Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Client Sample ID: DD-B-5_SS
Date Collected: 11/13/13 12:45
Date Received: 11/15/13 09:15

Lab Sample ID: 680-96214-1
Matrix: Solid
Percent Solids: 97.2

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	82	B	41	0.91	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-2	60		41	0.83	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-3	61	B	41	0.78	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-4	94		41	10	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-5	11	J q	41	7.7	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-6	100		41	7.7	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-7	7.2	U q	41	7.2	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-8	150		41	7.6	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-9	34	J	41	8.2	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-10	5.3	U	41	5.3	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-11	130	B	41	8.0	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-12/13	100		82	8.1	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-14	6.7	U	41	6.7	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-15	150		41	7.2	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-16	77		41	2.9	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-17	31	J	41	2.0	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-18/30	100		82	1.7	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-19	18	J q	41	2.7	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-20/28	250	B	82	4.9	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-21/33	94	B	82	4.6	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-22	130		41	5.2	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-23	4.5	U	41	4.5	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-24	2.3	J	41	1.5	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-25	11	J q	41	4.6	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-26/29	36	J	82	4.6	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-27	14	J	41	1.5	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-31	190	B	41	4.6	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-32	44		41	1.2	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-34	4.6	U	41	4.6	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-35	29	J	41	5.4	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-36	4.7	U	41	4.7	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-37	290		41	5.5	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-38	5.1	U	41	5.1	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-39	4.8	U	41	4.8	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-40/71	170		82	0.55	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-41	25	J	41	0.72	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-42	87		41	0.61	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-43	12	J	41	0.63	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-44/47/65	390	B	120	0.53	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-45	42		41	0.62	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-46	16	J	41	0.66	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-48	48		41	0.56	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-49/69	180	B	82	0.46	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-50/53	37	J	82	0.52	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-51	9.9	J	41	0.52	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-52	670	B	41	0.58	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-54	0.76	U	41	0.76	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-55	9.0	U	41	9.0	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-56	250		41	9.8	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1

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Lab Sample ID: 680-96214-1
Matrix: Solid
Percent Solids: 97.2

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-57	8.9	U	41	8.9	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-58	32	J	41	9.0	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-59/62/75	33	J	120	0.41	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-60	150		41	9.4	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-61/70/74/76	1000	B	160	8.8	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-63	21	J	41	8.3	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-64	190		41	0.38	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-66	550	B	41	9.9	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-67	12	J	41	8.3	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-68	7.9	U	41	7.9	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-72	8.6	U	41	8.6	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-73	0.43	U	41	0.43	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-77	260	G	9.4	9.4	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-78	10	U	41	10	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-79	56		41	8.7	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-80	8.4	U	41	8.4	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-81	11	G	9.2	9.2	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-82	210	G	49	49	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-83	53	U q G	53	53	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-84	300	G	44	44	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-85/116/117	420		120	32	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-86/87/97/108/119/125	1100		250	33	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-88/91	160		82	37	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-89	42	U G	42	42	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-90/101/113	1800	B	120	34	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-92	270		41	39	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-93/100	37	U	82	37	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-107/124	100		82	31	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-94	39	U	41	39	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-95	1100	B	41	37	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-96	3.9	J	41	0.17	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-98/102	35	U	82	35	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-99	890		41	39	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-103	34	U	41	34	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-104	0.40	J q	41	0.22	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-105	1400	G	33	33	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-106	33	U	41	33	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-110/115	3000	B	82	30	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-109	210		41	29	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-111	27	U	41	27	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-112	26	U	41	26	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-114	58	G	31	31	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-118	2500	G B	30	30	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-120	29	U	41	29	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-121	27	U	41	27	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-122	34	U	41	34	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-123	41	G	31	31	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-126	86	G	36	36	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-127	33	U	41	33	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1

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Matrix: Solid
Percent Solids: 97.2

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-128/166	830		82	19	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-129/138/163	5400	B	120	20	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-130	300		41	25	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-131	25	J	41	24	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-132	1100	B	41	23	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-133	46		41	22	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-134/143	130		82	23	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-135/151	920		82	20	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-136	280		41	15	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-137	160		41	20	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-139/140	49	J	82	19	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-141	780		41	21	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-142	22	U	41	22	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-144	140		41	20	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-145	14	U	41	14	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-146	610		41	21	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-147/149	2400	B	82	20	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-148	20	U	41	20	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-150	13	U	41	13	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-152	14	U	41	14	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-153/168	3900	B	82	17	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-154	24	J	41	18	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-155	17	U	41	17	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-156/157	740	G	11	11	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-158	550		41	15	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-159	54		41	9.5	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-160	17	U	41	17	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-161	15	U	41	15	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-162	55		41	9.2	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-164	370		41	17	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-165	18	U	41	18	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-167	270	G	8.6	8.6	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-169	10	U G	10	10	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-170	2400		41	5.4	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-171/173	580		82	4.9	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-172	410		41	5.1	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-174	2000		41	5.1	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-175	68		41	2.1	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-176	130		41	1.4	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-177	1100		41	5.1	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-178	260		41	2.2	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-179	450		41	1.5	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-180/193	5300	B	82	4.1	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-181	4.2	U	41	4.2	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-182	2.0	U	41	2.0	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-183	1000		41	3.8	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-184	23	J	41	1.6	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-185	160		41	4.5	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-186	1.5	U	41	1.5	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1

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Matrix: Solid
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Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-187	1800		41	2.0	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-188	20	J	41	1.8	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-189	92		4.1	1.4	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-190	510		41	3.8	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-191	130		41	3.7	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-192	3.8	U	41	3.8	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-194	1200		41	4.3	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-195	390		41	4.0	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-196	520		41	8.9	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-197	120		41	5.9	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-198/199	1000		82	9.3	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-200	120		41	6.0	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-201	190		41	6.0	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-202	200		41	7.8	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-203	640		41	8.2	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-204	31	J	41	6.2	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-205	110		41	2.8	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-206	810		41	3.2	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-207	1100		41	2.3	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-208	870		41	2.6	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
PCB-209	33000	E B	41	7.7	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
Total Monochlorobiphenyls	200	J B	410	0.84	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
Total Dichlorobiphenyls	780	q B	410	7.6	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
Total Trichlorobiphenyls	1300	q B	410	3.8	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
Total Tetrachlorobiphenyls	4200	B	410	4.8	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
Total Pentachlorobiphenyls	14000	q B	410	33	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
Total Hexachlorobiphenyls	19000	B	410	17	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
Total Heptachlorobiphenyls	17000	B	410	3.2	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
Total Octachlorobiphenyls	4600		410	6.3	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
Total Nonachlorobiphenyls	2800		410	2.7	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1
Polychlorinated biphenyls, Total	96000	q B	410	8.7	pg/g	☼	12/21/13 12:08	12/31/13 21:37	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*35*		*5 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-15L	*53*		*5 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-123L	*71*		*10 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-114L	*73*		*10 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-202L	*62*		*10 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-3L	*40*		*5 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-118L	*73*		*10 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-126L	*77*		*10 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-206L	*74*		*10 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-169L	*98*		*10 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-37L	*67*		*5 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-19L	*44*		*5 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-188L	*50*		*10 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-54L	*35*		*5 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-156L/157L	*96*		*10 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-167L	*92*		*10 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*
PCB-209L	*66*		*10 - 145*	*12/21/13 12:08*	*12/31/13 21:37*	*1*

Client Sample ID: DD-B-5_SS

Date Collected: 11/13/13 12:45
Date Received: 11/15/13 09:15

Lab Sample ID: 680-96214-1
Matrix: Solid
Percent Solids: 97.2

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-189L	79		10 - 145	12/21/13 12:08	12/31/13 21:37	1
PCB-105L	74		10 - 145	12/21/13 12:08	12/31/13 21:37	1
PCB-208L	75		10 - 145	12/21/13 12:08	12/31/13 21:37	1
PCB-1L	33		5 - 145	12/21/13 12:08	12/31/13 21:37	1
PCB-104L	41		10 - 145	12/21/13 12:08	12/31/13 21:37	1
PCB-81L	81		10 - 145	12/21/13 12:08	12/31/13 21:37	1
PCB-77L	81		10 - 145	12/21/13 12:08	12/31/13 21:37	1
PCB-205L	82		10 - 145	12/21/13 12:08	12/31/13 21:37	1
PCB-155L	59		10 - 145	12/21/13 12:08	12/31/13 21:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	60		5 - 145	12/21/13 12:08	12/31/13 21:37	1
PCB-111L	71		10 - 145	12/21/13 12:08	12/31/13 21:37	1
PCB-178L	68		10 - 145	12/21/13 12:08	12/31/13 21:37	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9900		99	69	mg/Kg	☼	12/04/13 10:55	12/19/13 19:57	5
Antimony	3.2	U	4.9	3.2	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Barium	350		25	1.2	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Beryllium	0.83	U	2.5	0.83	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Cadmium	0.54	J	2.5	0.49	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Calcium	21000		1200	66	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Chromium	46		4.9	1.5	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Cobalt	19	J	25	4.6	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Copper	44		12	3.6	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Iron	13000		49	15	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Lead	26		4.9	0.85	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Magnesium	11000		490	41	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Manganese	2600		4.9	0.76	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Nickel	27		20	1.1	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Potassium	2200	J	2500	1700	mg/Kg	☼	12/04/13 10:55	12/19/13 19:57	5
Selenium	1.5	J	7.4	1.4	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Silver	1.2	U	4.9	1.2	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Sodium	470	J	490	230	mg/Kg	☼	12/04/13 10:55	12/19/13 19:57	5
Titanium	1100		9.9	3.1	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Vanadium	77		25	6.2	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5
Zinc	60		25	9.8	mg/Kg	☼	12/04/13 10:55	12/18/13 18:58	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.3	J	5.0	1.3	mg/Kg	☼	11/21/13 09:19	12/17/13 01:38	10
Niobium	50		13	1.9	mg/Kg	☼	11/21/13 09:19	12/17/13 01:38	10
Thallium	0.76	U ^	2.5	0.76	mg/Kg	☼	11/21/13 09:19	12/17/13 01:38	10
Uranium	4.5		0.50	0.10	mg/Kg	☼	11/21/13 09:19	12/17/13 01:38	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045		0.031	0.010	mg/Kg	☼	11/18/13 14:10	11/24/13 12:08	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Client Sample ID: DD-B-5_SS

Lab Sample ID: 680-96214-1
Date Collected: 11/13/13 12:45
Matrix: Solid
Date Received: 11/15/13 09:15
Percent Solids: 97.2

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	7.6		0.21	0.041	mg/Kg	☼		12/05/13 13:46	1
Chloride	22		2.1	0.21	mg/Kg	☼		12/05/13 13:46	1
Sulfate	61		5.2	0.52	mg/Kg	☼		12/05/13 13:46	1

Client Sample ID: DD-B-5_SUB

Lab Sample ID: 680-96214-2
Date Collected: 11/13/13 14:15
Matrix: Solid
Date Received: 11/15/13 09:15
Percent Solids: 95.1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9500		100	72	mg/Kg	☼	12/04/13 10:55	12/19/13 20:12	5
Antimony	3.3	U	5.2	3.3	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Barium	160		26	1.3	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Beryllium	0.87	U	2.6	0.87	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Cadmium	0.52	U	2.6	0.52	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Calcium	25000		1300	69	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Chromium	11		5.2	1.6	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Cobalt	9.3	J	26	4.9	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Copper	16		13	3.8	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Iron	13000		52	15	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Lead	9.1		5.2	0.89	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Magnesium	8300		520	43	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Manganese	340		5.2	0.80	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Nickel	17	J	21	1.2	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Potassium	1700	U	2600	1700	mg/Kg	☼	12/04/13 10:55	12/19/13 20:12	5
Selenium	1.5	U	7.8	1.5	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Silver	1.2	U	5.2	1.2	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Sodium	600		520	240	mg/Kg	☼	12/04/13 10:55	12/19/13 20:12	5
Titanium	670		10	3.3	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Vanadium	30		26	6.5	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5
Zinc	34		26	10	mg/Kg	☼	12/04/13 10:55	12/18/13 19:13	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.8		4.7	1.2	mg/Kg	☼	11/21/13 09:19	12/17/13 02:05	10
Niobium	1.8	U	12	1.8	mg/Kg	☼	11/21/13 09:19	12/17/13 02:05	10
Thallium	0.72	U ^	2.4	0.72	mg/Kg	☼	11/21/13 09:19	12/17/13 02:05	10
Uranium	1.3		0.47	0.094	mg/Kg	☼	11/21/13 09:19	12/17/13 02:05	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.032	0.011	mg/Kg	☼	11/18/13 14:10	11/24/13 12:18	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.30		0.21	0.042	mg/Kg	☼		12/05/13 14:29	1
Chloride	28		2.1	0.21	mg/Kg	☼		12/05/13 14:29	1
Sulfate	56		5.2	0.52	mg/Kg	☼		12/05/13 14:29	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Client Sample ID: NS-B-2_SS

Date Collected: 11/13/13 15:00
Date Received: 11/15/13 09:15

Lab Sample ID: 680-96214-3
Matrix: Solid
Percent Solids: 82.7

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6200		110	75	mg/Kg	☼	12/04/13 10:55	12/19/13 20:16	5
Antimony	3.4	U	5.4	3.4	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Barium	1200		27	1.3	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Beryllium	0.91	U	2.7	0.91	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Cadmium	0.54	U	2.7	0.54	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Calcium	14000		1300	71	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Chromium	770		5.4	1.6	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Cobalt	15	J	27	5.0	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Copper	33		13	3.9	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Iron	12000		54	16	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Lead	58		5.4	0.92	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Magnesium	7900		540	45	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Manganese	880		5.4	0.83	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Nickel	30		21	1.2	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Potassium	1800	U	2700	1800	mg/Kg	☼	12/04/13 10:55	12/19/13 20:16	5
Selenium	1.7	J	8.0	1.5	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Silver	1.3	U	5.4	1.3	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Sodium	1200		540	250	mg/Kg	☼	12/04/13 10:55	12/19/13 20:16	5
Titanium	2100		11	3.4	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Vanadium	1400		27	6.8	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5
Zinc	54		27	11	mg/Kg	☼	12/04/13 10:55	12/18/13 19:17	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20		5.8	1.5	mg/Kg	☼	11/21/13 09:19	12/17/13 02:12	10
Niobium	140		29	4.4	mg/Kg	☼	11/21/13 09:19	12/21/13 07:33	20
Thallium	0.88	U ^	2.9	0.88	mg/Kg	☼	11/21/13 09:19	12/17/13 02:12	10
Uranium	9.3		0.58	0.11	mg/Kg	☼	11/21/13 09:19	12/17/13 02:12	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.27		0.035	0.012	mg/Kg	☼	11/18/13 14:10	11/24/13 12:20	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	32		1.2	0.24	mg/Kg	☼		12/05/13 19:47	5
Chloride	2100		240	24	mg/Kg	☼		12/05/13 20:01	100
Sulfate	500		30	3.0	mg/Kg	☼		12/05/13 19:47	5

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	108		10.0	4.87	pCi/g		12/09/13 08:58	12/09/13 20:42	1
Gross Beta	55.8		10.0	3.53	pCi/g		12/09/13 08:58	12/09/13 20:42	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	2.60			0.251	pCi/g		11/22/13 12:38	12/15/13 18:59	1
Bismuth-212	3.46			0.931	pCi/g		11/22/13 12:38	12/15/13 18:59	1
Bismuth-214	3.89			0.182	pCi/g		11/22/13 12:38	12/15/13 18:59	1
Bismuth-210M	-0.00195	U		0.157	pCi/g		11/22/13 12:38	12/15/13 18:59	1
Cesium-134	0.0832	U		0.397	pCi/g		11/22/13 12:38	12/15/13 18:59	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Client Sample ID: NS-B-2_SS

Lab Sample ID: 680-96214-3

Date Collected: 11/13/13 15:00
Date Received: 11/15/13 09:15

Matrix: Solid

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Cesium-137	-0.00321	U		0.113	pCi/g		11/22/13 12:38	12/15/13 18:59	1
Cobalt-57	0.0669	U		0.0674	pCi/g		11/22/13 12:38	12/15/13 18:59	1
Cobalt-60	-0.0152	U		0.120	pCi/g		11/22/13 12:38	12/15/13 18:59	1
Lead-212	**2.46**			0.180	pCi/g		11/22/13 12:38	12/15/13 18:59	1
Lead-214	**4.20**			0.259	pCi/g		11/22/13 12:38	12/15/13 18:59	1
Potassium-40	**21.4**			0.884	pCi/g		11/22/13 12:38	12/15/13 18:59	1
Protactinium-231	**2.38**			2.13	pCi/g		11/22/13 12:38	12/15/13 18:59	1
Protactinium-234	0.0120	U		0.459	pCi/g		11/22/13 12:38	12/15/13 18:59	1
Radium-224	2.67	U		2.92	pCi/g		11/22/13 12:38	12/15/13 18:59	1
Thallium-208	**0.883**			0.113	pCi/g		11/22/13 12:38	12/15/13 18:59	1
Thorium-227	0.154	U		2.17	pCi/g		11/22/13 12:38	12/15/13 18:59	1
Thorium-234	**2.88**			2.31	pCi/g		11/22/13 12:38	12/15/13 18:59	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	**5.04**		1.00	0.0899	pCi/g		11/22/13 13:48	12/17/13 08:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*121*	*X*	*40 - 110*	*11/22/13 13:48*	*12/17/13 08:47*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	**1.80**		1.00	0.322	pCi/g		11/22/13 14:11	12/11/13 10:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*121*	*X*	*40 - 110*	*11/22/13 14:11*	*12/11/13 10:59*	*1*
Y Carrier	*83.0*		*40 - 110*	*11/22/13 14:11*	*12/11/13 10:59*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	**2.87**		1.00	0.0630	pCi/g		12/16/13 13:26	12/30/13 13:50	1
Thorium-230	**5.19**		1.00	0.0387	pCi/g		12/16/13 13:26	12/30/13 13:50	1
Thorium-232	**2.86**		1.00	0.0264	pCi/g		12/16/13 13:26	12/30/13 13:50	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*87.3*		*30 - 110*	*12/16/13 13:26*	*12/30/13 13:50*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	**5.35**		1.00	0.0360	pCi/g		12/16/13 13:26	12/26/13 16:15	1
Uranium-235/236	**0.256**		1.00	0.0399	pCi/g		12/16/13 13:26	12/26/13 16:15	1
Uranium-238	**4.98**		1.00	0.0447	pCi/g		12/16/13 13:26	12/26/13 16:15	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*86.1*		*30 - 110*	*12/16/13 13:26*	*12/26/13 16:15*	*1*

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Client Sample ID: NS-B-2_SUB

Date Collected: 11/13/13 15:45
Date Received: 11/15/13 09:15

Lab Sample ID: 680-96214-4
Matrix: Solid
Percent Solids: 93.5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8500		100	71	mg/Kg	☼	12/04/13 10:55	12/19/13 20:27	5
Antimony	3.2	U	5.0	3.2	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Barium	260		25	1.3	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Beryllium	0.85	U	2.5	0.85	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Cadmium	0.50	U	2.5	0.50	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Calcium	27000		1300	67	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Chromium	80		5.0	1.5	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Cobalt	8.2	J	25	4.7	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Copper	16		13	3.7	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Iron	11000		50	15	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Lead	15		5.0	0.87	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Magnesium	8300		500	42	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Manganese	370		5.0	0.78	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Nickel	16	J	20	1.1	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Potassium	1700	J	2500	1700	mg/Kg	☼	12/04/13 10:55	12/19/13 20:27	5
Selenium	1.5	U	7.6	1.5	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Silver	1.2	U	5.0	1.2	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Sodium	1200		500	240	mg/Kg	☼	12/04/13 10:55	12/19/13 20:27	5
Titanium	810		10	3.2	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Vanadium	170		25	6.4	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5
Zinc	33		25	10	mg/Kg	☼	12/04/13 10:55	12/18/13 19:20	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.9		4.7	1.2	mg/Kg	☼	11/21/13 09:19	12/17/13 02:19	10
Niobium	15		12	1.8	mg/Kg	☼	11/21/13 09:19	12/17/13 02:19	10
Thallium	0.72	U ^	2.4	0.72	mg/Kg	☼	11/21/13 09:19	12/17/13 02:19	10
Uranium	2.5		0.47	0.094	mg/Kg	☼	11/21/13 09:19	12/17/13 02:19	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029	J	0.034	0.011	mg/Kg	☼	11/18/13 14:10	11/24/13 12:22	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	6.8		0.21	0.043	mg/Kg	☼		12/05/13 14:58	1
Sulfate	140		5.4	0.54	mg/Kg	☼		12/05/13 14:58	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	420		43	4.3	mg/Kg	☼		12/05/13 20:15	20

