500	mstankovich	1500 3/11/08
mstankovich	1510 3/11/08	LVLANE TAL-R	1510 3-11-08

SPECIAL INSTRUCTIONS

None

(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}; Metals by ICP - 6010 - Quick Turn (Add On) {Aluminum, Beryllium, Copper, Iron, Zinc, Zirconium}

J8C110313
J00164
DUE 3-12-08

Matrix *

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

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Radiological Counting Facility

Analysis Report for RCF19218

J16D94 SAF:RC-087 FF2/618-7 Burial Ground Soil

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF19218
Sample Description	: J16D94 SAF:RC-087 FF2/618-7 Burial Ground Soil
Sample Type	: 50 gram pill box
Unit	:
Sample Point	
Sample Size	: 5.600E+01 grams
Facility	: Default
Sample Taken On	: 3/6/2008 9:40:00AM
Acquisition Started	: 3/10/2008 11:37:11AM
Procedure	: 50 gram pill box
Operator	: KSE
Detector Name	: REGIE02
Geometry	: 50 ml Pill Box
Live Time	: 3600.0 seconds
Real Time	: 3652.5 seconds
Dead Time	: 1.44 %
Peak Locate Threshold	: 3.00
Peak Locate Range (in channels)	: 80 - 4096
Peak Area Range (in channels)	: 80 - 4096
Identification Energy Tolerance	: 1.300 keV
Energy Calibration Used Done On	: 1/10/2008
Efficiency Calibration Used Done On	: 1/11/2008
Efficiency Calibration Description	: 50g Pill Box 1-10-2008
Sample Number	: 17732

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	0.999	1.28E+01	2.88E+00	
PB-212	0.709	7.58E-01	1.53E-01	
RA-226d	0.615	4.61E-01	1.44E-01	
TH-232d	0.853	5.17E-01	1.34E-01	

Radiological Counting Facility

Analysis Report for RCF19220

J16D96 SAF:RC-087 FF2/618-7 Burial Ground Soil

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF19220
Sample Description	: J16D96 SAF:RC-087 FF2/618-7 Burial Ground Soil
Sample Type	: 80 gram pill box
Unit	:
Sample Point	
Sample Size	: 7.600E+01 grams
Facility	: Default
Sample Taken On	: 3/6/2008 9:50:00AM
Acquisition Started	: 3/10/2008 11:37:51AM
Procedure	: 80 gram pill box
Operator	: KSE
Detector Name	: BEGEINSP
Geometry	: 80 Gram Pill Box
Live Time	: 3600.0 seconds
Real Time	: 3600.7 seconds
Dead Time	: 0.02 %
Peak Locate Threshold	: 3.00
Peak Locate Range (in channels)	: 80 - 4096
Peak Area Range (in channels)	: 80 - 4096
Identification Energy Tolerance	: 1.300 keV
Energy Calibration Used Done On	: 1/15/2008
Efficiency Calibration Used Done On	: 11/13/2007
Efficiency Calibration Description	: 80g Pill box 11-13-2007
Sample Number	: 17734

INTERFERENCE CORRECTED REPORT

Nuclide Name		Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40		1.000	9.55E+00	2.09E+00	
U-235		1.000	2.17E+00	1.94E-01	
U-238d	@	1.000	4.76E+01	3.77E+00	

Radiological Counting Facility

Analysis Report for RCF19219

J16D95 SAF:RC-087 FF2/618-7 Burial Ground Soil

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF19219
Sample Description	: J16D95 SAF:RC-087 FF2/618-7 Burial Ground Soil
Sample Type	: 80 gram pill box
Unit	:
Sample Point	
Sample Size	: 7.900E+01 grams
Facility	: Default
Sample Taken On	: 3/6/2008 9:45:00AM
Acquisition Started	: 3/10/2008 11:37:19AM
Procedure	: 80 gram pill box
Operator	: KSE
Detector Name	: PGTWHITE
Geometry	: 80 Gram Pill Box
Live Time	: 3600.0 seconds
Real Time	: 3600.7 seconds
Dead Time	: 0.02 %
Peak Locate Threshold	: 3.00
Peak Locate Range (in channels)	: 80 - 4096
Peak Area Range (in channels)	: 80 - 4096
Identification Energy Tolerance	: 1.300 keV
Energy Calibration Used Done On	: 1/31/2008
Efficiency Calibration Used Done On	: 2/5/2008
Efficiency Calibration Description	: 80g Pill box 2/5/2008
Sample Number	: 17733

INTERFERENCE CORRECTED REPORT

Nuclide Name		Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40		0.998	9.22E+00	2.82E+00	
PB-212		0.707	4.67E-01	1.36E-01	
RA-226d		0.674	2.30E-01	1.17E-01	
TH-232d		0.678	3.24E-01	1.37E-01	
U-235		0.551	3.58E-01	1.39E-01	
U-238d	@	1.000	6.54E+00	1.61E+00	

Radiological Counting Facility

Analysis Report for RCF19217

J16D93 SAF:RC-087 FF2/618-7 Burial Ground Soil

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF19217
Sample Description	: J16D93 SAF:RC-087 FF2/618-7 Burial Ground Soil
Sample Type	: 80 gram pill box
Unit	:
Sample Point	
Sample Size	: 6.700E+01 grams
Facility	: Default
Sample Taken On	: 3/6/2008 9:35:00AM
Acquisition Started	: 3/10/2008 10:31:08AM
Procedure	: 80 gram pill box
Operator	: KSE
Detector Name	: BEGEINSP
Geometry	: 80 Gram Pill Box
Live Time	: 3600.0 seconds
Real Time	: 3600.4 seconds
Dead Time	: 0.01 %
Peak Locate Threshold	: 3.00
Peak Locate Range (in channels)	: 80 - 4096
Peak Area Range (in channels)	: 80 - 4096
Identification Energy Tolerance	: 1.300 keV
Energy Calibration Used Done On	: 1/15/2008
Efficiency Calibration Used Done On	: 11/13/2007
Efficiency Calibration Description	: 80g Pill box 11-13-2007
Sample Number	: 17730

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	1.000	1.19E+01	2.46E+00	
PB-212	0.705	7.89E-01	1.32E-01	
RA-226d	0.625	4.28E-01	1.16E-01	
TH-232d	0.630	4.68E-01	1.14E-01	

TestAmerica
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Sample Check-in List

DUE 3-12-08

Date/Time Received: 3-11-08 1510 GM Screen Result 0.2K

Client: WCH SDG #: J00164 NA[ ] SAF #: RC-087 NA [ ]

Work Order Number: J8C110313 Chain of Custody # RC-087-027

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 4
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ✓ Custody Seals
   - ____ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [✓] SOIL pH<2 [ ] pH>2 [ ] pH>9 [ ] Amount HNO_3 Added _____
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 3-11-08

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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Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		RC-087-028	Page 1 of 1
Collector B Lawrence	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator KESSNER, JH	Price Code 86
Project Designation 618-7 Burial Ground - Soil	Sampling Location 618-7 Burial Ground/Stockpiles		SAF No. RC-087	Data Turnaround 24 Hours
Ice Chest No.	Field Logbook No. EL-1359-12	COA RG61878500	Method of Shipment	
Shipped To TestAmerica Incorporated, Richland	Offsite Property No.		Bill of Lading/Air Bill No.	

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Radiological and Beryllium contamination

Special Handling and/or Storage

None

Preservation	None											
Type of Container	aG											
No. of Container(s)	1											
Volume	60mL											
SAMPLE ANALYSIS	See item (1) in Special Instructions.											
Sample No.	Matrix *	Sample Date	Sample Time									
J16DB7 KJGAN	SOIL	3/10/08	0900	X								B005
J16DB8 KJGAV	SOIL	3/10/08	0915	X								B006

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
B Lawrence	3-10-08 0930	RT Coffman / RT Coffman	3/10/08 0930
RT Coffman / RT Coffman	3/10/08 1800	Refer to 1A	3/10/08 1800
1060/1A	3/12/08 1300	MS Stankovich	3/12/08 1300
WCH MS Stankovich	3/12/08 1500	RR LJ LANE TAL-R	3-12-08 1500
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

None

(1) Metals by ICP - 6010 - Quick Turn (Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver); Metals by ICP - 6010 - Quick Turn (Add On) (Aluminum, Beryllium, Copper, Iron, Zinc, Zirconium)

J8C120315
J00164
DUE 3-13-08

8073216

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

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Analysis Report for RCF19247