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	28.7		10.0	4.64	pCi/g		12/09/13 08:58	12/09/13 20:42	1
Gross Beta	25.1		10.0	2.68	pCi/g		12/09/13 08:58	12/09/13 20:42	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	1.92			0.210	pCi/g		11/22/13 12:38	12/13/13 15:38	1
Bismuth-212	2.65			0.932	pCi/g		11/22/13 12:38	12/13/13 15:38	1

Client Sample ID: NS-B-2_SUB

Lab Sample ID: 680-96214-4

Date Collected: 11/13/13 15:45
Date Received: 11/15/13 09:15

Matrix: Solid

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Bismuth-214	**1.44**			0.167	pCi/g		11/22/13 12:38	12/13/13 15:38	1
Bismuth-210M	0.0144	U		0.164	pCi/g		11/22/13 12:38	12/13/13 15:38	1
Cesium-134	0.0366	U		0.163	pCi/g		11/22/13 12:38	12/13/13 15:38	1
Cesium-137	0.00234	U		0.105	pCi/g		11/22/13 12:38	12/13/13 15:38	1
Cobalt-57	0.0175	U		0.0861	pCi/g		11/22/13 12:38	12/13/13 15:38	1
Cobalt-60	0.000	U		0.312	pCi/g		11/22/13 12:38	12/13/13 15:38	1
Lead-212	**2.01**			0.212	pCi/g		11/22/13 12:38	12/13/13 15:38	1
Lead-214	**1.54**			0.266	pCi/g		11/22/13 12:38	12/13/13 15:38	1
Potassium-40	**20.7**			1.46	pCi/g		11/22/13 12:38	12/13/13 15:38	1
Protactinium-231	1.56	U		4.47	pCi/g		11/22/13 12:38	12/13/13 15:38	1
Protactinium-234	0.203	U		0.285	pCi/g		11/22/13 12:38	12/13/13 15:38	1
Radium-224	2.07	U		3.13	pCi/g		11/22/13 12:38	12/13/13 15:38	1
Thallium-208	**0.599**			0.138	pCi/g		11/22/13 12:38	12/13/13 15:38	1
Thorium-227	0.234	U		0.732	pCi/g		11/22/13 12:38	12/13/13 15:38	1
Thorium-234	0.921	U		3.70	pCi/g		11/22/13 12:38	12/13/13 15:38	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	**1.35**		1.00	0.101	pCi/g		11/22/13 13:48	12/17/13 08:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*111*	*X*	*40 - 110*	*11/22/13 13:48*	*12/17/13 08:47*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	**0.894**		1.00	0.359	pCi/g		11/22/13 14:11	12/11/13 10:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*111*	*X*	*40 - 110*	*11/22/13 14:11*	*12/11/13 10:59*	*1*
Y Carrier	*81.9*		*40 - 110*	*11/22/13 14:11*	*12/11/13 10:59*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	**1.52**		1.00	0.0434	pCi/g		12/16/13 13:26	12/24/13 17:35	1
Thorium-230	**1.41**		1.00	0.0355	pCi/g		12/16/13 13:26	12/24/13 17:35	1
Thorium-232	**1.44**		1.00	0.0353	pCi/g		12/16/13 13:26	12/24/13 17:35	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*78.5*		*30 - 110*	*12/16/13 13:26*	*12/24/13 17:35*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	**1.54**		1.00	0.0381	pCi/g		12/16/13 13:26	12/26/13 16:15	1
Uranium-235/236	**0.0707**		1.00	0.0177	pCi/g		12/16/13 13:26	12/26/13 16:15	1
Uranium-238	**1.31**		1.00	0.0349	pCi/g		12/16/13 13:26	12/26/13 16:15	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*82.8*		*30 - 110*	*12/16/13 13:26*	*12/26/13 16:15*	*1*

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Client Sample ID: NS-B-1_SS

Date Collected: 11/13/13 09:45
Date Received: 11/15/13 09:15

Lab Sample ID: 680-96214-5
Matrix: Solid
Percent Solids: 97.8

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4600		95	66	mg/Kg	☼	12/04/13 10:55	12/19/13 20:31	5
Antimony	3.0	U	4.7	3.0	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Barium	1300		24	1.2	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Beryllium	0.80	U	2.4	0.80	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Cadmium	0.47	U	2.4	0.47	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Calcium	27000		1200	63	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Chromium	9.0		4.7	1.5	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Cobalt	8.3	J	24	4.5	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Copper	43		12	3.4	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Iron	11000		47	14	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Lead	27		4.7	0.82	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Magnesium	7000		470	39	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Manganese	420		4.7	0.73	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Nickel	7.8	J	19	1.1	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Potassium	1600	U	2400	1600	mg/Kg	☼	12/04/13 10:55	12/19/13 20:31	5
Selenium	1.4	U	7.1	1.4	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Silver	1.1	U	4.7	1.1	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Sodium	510		470	220	mg/Kg	☼	12/04/13 10:55	12/19/13 20:31	5
Titanium	520		9.5	3.0	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Vanadium	23	J	24	6.0	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5
Zinc	52		24	9.4	mg/Kg	☼	12/04/13 10:55	12/18/13 19:24	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.5		4.9	1.3	mg/Kg	☼	11/21/13 09:19	12/17/13 02:39	10
Niobium	2.4	J	12	1.8	mg/Kg	☼	11/21/13 09:19	12/17/13 02:39	10
Thallium	0.74	U ^	2.4	0.74	mg/Kg	☼	11/21/13 09:19	12/17/13 02:39	10
Uranium	2.2		0.49	0.097	mg/Kg	☼	11/21/13 09:19	12/17/13 02:39	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.033	0.011	mg/Kg	☼	11/18/13 14:10	11/24/13 12:23	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	140		10	2.0	mg/Kg	☼		12/05/13 20:30	50
Sulfate	330		260	26	mg/Kg	☼		12/05/13 20:30	50

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6700		1000	100	mg/Kg	☼		12/05/13 20:44	500

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	31.3		10.0	5.46	pCi/g		12/09/13 08:58	12/09/13 20:42	1
Gross Beta	38.5		10.0	2.71	pCi/g		12/09/13 08:58	12/09/13 20:42	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	1.78			0.230	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Bismuth-212	2.14			0.832	pCi/g		11/22/13 12:38	12/13/13 17:36	1

Client Sample ID: NS-B-1_SS

Lab Sample ID: 680-96214-5

Date Collected: 11/13/13 09:45
Date Received: 11/15/13 09:15

Matrix: Solid

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Bismuth-214	**1.04**			0.141	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Bismuth-210M	-0.0422	U		0.132	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Cesium-134	-0.0612	U		0.109	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Cesium-137	-0.0106	U		0.0920	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Cobalt-57	-0.0175	U		0.0685	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Cobalt-60	0.0130	U		0.0861	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Lead-212	**1.80**			0.132	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Lead-214	**1.24**			0.180	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Potassium-40	**35.3**			0.627	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Protactinium-231	0.862	U		2.55	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Protactinium-234	0.0279	U		0.340	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Radium-224	2.07	U		2.22	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Thallium-208	**0.684**			0.0834	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Thorium-227	**0.593**			0.177	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Thorium-234	**2.22**			2.16	pCi/g		11/22/13 12:38	12/13/13 17:36	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	**1.12**		1.00	0.0796	pCi/g		11/22/13 13:48	12/17/13 08:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*115*	*X*	*40 - 110*	*11/22/13 13:48*	*12/17/13 08:47*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	**1.85**		1.00	0.315	pCi/g		11/22/13 14:11	12/11/13 10:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*115*	*X*	*40 - 110*	*11/22/13 14:11*	*12/11/13 10:59*	*1*
Y Carrier	*84.9*		*40 - 110*	*11/22/13 14:11*	*12/11/13 10:59*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	**2.09**		1.00	0.0727	pCi/g		12/16/13 15:38	12/27/13 20:53	1
Thorium-230	**1.38**		1.00	0.116	pCi/g		12/16/13 15:38	12/27/13 20:53	1
Thorium-232	**1.61**		1.00	0.105	pCi/g		12/16/13 15:38	12/27/13 20:53	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*79.3*		*30 - 110*	*12/16/13 15:38*	*12/27/13 20:53*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.863**		1.00	0.131	pCi/g		12/16/13 15:38	12/26/13 16:51	1
Uranium-235/236	0.0359	U	1.00	0.0949	pCi/g		12/16/13 15:38	12/26/13 16:51	1
Uranium-238	**0.818**		1.00	0.0943	pCi/g		12/16/13 15:38	12/26/13 16:51	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*86.1*		*30 - 110*	*12/16/13 15:38*	*12/26/13 16:51*	*1*

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Client Sample ID: NS-B-1_SUB

Lab Sample ID: 680-96214-6

Date Collected: 11/13/13 11:20
Date Received: 11/15/13 09:15

Matrix: Solid
Percent Solids: 95.2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7100**		97	68	mg/Kg	☼	12/04/13 10:55	12/19/13 20:35	5
Antimony	3.1	U	4.8	3.1	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Barium	**150**		24	1.2	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Beryllium	0.82	U	2.4	0.82	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Cadmium	0.48	U	2.4	0.48	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Calcium	**29000**		1200	64	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Chromium	**12**		4.8	1.5	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Cobalt	**8.4**	J	24	4.5	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Copper	**13**		12	3.5	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Iron	**11000**		48	14	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Lead	**8.0**		4.8	0.83	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Magnesium	**8500**		480	40	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Manganese	**250**		4.8	0.74	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Nickel	**14**	J	19	1.1	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Potassium	1600	U	2400	1600	mg/Kg	☼	12/04/13 10:55	12/19/13 20:35	5
Selenium	1.4	U	7.2	1.4	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Silver	1.1	U	4.8	1.1	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Sodium	**760**		480	230	mg/Kg	☼	12/04/13 10:55	12/19/13 20:35	5
Titanium	**570**		9.7	3.0	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Vanadium	**27**		24	6.1	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5
Zinc	**29**		24	9.6	mg/Kg	☼	12/04/13 10:55	12/18/13 19:28	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.4**		5.0	1.3	mg/Kg	☼	11/21/13 09:19	12/17/13 02:46	10
Niobium	1.9	U	12	1.9	mg/Kg	☼	11/21/13 09:19	12/17/13 02:46	10
Thallium	0.76	U ^	2.5	0.76	mg/Kg	☼	11/21/13 09:19	12/17/13 02:46	10
Uranium	**1.7**		0.50	0.099	mg/Kg	☼	11/21/13 09:19	12/17/13 02:46	10

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.034	0.011	mg/Kg	☼	11/18/13 14:10	11/24/13 12:25	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**160**		5.2	0.52	mg/Kg	☼		12/05/13 15:27	1

General Chemistry - Soluble - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**25**		1.0	0.21	mg/Kg	☼		12/05/13 20:59	5

General Chemistry - Soluble - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**690**		100	10	mg/Kg	☼		12/05/13 21:13	50

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	**23.0**		10.0	5.28	pCi/g		12/09/13 08:58	12/10/13 06:30	1
Gross Beta	**29.2**		10.0	2.80	pCi/g		12/09/13 08:58	12/10/13 06:30	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Client Sample ID: NS-B-1_SUB

Lab Sample ID: 680-96214-6

Date Collected: 11/13/13 11:20
Date Received: 11/15/13 09:15

Matrix: Solid

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	**1.93**			0.205	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Bismuth-212	**2.83**			0.758	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Bismuth-214	**1.43**			0.178	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Bismuth-210M	0.0292	U		0.130	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Cesium-134	0.0510	U		0.246	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Cesium-137	0.00207	U		0.100	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Cobalt-57	0.0106	U		0.0684	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Cobalt-60	-0.00450	U		0.0981	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Lead-212	**1.44**			0.202	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Lead-214	**1.17**			0.181	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Potassium-40	**22.4**			0.812	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Protactinium-231	1.37	U		2.02	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Protactinium-234	-0.0109	U		0.379	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Radium-224	2.09	U		2.49	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Thallium-208	**0.590**			0.0906	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Thorium-227	-0.477	U		0.844	pCi/g		11/22/13 12:38	12/13/13 17:36	1
Thorium-234	0.641	U		2.66	pCi/g		11/22/13 12:38	12/13/13 17:36	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	**1.28**		1.00	0.0678	pCi/g		11/22/13 13:48	12/17/13 08:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*107*		*40 - 110*	*11/22/13 13:48*	*12/17/13 08:47*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	**1.10**		1.00	0.325	pCi/g		11/22/13 14:11	12/11/13 11:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*107*		*40 - 110*	*11/22/13 14:11*	*12/11/13 11:00*	*1*
Y Carrier	*80.4*		*40 - 110*	*11/22/13 14:11*	*12/11/13 11:00*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	**2.04**		1.00	0.0813	pCi/g		12/16/13 15:38	12/27/13 20:53	1
Thorium-230	**1.06**		1.00	0.121	pCi/g		12/16/13 15:38	12/27/13 20:53	1
Thorium-232	**1.53**		1.00	0.103	pCi/g		12/16/13 15:38	12/27/13 20:53	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*80.6*		*30 - 110*	*12/16/13 15:38*	*12/27/13 20:53*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233/234	**1.33**		1.00	0.0838	pCi/g		12/16/13 15:38	12/26/13 16:51	1
Uranium-235/236	0.0568	U	1.00	0.0728	pCi/g		12/16/13 15:38	12/26/13 16:51	1
Uranium-238	**0.981**		1.00	0.0883	pCi/g		12/16/13 15:38	12/26/13 16:51	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*89.9*		*30 - 110*	*12/16/13 15:38*	*12/26/13 16:51*	*1*

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Client Sample ID: RINSATE

Lab Sample ID: 680-96214-7

Date Collected: 11/13/13 00:00
Date Received: 11/15/13 09:15

Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**26**	**J B**	190	1.7	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-2	**3.8**	**J q B**	190	1.7	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-3	**6.5**	**J q B**	190	1.8	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-4	47	U	190	47	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-5	31	U	190	31	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-6	31	U	190	31	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-7	29	U	190	29	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-8	30	U	190	30	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-9	32	U	190	32	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-10	32	U	190	32	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-11	32	U	190	32	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-12/13	32	U	380	32	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-14	27	U	190	27	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-15	35	U	190	35	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-16	5.5	U	190	5.5	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-17	3.9	U	190	3.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-18/30	**15**	**J B**	380	3.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-19	4.2	U	190	4.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-20/28	**14**	**J B**	380	3.7	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-21/33	**12**	**J q B**	380	3.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-22	**7.9**	**J q B**	190	3.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-23	3.3	U	190	3.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-24	2.8	U	190	2.8	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-25	3.4	U	190	3.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-26/29	3.5	U	380	3.5	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-27	2.9	U	190	2.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-31	**18**	**J B**	190	3.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-32	2.2	U	190	2.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-34	3.5	U	190	3.5	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-35	4.0	U	190	4.0	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-36	3.5	U	190	3.5	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-37	**7.7**	**J q B**	190	4.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-38	3.8	U	190	3.8	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-39	3.5	U	190	3.5	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-40/71	**13**	**J q B**	380	2.0	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-41	**3.7**	**J q**	190	2.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-42	**5.5**	**J q**	190	2.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-43	2.3	U	190	2.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-44/47/65	**13**	**J q B**	570	1.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-45	2.2	U	190	2.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-46	2.4	U	190	2.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-48	**4.3**	**J q**	190	2.0	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-49/69	**8.1**	**J q B**	380	1.7	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-50/53	3.4	U	380	3.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-51	1.9	U	190	1.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-52	**33**	**J B**	190	2.1	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-54	2.0	U	190	2.0	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-55	3.4	U	190	3.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-56	3.7	U	190	3.7	pg/L		12/12/13 14:53	12/20/13 13:47	1

Client Sample ID: RINSATE

Lab Sample ID: 680-96214-7

Date Collected: 11/13/13 00:00
Date Received: 11/15/13 09:15

Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-57	3.3	U	190	3.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-58	3.4	U	190	3.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-59/62/75	**3.2**	**J**	570	1.5	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-60	3.5	U	190	3.5	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-61/70/74/76	**21**	**J q B**	760	3.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-63	3.1	U	190	3.1	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-64	**7.8**	**J B**	190	1.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-66	**12**	**J q B**	190	3.7	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-67	3.1	U	190	3.1	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-68	3.0	U	190	3.0	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-72	3.2	U	190	3.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-73	1.6	U	190	1.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-77	4.8	U	19	4.8	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-78	3.8	U	190	3.8	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-79	3.3	U	190	3.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-80	3.1	U	190	3.1	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-81	4.6	U	19	4.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-82	4.8	U	190	4.8	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-83	5.2	U	190	5.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-84	**6.7**	**J**	190	4.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-85/116/117	**6.1**	**J q**	570	3.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-86/87/97/108/119/125	**13**	**J**	1100	3.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-88/91	3.6	U	380	3.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-89	4.1	U	190	4.1	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-90/101/113	**20**	**J B**	570	3.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-92	3.9	U	190	3.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-93/100	3.7	U	380	3.7	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-107/124	3.0	U	380	3.0	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-94	3.9	U	190	3.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-95	**19**	**J q B**	190	3.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-96	2.6	U	190	2.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-98/102	3.4	U	380	3.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-99	**6.3**	**J q**	190	3.8	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-103	3.4	U	190	3.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-104	2.4	U	190	2.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-105	**6.2**	**J B**	19	3.7	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-106	3.3	U	190	3.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-110/115	**23**	**J B**	380	2.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-109	2.8	U	190	2.8	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-111	2.7	U	190	2.7	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-112	2.6	U	190	2.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-114	3.3	U	19	3.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-115	**23**	**J B**	380	2.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-118	**12**	**J B**	19	3.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-120	2.8	U	190	2.8	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-121	2.7	U	190	2.7	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-122	3.4	U	190	3.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-123	3.2	U	19	3.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-126	4.0	U	19	4.0	pg/L		12/12/13 14:53	12/20/13 13:47	1

Client Sample ID: RINSATE

Lab Sample ID: 680-96214-7

Date Collected: 11/13/13 00:00
Date Received: 11/15/13 09:15

Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-127	3.3	U	190	3.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-128/166	4.1	U	380	4.1	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-129/138/163	**16**	**J B**	570	4.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-130	5.4	U	190	5.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-131	5.1	U	190	5.1	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-132	4.8	U	190	4.8	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-133	4.8	U	190	4.8	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-134/143	4.9	U	380	4.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-135/151	4.3	U	380	4.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-136	3.1	U	190	3.1	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-137	4.2	U	190	4.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-139/140	4.1	U	380	4.1	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-141	4.5	U	190	4.5	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-142	4.7	U	190	4.7	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-144	4.2	U	190	4.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-145	3.0	U	190	3.0	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-146	4.5	U	190	4.5	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-147/149	**13**	**J B**	380	4.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-148	4.2	U	190	4.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-150	2.8	U	190	2.8	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-152	2.9	U	190	2.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-153/168	**11**	**J q B**	380	3.5	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-154	3.7	U	190	3.7	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-155	2.9	U	190	2.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-156/157	4.2	U	38	4.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-158	3.2	U	190	3.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-159	3.4	U	190	3.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-160	3.7	U	190	3.7	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-161	3.2	U	190	3.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-162	3.3	U	190	3.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-164	3.6	U	190	3.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-165	3.7	U	190	3.7	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-167	3.3	U	19	3.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-169	4.4	U	19	4.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-170	3.2	U	190	3.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-171/173	3.0	U	380	3.0	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-172	3.6	U	190	3.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-174	5.5	U	190	5.5	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-175	3.4	U	190	3.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-176	**2.6**	**J q**	190	2.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-177	3.0	U	190	3.0	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-178	3.5	U	190	3.5	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-179	2.5	U	190	2.5	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-180/193	6.2	U	380	6.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-181	2.5	U	190	2.5	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-182	3.1	U	190	3.1	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-183	7.4	U	190	7.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-184	**4.5**	**J q**	190	2.5	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-185	2.7	U	190	2.7	pg/L		12/12/13 14:53	12/20/13 13:47	1