J16D97 SAF:RC-087 FF2/618-7 Stockpiles Soil Sample

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF19247
Sample Description	: J16D97 SAF:RC-087 FF2/618-7 Stockpiles Soil Sample
Sample Type	: 80 gram pill box
Unit	:
Sample Point	
Sample Size	: 7.800E+01 grams
Facility	: Default
Sample Taken On	: 3/10/2008 9:00:00AM
Acquisition Started	: 3/11/2008 7:48:36AM
Procedure	: 80 gram pill box
Operator	: RCT
Detector Name	: REGIE02
Geometry	: 80 Gram Pill Box
Live Time	: 3600.0 seconds
Real Time	: 3647.9 seconds
Dead Time	: 1.31 %
Peak Locate Threshold	: 3.00
Peak Locate Range (in channels)	: 80 - 4096
Peak Area Range (in channels)	: 80 - 4096
Identification Energy Tolerance	: 1.300 keV
Energy Calibration Used Done On	: 1/10/2008
Efficiency Calibration Used Done On	: 1/11/2008
Efficiency Calibration Description	: 80g Pill Box 71385A-238 1/10/2008
Sample Number	: 17786

INTERFERENCE CORRECTED REPORT

Nuclide Name		Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40		1.000	1.17E+01	2.25E+00	
PB-212		0.706	5.67E-01	1.45E-01	
RA-226d		0.678	3.25E-01	1.14E-01	
TH-232d		0.677	5.07E-01	1.53E-01	
U-235		0.795	9.28E-01	2.20E-01	
U-238d	@	1.000	1.49E+01	2.15E+00	

Analysis Report for RCF19248

J16D98 SAF:RC-087 FF2/618-7 Stockpiles Soil Sample

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF19248
Sample Description	: J16D98 SAF:RC-087 FF2/618-7 Stockpiles Soil Sample
Sample Type	: 80 gram pill box
Unit	:
Sample Point	
Sample Size	: 8.000E+01 grams
Facility	: Default
Sample Taken On	: 3/10/2008 9:15:00AM
Acquisition Started	: 3/11/2008 7:48:47AM
Procedure	: 80 gram pill box
Operator	: RCT
Detector Name	: PGTWHITE
Geometry	: 80 Gram Pill Box
Live Time	: 3600.0 seconds
Real Time	: 3600.7 seconds
Dead Time	: 0.02 %
Peak Locate Threshold	: 3.00
Peak Locate Range (in channels)	: 80 - 4096
Peak Area Range (in channels)	: 80 - 4096
Identification Energy Tolerance	: 1.300 keV
Energy Calibration Used Done On	: 1/31/2008
Efficiency Calibration Used Done On	: 2/5/2008
Efficiency Calibration Description	: 80g Pill box 2/5/2008
Sample Number	: 17787

INTERFERENCE CORRECTED REPORT

Nuclide Name		Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40		0.991	8.36E+00	2.59E+00	
PB-212		0.708	5.05E-01	1.40E-01	
TH-232d		0.519	4.75E-01	1.52E-01	
U-235		0.550	2.22E-01	1.31E-01	
U-238d	@	1.000	5.70E+00	1.51E+00	

TestAmerica
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Sample Check-in List DUE 3-13-08

Date/Time Received: 3-12-08 1500 GM Screen Result 0.1K

Client: WCH SDG #: J00164 NA[ ] SAF #: RC-087 NA [ ]

Work Order Number: J8C120315 Chain of Custody # RC-087-028

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ✓ Custody Seals
   - ____ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [✓] SOIL pH<2 [ ] pH>2 [ ] pH>9 [ ] Amount HNO_3 Added _____
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 3-12-08

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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Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		RC-087-029	Page 1 of 1
Collector B Lawrence	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator KESSNER, JH	Price Code 8G
Data Turnaround 24 Hours				
Project Designation 618-7 Burial Ground - Soil	Sampling Location 618-7 Burial Ground/Stockpiles		SAF No. RC-087	
Ice Chest No.	Field Logbook No. EL-~~1359~~-12 1395-12 RTC	COA RG61878500	Method of Shipment	
Shipped To TestAmerica Incorporated, Richland	Offsite Property No. 3/11/08		Bill of Lading/Air Bill No.	

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Radiological and Beryllium contamination

Special Handling and/or Storage

None

Preservation	None										
Type of Container	aG										
No. of Container(s)	1										
Volume	60mL										
SAMPLE ANALYSIS	See item (1) in Special Instructions.										