Client Sample ID: RINSATE

Lab Sample ID: 680-96214-7

Date Collected: 11/13/13 00:00
Date Received: 11/15/13 09:15

Matrix: Water

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-186	2.4	U	190	2.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-187	**5.3**	**J q**	190	3.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-188	**3.9**	**J q**	190	2.3	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-189	6.6	U	19	6.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-190	2.6	U	190	2.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-191	2.2	U	190	2.2	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-192	5.9	U	190	5.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-194	4.9	U	190	4.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-195	4.6	U	190	4.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-196	**13**	**J q**	190	3.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-197	**18**	**J**	190	2.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-198/199	**19**	**J**	380	4.1	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-200	2.7	U	190	2.7	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-201	**16**	**J**	190	2.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-202	2.9	U	190	2.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-203	**5.8**	**J q**	190	3.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-204	**7.7**	**J**	190	2.7	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-205	**6.6**	**J q**	190	3.8	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-206	**41**	**J q**	190	5.4	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-207	**69**	**J**	190	3.9	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-208	**40**	**J q**	190	4.6	pg/L		12/12/13 14:53	12/20/13 13:47	1
PCB-209	**650**		190	4.3	pg/L		12/12/13 14:53	12/20/13 13:47	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*48*		*5 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-3L	*53*		*5 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-4L	*60*		*5 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-15L	*63*		*5 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-19L	*67*		*5 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-37L	*62*		*5 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-54L	*62*		*5 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-77L	*66*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-81L	*64*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-104L	*58*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-105L	*69*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-114L	*69*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-118L	*69*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-123L	*70*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-126L	*70*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-155L	*63*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-156L/157L	*72*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-167L	*70*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-169L	*72*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-188L	*81*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-189L	*72*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-202L	*86*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-205L	*77*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-206L	*85*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-208L	*86*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-209L	*82*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Client Sample ID: RINSATE

Lab Sample ID: 680-96214-7

Date Collected: 11/13/13 00:00
Date Received: 11/15/13 09:15

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*84*		*5 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-111L	*90*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*
PCB-178L	*103*		*10 - 145*	*12/12/13 14:53*	*12/20/13 13:47*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	6.0	U	10	6.0	ug/L		12/16/13 17:03	12/18/13 18:24	1
Aluminum	80	U *	200	80	ug/L		12/16/13 17:03	12/18/13 18:24	1
Barium	4.0	U	50	4.0	ug/L		12/16/13 17:03	12/18/13 18:24	1
Beryllium	0.61	U	5.0	0.61	ug/L		12/16/13 17:03	12/18/13 18:24	1
Calcium	110	U	1000	110	ug/L		12/16/13 17:03	12/18/13 18:24	1
Cadmium	0.91	U	5.0	0.91	ug/L		12/16/13 17:03	12/18/13 18:24	1
Cobalt	4.9	U	50	4.9	ug/L		12/16/13 17:03	12/18/13 18:24	1
Chromium	3.1	U	10	3.1	ug/L		12/16/13 17:03	12/18/13 18:24	1
Copper	4.6	U	25	4.6	ug/L		12/16/13 17:03	12/18/13 18:24	1
Iron	28	U	100	28	ug/L		12/16/13 17:03	12/18/13 18:24	1
Potassium	1700	U *	5000	1700	ug/L		12/16/13 17:03	12/18/13 18:24	1
Magnesium	130	U	1000	130	ug/L		12/16/13 17:03	12/18/13 18:24	1
Manganese	3.3	U	15	3.3	ug/L		12/16/13 17:03	12/18/13 18:24	1
Sodium	320	U *	1000	320	ug/L		12/16/13 17:03	12/18/13 18:24	1
Nickel	13	U	40	13	ug/L		12/16/13 17:03	12/18/13 18:24	1
Lead	1.5	U	10	1.5	ug/L		12/16/13 17:03	12/18/13 18:24	1
Antimony	4.0	U	10	4.0	ug/L		12/16/13 17:03	12/18/13 18:24	1
Selenium	2.7	U	15	2.7	ug/L		12/16/13 17:03	12/18/13 18:24	1
Titanium	2.4	U	20	2.4	ug/L		12/16/13 17:03	12/18/13 18:24	1
Vanadium	4.1	U	50	4.1	ug/L		12/16/13 17:03	12/18/13 18:24	1
Zinc	10	J B	20	5.2	ug/L		12/16/13 17:03	12/18/13 18:24	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.2	U	10	1.2	ug/L		12/16/13 17:01	12/20/13 04:13	1
Niobium	2.2	U	25	2.2	ug/L		12/16/13 17:01	12/20/13 04:13	1
Thallium	0.55	U	2.0	0.55	ug/L		12/16/13 17:01	12/20/13 04:13	1
Uranium	0.23	U	1.0	0.23	ug/L		12/16/13 17:01	12/20/13 04:13	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060	U	0.20	0.060	ug/L		11/19/13 11:20	11/19/13 12:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0098	J H	0.020	0.0040	mg/L			11/15/13 17:04	1
Chloride	0.020	U	0.20	0.020	mg/L			11/15/13 17:04	1
Sulfate	0.050	U	0.50	0.050	mg/L			11/15/13 17:04	1

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	0.543	U	3.00	1.28	pCi/L		12/16/13 10:37	12/20/13 17:20	1
Gross Beta	0.240	U	4.00	0.865	pCi/L		12/16/13 10:37	12/20/13 17:20	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Client Sample ID: RINSATE

Lab Sample ID: 680-96214-7

Date Collected: 11/13/13 00:00
Date Received: 11/15/13 09:15

Matrix: Water

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	7.27	U		45.5	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Bismuth-214	-9.67	U		30.5	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Bismuth-212	8.78	U		126	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Bismuth-210M	-3.39	U		15.5	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Cesium-134	2.75	U		12.3	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Cesium-137	1.14	U		10.2	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Cobalt-57	1.09	U		6.73	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Cobalt-60	0.897	U		16.1	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Lead-212	5.28	U		17.3	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Lead-214	-0.174	U		27.6	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Potassium-40	-29.3	U		171	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Protactinium-231	-21.2	U		256	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Protactinium-234	-0.285	U		35.0	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Radium-224	3.22	U		204	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Thallium-208	3.43	U		14.0	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Thorium-234	-8.20	U		188	pCi/L		11/18/13 17:52	12/09/13 19:19	1
Thorium-227	12.2	U		71.4	pCi/L		11/18/13 17:52	12/09/13 19:19	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	0.0280	U	1.00	0.109	pCi/L		11/18/13 13:48	12/10/13 06:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*40 - 110*	*11/18/13 13:48*	*12/10/13 06:36*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	0.149	U	1.00	0.332	pCi/L		11/18/13 13:55	12/04/13 11:07	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*40 - 110*	*11/18/13 13:55*	*12/04/13 11:07*	*1*
Y Carrier	*90.1*		*40 - 110*	*11/18/13 13:55*	*12/04/13 11:07*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	0.0181	U	1.00	0.144	pCi/L		12/18/13 08:38	12/26/13 17:00	1
Thorium-230	**0.187**		1.00	0.172	pCi/L		12/18/13 08:38	12/26/13 17:00	1
Thorium-232	0.00917	U	1.00	0.119	pCi/L		12/18/13 08:38	12/26/13 17:00	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*92.2*		*30 - 110*	*12/18/13 08:38*	*12/26/13 17:00*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
U-238	-0.00418	U	1.00	0.102	pCi/L		12/18/13 08:38	12/26/13 17:02	1
Uranium-235/236	-0.00522	U	1.00	0.127	pCi/L		12/18/13 08:38	12/26/13 17:02	1
Uranium-233/234	0.0405	U	1.00	0.102	pCi/L		12/18/13 08:38	12/26/13 17:02	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*81.3*		*30 - 110*	*12/18/13 08:38*	*12/26/13 17:02*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Lab Sample ID: MB 320-31731/1-A
Matrix: Water
Analysis Batch: 33175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31731

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	11.0	J	200	1.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-2	7.99	J	200	1.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-3	7.79	J	200	1.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-4	64	U	200	64	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-5	40	U	200	40	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-6	41	U	200	41	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-7	38	U	200	38	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-8	40	U	200	40	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-9	43	U	200	43	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-10	44	U	200	44	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-11	42	U	200	42	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-12/13	42	U	400	42	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-14	35	U	200	35	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-15	46	U	200	46	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-16	6.7	U	200	6.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-17	4.7	U	200	4.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-18/30	8.03	J q	400	4.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-19	4.8	U	200	4.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-20/28	13.5	J q	400	2.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-21/33	9.26	J q	400	2.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-22	6.38	J q	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-23	2.3	U	200	2.3	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-24	3.5	U	200	3.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-25	2.4	U	200	2.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-26/29	2.4	U	400	2.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-27	3.5	U	200	3.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-31	13.6	J q	200	2.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-32	2.7	U	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-34	2.4	U	200	2.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-35	2.8	U	200	2.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-36	2.4	U	200	2.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-37	6.98	J q	200	3.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-38	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-39	2.5	U	200	2.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-40/71	6.48	J q	400	2.3	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-41	3.1	U	200	3.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-42	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-43	2.7	U	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-44/47/65	19.1	J	600	2.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-45	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-46	2.8	U	200	2.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-48	2.4	U	200	2.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-49/69	7.31	J	400	2.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-50/53	2.2	U	400	2.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-51	2.2	U	200	2.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-52	19.3	J	200	2.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-54	2.1	U	200	2.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-55	2.7	U	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-31731/1-A
Matrix: Water
Analysis Batch: 33175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31731

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-56	8.01	J q	200	3.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-57	2.7	U	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-58	2.7	U	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-59/62/75	1.7	U	600	1.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-60	2.8	U	200	2.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-61/70/74/76	22.2	J	800	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-63	2.5	U	200	2.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-64	5.19	J q	200	1.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-66	9.04	J q	200	3.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-67	2.5	U	200	2.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-68	2.4	U	200	2.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-72	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-73	1.9	U	200	1.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-77	4.4	U	20	4.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-78	3.0	U	200	3.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-79	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-80	2.5	U	200	2.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-81	4.1	U	20	4.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-82	4.6	U	200	4.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-83	5.0	U	200	5.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-84	4.1	U	200	4.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-85/116/117	3.1	U	600	3.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-86/87/97/108/119/125	3.1	U	1200	3.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-88/91	3.5	U	400	3.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-89	3.9	U	200	3.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-90/101/113	8.22	J	600	3.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-92	3.7	U	200	3.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-93/100	3.5	U	400	3.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-107/124	2.9	U	400	2.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-94	3.7	U	200	3.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-95	6.54	J q	200	3.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-96	1.7	U	200	1.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-98/102	3.3	U	400	3.3	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-99	3.7	U	200	3.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-103	3.2	U	200	3.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-104	1.5	U	200	1.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-105	6.51	J q	20	3.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-106	3.1	U	200	3.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-110/115	7.16	J q	400	2.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-109	2.7	U	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-111	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-112	2.5	U	200	2.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-114	3.3	U	20	3.3	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-115	7.16	J q	400	2.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-118	8.60	J	20	3.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-120	2.7	U	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-121	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-122	3.2	U	200	3.2	pg/L		12/12/13 14:53	12/19/13 18:45	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-31731/1-A
Matrix: Water
Analysis Batch: 33175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31731

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-123	3.2	U	20	3.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-126	4.4	U	20	4.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-127	3.1	U	200	3.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-128/166	3.8	U	400	3.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-129/138/163	5.66	J q	600	4.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-130	5.0	U	200	5.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-131	4.8	U	200	4.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-132	4.5	U	200	4.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-133	4.5	U	200	4.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-134/143	4.5	U	400	4.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-135/151	4.0	U	400	4.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-136	2.9	U	200	2.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-137	4.0	U	200	4.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-139/140	3.8	U	400	3.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-141	4.2	U	200	4.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-142	4.4	U	200	4.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-144	4.0	U	200	4.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-145	2.8	U	200	2.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-146	4.2	U	200	4.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-147/149	6.50	J q	400	3.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-148	3.9	U	200	3.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-150	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-152	2.7	U	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-153/168	5.81	J q	400	3.3	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-154	3.5	U	200	3.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-155	2.5	U	200	2.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-156/157	3.6	U	40	3.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-158	3.0	U	200	3.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-159	2.8	U	200	2.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-160	3.5	U	200	3.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-161	3.0	U	200	3.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-162	2.7	U	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-164	3.3	U	200	3.3	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-165	3.5	U	200	3.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-167	2.7	U	20	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-169	3.9	U	20	3.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-170	2.3	U	200	2.3	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-171/173	2.1	U	400	2.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-172	2.2	U	200	2.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-174	3.1	U	200	3.1	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-175	3.5	U	200	3.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-176	2.4	U	200	2.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-177	2.2	U	200	2.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-178	3.7	U	200	3.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-179	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-180/193	1.8	U	400	1.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-181	1.8	U	200	1.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-182	3.3	U	200	3.3	pg/L		12/12/13 14:53	12/19/13 18:45	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-31731/1-A
Matrix: Water
Analysis Batch: 33175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31731

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-183	1.6	U	200	1.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-184	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-185	2.8	U	200	2.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-186	2.5	U	200	2.5	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-187	3.4	U	200	3.4	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-188	2.3	U	200	2.3	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-189	5.0	U	20	5.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-190	1.6	U	200	1.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-191	1.6	U	200	1.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-192	1.6	U	200	1.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-194	4.0	U	200	4.0	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-195	3.7	U	200	3.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-196	2.8	U	200	2.8	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-197	1.9	U	200	1.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-198/199	2.9	U	400	2.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-200	1.9	U	200	1.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-201	1.9	U	200	1.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-202	1.9	U	200	1.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-203	2.6	U	200	2.6	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-204	1.9	U	200	1.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-205	3.3	U	200	3.3	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-206	3.9	U	200	3.9	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-207	2.7	U	200	2.7	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-208	3.2	U	200	3.2	pg/L		12/12/13 14:53	12/19/13 18:45	1
PCB-209	2.9	U	200	2.9	pg/L		12/12/13 14:53	12/19/13 18:45	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*69*		*5 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-15L	*74*		*5 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-123L	*73*		*10 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-114L	*73*		*10 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-3L	*60*		*5 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-118L	*74*		*10 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-126L	*69*		*10 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-202L	*107*		*10 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-169L	*70*		*10 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-206L	*95*		*10 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-37L	*65*		*5 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-19L	*90*		*5 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-188L	*102*		*10 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-54L	*79*		*5 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-156L/157L	*73*		*10 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-167L	*75*		*10 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-209L	*95*		*10 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-189L	*81*		*10 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-105L	*73*		*10 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-208L	*100*		*10 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*
PCB-1L	*53*		*5 - 145*	*12/12/13 14:53*	*12/19/13 18:45*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-31731/1-A
Matrix: Water
Analysis Batch: 33175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31731

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-104L	71		10 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-81L	64		10 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-77L	64		10 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-205L	85		10 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-155L	73		10 - 145	12/12/13 14:53	12/19/13 18:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	77		5 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-111L	89		10 - 145	12/12/13 14:53	12/19/13 18:45	1
PCB-178L	107		10 - 145	12/12/13 14:53	12/19/13 18:45	1

Lab Sample ID: LCS 320-31731/2-A
Matrix: Water
Analysis Batch: 33175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31731

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	2000	2120		pg/L		106	60 - 135
PCB-3	2000	2100		pg/L		105	60 - 135
PCB-4	2000	1970		pg/L		99	60 - 135
PCB-15	2000	2040		pg/L		102	60 - 135
PCB-19	2000	1810		pg/L		91	60 - 135
PCB-37	2000	2030		pg/L		102	60 - 135
PCB-54	2000	1780		pg/L		89	60 - 135
PCB-77	2000	1980		pg/L		99	60 - 135
PCB-81	2000	2060		pg/L		103	60 - 135
PCB-104	2000	2110		pg/L		105	60 - 135
PCB-105	2000	2010		pg/L		100	60 - 135
PCB-114	2000	1940		pg/L		97	60 - 135
PCB-118	2000	2010		pg/L		100	60 - 135
PCB-123	2000	1940		pg/L		97	60 - 135
PCB-126	2000	1930		pg/L		97	60 - 135
PCB-155	2000	2130		pg/L		106	60 - 135
PCB-156/157	4000	4050		pg/L		101	60 - 135
PCB-167	2000	2000		pg/L		100	60 - 135
PCB-169	2000	2020	G	pg/L		101	60 - 135
PCB-188	2000	2050		pg/L		103	60 - 135
PCB-189	2000	2000		pg/L		100	60 - 135
PCB-202	2000	2060		pg/L		103	60 - 135
PCB-205	2000	1990		pg/L		99	60 - 135
PCB-206	2000	1990		pg/L		100	60 - 135
PCB-208	2000	1940		pg/L		97	60 - 135
PCB-209	2000	2060		pg/L		103	60 - 135

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
PCB-4L	58		15 - 145
PCB-15L	66		15 - 145
PCB-123L	76		40 - 145
PCB-114L	76		40 - 145

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-31731/2-A
Matrix: Water
Analysis Batch: 33175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31731

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-3L	*51*		*15 - 145*
PCB-118L	*77*		*40 - 145*
PCB-126L	*75*		*40 - 145*
PCB-202L	*99*		*40 - 145*
PCB-169L	*75*		*40 - 145*
PCB-206L	*95*		*40 - 145*
PCB-37L	*63*		*15 - 145*
PCB-19L	*73*		*15 - 145*
PCB-188L	*95*		*40 - 145*
PCB-54L	*71*		*15 - 145*
PCB-156L/157L	*74*		*40 - 145*
PCB-167L	*74*		*40 - 145*
PCB-209L	*96*		*40 - 145*
PCB-189L	*79*		*40 - 145*
PCB-105L	*76*		*40 - 145*
PCB-208L	*100*		*40 - 145*
PCB-1L	*43*		*15 - 145*
PCB-104L	*69*		*40 - 145*
PCB-81L	*69*		*40 - 145*
PCB-77L	*71*		*40 - 145*
PCB-205L	*87*		*40 - 145*
PCB-155L	*73*		*40 - 145*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-28L	*72*		*5 - 145*
PCB-111L	*88*		*10 - 145*
PCB-178L	*102*		*10 - 145*

Lab Sample ID: LCSD 320-31731/3-A
Matrix: Water
Analysis Batch: 33175

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31731

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1	2000	2110		pg/L		106	60 - 135	0	50
PCB-3	2000	2160		pg/L		108	60 - 135	3	50
PCB-4	2000	1980		pg/L		99	60 - 135	0	50
PCB-15	2000	1970		pg/L		98	60 - 135	3	50
PCB-19	2000	1840		pg/L		92	60 - 135	2	50
PCB-37	2000	2010		pg/L		100	60 - 135	1	50
PCB-54	2000	1810		pg/L		91	60 - 135	2	50
PCB-77	2000	2050		pg/L		102	60 - 135	3	50
PCB-81	2000	2050		pg/L		103	60 - 135	0	50
PCB-104	2000	2100		pg/L		105	60 - 135	1	50
PCB-105	2000	2000		pg/L		100	60 - 135	0	50
PCB-114	2000	1940		pg/L		97	60 - 135	0	50
PCB-118	2000	2070		pg/L		103	60 - 135	3	50
PCB-123	2000	1960		pg/L		98	60 - 135	1	50
PCB-126	2000	1900		pg/L		95	60 - 135	2	50

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCSD 320-31731/3-A
Matrix: Water
Analysis Batch: 33175

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31731

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-155			2000	2110		pg/L		106	60 - 135	1	50
PCB-156/157			4000	4100		pg/L		102	60 - 135	1	50
PCB-167			2000	2010		pg/L		100	60 - 135	0	50
PCB-169			2000	2080	G	pg/L		104	60 - 135	3	50
PCB-188			2000	2060		pg/L		103	60 - 135	0	50
PCB-189			2000	2010		pg/L		101	60 - 135	1	50
PCB-202			2000	2080		pg/L		104	60 - 135	1	50
PCB-205			2000	2000		pg/L		100	60 - 135	0	50
PCB-206			2000	2010		pg/L		100	60 - 135	1	50
PCB-208			2000	1980		pg/L		99	60 - 135	2	50
PCB-209			2000	2100		pg/L		105	60 - 135	2	50

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
PCB-4L	*68*		*15 - 145*
PCB-15L	*74*		*15 - 145*
PCB-123L	*76*		*40 - 145*
PCB-114L	*76*		*40 - 145*
PCB-3L	*57*		*15 - 145*
PCB-118L	*76*		*40 - 145*
PCB-126L	*75*		*40 - 145*
PCB-202L	*99*		*40 - 145*
PCB-169L	*71*		*40 - 145*
PCB-206L	*91*		*40 - 145*
PCB-37L	*67*		*15 - 145*
PCB-19L	*82*		*15 - 145*
PCB-188L	*97*		*40 - 145*
PCB-54L	*79*		*15 - 145*
PCB-156L/157L	*72*		*40 - 145*
PCB-167L	*72*		*40 - 145*
PCB-209L	*91*		*40 - 145*
PCB-189L	*76*		*40 - 145*
PCB-105L	*75*		*40 - 145*
PCB-208L	*95*		*40 - 145*
PCB-1L	*51*		*15 - 145*
PCB-104L	*73*		*40 - 145*
PCB-81L	*68*		*40 - 145*
PCB-77L	*69*		*40 - 145*
PCB-205L	*84*		*40 - 145*
PCB-155L	*75*		*40 - 145*

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
PCB-28L	*76*		*5 - 145*
PCB-111L	*87*		*10 - 145*
PCB-178L	*102*		*10 - 145*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32403/1-A
Matrix: Solid
Analysis Batch: 32972

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32403

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	3.74	J	20	0.32	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-2	0.30	U	20	0.30	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-3	0.665	J q	20	0.28	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-4	7.2	U	20	7.2	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-5	4.7	U	20	4.7	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-6	4.8	U	20	4.8	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-7	4.4	U	20	4.4	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-8	4.6	U	20	4.6	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-9	5.0	U	20	5.0	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-10	3.7	U	20	3.7	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-11	5.35	J	20	4.9	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-12/13	5.0	U	40	5.0	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-14	4.1	U	20	4.1	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-15	4.5	U	20	4.5	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-16	1.9	U	20	1.9	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-17	1.4	U	20	1.4	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-18/30	1.2	U	40	1.2	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-19	1.7	U	20	1.7	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-20/28	0.951	J q	40	0.24	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-21/33	0.373	J q	40	0.22	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-22	0.25	U	20	0.25	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-23	0.21	U	20	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-24	1.0	U	20	1.0	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-25	0.22	U	20	0.22	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-26/29	0.22	U	40	0.22	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-27	1.0	U	20	1.0	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-31	0.898	J	20	0.22	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-32	0.79	U	20	0.79	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-34	0.22	U	20	0.22	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-35	0.26	U	20	0.26	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-36	0.23	U	20	0.23	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-37	0.27	U	20	0.27	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-38	0.24	U	20	0.24	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-39	0.23	U	20	0.23	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-40/71	0.21	U	40	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-41	0.27	U	20	0.27	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-42	0.23	U	20	0.23	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-43	0.24	U	20	0.24	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-44/47/65	1.74	J	60	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-45	0.23	U	20	0.23	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-46	0.25	U	20	0.25	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-48	0.21	U	20	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-49/69	0.252	J q	40	0.17	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-50/53	0.19	U	40	0.19	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-51	0.19	U	20	0.19	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-52	1.16	J	20	0.22	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-54	0.53	U	20	0.53	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-55	0.21	U	20	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32403/1-A
Matrix: Solid
Analysis Batch: 32972

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32403

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-56	0.23	U	20	0.23	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-57	0.21	U	20	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-58	0.21	U	20	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-59/62/75	0.15	U	60	0.15	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-60	0.22	U	20	0.22	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-61/70/74/76	0.915	J	80	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-63	0.20	U	20	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-64	0.14	U	20	0.14	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-66	0.572	J	20	0.24	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-67	0.20	U	20	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-68	0.19	U	20	0.19	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-72	0.20	U	20	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-73	0.16	U	20	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-77	0.24	U	2.0	0.24	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-78	0.24	U	20	0.24	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-79	0.21	U	20	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-80	0.20	U	20	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-81	0.23	U	2.0	0.23	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-82	0.29	U	20	0.29	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-83	0.32	U	20	0.32	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-84	0.27	U	20	0.27	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-85/116/117	0.20	U	60	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-86/87/97/108/119/125	0.20	U	120	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-88/91	0.22	U	40	0.22	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-89	0.25	U	20	0.25	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-90/101/113	0.605	J	60	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-92	0.24	U	20	0.24	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-93/100	0.23	U	40	0.23	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-107/124	0.19	U	40	0.19	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-94	0.24	U	20	0.24	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-95	0.517	J	20	0.22	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-96	0.090	U	20	0.090	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-98/102	0.21	U	40	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-99	0.24	U	20	0.24	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-103	0.21	U	20	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-104	0.11	U	20	0.11	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-105	0.21	U	2.0	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-106	0.20	U	20	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-110/115	0.719	J q	40	0.18	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-109	0.17	U	20	0.17	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-111	0.16	U	20	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-112	0.16	U	20	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-114	0.19	U	2.0	0.19	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-118	0.529	J q	2.0	0.18	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-120	0.18	U	20	0.18	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-121	0.16	U	20	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-122	0.21	U	20	0.21	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-123	0.19	U	2.0	0.19	pg/g		12/21/13 12:08	12/31/13 19:06	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32403/1-A
Matrix: Solid
Analysis Batch: 32972

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32403

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-126	0.23	U	2.0	0.23	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-127	0.20	U	20	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-128/166	0.13	U	40	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-129/138/163	0.523	J	60	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-130	0.17	U	20	0.17	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-131	0.16	U	20	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-132	0.183	J q	20	0.15	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-133	0.15	U	20	0.15	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-134/143	0.15	U	40	0.15	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-135/151	0.14	U	40	0.14	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-136	0.099	U	20	0.099	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-137	0.13	U	20	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-139/140	0.13	U	40	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-141	0.14	U	20	0.14	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-142	0.15	U	20	0.15	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-144	0.13	U	20	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-145	0.096	U	20	0.096	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-146	0.14	U	20	0.14	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-147/149	0.470	J	40	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-148	0.13	U	20	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-150	0.090	U	20	0.090	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-152	0.092	U	20	0.092	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-153/168	0.363	J q	40	0.11	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-154	0.12	U	20	0.12	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-155	0.12	U	20	0.12	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-156/157	0.16	U	4.0	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-158	0.10	U	20	0.10	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-159	0.15	U	20	0.15	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-160	0.12	U	20	0.12	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-161	0.10	U	20	0.10	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-162	0.14	U	20	0.14	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-164	0.11	U	20	0.11	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-165	0.12	U	20	0.12	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-167	0.13	U	2.0	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-169	0.16	U	2.0	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-170	0.17	U	20	0.17	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-171/173	0.16	U	40	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-172	0.16	U	20	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-174	0.16	U	20	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-175	0.18	U	20	0.18	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-176	0.12	U	20	0.12	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-177	0.16	U	20	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-178	0.19	U	20	0.19	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-179	0.13	U	20	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-180/193	0.249	J q	40	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-181	0.13	U	20	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-182	0.17	U	20	0.17	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-183	0.12	U	20	0.12	pg/g		12/21/13 12:08	12/31/13 19:06	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32403/1-A
Matrix: Solid
Analysis Batch: 32972

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32403

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-184	0.13	U	20	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-185	0.15	U	20	0.15	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-186	0.13	U	20	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-187	0.17	U	20	0.17	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-188	0.17	U	20	0.17	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-189	0.20	U	2.0	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-190	0.12	U	20	0.12	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-191	0.12	U	20	0.12	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-192	0.12	U	20	0.12	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-194	0.18	U	20	0.18	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-195	0.17	U	20	0.17	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-196	0.14	U	20	0.14	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-197	0.092	U	20	0.092	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-198/199	0.14	U	40	0.14	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-200	0.093	U	20	0.093	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-201	0.092	U	20	0.092	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-202	0.13	U	20	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-203	0.13	U	20	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-204	0.096	U	20	0.096	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-205	0.11	U	20	0.11	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-206	0.17	U	20	0.17	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-207	0.12	U	20	0.12	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-208	0.15	U	20	0.15	pg/g		12/21/13 12:08	12/31/13 19:06	1
PCB-209	1.26	J q	20	0.16	pg/g		12/21/13 12:08	12/31/13 19:06	1
Total Monochlorobiphenyls	4.41	J q	200	0.30	pg/g		12/21/13 12:08	12/31/13 19:06	1
Total Dichlorobiphenyls	5.35	J	200	4.8	pg/g		12/21/13 12:08	12/31/13 19:06	1
Total Trichlorobiphenyls	2.22	J q	200	0.60	pg/g		12/21/13 12:08	12/31/13 19:06	1
Total Tetrachlorobiphenyls	4.64	J q	200	0.22	pg/g		12/21/13 12:08	12/31/13 19:06	1
Total Pentachlorobiphenyls	2.37	J q	200	0.20	pg/g		12/21/13 12:08	12/31/13 19:06	1
Total Hexachlorobiphenyls	1.54	J q	200	0.13	pg/g		12/21/13 12:08	12/31/13 19:06	1
Total Heptachlorobiphenyls	0.249	J q	200	0.15	pg/g		12/21/13 12:08	12/31/13 19:06	1
Total Octachlorobiphenyls	0.18	U	200	0.18	pg/g		12/21/13 12:08	12/31/13 19:06	1
Total Nonachlorobiphenyls	0.17	U	200	0.17	pg/g		12/21/13 12:08	12/31/13 19:06	1
Polychlorinated biphenyls, Total	22.0	J q	200	0.69	pg/g		12/21/13 12:08	12/31/13 19:06	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*32*		*5 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-15L	*48*		*5 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-123L	*56*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-114L	*56*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-3L	*39*		*5 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-118L	*58*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-126L	*60*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-202L	*51*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-169L	*85*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-206L	*68*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-37L	*56*		*5 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-19L	*36*		*5 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-32403/1-A
Matrix: Solid
Analysis Batch: 32972

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32403

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-188L	*39*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-54L	*32*		*5 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-156L/157L	*82*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-167L	*78*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-209L	*60*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-189L	*71*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-105L	*57*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-208L	*67*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-1L	*30*		*5 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-104L	*36*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-81L	*60*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-77L	*61*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-205L	*75*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-155L	*48*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*55*		*5 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-111L	*56*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*
PCB-178L	*56*		*10 - 145*	*12/21/13 12:08*	*12/31/13 19:06*	*1*

Lab Sample ID: LCS 320-32403/2-A
Matrix: Solid
Analysis Batch: 32972

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32403

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	200	204		pg/g		102	60 - 135
PCB-3	200	206		pg/g		103	60 - 135
PCB-4	200	219		pg/g		109	60 - 135
PCB-15	200	204		pg/g		102	60 - 135
PCB-19	200	221		pg/g		111	60 - 135
PCB-37	200	210		pg/g		105	60 - 135
PCB-54	200	241		pg/g		121	60 - 135
PCB-77	200	205		pg/g		103	60 - 135
PCB-81	200	209		pg/g		104	60 - 135
PCB-104	200	217		pg/g		109	60 - 135
PCB-105	200	215		pg/g		107	60 - 135
PCB-114	200	212		pg/g		106	60 - 135
PCB-118	200	219		pg/g		109	60 - 135
PCB-123	200	206		pg/g		103	60 - 135
PCB-126	200	211		pg/g		105	60 - 135
PCB-155	200	230		pg/g		115	60 - 135
PCB-156/157	400	416		pg/g		104	60 - 135
PCB-167	200	207		pg/g		104	60 - 135
PCB-169	200	216		pg/g		108	60 - 135
PCB-188	200	222		pg/g		111	60 - 135
PCB-189	200	209		pg/g		104	60 - 135
PCB-202	200	229		pg/g		114	60 - 135
PCB-205	200	202		pg/g		101	60 - 135

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-32403/2-A
Matrix: Solid
Analysis Batch: 32972

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32403

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-206	200	210		pg/g		105	60 - 135
PCB-208	200	207		pg/g		104	60 - 135
PCB-209	200	208		pg/g		104	60 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-4L	*35*		*15 - 145*
PCB-15L	*48*		*15 - 145*
PCB-123L	*60*		*40 - 145*
PCB-114L	*59*		*40 - 145*
PCB-3L	*40*		*15 - 145*
PCB-118L	*60*		*40 - 145*
PCB-126L	*61*		*40 - 145*
PCB-202L	*52*		*40 - 145*
PCB-169L	*87*		*40 - 145*
PCB-206L	*73*		*40 - 145*
PCB-37L	*56*		*15 - 145*
PCB-19L	*39*		*15 - 145*
PCB-188L	*42*		*40 - 145*
PCB-54L	*31*		*15 - 145*
PCB-156L/157L	*87*		*40 - 145*
PCB-167L	*81*		*40 - 145*
PCB-209L	*63*		*40 - 145*
PCB-189L	*77*		*40 - 145*
PCB-105L	*60*		*40 - 145*
PCB-208L	*73*		*40 - 145*
PCB-1L	*34*		*15 - 145*
PCB-104L	*38*	*	*40 - 145*
PCB-81L	*60*		*40 - 145*
PCB-77L	*61*		*40 - 145*
PCB-205L	*81*		*40 - 145*
PCB-155L	*49*		*40 - 145*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-28L	*51*		*5 - 145*
PCB-111L	*55*		*10 - 145*
PCB-178L	*56*		*10 - 145*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 160-89692/1-A
Matrix: Solid
Analysis Batch: 93352

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89692

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13	U	18	13	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Barium	0.22	U	4.5	0.22	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Beryllium	0.15	U	0.45	0.15	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Cadmium	0.089	U	0.45	0.089	mg/Kg		12/04/13 10:55	12/18/13 18:42	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 160-89692/1-A
Matrix: Solid
Analysis Batch: 93352

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89692

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	12	U	220	12	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Chromium	0.27	U	0.89	0.27	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Cobalt	0.84	U	4.5	0.84	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Copper	0.65	U	2.2	0.65	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Iron	2.7	U	8.9	2.7	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Magnesium	7.4	U	89	7.4	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Manganese	0.14	U	0.89	0.14	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Nickel	0.20	U	3.6	0.20	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Lead	0.15	U	0.89	0.15	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Antimony	0.57	U	0.89	0.57	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Silver	0.21	U	0.89	0.21	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Selenium	0.26	U	1.3	0.26	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Titanium	0.56	U	1.8	0.56	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Vanadium	1.1	U	4.5	1.1	mg/Kg		12/04/13 10:55	12/18/13 18:42	1
Zinc	1.8	U	4.5	1.8	mg/Kg		12/04/13 10:55	12/18/13 18:42	1

Lab Sample ID: MB 160-89692/1-A
Matrix: Solid
Analysis Batch: 93540

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89692

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13	U	18	13	mg/Kg		12/04/13 10:55	12/19/13 19:50	1
Potassium	300	U	450	300	mg/Kg		12/04/13 10:55	12/19/13 19:50	1
Sodium	42	U	89	42	mg/Kg		12/04/13 10:55	12/19/13 19:50	1

Lab Sample ID: LCS 160-89692/2-A
Matrix: Solid
Analysis Batch: 93352

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89692

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	325	328		mg/Kg		101	74 - 125
Beryllium	92.1	86.8		mg/Kg		94	74 - 126
Cadmium	110	104		mg/Kg		95	73 - 139
Calcium	6700	6220		mg/Kg		93	74 - 125
Chromium	93.4	90.6		mg/Kg		97	69 - 130
Cobalt	133	132		mg/Kg		99	74 - 125
Copper	74.7	72.0		mg/Kg		96	73 - 126
Iron	13100	11000		mg/Kg		84	32 - 167
Magnesium	2980	2500		mg/Kg		84	66 - 134
Manganese	443	383		mg/Kg		87	77 - 124
Nickel	109	107		mg/Kg		98	72 - 126
Lead	152	149		mg/Kg		98	73 - 126
Antimony	121	59.2		mg/Kg		49	21 - 251
Silver	51.9	51.4		mg/Kg		99	66 - 133
Selenium	207	196		mg/Kg		95	69 - 131
Titanium	193	185		mg/Kg		96	29 - 171
Vanadium	110	94.4		mg/Kg		86	67 - 132
Zinc	299	286		mg/Kg		96	71 - 128

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 160-89692/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 93540 — **Prep Batch: 89692**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	9780	7130		mg/Kg		73	44 - 155
Potassium	2770	2410		mg/Kg		87	61 - 138
Sodium	724	683		mg/Kg		94	56 - 144

Lab Sample ID: 680-96214-1 MS — **Client Sample ID: DD-B-5_SS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 93352 — **Prep Batch: 89692**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	350		100	293	F	mg/Kg	☼	-54	75 - 125
Beryllium	0.83	U	100	92.8		mg/Kg	☼	93	75 - 125
Cadmium	0.54	J	100	100		mg/Kg	☼	99	75 - 125
Calcium	21000		1000	21300	4	mg/Kg	☼	16	75 - 125
Chromium	46		100	138		mg/Kg	☼	92	75 - 125
Cobalt	19	J	100	120		mg/Kg	☼	101	75 - 125
Copper	44		100	152		mg/Kg	☼	108	75 - 125
Iron	13000		1000	14000	4	mg/Kg	☼	56	75 - 125
Magnesium	11000		1000	10900	4	mg/Kg	☼	-5	75 - 125
Manganese	2600		100	2510	4	mg/Kg	☼	-62	75 - 125
Nickel	27		100	126		mg/Kg	☼	99	75 - 125
Lead	26		100	128		mg/Kg	☼	102	75 - 125
Antimony	3.2	U	50.1	22.8	F	mg/Kg	☼	46	75 - 125
Silver	1.2	U	20.1	20.3		mg/Kg	☼	101	75 - 125
Selenium	1.5	J	50.1	45.4		mg/Kg	☼	87	75 - 125
Titanium	1100		100	1280	4	mg/Kg	☼	170	75 - 125
Vanadium	77		100	164		mg/Kg	☼	86	75 - 125
Zinc	60		100	162		mg/Kg	☼	102	75 - 125

Lab Sample ID: 680-96214-1 MS — **Client Sample ID: DD-B-5_SS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 93540 — **Prep Batch: 89692**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	9900		1000	11000	4	mg/Kg	☼	109	75 - 125
Potassium	2200	J	1000	3070		mg/Kg	☼	85	75 - 125
Sodium	470	J	1000	1550		mg/Kg	☼	108	75 - 125

Lab Sample ID: 680-96214-1 MSD — **Client Sample ID: DD-B-5_SS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 93352 — **Prep Batch: 89692**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	350		102	371	F	mg/Kg	☼	24	75 - 125	24	30
Beryllium	0.83	U	102	96.0		mg/Kg	☼	94	75 - 125	3	30
Cadmium	0.54	J	102	100		mg/Kg	☼	97	75 - 125	0	30
Calcium	21000		1020	23700	4	mg/Kg	☼	258	75 - 125	11	30
Chromium	46		102	151		mg/Kg	☼	103	75 - 125	9	30
Cobalt	19	J	102	120		mg/Kg	☼	98	75 - 125	1	30
Copper	44		102	158		mg/Kg	☼	111	75 - 125	4	30

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 680-96214-1 MSD — **Client Sample ID: DD-B-5_SS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 93352 — **Prep Batch: 89692**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	13000		1020	15500	4	mg/Kg	☼	202	75 - 125	10	30
Magnesium	11000		1020	11300	4	mg/Kg	☼	41	75 - 125	4	30
Manganese	2600		102	3230	4	mg/Kg	☼	647	75 - 125	25	30
Nickel	27		102	127		mg/Kg	☼	98	75 - 125	0	30
Lead	26		102	132		mg/Kg	☼	104	75 - 125	3	30
Antimony	3.2	U	51.1	20.2	F	mg/Kg	☼	40	75 - 125	12	30
Silver	1.2	U	20.4	21.7		mg/Kg	☼	106	75 - 125	7	30
Selenium	1.5	J	51.1	45.4		mg/Kg	☼	86	75 - 125	0	30
Titanium	1100		102	1510	4	mg/Kg	☼	395	75 - 125	17	30
Vanadium	77		102	183		mg/Kg	☼	104	75 - 125	11	30
Zinc	60		102	166		mg/Kg	☼	103	75 - 125	2	30

Lab Sample ID: 680-96214-1 MSD — **Client Sample ID: DD-B-5_SS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 93540 — **Prep Batch: 89692**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	9900		1020	13100	4	mg/Kg	☼	311	75 - 125	17	30
Potassium	2200	J	1020	3600	F	mg/Kg	☼	136	75 - 125	16	30
Sodium	470	J	1020	1760	F	mg/Kg	☼	126	75 - 125	13	30