Sample No.	Matrix *	Sample Date	Sample Time										
J16DB9	SOIL	3/11/08	0820	X									19250

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Blawrence	0830 3-11-08	RT Coffman / RT Coffman	0830 3/11/08
RT Coffman / RT Coffman	1650 3/11/08	REFER # 1B	1650 3/11/08
1060 / 1B	3/13/08 1430	MS Stankovich	1430 3/13/08
MS Stankovich	3/13/08 1500	LJ LANE TAL-R	1500 3-13-08
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

None

(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}; Metals by ICP - 6010 - Quick Turn (Add On) {Aluminum, Beryllium, Copper, Iron, Zinc, Zirconium}

J8C130375
J00164
DUE 3-14-08
KJKCK

Matrix *

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

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Analysis Report for RCF19250

J16D99 SAF:RC-087 FF2/618-7 Stockpiles Soil Sample

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF19250
Sample Description	: J16D99 SAF:RC-087 FF2/618-7 Stockpiles Soil Sample
Sample Type	: 80 gram pill box
Unit	:
Sample Point	
Sample Size	: 8.200E+01 grams
Facility	: Default
Sample Taken On	: 3/11/2008 8:20:00AM
Acquisition Started	: 3/12/2008 10:14:58AM
Procedure	: 80 gram pill box
Operator	: RCT
Detector Name	: REGIE02
Geometry	: 80 Gram Pill Box
Live Time	: 3600.0 seconds
Real Time	: 3631.8 seconds
Dead Time	: 0.88 %
Peak Locate Threshold	: 3.00
Peak Locate Range (in channels)	: 80 - 4096
Peak Area Range (in channels)	: 80 - 4096
Identification Energy Tolerance	: 1.300 keV
Energy Calibration Used Done On	: 1/10/2008
Efficiency Calibration Used Done On	: 1/11/2008
Efficiency Calibration Description	: 80g Pill Box 71385A-238 1/10/2008
Sample Number	: 17846

INTERFERENCE CORRECTED REPORT

	Nuclide Name		Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40		0.999	1.13E+01	2.12E+00	
X	EU-155		0.367			
	PB-212		0.999	5.99E-01	1.25E-01	
	RA-226d		0.674	2.99E-01	1.08E-01	
	TH-232d		0.848	4.95E-01	1.31E-01	
	U-235		0.795	7.03E-01	1.80E-01	
	U-238d	@	1.000	5.20E+00	1.68E+00	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

DUE 3-14-08

Date/Time Received: 3-13-08 1500 GM Screen Result 0.2K

Client: WCH SDG #: J00164 NA[ ] SAF #: RC-087 NA [ ]

Work Order Number: J8C130375 Chain of Custody # RC-087-029

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓]
5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ✓ Custody Seals
   - ____ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? SOIL NA [✓] pH<2 [ ] pH>2 [ ] pH>9 [ ] Amount HNO_3 Added _____
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: _____ Date: 3-13-08

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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Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-087-046	Page 1 of 1
Collector B Lawrence	Company Contact Joan Kessner Telephone No. 509-375-4688	Project Coordinator KESSNER, JH	Price Code 2B Data Turnaround 24 Hours
Project Designation 618-7 Burial Ground - Soil	Sampling Location 618-7 Burial Ground/Stockpiles	SAF No. RC-087	
Ice Chest No.	Field Logbook No. EL-1395-12 COA RG61878500	Method of Shipment	
Shipped To TestAmerica Incorporated, Richland	Offsite Property No.	Bill of Lading/Air Bill No.	

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Radiological and Beryllium contamination

Special Handling and/or Storage

None

Preservation	None										
Type of Container	aG										
No. of Container(s)	1										
Volume	60mL										
SAMPLE ANALYSIS	See item (1) in Special Instructions.										

Sample No.	Matrix *	Sample Date	Sample Time										
J16DL4	SOIL	3/17/08	1430	X					MED TO	J16DK4		BLUE & RAWLOLS	

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
B Lawrence	1530 3-17-08	RTCOFFMAN/RT Coffman	1530 3/17/08
RTCOFFMAN/RT Coffman	1615 3/17/08	MSTANKOVICH	1615 3/17/08
MSTANKOVICH	1530 3/18/08	RJR LJLANE TAL-L	1530 3-18-08

SPECIAL INSTRUCTIONS

None

(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}; Metals by ICP - 6010 - Quick Turn (Add On) {Aluminum, Beryllium, Copper, Iron, Zinc, Zirconium}

J8C190113
J00164
DUE 3-19-08
KJTM6

Matrix *

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

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		RC-087-045	Page 1 of 1
Collector B Lawrence	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator KESSNER, JH	Price Code / Data Turnaround 24 Hours
Project Designation 618-7 Burial Ground - Soil	Sampling Location 618-7 Burial Ground/Stockpiles		SAF No. RC-087	
Ice Chest No.	Field Logbook No. EL-1395-12	COA RG61878500	Method of Shipment	
Shipped To TestAmerica Incorporated, Richland	Offsite Property No.		Bill of Lading/Air Bill No.	