Lab Sample ID: MB 160-92546/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 93352 — **Prep Batch: 92546**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	80	U	200	80	ug/L		12/16/13 17:03	12/18/13 18:08	1
Barium	4.0	U	50	4.0	ug/L		12/16/13 17:03	12/18/13 18:08	1
Beryllium	0.61	U	5.0	0.61	ug/L		12/16/13 17:03	12/18/13 18:08	1
Cadmium	0.91	U	5.0	0.91	ug/L		12/16/13 17:03	12/18/13 18:08	1
Calcium	110	U	1000	110	ug/L		12/16/13 17:03	12/18/13 18:08	1
Chromium	3.1	U	10	3.1	ug/L		12/16/13 17:03	12/18/13 18:08	1
Cobalt	4.9	U	50	4.9	ug/L		12/16/13 17:03	12/18/13 18:08	1
Copper	4.6	U	25	4.6	ug/L		12/16/13 17:03	12/18/13 18:08	1
Iron	28	U	100	28	ug/L		12/16/13 17:03	12/18/13 18:08	1
Magnesium	130	U	1000	130	ug/L		12/16/13 17:03	12/18/13 18:08	1
Manganese	3.3	U	15	3.3	ug/L		12/16/13 17:03	12/18/13 18:08	1
Nickel	13	U	40	13	ug/L		12/16/13 17:03	12/18/13 18:08	1
Potassium	1700	U	5000	1700	ug/L		12/16/13 17:03	12/18/13 18:08	1
Lead	1.5	U	10	1.5	ug/L		12/16/13 17:03	12/18/13 18:08	1
Antimony	4.0	U	10	4.0	ug/L		12/16/13 17:03	12/18/13 18:08	1
Silver	6.0	U	10	6.0	ug/L		12/16/13 17:03	12/18/13 18:08	1
Selenium	2.7	U	15	2.7	ug/L		12/16/13 17:03	12/18/13 18:08	1
Sodium	320	U	1000	320	ug/L		12/16/13 17:03	12/18/13 18:08	1
Titanium	2.4	U	20	2.4	ug/L		12/16/13 17:03	12/18/13 18:08	1
Vanadium	4.1	U	50	4.1	ug/L		12/16/13 17:03	12/18/13 18:08	1
Zinc	5.80	J	20	5.2	ug/L		12/16/13 17:03	12/18/13 18:08	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 160-92546/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 93352 — **Prep Batch: 92546**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10000	12200	*	ug/L		122	80 - 120
Barium	1000	1160		ug/L		116	80 - 120
Beryllium	1000	1060		ug/L		106	80 - 120
Cadmium	1000	1090		ug/L		109	80 - 120
Calcium	10000	11400		ug/L		114	80 - 120
Chromium	1000	1110		ug/L		111	80 - 120
Cobalt	1000	1130		ug/L		113	80 - 120
Copper	1000	1140		ug/L		114	80 - 120
Iron	10000	10300		ug/L		103	80 - 120
Magnesium	10000	10000		ug/L		100	80 - 120
Manganese	1000	1020		ug/L		102	80 - 120
Nickel	1000	1160		ug/L		116	80 - 120
Potassium	10000	15700	*	ug/L		157	80 - 120
Lead	1000	1150		ug/L		115	80 - 120
Antimony	500	540		ug/L		108	80 - 120
Silver	200	223		ug/L		111	80 - 120
Selenium	500	542		ug/L		108	80 - 120
Sodium	10000	16100	*	ug/L		161	80 - 120
Titanium	1000	1050		ug/L		105	80 - 120
Vanadium	1000	1010		ug/L		101	80 - 120
Zinc	1000	1110		ug/L		111	80 - 120

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-87033/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 92574 — **Prep Batch: 87033**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.23	U	0.89	0.23	mg/Kg		11/21/13 09:19	12/17/13 01:18	2
Niobium	0.34	U	2.2	0.34	mg/Kg		11/21/13 09:19	12/17/13 01:18	2
Thallium	0.14	U ^	0.45	0.14	mg/Kg		11/21/13 09:19	12/17/13 01:18	2
Uranium	0.018	U	0.089	0.018	mg/Kg		11/21/13 09:19	12/17/13 01:18	2

Lab Sample ID: LCS 160-87033/12-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 92574 — **Prep Batch: 87033**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Niobium	47.9	48.5	E	mg/Kg		101	80 - 120
Uranium	95.8	99.0		mg/Kg		103	80 - 120

Lab Sample ID: LCS 160-87033/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 92574 — **Prep Batch: 87033**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	109	108		mg/Kg		99	70 - 131

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 160-87033/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 92574 — **Prep Batch: 87033**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	171	185	^	mg/Kg		108	68 - 131

Lab Sample ID: 680-96214-1 MS — **Client Sample ID: DD-B-5_SS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 92574 — **Prep Batch: 87033**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.3	J	99.3	104		mg/Kg	☼	100	75 - 125
Niobium	50		49.6	95.4		mg/Kg	☼	92	75 - 125
Thallium	0.76	U ^	19.9	21.1	^	mg/Kg	☼	106	75 - 125
Uranium	4.5		99.3	105		mg/Kg	☼	101	75 - 125

Lab Sample ID: 680-96214-1 MSD — **Client Sample ID: DD-B-5_SS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 92574 — **Prep Batch: 87033**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	4.3	J	98.4	102		mg/Kg	☼	99	75 - 125	1	30
Niobium	50		49.2	92.5		mg/Kg	☼	87	75 - 125	3	30
Thallium	0.76	U ^	19.7	21.4	^	mg/Kg	☼	109	75 - 125	1	30
Uranium	4.5		98.4	106		mg/Kg	☼	103	75 - 125	1	30

Lab Sample ID: MB 160-92545/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 93570 — **Prep Batch: 92545**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.2	U	10	1.2	ug/L		12/16/13 17:01	12/20/13 02:53	1
Niobium	2.2	U	25	2.2	ug/L		12/16/13 17:01	12/20/13 02:53	1
Thallium	0.55	U	2.0	0.55	ug/L		12/16/13 17:01	12/20/13 02:53	1
Uranium	0.23	U	1.0	0.23	ug/L		12/16/13 17:01	12/20/13 02:53	1

Lab Sample ID: LCS 160-92545/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 93570 — **Prep Batch: 92545**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1000	996		ug/L		100	80 - 120
Niobium	500	555	E	ug/L		111	80 - 120
Thallium	200	218		ug/L		109	80 - 120
Uranium	1000	1030		ug/L		103	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 160-86332/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 86377 — **Prep Batch: 86332**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060	U	0.20	0.060	ug/L		11/19/13 11:20	11/19/13 12:42	1

Lab Sample ID: LCS 160-86332/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 86377 — **Prep Batch: 86332**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.13		ug/L		103	80 - 120

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 160-86158/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 87669 — **Prep Batch: 86158**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.032	0.011	mg/Kg		11/18/13 14:10	11/24/13 12:04	1

Lab Sample ID: LCS 160-86158/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 87669 — **Prep Batch: 86158**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	16.3	14.7		mg/Kg		90	51 - 148

Lab Sample ID: 680-96214-1 MS — **Client Sample ID: DD-B-5_SS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 87669 — **Prep Batch: 86158**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.045		0.824	0.879		mg/Kg	☼	101	80 - 120

Lab Sample ID: 680-96214-1 MSD — **Client Sample ID: DD-B-5_SS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 87669 — **Prep Batch: 86158**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.045		0.822	0.881		mg/Kg	☼	102	80 - 120	0	30

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 160-86828/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 86828

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0040	U	0.020	0.0040	mg/L			11/15/13 16:34	1
Chloride	0.020	U	0.20	0.020	mg/L			11/15/13 16:34	1
Sulfate	0.050	U	0.50	0.050	mg/L			11/15/13 16:34	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 160-86828/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 86828

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.400	0.394		mg/L		99	90 - 110
Chloride	2.00	1.90		mg/L		95	90 - 110
Sulfate	8.00	7.74		mg/L		97	90 - 110

Lab Sample ID: 680-96214-7 MS — **Client Sample ID: RINSATE**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 86828

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.0098	J H	0.400	0.405		mg/L		99	90 - 110
Chloride	0.020	U	2.00	1.89		mg/L		94	90 - 110
Sulfate	0.050	U	4.00	3.79		mg/L		95	90 - 110

Lab Sample ID: 680-96214-7 MSD — **Client Sample ID: RINSATE**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 86828

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.0098	J H	0.400	0.398		mg/L		97	90 - 110	2	20
Chloride	0.020	U	2.00	1.88		mg/L		94	90 - 110	0	20
Sulfate	0.050	U	4.00	3.80		mg/L		95	90 - 110	0	20

Lab Sample ID: MB 160-89704/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 92586

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.040	U	0.20	0.040	mg/Kg			12/05/13 13:17	1
Chloride	0.20	U	2.0	0.20	mg/Kg			12/05/13 13:17	1
Sulfate	0.50	U	5.0	0.50	mg/Kg			12/05/13 13:17	1

Lab Sample ID: LCS 160-89704/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 92586

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	4.00	3.85		mg/Kg		96	90 - 110
Chloride	20.0	20.1		mg/Kg		101	90 - 110
Sulfate	80.0	77.3		mg/Kg		97	90 - 110

Lab Sample ID: 680-96214-1 MS — **Client Sample ID: DD-B-5_SS**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 92586

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	7.6		4.12	11.8		mg/Kg	☼	101	90 - 110
Chloride	22		20.6	44.4		mg/Kg	☼	108	90 - 110
Sulfate	61		41.2	104		mg/Kg	☼	105	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 680-96214-1 MSD — **Client Sample ID: DD-B-5_SS**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 92586

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	7.6		4.12	11.8		mg/Kg	☼	100	90 - 110	0	20
Chloride	22		20.6	44.6		mg/Kg	☼	109	90 - 110	1	20
Sulfate	61		41.2	103		mg/Kg	☼	104	90 - 110	1	20

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Lab Sample ID: MB 160-90393/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 90524 — **Prep Batch: 90393**

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	2.471	U	10.0	4.17	pCi/g		12/09/13 08:58	12/09/13 20:41	1
Gross Beta	-0.05760	U	10.0	2.15	pCi/g		12/09/13 08:58	12/09/13 20:41	1

Lab Sample ID: LCS 160-90393/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 90524 — **Prep Batch: 90393**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Alpha	27.1	26.72		6.43	4.57	pCi/g	99	44 - 140
Gross Beta	26.8	23.89		3.81	2.70	pCi/g	89	38 - 130

Lab Sample ID: 680-96214-3 DU — **Client Sample ID: NS-B-2_SS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 90524 — **Prep Batch: 90393**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Gross Alpha	108		108.9		16.5	4.43	pCi/g	0.02	1
Gross Beta	55.8		56.70		7.30	3.41	pCi/g	0.06	1

Lab Sample ID: MB 160-92247/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 93509 — **Prep Batch: 92247**

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.2349	U	3.00	1.29	pCi/L		12/16/13 10:37	12/19/13 11:59	1
Gross Beta	-0.1423	U	4.00	0.838	pCi/L		12/16/13 10:37	12/19/13 11:59	1

Lab Sample ID: LCS 160-92247/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 93509 — **Prep Batch: 92247**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Alpha	53.8	62.46		8.75	1.69	pCi/L	116	75 - 125

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity (Continued)

Lab Sample ID: LCSB 160-92247/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 93509 — **Prep Batch: 92247**

Analyte	Spike Added	LCSB Result	LCSB Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Beta	98.3	100.7		10.6	1.02	pCi/L	102	75 - 125

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-86195/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91178 — **Prep Batch: 86195**

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	12.24	U		32.9	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Bismuth-212	-0.1545	U		134	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Bismuth-214	6.006	U		22.3	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Bismuth-210M	0.0000	U		13.8	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Cesium-134	0.8725	U		9.46	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Cesium-137	2.283	U		11.2	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Cobalt-57	0.9808	U		4.90	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Cobalt-60	3.206	U		9.57	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Lead-212	-3.854	U		18.6	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Lead-214	-6.790	U		22.8	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Potassium-40	-49.12	U		175	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Protactinium-231	31.73	U		194	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Protactinium-234	0.7426	U		30.0	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Radium-224	2.527	U		132	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Thallium-208	-0.4973	U		12.8	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Thorium-227	-0.1314	U		58.1	pCi/L		11/18/13 17:52	12/11/13 20:49	1
Thorium-234	-28.72	U		191	pCi/L		11/18/13 17:52	12/11/13 20:49	1

Lab Sample ID: LCS 160-86195/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91181 — **Prep Batch: 86195**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Cesium-137	44000	42320		4240	114	pCi/L	96	90 - 111
Cobalt-60	29900	28120		2780	68.9	pCi/L	94	89 - 110

Lab Sample ID: MB 160-87427/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 92182 — **Prep Batch: 87427**

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Actinium 228	-0.06383	U		0.361	pCi/g		11/22/13 12:38	12/13/13 15:33	1
Bismuth-212	0.0000	U		1.35	pCi/g		11/22/13 12:38	12/13/13 15:33	1
Bismuth-214	-0.05041	U		0.170	pCi/g		11/22/13 12:38	12/13/13 15:33	1
Bismuth-210M	0.01418	U		0.0917	pCi/g		11/22/13 12:38	12/13/13 15:33	1
Cesium-134	0.009292	U		0.0975	pCi/g		11/22/13 12:38	12/13/13 15:33	1
Cesium-137	-0.01521	U		0.114	pCi/g		11/22/13 12:38	12/13/13 15:33	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: MB 160-87427/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 92182 — **Prep Batch: 87427**

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt-57	0.0003680	U		0.0361	pCi/g		11/22/13 12:38	12/13/13 15:33	1
Cobalt-60	0.001910	U		0.100	pCi/g		11/22/13 12:38	12/13/13 15:33	1
Lead-212	0.05275	U		0.114	pCi/g		11/22/13 12:38	12/13/13 15:33	1
Lead-214	0.06372	U		0.133	pCi/g		11/22/13 12:38	12/13/13 15:33	1
Potassium-40	-0.2937	U		0.952	pCi/g		11/22/13 12:38	12/13/13 15:33	1
Protactinium-231	-0.03080	U		1.83	pCi/g		11/22/13 12:38	12/13/13 15:33	1
Protactinium-234	0.001205	U		0.190	pCi/g		11/22/13 12:38	12/13/13 15:33	1
Radium-224	-0.3603	U		1.45	pCi/g		11/22/13 12:38	12/13/13 15:33	1
Thallium-208	0.01834	U		0.0940	pCi/g		11/22/13 12:38	12/13/13 15:33	1
Thorium-227	-0.02331	U		0.479	pCi/g		11/22/13 12:38	12/13/13 15:33	1
Thorium-234	0.07137	U		1.41	pCi/g		11/22/13 12:38	12/13/13 15:33	1

Lab Sample ID: LCS 160-87427/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 92033 — **Prep Batch: 87427**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Cesium-137	31.4	31.05		3.30	0.230	pCi/g	99	87 - 120
Cobalt-60	23.8	23.20		2.38	0.0937	pCi/g	98	87 - 115
Americium-241	97.5	94.83		9.96	1.11	pCi/g	97	87 - 116

Lab Sample ID: 680-96214-3 DU — **Client Sample ID: NS-B-2_SS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 92188 — **Prep Batch: 87427**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Actinium 228	2.60		2.586		0.515	0.300	pCi/g	0.01	1
Bismuth-212	3.46		3.489		1.64	1.61	pCi/g	0.01	1
Bismuth-214	3.89		4.283		0.655	0.251	pCi/g	0.33	1
Bismuth-210M	-0.00195	U	0.001575	U	0.145	0.252	pCi/g	0.02	1
Cesium-134	0.0832	U	0.07290	U	0.0653	0.118	pCi/g	0.1	1
Cesium-137	-0.00321	U	0.05412	U	0.0898	0.152	pCi/g	0.37	1
Cobalt-57	0.0669	U	-0.01307	U	0.0719	0.122	pCi/g	0.64	1
Cobalt-60	-0.0152	U	0.02806	U	0.0868	0.215	pCi/g	0.28	1
Lead-212	2.46		2.615		0.433	0.236	pCi/g	0.19	1
Lead-214	4.20		4.049		0.585	0.367	pCi/g	0.14	1
Potassium-40	21.4		23.32		3.87	1.22	pCi/g	0.28	1
Protactinium-231	2.38		1.909	U	2.09	3.99	pCi/g	0.15	1
Protactinium-234	0.0120	U	0.01854	U	0.340	0.603	pCi/g	0.02	1
Radium-224	2.67	U	2.452	U	2.40	3.87	pCi/g	0.05	1
Thallium-208	0.883		0.8470		0.187	0.123	pCi/g	0.10	1
Thorium-227	0.154	U	0.1268	U	0.227	2.87	pCi/g	0.03	1
Thorium-234	2.88		3.563	U	1.39	3.70	pCi/g	0.29	1

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-86142/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 90958 — **Prep Batch: 86142**

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	0.05546	U	1.00	0.0884	pCi/L		11/18/13 13:48	12/10/13 06:36	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.2*		*40 - 110*	*11/18/13 13:48*	*12/10/13 06:36*	*1*

Lab Sample ID: LCS 160-86142/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 90958 — **Prep Batch: 86142**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.2	10.63		1.05	0.0969	pCi/L	95	68 - 137

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*100*		*40 - 110*

Lab Sample ID: 680-96214-7 DU — **Client Sample ID: RINSATE**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 90958 — **Prep Batch: 86142**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Radium-226	0.0280	U	0.04313	U	0.0618	0.104	pCi/L	0.12	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*93.2*		*40 - 110*

Lab Sample ID: MB 160-87447/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 92650 — **Prep Batch: 87447**

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-226	0.04979	U	1.00	0.0915	pCi/g		11/22/13 13:48	12/17/13 08:47	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*102*		*40 - 110*	*11/22/13 13:48*	*12/17/13 08:47*	*1*

Lab Sample ID: LCS 160-87447/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 92650 — **Prep Batch: 87447**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.2	10.55		1.05	0.0821	pCi/g	94	65 - 140

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-87447/2-A
Matrix: Solid
Analysis Batch: 92650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87447

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	109		40 - 110

Lab Sample ID: 680-96214-3 DU
Matrix: Solid
Analysis Batch: 92650

Client Sample ID: NS-B-2_SS
Prep Type: Total/NA
Prep Batch: 87447

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)		MDC	Unit			RER	RER Limit
Radium-226	5.04			4.270		0.483		0.104	pCi/g			0.74	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	115	X	40 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-86143/1-A
Matrix: Water
Analysis Batch: 89753

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 86143

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	0.1401	U	1.00	0.325	pCi/L		11/18/13 13:55	12/04/13 11:07	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110	11/18/13 13:55	12/04/13 11:07	1
Y Carrier	87.1		40 - 110	11/18/13 13:55	12/04/13 11:07	1

Lab Sample ID: LCS 160-86143/2-A
Matrix: Water
Analysis Batch: 89753

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 86143

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Radium-228	4.07	3.677		0.530		0.328	pCi/L	90	56 - 140		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	100		40 - 110
Y Carrier	89.7		40 - 110

Lab Sample ID: 680-96214-7 DU
Matrix: Water
Analysis Batch: 89753

Client Sample ID: RINSATE
Prep Type: Total/NA
Prep Batch: 86143

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)		MDC	Unit			RER	RER Limit
Radium-228	0.149	U		0.1072	U	0.223		0.382	pCi/L			0.1	1

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 680-96214-7 DU — **Client Sample ID: RINSATE**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 89753 — **Prep Batch: 86143**

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	93.2		40 - 110
Y Carrier	89.7		40 - 110

Lab Sample ID: MB 160-87450/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 91104 — **Prep Batch: 87450**

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Radium-228	0.2546	U	1.00	0.315	pCi/g		11/22/13 14:11	12/11/13 10:58	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110	11/22/13 14:11	12/11/13 10:58	1
Y Carrier	85.6		40 - 110	11/22/13 14:11	12/11/13 10:58	1

Lab Sample ID: LCS 160-87450/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 91104 — **Prep Batch: 87450**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Radium-228	4.06	4.173		0.596	0.382	pCi/g	103	61 - 139

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	109		40 - 110
Y Carrier	82.6		40 - 110

Lab Sample ID: 680-96214-3 DU — **Client Sample ID: NS-B-2_SS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 91104 — **Prep Batch: 87450**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Radium-228	1.80		2.099		0.402	0.359	pCi/g	0.39	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	115	X	40 - 110
Y Carrier	80.7		40 - 110

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Lab Sample ID: MB 160-92254/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 94589 — **Prep Batch: 92254**

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	0.04554		1.00	0.0327	pCi/g		12/16/13 13:26	12/24/13 17:35	1
Thorium-230	0.04794		1.00	0.0275	pCi/g		12/16/13 13:26	12/24/13 17:35	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry) (Continued)

Lab Sample ID: MB 160-92254/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 94589 — **Prep Batch: 92254**

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-232	0.005770	U	1.00	0.0325	pCi/g		12/16/13 13:26	12/24/13 17:35	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*82.0*		*30 - 110*	*12/16/13 13:26*	*12/24/13 17:35*	*1*

Lab Sample ID: LCS 160-92254/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 94590 — **Prep Batch: 92254**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Thorium-230	24.5	21.99		2.06	0.0681	pCi/g	90	81 - 118

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Thorium-229	*92.5*		*30 - 110*

Lab Sample ID: MB 160-92428/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 95201 — **Prep Batch: 92428**

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	0.06046	U	1.00	0.0700	pCi/g		12/16/13 15:38	12/27/13 20:53	1
Thorium-230	0.1744		1.00	0.0535	pCi/g		12/16/13 15:38	12/27/13 20:53	1
Thorium-232	0.01857	U	1.00	0.0466	pCi/g		12/16/13 15:38	12/27/13 20:53	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*92.9*		*30 - 110*	*12/16/13 15:38*	*12/27/13 20:53*	*1*

Lab Sample ID: LCS 160-92428/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 95202 — **Prep Batch: 92428**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Thorium-230	24.5	23.51		2.41	0.104	pCi/g	96	81 - 118

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Thorium-229	*90.0*		*30 - 110*

Lab Sample ID: MB 160-92784/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 94862 — **Prep Batch: 92784**

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Thorium-228	0.09687	U	1.00	0.116	pCi/L		12/18/13 08:38	12/26/13 16:42	1
Thorium-230	0.1231		1.00	0.116	pCi/L		12/18/13 08:38	12/26/13 16:42	1
Thorium-232	0.02055	U	1.00	0.115	pCi/L		12/18/13 08:38	12/26/13 16:42	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry) (Continued)

Lab Sample ID: MB 160-92784/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 94862 — **Prep Batch: 92784**

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*73.7*		*30 - 110*	*12/18/13 08:38*	*12/26/13 16:42*	*1*

Lab Sample ID: LCS 160-92784/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 94864 — **Prep Batch: 92784**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Thorium-230	8.64	10.01		1.36	0.147	pCi/L	116	81 - 125

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Thorium-229	*66.7*		*30 - 110*

Lab Sample ID: LCSD 160-92784/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 94865 — **Prep Batch: 92784**

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Thorium-230	8.64	8.662		1.22	0.127	pCi/L	100	81 - 125	0.52	1

Tracer	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Thorium-229	*64.8*		*30 - 110*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Lab Sample ID: MB 160-92431/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 94585 — **Prep Batch: 92431**

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-235/236	0.005769	U	1.00	0.0173	pCi/g		12/16/13 13:26	12/24/13 17:41	1
Uranium-238	0.009253	U	1.00	0.0139	pCi/g		12/16/13 13:26	12/24/13 17:41	1
Uranium-233/234	0.02588		1.00	0.0256	pCi/g		12/16/13 13:26	12/24/13 17:41	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*90.6*		*30 - 110*	*12/16/13 13:26*	*12/24/13 17:41*	*1*

Lab Sample ID: LCS 160-92431/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 94586 — **Prep Batch: 92431**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Uranium-235/236	0.152	0.1205		0.0524	0.0295	pCi/g	79	
Uranium-238	3.26	2.958		0.335	0.0128	pCi/g	91	82 - 122

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Lab Sample ID: LCS 160-92431/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 94586 — **Prep Batch: 92431**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Uranium-233/234	3.18	2.967		0.336	0.0316	pCi/g	93	84 - 120

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Uranium-232	*98.7*		*30 - 110*

Lab Sample ID: MB 160-92438/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 94846 — **Prep Batch: 92438**

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-235/236	0.0000	U	1.00	0.0381	pCi/g		12/16/13 15:38	12/26/13 16:50	1
Uranium-238	0.004454	U	1.00	0.0579	pCi/g		12/16/13 15:38	12/26/13 16:50	1
Uranium-233/234	0.04526	U	1.00	0.0580	pCi/g		12/16/13 15:38	12/26/13 16:50	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*92.8*		*30 - 110*	*12/16/13 15:38*	*12/26/13 16:50*	*1*

Lab Sample ID: LCS 160-92438/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 94847 — **Prep Batch: 92438**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Uranium-235/236	0.304	0.4216		0.153	0.0395	pCi/g	139	
Uranium-238	6.51	5.562		0.674	0.0601	pCi/g	85	82 - 122
Uranium-233/234	6.37	5.725		0.688	0.0482	pCi/g	90	84 - 120

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Uranium-232	*90.4*		*30 - 110*

Lab Sample ID: MB 160-92798/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 94866 — **Prep Batch: 92798**

Analyte	MB Result	MB Qualifier	RL	MDC	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-235/236	0.03060	U	1.00	0.0918	pCi/L		12/18/13 08:38	12/26/13 16:43	1
U-238	-0.009204	U	1.00	0.128	pCi/L		12/18/13 08:38	12/26/13 16:43	1
Uranium-233/234	0.04458	U	1.00	0.112	pCi/L		12/18/13 08:38	12/26/13 16:43	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*75.6*		*30 - 110*	*12/18/13 08:38*	*12/26/13 16:43*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Lab Sample ID: LCS 160-92798/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 94826 — **Prep Batch: 92798**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Uranium-235/236	0.607	0.5990		0.282	0.145	pCi/L	99	
U-238	13.0	12.74		1.56	0.116	pCi/L	98	83 - 121
Uranium-233/234	12.7	12.22		1.52	0.182	pCi/L	96	84 - 120

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Uranium-232	*75.3*		*30 - 110*

Lab Sample ID: LCSD 160-92798/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 94827 — **Prep Batch: 92798**

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Uranium-235/236	0.607	0.9674		0.381	0.107	pCi/L	159		0.56	1
U-238	13.0	12.60		1.60	0.149	pCi/L	97	83 - 121	0.04	1
Uranium-233/234	12.7	12.34		1.58	0.164	pCi/L	97	84 - 120	0.04	1

Tracer	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Uranium-232	*63.9*		*30 - 110*

QC Association Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Specialty Organics

Prep Batch: 31731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-7	RINSATE	Total/NA	Water	HRMS-Sep	
LCS 320-31731/2-A	Lab Control Sample	Total/NA	Water	HRMS-Sep	
LCSD 320-31731/3-A	Lab Control Sample Dup	Total/NA	Water	HRMS-Sep	
MB 320-31731/1-A	Method Blank	Total/NA	Water	HRMS-Sep	

Prep Batch: 32403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-1	DD-B-5_SS	Total/NA	Solid	HRMS-Sox	
LCS 320-32403/2-A	Lab Control Sample	Total/NA	Solid	HRMS-Sox	
MB 320-32403/1-A	Method Blank	Total/NA	Solid	HRMS-Sox	

Analysis Batch: 32972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-1	DD-B-5_SS	Total/NA	Solid	1668C	32403
LCS 320-32403/2-A	Lab Control Sample	Total/NA	Solid	1668C	32403
MB 320-32403/1-A	Method Blank	Total/NA	Solid	1668C	32403

Analysis Batch: 33175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-31731/2-A	Lab Control Sample	Total/NA	Water	1668C	31731
LCSD 320-31731/3-A	Lab Control Sample Dup	Total/NA	Water	1668C	31731
MB 320-31731/1-A	Method Blank	Total/NA	Water	1668C	31731

Analysis Batch: 33177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-7	RINSATE	Total/NA	Water	1668C	31731

Metals

Prep Batch: 86158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-1	DD-B-5_SS	Total/NA	Solid	7471B	
680-96214-1 MS	DD-B-5_SS	Total/NA	Solid	7471B	
680-96214-1 MSD	DD-B-5_SS	Total/NA	Solid	7471B	
680-96214-2	DD-B-5_SUB	Total/NA	Solid	7471B	
680-96214-3	NS-B-2_SS	Total/NA	Solid	7471B	
680-96214-4	NS-B-2_SUB	Total/NA	Solid	7471B	
680-96214-5	NS-B-1_SS	Total/NA	Solid	7471B	
680-96214-6	NS-B-1_SUB	Total/NA	Solid	7471B	
LCS 160-86158/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 160-86158/1-A	Method Blank	Total/NA	Solid	7471B	

Prep Batch: 86332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-7	RINSATE	Total/NA	Water	7470A	
LCS 160-86332/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 160-86332/1-A	Method Blank	Total/NA	Water	7470A	

Metals (Continued)

Analysis Batch: 86377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-7	RINSATE	Total/NA	Water	7470A	86332
LCS 160-86332/2-A	Lab Control Sample	Total/NA	Water	7470A	86332
MB 160-86332/1-A	Method Blank	Total/NA	Water	7470A	86332

Prep Batch: 87033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-1	DD-B-5_SS	Total/NA	Solid	3050B	
680-96214-1 MS	DD-B-5_SS	Total/NA	Solid	3050B	
680-96214-1 MSD	DD-B-5_SS	Total/NA	Solid	3050B	
680-96214-2	DD-B-5_SUB	Total/NA	Solid	3050B	
680-96214-3	NS-B-2_SS	Total/NA	Solid	3050B	
680-96214-4	NS-B-2_SUB	Total/NA	Solid	3050B	
680-96214-5	NS-B-1_SS	Total/NA	Solid	3050B	
680-96214-6	NS-B-1_SUB	Total/NA	Solid	3050B	
LCS 160-87033/12-A	Lab Control Sample	Total/NA	Solid	3050B	
LCS 160-87033/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-87033/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 87669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-1	DD-B-5_SS	Total/NA	Solid	7471B	86158
680-96214-1 MS	DD-B-5_SS	Total/NA	Solid	7471B	86158
680-96214-1 MSD	DD-B-5_SS	Total/NA	Solid	7471B	86158
680-96214-2	DD-B-5_SUB	Total/NA	Solid	7471B	86158
680-96214-3	NS-B-2_SS	Total/NA	Solid	7471B	86158
680-96214-4	NS-B-2_SUB	Total/NA	Solid	7471B	86158
680-96214-5	NS-B-1_SS	Total/NA	Solid	7471B	86158
680-96214-6	NS-B-1_SUB	Total/NA	Solid	7471B	86158
LCS 160-86158/2-A	Lab Control Sample	Total/NA	Solid	7471B	86158
MB 160-86158/1-A	Method Blank	Total/NA	Solid	7471B	86158

Prep Batch: 89692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-1	DD-B-5_SS	Total/NA	Solid	3050B	
680-96214-1 MS	DD-B-5_SS	Total/NA	Solid	3050B	
680-96214-1 MSD	DD-B-5_SS	Total/NA	Solid	3050B	
680-96214-2	DD-B-5_SUB	Total/NA	Solid	3050B	
680-96214-3	NS-B-2_SS	Total/NA	Solid	3050B	
680-96214-4	NS-B-2_SUB	Total/NA	Solid	3050B	
680-96214-5	NS-B-1_SS	Total/NA	Solid	3050B	
680-96214-6	NS-B-1_SUB	Total/NA	Solid	3050B	
LCS 160-89692/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-89692/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 92545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-7	RINSATE	Total/NA	Water	3010A	
LCS 160-92545/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-92545/1-A	Method Blank	Total/NA	Water	3010A	

Metals (Continued)

Prep Batch: 92546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-7	RINSATE	Total/NA	Water	3010A	
LCS 160-92546/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-92546/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 92574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-1	DD-B-5_SS	Total/NA	Solid	6020A	87033
680-96214-1 MS	DD-B-5_SS	Total/NA	Solid	6020A	87033
680-96214-1 MSD	DD-B-5_SS	Total/NA	Solid	6020A	87033
680-96214-2	DD-B-5_SUB	Total/NA	Solid	6020A	87033
680-96214-3	NS-B-2_SS	Total/NA	Solid	6020A	87033
680-96214-4	NS-B-2_SUB	Total/NA	Solid	6020A	87033
680-96214-5	NS-B-1_SS	Total/NA	Solid	6020A	87033
680-96214-6	NS-B-1_SUB	Total/NA	Solid	6020A	87033
LCS 160-87033/12-A	Lab Control Sample	Total/NA	Solid	6020A	87033
LCS 160-87033/2-A	Lab Control Sample	Total/NA	Solid	6020A	87033
MB 160-87033/1-A	Method Blank	Total/NA	Solid	6020A	87033

Analysis Batch: 93352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-1	DD-B-5_SS	Total/NA	Solid	6010C	89692
680-96214-1 MS	DD-B-5_SS	Total/NA	Solid	6010C	89692
680-96214-1 MSD	DD-B-5_SS	Total/NA	Solid	6010C	89692
680-96214-2	DD-B-5_SUB	Total/NA	Solid	6010C	89692
680-96214-3	NS-B-2_SS	Total/NA	Solid	6010C	89692
680-96214-4	NS-B-2_SUB	Total/NA	Solid	6010C	89692
680-96214-5	NS-B-1_SS	Total/NA	Solid	6010C	89692
680-96214-6	NS-B-1_SUB	Total/NA	Solid	6010C	89692
680-96214-7	RINSATE	Total/NA	Water	6010C	92546
LCS 160-89692/2-A	Lab Control Sample	Total/NA	Solid	6010C	89692
LCS 160-92546/2-A	Lab Control Sample	Total/NA	Water	6010C	92546
MB 160-89692/1-A	Method Blank	Total/NA	Solid	6010C	89692
MB 160-92546/1-A	Method Blank	Total/NA	Water	6010C	92546

Analysis Batch: 93540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-1	DD-B-5_SS	Total/NA	Solid	6010C	89692
680-96214-1 MS	DD-B-5_SS	Total/NA	Solid	6010C	89692
680-96214-1 MSD	DD-B-5_SS	Total/NA	Solid	6010C	89692
680-96214-2	DD-B-5_SUB	Total/NA	Solid	6010C	89692
680-96214-3	NS-B-2_SS	Total/NA	Solid	6010C	89692
680-96214-4	NS-B-2_SUB	Total/NA	Solid	6010C	89692
680-96214-5	NS-B-1_SS	Total/NA	Solid	6010C	89692
680-96214-6	NS-B-1_SUB	Total/NA	Solid	6010C	89692
LCS 160-89692/2-A	Lab Control Sample	Total/NA	Solid	6010C	89692
MB 160-89692/1-A	Method Blank	Total/NA	Solid	6010C	89692

Analysis Batch: 93570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-7	RINSATE	Total/NA	Water	6020A	92545
LCS 160-92545/2-A	Lab Control Sample	Total/NA	Water	6020A	92545

Metals (Continued)

Analysis Batch: 93570 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 160-92545/1-A	Method Blank	Total/NA	Water	6020A	92545

Analysis Batch: 94069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-3	NS-B-2_SS	Total/NA	Solid	6020A	87033

General Chemistry

Analysis Batch: 86090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-1	DD-B-5_SS	Total/NA	Solid	Moisture	
680-96214-2	DD-B-5_SUB	Total/NA	Solid	Moisture	
680-96214-3	NS-B-2_SS	Total/NA	Solid	Moisture	
680-96214-4	NS-B-2_SUB	Total/NA	Solid	Moisture	
680-96214-5	NS-B-1_SS	Total/NA	Solid	Moisture	
680-96214-6	NS-B-1_SUB	Total/NA	Solid	Moisture	

Analysis Batch: 86828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-7	RINSATE	Total/NA	Water	300.0	
680-96214-7 MS	RINSATE	Total/NA	Water	300.0	
680-96214-7 MSD	RINSATE	Total/NA	Water	300.0	
LCS 160-86828/4	Lab Control Sample	Total/NA	Water	300.0	
MB 160-86828/3	Method Blank	Total/NA	Water	300.0	

Leach Batch: 89704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-1	DD-B-5_SS	Soluble	Solid	DI Leach	
680-96214-1 MS	DD-B-5_SS	Soluble	Solid	DI Leach	
680-96214-1 MSD	DD-B-5_SS	Soluble	Solid	DI Leach	
680-96214-2	DD-B-5_SUB	Soluble	Solid	DI Leach	
680-96214-3 - DL	NS-B-2_SS	Soluble	Solid	DI Leach	
680-96214-4	NS-B-2_SUB	Soluble	Solid	DI Leach	
680-96214-4 - DL	NS-B-2_SUB	Soluble	Solid	DI Leach	
680-96214-5 - DL	NS-B-1_SS	Soluble	Solid	DI Leach	
680-96214-5 - DL2	NS-B-1_SS	Soluble	Solid	DI Leach	
680-96214-6 - DL	NS-B-1_SUB	Soluble	Solid	DI Leach	
680-96214-6 - DL2	NS-B-1_SUB	Soluble	Solid	DI Leach	
680-96214-6	NS-B-1_SUB	Soluble	Solid	DI Leach	
LCS 160-89704/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 160-89704/1-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 92586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-1	DD-B-5_SS	Soluble	Solid	300.0	89704
680-96214-1 MS	DD-B-5_SS	Soluble	Solid	300.0	89704
680-96214-1 MSD	DD-B-5_SS	Soluble	Solid	300.0	89704
680-96214-2	DD-B-5_SUB	Soluble	Solid	300.0	89704
680-96214-3 - DL	NS-B-2_SS	Soluble	Solid	300.0	89704
680-96214-3 - DL	NS-B-2_SS	Soluble	Solid	300.0	89704

General Chemistry (Continued)

Analysis Batch: 92586 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-4	NS-B-2_SUB	Soluble	Solid	300.0	89704
680-96214-4 - DL	NS-B-2_SUB	Soluble	Solid	300.0	89704
680-96214-5 - DL	NS-B-1_SS	Soluble	Solid	300.0	89704
680-96214-5 - DL2	NS-B-1_SS	Soluble	Solid	300.0	89704
680-96214-6	NS-B-1_SUB	Soluble	Solid	300.0	89704
680-96214-6 - DL	NS-B-1_SUB	Soluble	Solid	300.0	89704
680-96214-6 - DL2	NS-B-1_SUB	Soluble	Solid	300.0	89704
LCS 160-89704/2-A	Lab Control Sample	Soluble	Solid	300.0	89704
MB 160-89704/1-A	Method Blank	Soluble	Solid	300.0	89704

Rad

Prep Batch: 86142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-7	RINSATE	Total/NA	Water	PrecSep-21	
680-96214-7 DU	RINSATE	Total/NA	Water	PrecSep-21	
LCS 160-86142/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
MB 160-86142/1-A	Method Blank	Total/NA	Water	PrecSep-21	

Prep Batch: 86143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-7	RINSATE	Total/NA	Water	PrecSep_0	
680-96214-7 DU	RINSATE	Total/NA	Water	PrecSep_0	
LCS 160-86143/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
MB 160-86143/1-A	Method Blank	Total/NA	Water	PrecSep_0	

Prep Batch: 86195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-7	RINSATE	Total/NA	Water	Fill_Geo-21	
LCS 160-86195/2-A	Lab Control Sample	Total/NA	Water	Fill_Geo-21	
MB 160-86195/1-A	Method Blank	Total/NA	Water	Fill_Geo-21	

Leach Batch: 86869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-3	NS-B-2_SS	Total/NA	Solid	Dry and Grind	
680-96214-3 DU	NS-B-2_SS	Total/NA	Solid	Dry and Grind	
680-96214-4	NS-B-2_SUB	Total/NA	Solid	Dry and Grind	
680-96214-5	NS-B-1_SS	Total/NA	Solid	Dry and Grind	
680-96214-6	NS-B-1_SUB	Total/NA	Solid	Dry and Grind	

Prep Batch: 87427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-3	NS-B-2_SS	Total/NA	Solid	Fill_Geo-21	86869
680-96214-3 DU	NS-B-2_SS	Total/NA	Solid	Fill_Geo-21	86869
680-96214-4	NS-B-2_SUB	Total/NA	Solid	Fill_Geo-21	86869
680-96214-5	NS-B-1_SS	Total/NA	Solid	Fill_Geo-21	86869
680-96214-6	NS-B-1_SUB	Total/NA	Solid	Fill_Geo-21	86869
LCS 160-87427/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
MB 160-87427/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	

Rad (Continued)

Prep Batch: 87447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-3	NS-B-2_SS	Total/NA	Solid	DPS-21	86869
680-96214-3 DU	NS-B-2_SS	Total/NA	Solid	DPS-21	86869
680-96214-4	NS-B-2_SUB	Total/NA	Solid	DPS-21	86869
680-96214-5	NS-B-1_SS	Total/NA	Solid	DPS-21	86869
680-96214-6	NS-B-1_SUB	Total/NA	Solid	DPS-21	86869
LCS 160-87447/2-A	Lab Control Sample	Total/NA	Solid	DPS-21	
MB 160-87447/1-A	Method Blank	Total/NA	Solid	DPS-21	

Prep Batch: 87450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-3	NS-B-2_SS	Total/NA	Solid	DPS-0	86869
680-96214-3 DU	NS-B-2_SS	Total/NA	Solid	DPS-0	86869
680-96214-4	NS-B-2_SUB	Total/NA	Solid	DPS-0	86869
680-96214-5	NS-B-1_SS	Total/NA	Solid	DPS-0	86869
680-96214-6	NS-B-1_SUB	Total/NA	Solid	DPS-0	86869
LCS 160-87450/2-A	Lab Control Sample	Total/NA	Solid	DPS-0	
MB 160-87450/1-A	Method Blank	Total/NA	Solid	DPS-0	