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Radiological and Beryllium contamination

Special Handling and/or Storage

None

Preservation	None										
Type of Container	aG										
No. of Container(s)	1										
Volume	60mL										
SAMPLE ANALYSIS	See item (1) in Special Instructions.										

Sample No.	Matrix *	Sample Date	Sample Time										
J16DL1 KJTM8	SOIL	3.14.08	0910	X						C003			
J16DL2 KJTM9	SOIL	3.14.08	0945	X						C002			
J16DL3 KJTNA	SOIL	3.14.08	1015	X						C001			

CHAIN OF POSSESSION — **Sign/Print Names**

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Blawrence	1030 3-14-08	R. Fahlberg R.Fahlberg	1030 3.14.08
R.Fahlberg R.Fahlberg	3.14.08 1415	Rf 1-A	3.14.08 1415
1060/1A	3/18/05 1500	MS/MK	3/18/05 1500
MZ MSfankovich well	3/18/08 1530	KR LVLANE TAL-R	1530 3-18-08

SPECIAL INSTRUCTIONS

None

(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}; Metals by ICP - 6010 - Quick Turn (Add On) {Aluminum, Beryllium, Copper, Iron, Zinc, Zirconium}

J8C190113
J00164
DUE 3-19-08

Matrix *

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

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Radiological Counting Facility

Analysis Report for RCF19283

J16DK4 SAF:RC-087 FF2/ 618-7 Burial Ground Soil

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF19283
Sample Description	: J16DK4 SAF:RC-087 FF2/ 618-7 Burial Ground Soil
Sample Type	: 50 gram pill box
Unit	:
Sample Point	
Sample Size	: 3.600E+01 grams
Facility	: Default
Sample Taken On	: 3/17/2008 2:30:00PM
Acquisition Started	: 3/18/2008 7:53:10AM
Procedure	: 50 gram pill box
Operator	: RCT
Detector Name	: BEGEINSP
Geometry	: 50 ml Pill Box
Live Time	: 3600.0 seconds
Real Time	: 3600.5 seconds
Dead Time	: 0.01 %
Peak Locate Threshold	: 3.00
Peak Locate Range (in channels)	: 80 - 4096
Peak Area Range (in channels)	: 80 - 4096
Identification Energy Tolerance	: 1.300 keV
Energy Calibration Used Done On	: 1/15/2008
Efficiency Calibration Used Done On	: 10/30/2007
Efficiency Calibration Description	: 50 ml Pill Box 10-30-2007
Sample Number	: 17950

INTERFERENCE CORRECTED REPORT

Nuclide Name		Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
U-235		0.999	3.43E+00	2.98E-01	
U-238d	@	1.000	5.92E+01	4.28E+00	

Radiological Counting Facility

Analysis Report for RCF19278

J16DK3 SAF-RC-087 FF2 618-7 BURIAL GROUNDS/STOCKPILES

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF19278
Sample Description	: J16DK3 SAF-RC-087 FF2 618-7 BURIAL GROUNDS/STOCKPILES
Sample Type	: 80 gram pill box
Unit	:
Sample Point	
Sample Size	: 9.500E+01 grams
Facility	: Default
Sample Taken On	: 3/14/2008 10:15:00AM
Acquisition Started	: 3/17/2008 9:21:20AM
Procedure	: 80 gram pill box
Operator	: RCT
Detector Name	: BEGEINSP
Geometry	: 80 Gram Pill Box
Live Time	: 3600.0 seconds
Real Time	: 3600.7 seconds
Dead Time	: 0.02 %
Peak Locate Threshold	: 3.00
Peak Locate Range (in channels)	: 80 - 4096
Peak Area Range (in channels)	: 80 - 4096
Identification Energy Tolerance	: 1.300 keV
Energy Calibration Used Done On	: 1/15/2008
Efficiency Calibration Used Done On	: 11/13/2007
Efficiency Calibration Description	: 80g Pill box 11-13-2007
Sample Number	: 17923