Prep Batch: 90393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-3	NS-B-2_SS	Total/NA	Solid	Thin_Layer	86869
680-96214-3 DU	NS-B-2_SS	Total/NA	Solid	Thin_Layer	86869
680-96214-4	NS-B-2_SUB	Total/NA	Solid	Thin_Layer	86869
680-96214-5	NS-B-1_SS	Total/NA	Solid	Thin_Layer	86869
680-96214-6	NS-B-1_SUB	Total/NA	Solid	Thin_Layer	86869
LCS 160-90393/2-A	Lab Control Sample	Total/NA	Solid	Thin_Layer	
MB 160-90393/1-A	Method Blank	Total/NA	Solid	Thin_Layer	

Prep Batch: 92247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-7	RINSATE	Total/NA	Water	Evaporation	
LCS 160-92247/2-A	Lab Control Sample	Total/NA	Water	Evaporation	
LCSB 160-92247/3-A	Lab Control Sample	Total/NA	Water	Evaporation	
MB 160-92247/1-A	Method Blank	Total/NA	Water	Evaporation	

Prep Batch: 92254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-3	NS-B-2_SS	Total/NA	Solid	ExtChrom	86869
680-96214-4	NS-B-2_SUB	Total/NA	Solid	ExtChrom	86869
LCS 160-92254/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-92254/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Prep Batch: 92428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-5	NS-B-1_SS	Total/NA	Solid	ExtChrom	86869
680-96214-6	NS-B-1_SUB	Total/NA	Solid	ExtChrom	86869
LCS 160-92428/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-92428/1-A	Method Blank	Total/NA	Solid	ExtChrom	

QC Association Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Rad (Continued)

Prep Batch: 92431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-3	NS-B-2_SS	Total/NA	Solid	ExtChrom	86869
680-96214-4	NS-B-2_SUB	Total/NA	Solid	ExtChrom	86869
LCS 160-92431/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-92431/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Prep Batch: 92438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-5	NS-B-1_SS	Total/NA	Solid	ExtChrom	86869
680-96214-6	NS-B-1_SUB	Total/NA	Solid	ExtChrom	86869
LCS 160-92438/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-92438/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Prep Batch: 92784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-7	RINSATE	Total/NA	Water	ExtChrom	
LCS 160-92784/2-A	Lab Control Sample	Total/NA	Water	ExtChrom	
LCSD 160-92784/3-A	Lab Control Sample Dup	Total/NA	Water	ExtChrom	
MB 160-92784/1-A	Method Blank	Total/NA	Water	ExtChrom	

Prep Batch: 92798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-96214-7	RINSATE	Total/NA	Water	ExtChrom	
LCS 160-92798/2-A	Lab Control Sample	Total/NA	Water	ExtChrom	
LCSD 160-92798/3-A	Lab Control Sample Dup	Total/NA	Water	ExtChrom	
MB 160-92798/1-A	Method Blank	Total/NA	Water	ExtChrom	

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Client Sample ID: DD-B-5_SS — Lab Sample ID: 680-96214-1

Date Collected: 11/13/13 12:45 — Matrix: Solid
Date Received: 11/15/13 09:15 — Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			32403	12/21/13 12:08	GDB	TAL SAC
Total/NA	Analysis	1668C		1	32972	12/31/13 21:37	KSS	TAL SAC
Total/NA	Prep	7471B			86158	11/18/13 14:10	MTS	TAL SL
Total/NA	Analysis	7471B		1	87669	11/24/13 12:08	MTS	TAL SL
Total/NA	Prep	3050B			87033	11/21/13 09:19	WA1	TAL SL
Total/NA	Analysis	6020A		10	92574	12/17/13 01:38	CCB	TAL SL
Total/NA	Analysis	6010C		5	93352	12/18/13 18:58	FLC	TAL SL
Total/NA	Prep	3050B			89692	12/04/13 10:55	WA1	TAL SL
Total/NA	Analysis	6010C		5	93540	12/19/13 19:57	FLC	TAL SL
Total/NA	Analysis	Moisture		1	86090	11/18/13 06:38	SDB	TAL SL
Soluble	Leach	DI Leach			89704	12/04/13 12:05	AMF	TAL SL
Soluble	Analysis	300.0		1	92586	12/05/13 13:46	AMF	TAL SL

Client Sample ID: DD-B-5_SUB — Lab Sample ID: 680-96214-2

Date Collected: 11/13/13 14:15 — Matrix: Solid
Date Received: 11/15/13 09:15 — Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			86158	11/18/13 14:10	MTS	TAL SL
Total/NA	Analysis	7471B		1	87669	11/24/13 12:18	MTS	TAL SL
Total/NA	Prep	3050B			87033	11/21/13 09:19	WA1	TAL SL
Total/NA	Analysis	6020A		10	92574	12/17/13 02:05	CCB	TAL SL
Total/NA	Prep	3050B			89692	12/04/13 10:55	WA1	TAL SL
Total/NA	Analysis	6010C		5	93352	12/18/13 19:13	FLC	TAL SL
Total/NA	Analysis	6010C		5	93540	12/19/13 20:12	FLC	TAL SL
Total/NA	Analysis	Moisture		1	86090	11/18/13 06:38	SDB	TAL SL
Soluble	Leach	DI Leach			89704	12/04/13 12:05	AMF	TAL SL
Soluble	Analysis	300.0		1	92586	12/05/13 14:29	AMF	TAL SL

Client Sample ID: NS-B-2_SS — Lab Sample ID: 680-96214-3

Date Collected: 11/13/13 15:00 — Matrix: Solid
Date Received: 11/15/13 09:15 — Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			86158	11/18/13 14:10	MTS	TAL SL
Total/NA	Analysis	7471B		1	87669	11/24/13 12:20	MTS	TAL SL
Total/NA	Analysis	6020A		10	92574	12/17/13 02:12	CCB	TAL SL
Total/NA	Analysis	6010C		5	93352	12/18/13 19:17	FLC	TAL SL
Total/NA	Prep	3050B			89692	12/04/13 10:55	WA1	TAL SL
Total/NA	Analysis	6010C		5	93540	12/19/13 20:16	FLC	TAL SL
Total/NA	Prep	3050B			87033	11/21/13 09:19	WA1	TAL SL
Total/NA	Analysis	6020A		20	94069	12/21/13 07:33	CCB	TAL SL

Client Sample ID: NS-B-2_SS

Lab Sample ID: 680-96214-3

Date Collected: 11/13/13 15:00
Date Received: 11/15/13 09:15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	86090	11/18/13 06:38	SDB	TAL SL
Soluble	Leach	DI Leach	DL		89704	12/04/13 12:05	AMF	TAL SL
Soluble	Analysis	300.0	DL	5	92586	12/05/13 19:47	AMF	TAL SL
Soluble	Analysis	300.0	DL	100	92586	12/05/13 20:01	AMF	TAL SL
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	Thin_Layer			90393	12/09/13 08:58	MJS	TAL SL
Total/NA	Analysis	900.0		1	90524	12/09/13 20:42	LES	TAL SL
Total/NA	Prep	DPS-0			87450	11/22/13 14:11	RLS	TAL SL
Total/NA	Analysis	904.0		1	91104	12/11/13 10:59	MLK	TAL SL
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			87427	11/22/13 12:38	MJS	TAL SL
Total/NA	Analysis	901.1		1	92187	12/15/13 18:59	SMP	TAL SL
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	DPS-21			87447	11/22/13 13:48	RLS	TAL SL
Total/NA	Analysis	903.0		1	92650	12/17/13 08:47	RTM	TAL SL
Total/NA	Prep	ExtChrom			92431	12/16/13 13:26	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	94912	12/26/13 16:15	RTM	TAL SL
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	ExtChrom			92254	12/16/13 13:26	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	95411	12/30/13 13:50	RTM	TAL SL

Client Sample ID: NS-B-2_SUB

Lab Sample ID: 680-96214-4

Date Collected: 11/13/13 15:45
Date Received: 11/15/13 09:15

Matrix: Solid
Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			86158	11/18/13 14:10	MTS	TAL SL
Total/NA	Analysis	7471B		1	87669	11/24/13 12:22	MTS	TAL SL
Total/NA	Prep	3050B			87033	11/21/13 09:19	WA1	TAL SL
Total/NA	Analysis	6020A		10	92574	12/17/13 02:19	CCB	TAL SL
Total/NA	Prep	3050B			89692	12/04/13 10:55	WA1	TAL SL
Total/NA	Analysis	6010C		5	93352	12/18/13 19:20	FLC	TAL SL
Total/NA	Analysis	6010C		5	93540	12/19/13 20:27	FLC	TAL SL
Total/NA	Analysis	Moisture		1	86090	11/18/13 06:38	SDB	TAL SL
Soluble	Leach	DI Leach			89704	12/04/13 12:05	AMF	TAL SL
Soluble	Analysis	300.0		1	92586	12/05/13 14:58	AMF	TAL SL
Soluble	Leach	DI Leach	DL		89704	12/04/13 12:05	AMF	TAL SL
Soluble	Analysis	300.0	DL	20	92586	12/05/13 20:15	AMF	TAL SL
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	Thin_Layer			90393	12/09/13 08:58	MJS	TAL SL
Total/NA	Analysis	900.0		1	90524	12/09/13 20:42	LES	TAL SL
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	DPS-0			87450	11/22/13 14:11	RLS	TAL SL
Total/NA	Analysis	904.0		1	91104	12/11/13 10:59	MLK	TAL SL

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Client Sample ID: NS-B-2_SUB

Lab Sample ID: 680-96214-4

Date Collected: 11/13/13 15:45
Date Received: 11/15/13 09:15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			87427	11/22/13 12:38	MJS	TAL SL
Total/NA	Analysis	901.1		1	92032	12/13/13 15:38	RTM	TAL SL
Total/NA	Prep	DPS-21			87447	11/22/13 13:48	RLS	TAL SL
Total/NA	Analysis	903.0		1	92650	12/17/13 08:47	RTM	TAL SL
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	ExtChrom			92254	12/16/13 13:26	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	94546	12/24/13 17:35	RTM	TAL SL
Total/NA	Prep	ExtChrom			92431	12/16/13 13:26	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	94913	12/26/13 16:15	RTM	TAL SL

Client Sample ID: NS-B-1_SS

Lab Sample ID: 680-96214-5

Date Collected: 11/13/13 09:45
Date Received: 11/15/13 09:15

Matrix: Solid
Percent Solids: 97.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			86158	11/18/13 14:10	MTS	TAL SL
Total/NA	Analysis	7471B		1	87669	11/24/13 12:23	MTS	TAL SL
Total/NA	Prep	3050B			87033	11/21/13 09:19	WA1	TAL SL
Total/NA	Analysis	6020A		10	92574	12/17/13 02:39	CCB	TAL SL
Total/NA	Analysis	6010C		5	93352	12/18/13 19:24	FLC	TAL SL
Total/NA	Prep	3050B			89692	12/04/13 10:55	WA1	TAL SL
Total/NA	Analysis	6010C		5	93540	12/19/13 20:31	FLC	TAL SL
Total/NA	Analysis	Moisture		1	86090	11/18/13 06:38	SDB	TAL SL
Soluble	Leach	DI Leach	DL		89704	12/04/13 12:05	AMF	TAL SL
Soluble	Analysis	300.0	DL	50	92586	12/05/13 20:30	AMF	TAL SL
Soluble	Leach	DI Leach	DL2		89704	12/04/13 12:05	AMF	TAL SL
Soluble	Analysis	300.0	DL2	500	92586	12/05/13 20:44	AMF	TAL SL
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	Thin_Layer			90393	12/09/13 08:58	MJS	TAL SL
Total/NA	Analysis	900.0		1	90524	12/09/13 20:42	LES	TAL SL
Total/NA	Prep	DPS-0			87450	11/22/13 14:11	RLS	TAL SL
Total/NA	Analysis	904.0		1	91104	12/11/13 10:59	MLK	TAL SL
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			87427	11/22/13 12:38	MJS	TAL SL
Total/NA	Analysis	901.1		1	92179	12/13/13 17:36	SMP	TAL SL
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	DPS-21			87447	11/22/13 13:48	RLS	TAL SL
Total/NA	Analysis	903.0		1	92650	12/17/13 08:47	RTM	TAL SL
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	ExtChrom			92438	12/16/13 15:38	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	94891	12/26/13 16:51	MLK	TAL SL
Total/NA	Prep	ExtChrom			92428	12/16/13 15:38	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	95199	12/27/13 20:53	MLK	TAL SL

Client Sample ID: NS-B-1_SUB

Lab Sample ID: 680-96214-6

Date Collected: 11/13/13 11:20
Date Received: 11/15/13 09:15

Matrix: Solid
Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			86158	11/18/13 14:10	MTS	TAL SL
Total/NA	Analysis	7471B		1	87669	11/24/13 12:25	MTS	TAL SL
Total/NA	Prep	3050B			87033	11/21/13 09:19	WA1	TAL SL
Total/NA	Analysis	6020A		10	92574	12/17/13 02:46	CCB	TAL SL
Total/NA	Prep	3050B			89692	12/04/13 10:55	WA1	TAL SL
Total/NA	Analysis	6010C		5	93352	12/18/13 19:28	FLC	TAL SL
Total/NA	Analysis	6010C		5	93540	12/19/13 20:35	FLC	TAL SL
Total/NA	Analysis	Moisture		1	86090	11/18/13 06:38	SDB	TAL SL
Soluble	Leach	DI Leach			89704	12/04/13 12:05	AMF	TAL SL
Soluble	Analysis	300.0		1	92586	12/05/13 15:27	AMF	TAL SL
Soluble	Leach	DI Leach	DL		89704	12/04/13 12:05	AMF	TAL SL
Soluble	Analysis	300.0	DL	5	92586	12/05/13 20:59	AMF	TAL SL
Soluble	Leach	DI Leach	DL2		89704	12/04/13 12:05	AMF	TAL SL
Soluble	Analysis	300.0	DL2	50	92586	12/05/13 21:13	AMF	TAL SL
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	Thin_Layer			90393	12/09/13 08:58	MJS	TAL SL
Total/NA	Analysis	900.0		1	90957	12/10/13 06:30	LES	TAL SL
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	DPS-0			87450	11/22/13 14:11	RLS	TAL SL
Total/NA	Analysis	904.0		1	91104	12/11/13 11:00	MLK	TAL SL
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			87427	11/22/13 12:38	MJS	TAL SL
Total/NA	Analysis	901.1		1	92180	12/13/13 17:36	SMP	TAL SL
Total/NA	Prep	DPS-21			87447	11/22/13 13:48	RLS	TAL SL
Total/NA	Analysis	903.0		1	92650	12/17/13 08:47	RTM	TAL SL
Total/NA	Leach	Dry and Grind			86869	11/20/13 15:43	DRO	TAL SL
Total/NA	Prep	ExtChrom			92438	12/16/13 15:38	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	94892	12/26/13 16:51	MLK	TAL SL
Total/NA	Prep	ExtChrom			92428	12/16/13 15:38	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	95250	12/27/13 20:53	MLK	TAL SL

Client Sample ID: RINSATE

Lab Sample ID: 680-96214-7

Date Collected: 11/13/13 00:00
Date Received: 11/15/13 09:15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sep			31731	12/12/13 14:53	CCC	TAL SAC
Total/NA	Analysis	1668C		1	33177	12/20/13 13:47	KSS	TAL SAC
Total/NA	Prep	7470A			86332	11/19/13 11:20	MTS	TAL SL
Total/NA	Analysis	7470A		1	86377	11/19/13 12:57	MTS	TAL SL
Total/NA	Prep	3010A			92546	12/16/13 17:03	FLC	TAL SL
Total/NA	Analysis	6010C		1	93352	12/18/13 18:24	FLC	TAL SL
Total/NA	Prep	3010A			92545	12/16/13 17:01	FLC	TAL SL
Total/NA	Analysis	6020A		1	93570	12/20/13 04:13	CCB	TAL SL

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Client Sample ID: RINSATE

Lab Sample ID: 680-96214-7

Date Collected: 11/13/13 00:00
Date Received: 11/15/13 09:15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	86828	11/15/13 17:04	JCB	TAL SL
Total/NA	Prep	PrecSep_0			86143	11/18/13 13:55	RLS	TAL SL
Total/NA	Analysis	904.0		1	89753	12/04/13 11:07	RTM	TAL SL
Total/NA	Prep	Fill_Geo-21			86195	11/18/13 17:52	MJS	TAL SL
Total/NA	Analysis	901.1		1	90441	12/09/13 19:19	RTM	TAL SL
Total/NA	Prep	PrecSep-21			86142	11/18/13 13:48	RLS	TAL SL
Total/NA	Analysis	903.0		1	90958	12/10/13 06:36	RTM	TAL SL
Total/NA	Prep	Evaporation			92247	12/16/13 10:37	MJS	TAL SL
Total/NA	Analysis	900.0		1	93801	12/20/13 17:20	MLK	TAL SL
Total/NA	Prep	ExtChrom			92784	12/18/13 08:38	CEZ	TAL SL
Total/NA	Analysis	A-01-R		1	94824	12/26/13 17:00	MLK	TAL SL
Total/NA	Prep	ExtChrom			92798	12/18/13 08:38	MLM	TAL SL
Total/NA	Analysis	A-01-R		1	94828	12/26/13 17:02	MLK	TAL SL

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com	
Company: GEI Consultants, Inc.			
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:		
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters		
State, Zip: GA, 30309			
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104		
Email: abrazell@geiconsultants.com	WO #:		
Project Name: TIMET	Project #: 68011884		
Site:	SSOW#:		

COC No: 680-51812-23156.1
Page: Page 1 of 1
Job #:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Oil, Waste/Oil, BT=Tissue, Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0, 903.0, 904.0, A01R_Th (Radionuclides)	300, 6020_Total_Mass (Actinos / Total Uranium)	901.1_Ra - (RADN NORM Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	6010C, 6020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - DLM 4.2 VOCs	8260C - DLM 4.2 VOCs	8260C - DLM 4.2 VOCs	8260C - DLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of Containers	Special Instructions/Note:
					Preservation Code:				N	N	N	N	N	N	N	N	P	J	F	N	N		
DD-8-5_SS	11-13-13	0-0.5	Drainage Ditches	1245	C/G	S				1				1	1							3	120, 60
DD-8-5_SUB	11-13-13	9-14	Drainage Ditches	1415	C/G	S				1				1								2	↓
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ■ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ■ Archive Until GEI releases for disposal.

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Special Instructions/QC Requirements: VOCs were not composited prior to collection. * - Dioxins will be run from the PCD Congeners jar.

Empty Kit Relinquished by:		Date:	Time:		Method of Shipment:	
Relinquished by:	Date/Time: 11-14-13 0645	Company: GEI	Received by: Kelly Shelkey	Date/Time: 11/14/13 0645	Company: GEI	
Relinquished by: Jeffrey Shelkey	Date/Time: 11-14-13 1310	Company: GEI	Received by:	Date/Time: 11/14/13 1310	Company:	
Relinquished by:	Date/Time: 11/14/13 1620	Company:	Received by: Gil Clark	Date/Time: 11-15-13 0415	Company: TASTE	
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-51812-23156.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #: 684-96414
Address: 1375 Peachtree Street NE, Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011864			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (w=water, s=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0, 903.0, 904.0, A01R_Th (Radionuclides)	300, 5028_TotU_Mass (Anions / Total Uranium)	901.1_Ra - (MOD) NORM Target List (Radionuclides)	8270D - SVOCs	8270D - SVOCs	6010C, 6020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
					Preservation Code:				N	N	N	N	N	N	N	N	P	J	F	N	N		
NS-B-2_SS	11-13-13	0-0.5	Northern Storage Area	1500	C/G	S			1	1	2			1								5	2x500, 3x120
NS-B-2_SUB	11-13-13	3-8	Northern Storage Area	1545	C/G	S			1	1	2			1								5	↓, 4x120, 60
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	
																						0	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ■ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ■ Archive Until GEI releases for disposal.

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Special Instructions/QC Requirements: VOCs were not composited prior to collection. * - Dioxins will be run from the PCB Congeners (jr.

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:
Relinquished by: Jeffrey Shelkey	Date/Time: 11-14-13 0645	Company: GEI	Received by: Jeffrey Shelkey	Date/Time: 11/14/13 0645 Company: GEI
Relinquished by: Jeffrey Shelkey	Date/Time: 11/14/13 1310	Company: GEI	Received by: [illegible]	Date/Time: 11/14/13 1310 Company: TA
Relinquished by: [illegible]	Date/Time: 11/14/13 1600	Company: TA	Received by: Gil Clark	Date/Time: 11.15.13 0915 Company: TA STL
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 3.2 [illegible]	

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jeff Shelkoy	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-51812-23156.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #: 75-96114
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.582.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011884			
Site: TIMET	SSOW#:			

Analysis Requested

Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Interval	Area	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Oil, Wipe, Air, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0, 353.2, 354.0, A01R_Th (Radionuclides)	903, 6020_TotU_Mass (Anions / Total Uranium)	901.1_Ra - [UOD] NORM Target List (Radionuclides)	8270D PAHs	8270D - SVOCs	6010C, 6020A, 7471B (Metals)	1668C (PCB Congeners)	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8260C - OLM 4.2 VOCs	8082A (PCB Aroclors)	8290A (Dioxins and Furans)	Total Number of containers	Special Instructions/Note:
					Preservation Code:				N	N	N	N	N	N	N	N	P	J	E	N	N		
NS-B-1_SS	11.13.13	0945	Northern Storage Area	[illegible]	C/G	S			1	1	2			1								5	2x500, 3x120
NS-B-1_SUB	11-13-13	1120	Northern Storage Area	1120	C/G	S			1	1	2			1								5	2x500, 2x120, 60

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ■ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ■ Archive Until GEI releases for disposal.