INTERFERENCE CORRECTED REPORT

Nuclide Name		Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40		0.998	1.10E+01	2.06E+00	
PB-212		0.706	6.86E-01	1.51E-01	
RA-226d		0.686	2.47E-01	9.90E-02	
TH-232d		0.630	4.49E-01	1.16E-01	
U-235		1.000	2.27E+00	1.80E-01	
U-238d	@	1.000	4.35E+01	3.31E+00	

Radiological Counting Facility

Analysis Report for RCF19276

J16DK1 SAF-RC-087 FF2 618-7 BURIAL GROUNDS/STOCKPILES

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF19276
Sample Description	: J16DK1 SAF-RC-087 FF2 618-7 BURIAL GROUNDS/STOCKPILES
Sample Type	: 80 gram pill box
Unit	:
Sample Point	
Sample Size	: 9.300E+01 grams
Facility	: Default
Sample Taken On	: 3/14/2008 9:10:00AM
Acquisition Started	: 3/17/2008 9:21:05AM
Procedure	: 80 gram pill box
Operator	: RCT
Detector Name	: REGIE02
Geometry	: 80 Gram Pill Box
Live Time	: 3600.0 seconds
Real Time	: 3649.8 seconds
Dead Time	: 1.36 %
Peak Locate Threshold	: 3.00
Peak Locate Range (in channels)	: 80 - 4096
Peak Area Range (in channels)	: 80 - 4096
Identification Energy Tolerance	: 1.300 keV
Energy Calibration Used Done On	: 1/10/2008
Efficiency Calibration Used Done On	: 1/11/2008
Efficiency Calibration Description	: 80g Pill Box 71385A-238 1/10/2008
Sample Number	: 17921

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	0.999	1.00E+01	1.93E+00	
PB-212	0.706	5.96E-01	1.10E-01	
RA-226d	0.791	3.25E-01	9.76E-02	
TH-232d	0.998	4.33E-01	1.17E-01	
U-235	0.546	7.67E-02	6.83E-02	

Radiological Counting Facility

Analysis Report for RCF19277

J16DK2 SAF-RC-087 FF2 618-7 BURIAL GROUNDS/STOCKPILES

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF19277
Sample Description	: J16DK2 SAF-RC-087 FF2 618-7 BURIAL GROUNDS/STOCKPILES
Sample Type	: 80 gram pill box
Unit	:
Sample Point	
Sample Size	: 8.800E+01 grams
Facility	: Default
Sample Taken On	: 3/14/2008 9:45:00AM
Acquisition Started	: 3/17/2008 9:21:13AM
Procedure	: 80 gram pill box
Operator	: RCT
Detector Name	: PGTWHITE
Geometry	: 80 Gram Pill Box
Live Time	: 3600.0 seconds
Real Time	: 3600.7 seconds
Dead Time	: 0.02 %
Peak Locate Threshold	: 3.00
Peak Locate Range (in channels)	: 80 - 4096
Peak Area Range (in channels)	: 80 - 4096
Identification Energy Tolerance	: 1.300 keV
Energy Calibration Used Done On	: 1/31/2008
Efficiency Calibration Used Done On	: 2/5/2008
Efficiency Calibration Description	: 80g Pill box 2/5/2008
Sample Number	: 17922

INTERFERENCE CORRECTED REPORT

Nuclide Name		Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40		0.994	1.23E+01	3.39E+00	
PB-212		0.707	5.01E-01	1.30E-01	
RA-226d		0.769	3.62E-01	1.06E-01	
TH-232d		0.679	4.81E-01	1.33E-01	
U-235		0.551	3.70E-01	1.45E-01	
U-238d	@	1.000	1.16E+01	2.09E+00	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

DUE 3-19-08

Date/Time Received: 3-18-08 1530 GM Screen Result 0.2K

Client: WCH SDG #: J00164 NA[ ] SAF #: RC-087 NA [ ]

Work Order Number: J8C190113 Chain of Custody # RC-087-046,-045

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: ~~RL~~ 4
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ✓ Custody Seals
   - ____ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles (Only for samples requiring no head space.)
10. Sample pH taken? SOIL NA [✓] pH<2 [ ] pH>2 [ ] pH>9 [ ] Amount HNO_3 Added _____
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: RJ Date: 3-18-08

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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