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Special Instructions/QC Requirements: VOCs were not composited prior to collection. * - Dioxins will be run from the PCB Congeners jar.

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	11-14-13 0645	GEI	Jeffrey B Shelky	11-14-13 0645	GEI
Jeffrey Shelky	11-14-13 1310	GEI	[signature]	11/14/13 1310	TA
[signature]	11/14/13 1400 pm	TA	[signature]	11-15-13 0915	TASR

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.2 3.7

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Jeff Shelkey	Lab PM: Smith, Kathryn E	Carrier Tracking No(s):	COC No: 680-61811-23157.1
Client Contact: Ms. Andrea Brazell	Phone: 516.317.0245 (cell)	E-Mail: kathy.smith@testamericainc.com		Page: Page 1 of 1
Company: GEI Consultants, Inc.				Job #: 680-91674-1
Address: 1375 Peachtree Street NE Suite A15	Due Date Requested:			
City: Atlanta	TAT Requested (days): 28 - Day with Prelims due in 15 days for non-Radiochemistry parameters			
State, Zip: GA, 30309				
Phone: 404.592.0074 (direct) / 770.355.9276 (cell)	PO #: 1323080-11-2104			
Email: abrazell@geiconsultants.com	WO #:			
Project Name: TIMET	Project #: 68011884			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	A01R_U - (MOD) Local Method (Radionuclides)	A01R_Th - Standard Target List (Radionuclides)	901.1_Ra - (MOD) NORM Target List (Radionuclides)	904.0 - Standard Target List (Radionuclides)	903.0 - Standard Target List (Radionuclides)	300 - (MOD) Local Method (Anions)	6010C, 6020A, 7470A (Metals)	900.0 - Standard Target List (Radionuclides)	8260C - OLM 4.2 (VOCs)	1668C (PCB Congeners)	8082A (PCB Aroclors)	8270D SVOCs (Project list to include PAHs)	8280 (Dioxins) 8290	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	D	D	D	D	N	D	D	A	N	N	N			
			G	Water	N	N	1	1	1	1	1	1	1	1	3	1	1	1	2	20	MBS
BINDATE	11/13/13		G	W	N	N	1	1	1	1	1	1	1	1		2			2	12	5x1L, 500p, 2x250p

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive *Until GEI releases for disposal.*

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Jeffrey B. Shelley	11/14/13 1310	GEI	[illegible]	11/14/13 1310	TA
[illegible]	11/14/13 1400	TA	[illegible]	11-15-13 0915	TA STL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-96214-1

Login Number: 96214
List Number: 1
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-96214-1

Login Number: 96214
List Number: 1
Creator: Johnson, DeAndre H

List Source: TestAmerica Sacramento
List Creation: 11/15/13 12:29 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-96214-1

Login Number: 96214
List Number: 1
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis
List Creation: 11/15/13 12:39 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-15
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-14
Arkansas DEQ	State Program	6	88-0692	02-01-14 *
California	NELAP	9	3217CA	07-31-14
Colorado	State Program	8	N/A	12-31-14
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-14
GA Dept. of Agriculture	State Program	4	N/A	06-30-14
Georgia	State Program	4	N/A	06-30-14
Georgia	State Program	4	803	06-30-14
Guam	State Program	9	09-005r	04-17-14
Hawaii	State Program	9	N/A	06-30-14
Illinois	NELAP	5	200022	11-30-14
Indiana	State Program	5	N/A	06-30-14
Iowa	State Program	7	353	07-01-15
Kentucky (DW)	State Program	4	90084	12-31-14
Kentucky (UST)	State Program	4	18	06-30-14
Louisiana	NELAP	6	LA100015	12-31-14
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-14
Massachusetts	State Program	1	M-GA006	06-30-14
Michigan	State Program	5	9925	06-30-14
Mississippi	State Program	4	N/A	06-30-14
Montana	State Program	8	CERT0081	01-01-15
Nebraska	State Program	7	TestAmerica-Savannah	06-30-14
New Jersey	NELAP	2	GA769	06-30-14
New Mexico	State Program	6	N/A	06-30-14
New York	NELAP	2	10842	03-31-14
North Carolina DENR	State Program	4	269	12-31-14
North Carolina DHHS	State Program	4	13701	07-31-14
Oklahoma	State Program	6	9984	08-31-14
Pennsylvania	NELAP	3	68-00474	06-30-14
Puerto Rico	State Program	2	GA00006	01-01-14 *
South Carolina	State Program	4	98001	06-30-14
Tennessee	State Program	4	TN02961	06-30-14
Texas	NELAP	6	T104704185-08-TX	11-30-14
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-14
Washington	State Program	10	C1794	06-10-14
West Virginia DEP	State Program	3	94	06-30-14
West Virginia DHHR	State Program	3	9950C	12-31-13 *
Wisconsin	State Program	5	999819810	08-31-14
Wyoming	State Program	8	8TMS-L	06-30-14

Laboratory: TestAmerica Sacramento

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

* Expired certification is currently pending renewal and is considered valid.

Laboratory: TestAmerica Sacramento (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	A2LA		NE-OS-22-13	01-31-14
A2LA	DoD ELAP		2928-01	03-31-14
Alaska (UST)	State Program	10	UST-055	02-03-14 *
Arizona	State Program	9	AZ0708	08-11-14
Arkansas DEQ	State Program	6	88-0691	06-17-14
California	NELAP	9	1119CA	01-31-14
Colorado	State Program	8	N/A	08-31-14
Connecticut	State Program	1	PH-0691	06-30-15
Florida	NELAP	4	E87570	06-30-14
Guam	State Program	9	N/A	08-31-14
Hawaii	State Program	9	N/A	01-31-14
Illinois	NELAP	5	200060	03-17-15
Kansas	NELAP	7	E-10375	10-31-14
Louisiana	NELAP	6	30612	06-30-14
Michigan	State Program	5	9947	01-31-14
Nebraska	State Program	7	NE-OS-22-13	01-31-14
Nevada	State Program	9	CA44	07-31-14
New Jersey	NELAP	2	CA005	06-30-14
New York	NELAP	2	11666	03-31-14
Northern Mariana Islands	State Program	9	MP0007	02-01-14
Oregon	NELAP	10	CA200005	03-28-14
Pennsylvania	NELAP	3	68-01272	03-31-14
South Carolina	State Program	4	87014	06-30-14
Texas	NELAP	6	T104704399-08-TX	05-31-14
US Fish & Wildlife	Federal		LE148388-0	12-31-14
USDA	Federal		P330-11-00436	12-30-14
USEPA UCMR	Federal	1	CA00044	11-06-14
Utah	NELAP	8	QUAN1	01-31-14
Washington	State Program	10	C581	05-05-14
West Virginia DHHR	State Program	3	9930C	02-03-14 *
Wyoming	State Program	8	8TMS-Q	01-31-14

Laboratory: TestAmerica St. Louis

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-14
California	NELAP	9	09266CA	03-31-14
Connecticut	State Program	1	PH-0241	03-31-15
Florida	NELAP	4	E87689	06-30-14
Illinois	NELAP	5	200023	11-30-14
Iowa	State Program	7	373	12-01-14
Kansas	NELAP	7	E-10236	10-31-14
Kentucky (DW)	State Program	4	90125	12-31-13 *
L-A-B	DoD ELAP		L2305	01-10-16
Louisiana	NELAP	6	LA140007	12-31-14
Maryland	State Program	3	310	09-30-14
Missouri	State Program	7	780	06-30-14
Nevada	State Program	9	MO000542013-1	07-31-14
New Jersey	NELAP	2	MO002	06-30-14

* Expired certification is currently pending renewal and is considered valid.

Certification Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Laboratory: TestAmerica St. Louis (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New Mexico	State Program	6		06-30-10 *
New York	NELAP	2	11616	04-01-14
North Dakota	State Program	8	R207	06-30-14
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	2013-049	08-31-14
Pennsylvania	NELAP	3	68-00540	02-28-14
South Carolina	State Program	4	85002001	06-30-14
Texas	NELAP	6	T104704193-13-6	07-31-14
USDA	Federal		P330-07-00122	01-03-14 *
USEPA Reg V SDWA	Federal	1	WG-15J	08-30-14
Utah	NELAP	8	MO000542013-5	07-31-14
Virginia	NELAP	3	2236	06-14-14
Washington	State Program	10	C592	08-30-14
West Virginia DEP	State Program	3	381	02-28-14 *

* Expired certification is currently pending renewal and is considered valid.

Tracer/Carrier Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Method: 903.0 - Radium-226 (GFPC)

Matrix: Solid — Prep Type: Total/NA

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	Ba (40-110)
680-96214-3	NS-B-2_SS	121 X
680-96214-3 DU	NS-B-2_SS	115 X
680-96214-4	NS-B-2_SUB	111 X
680-96214-5	NS-B-1_SS	115 X
680-96214-6	NS-B-1_SUB	107
LCS 160-87447/2-A	Lab Control Sample	109
MB 160-87447/1-A	Method Blank	102

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water — Prep Type: Total/NA

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	Ba (40-110)
680-96214-7	RINSATE	101
680-96214-7 DU	RINSATE	93.2
LCS 160-86142/2-A	Lab Control Sample	100
MB 160-86142/1-A	Method Blank	98.2

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Solid — Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
680-96214-3	NS-B-2_SS	121 X	83.0
680-96214-3 DU	NS-B-2_SS	115 X	80.7
680-96214-4	NS-B-2_SUB	111 X	81.9
680-96214-5	NS-B-1_SS	115 X	84.9
680-96214-6	NS-B-1_SUB	107	80.4
LCS 160-87450/2-A	Lab Control Sample	109	82.6
MB 160-87450/1-A	Method Blank	102	85.6

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water — Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
680-96214-7	RINSATE	101	90.1

Method: 904.0 - Radium-228 (GFPC) (Continued)

Matrix: Water — Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(40-110)	(40-110)
680-96214-7 DU	RINSATE	93.2	89.7
LCS 160-86143/2-A	Lab Control Sample	100	89.7
MB 160-86143/1-A	Method Blank	98.2	87.1

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Matrix: Solid — Prep Type: Total/NA

		Percent Yield (Acceptance Limits)
		Th-229
Lab Sample ID	Client Sample ID	(30-110)
680-96214-3	NS-B-2_SS	87.3
680-96214-4	NS-B-2_SUB	78.5
680-96214-5	NS-B-1_SS	79.3
680-96214-6	NS-B-1_SUB	80.6
LCS 160-92254/2-A	Lab Control Sample	92.5
LCS 160-92428/2-A	Lab Control Sample	90.0
MB 160-92254/1-A	Method Blank	82.0
MB 160-92428/1-A	Method Blank	92.9

Tracer/Carrier Legend

Th-229 = Thorium-229

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Matrix: Water — Prep Type: Total/NA

		Percent Yield (Acceptance Limits)
		Th-229
Lab Sample ID	Client Sample ID	(30-110)
680-96214-7	RINSATE	92.2
LCS 160-92784/2-A	Lab Control Sample	66.7
LCSD 160-92784/3-A	Lab Control Sample Dup	64.8
MB 160-92784/1-A	Method Blank	73.7

Tracer/Carrier Legend

Th-229 = Thorium-229

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Matrix: Solid — Prep Type: Total/NA

		Percent Yield (Acceptance Limits)
		U-232
Lab Sample ID	Client Sample ID	(30-110)
680-96214-3	NS-B-2_SS	86.1
680-96214-4	NS-B-2_SUB	82.8
680-96214-5	NS-B-1_SS	86.1
680-96214-6	NS-B-1_SUB	89.9

Tracer/Carrier Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)							
Lab Sample ID	Client Sample ID	U-232 (30-110)							
LCS 160-92431/2-A	Lab Control Sample	98.7							
LCS 160-92438/2-A	Lab Control Sample	90.4							
MB 160-92431/1-A	Method Blank	90.6							
MB 160-92438/1-A	Method Blank	92.8							

Tracer/Carrier Legend

U-232 = Uranium-232

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)							
Lab Sample ID	Client Sample ID	U-232 (30-110)							
680-96214-7	RINSATE	81.3							
LCS 160-92798/2-A	Lab Control Sample	75.3							
LCSD 160-92798/3-A	Lab Control Sample Dup	63.9							
MB 160-92798/1-A	Method Blank	75.6							

Tracer/Carrier Legend

U-232 = Uranium-232

Toxicity Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Client Sample ID: DD-B-5_SS — Lab Sample ID: 680-96214-1

Analyte	Result	Qualifier	NONE	NONE	Unit	WHO 2005 ND = 0 TEF	TEQ	Method
Total PCB TEQ					pg/g		8.8	TEQ
Total TEQ					pg/g		8.8	TEQ

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	TEQ	Method
PCB-77	**260**	**G**	9.4	9.4	pg/g	0.0001	**0.026**	1668C
PCB-81	**11**	**G**	9.2	9.2	pg/g	0.0003	**0.0033**	1668C
PCB-105	**1400**	**G**	33	33	pg/g	0.00003	**0.042**	1668C
PCB-114	**58**	**G**	31	31	pg/g	0.00003	**0.0017**	1668C
PCB-118	**2500**	**G B**	30	30	pg/g	0.00003	**0.075**	1668C
PCB-123	**41**	**G**	31	31	pg/g	0.00003	**0.0012**	1668C
PCB-126	**86**	**G**	36	36	pg/g	0.1	**8.6**	1668C
PCB-156/157	**740**	**G**	11	11	pg/g	0.00003	**0.022**	1668C
PCB-167	**270**	**G**	8.6	8.6	pg/g	0.00003	**0.0081**	1668C
PCB-169	10	U G	10	10	pg/g	0.03	0.00	1668C
PCB-189	**92**		4.1	1.4	pg/g	0.00003	**0.0028**	1668C

Client Sample ID: RINSATE — Lab Sample ID: 680-96214-7

Analyte	Result	Qualifier	RL	EDL	Unit	WHO 2005 ND = 0 TEF	TEQ	Method
PCB-77	4.8	U	19	4.8	pg/L	0.0001	0.00	1668C
PCB-81	4.6	U	19	4.6	pg/L	0.0003	0.00	1668C
PCB-105	**6.2**	**J B**	19	3.7	pg/L	0.00003	**0.00019**	1668C
PCB-114	3.3	U	19	3.3	pg/L	0.00003	0.00	1668C
PCB-118	**12**	**J B**	19	3.2	pg/L	0.00003	**0.00036**	1668C
PCB-123	3.2	U	19	3.2	pg/L	0.00003	0.00	1668C
PCB-126	4.0	U	19	4.0	pg/L	0.1	0.00	1668C
PCB-156/157	4.2	U	38	4.2	pg/L	0.00003	0.00	1668C
PCB-167	3.3	U	19	3.3	pg/L	0.00003	0.00	1668C
PCB-169	4.4	U	19	4.4	pg/L	0.03	0.00	1668C
PCB-189	6.6	U	19	6.6	pg/L	0.00003	0.00	1668C

TEF Reference:

WHO 2005 = World Health Organization (WHO) 2005 TEF, Dioxins, Furans and PCB Congeners

Isotope Dilution Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-4L	PCB-15L	PCB-123L	PCB-114L	PCB-202L	PCB-3L	PCB-118L	PCB-126L
Lab Sample ID	Client Sample ID	(5-145)	(5-145)	(10-145)	(10-145)	(10-145)	(5-145)	(10-145)	(10-145)
680-96214-1	DD-B-5_SS	35	53	71	73	62	40	73	77
MB 320-32403/1-A	Method Blank	32	48	56	56	51	39	58	60

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-206L	PCB-169L	PCB-37L	PCB-19L	PCB-188L	PCB-54L	CB-156L/15	PCB-167L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)	(5-145)	(5-145)	(10-145)	(5-145)	(10-145)	(10-145)
680-96214-1	DD-B-5_SS	74	98	67	44	50	35	96	92
MB 320-32403/1-A	Method Blank	68	85	56	36	39	32	82	78

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-209L	PCB-189L	PCB-105L	PCB-208L	PCB-1L	PCB-104L	PCB-81L	PCB-77L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)	(10-145)	(10-145)	(5-145)	(10-145)	(10-145)	(10-145)
680-96214-1	DD-B-5_SS	66	79	74	75	33	41	81	81
MB 320-32403/1-A	Method Blank	60	71	57	67	30	36	60	61

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		PCB-205L	PCB-155L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)
680-96214-1	DD-B-5_SS	82	59
MB 320-32403/1-A	Method Blank	75	48

Surrogate Legend

PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-123L = PCB-123L
PCB-114L = PCB-114L
PCB-202L = PCB-202L
PCB-3L = PCB-3L
PCB-118L = PCB-118L
PCB-126L = PCB-126L
PCB-206L = PCB-206L
PCB-169L = PCB-169L
PCB-37L = PCB-37L
PCB-19L = PCB-19L
PCB-188L = PCB-188L
PCB-54L = PCB-54L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-209L = PCB-209L
PCB-189L = PCB-189L
PCB-105L = PCB-105L
PCB-208L = PCB-208L
PCB-1L = PCB-1L
PCB-104L = PCB-104L
PCB-81L = PCB-81L
PCB-77L = PCB-77L
PCB-205L = PCB-205L
PCB-155L = PCB-155L

Isotope Dilution Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-4L	PCB-15L	PCB-123L	PCB-114L	PCB-3L	PCB-118L	PCB-126L	PCB-202L
Lab Sample ID	Client Sample ID	(15-145)	(15-145)	(40-145)	(40-145)	(15-145)	(40-145)	(40-145)	(40-145)
LCS 320-32403/2-A	Lab Control Sample	35	48	60	59	40	60	61	52

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-169L	PCB-206L	PCB-37L	PCB-19L	PCB-188L	PCB-54L	CB-156L/15	PCB-167L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(15-145)	(15-145)	(40-145)	(15-145)	(40-145)	(40-145)
LCS 320-32403/2-A	Lab Control Sample	87	73	56	39	42	31	87	81

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-209L	PCB-189L	PCB-105L	PCB-208L	PCB-1L	PCB-104L	PCB-81L	PCB-77L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(40-145)	(40-145)	(15-145)	(40-145)	(40-145)	(40-145)
LCS 320-32403/2-A	Lab Control Sample	63	77	60	73	34	38 *	60	61

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		PCB-205L	PCB-155L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)
LCS 320-32403/2-A	Lab Control Sample	81	49

Surrogate Legend

PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-123L = PCB-123L
PCB-114L = PCB-114L
PCB-3L = PCB-3L
PCB-118L = PCB-118L
PCB-126L = PCB-126L
PCB-202L = PCB-202L
PCB-169L = PCB-169L
PCB-206L = PCB-206L
PCB-37L = PCB-37L
PCB-19L = PCB-19L
PCB-188L = PCB-188L
PCB-54L = PCB-54L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-209L = PCB-209L
PCB-189L = PCB-189L
PCB-105L = PCB-105L
PCB-208L = PCB-208L
PCB-1L = PCB-1L
PCB-104L = PCB-104L
PCB-81L = PCB-81L
PCB-77L = PCB-77L
PCB-205L = PCB-205L
PCB-155L = PCB-155L

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-1L	PCB-3L	PCB-4L	PCB-15L	PCB-19L	PCB-37L	PCB-54L	PCB-77L
Lab Sample ID	Client Sample ID	(5-145)	(5-145)	(5-145)	(5-145)	(5-145)	(5-145)	(5-145)	(10-145)
680-96214-7	RINSATE	48	53	60	63	67	62	62	66

Isotope Dilution Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-1L	PCB-3L	PCB-4L	PCB-15L	PCB-19L	PCB-37L	PCB-54L	PCB-77L
Lab Sample ID	Client Sample ID	(5-145)	(5-145)	(5-145)	(5-145)	(5-145)	(5-145)	(5-145)	(10-145)
MB 320-31731/1-A	Method Blank	53	60	69	74	90	65	79	64

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-81L	PCB-104L	PCB-105L	PCB-114L	PCB-118L	PCB-123L	PCB-126L	PCB-155L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)
680-96214-7	RINSATE	64	58	69	69	69	70	70	63
MB 320-31731/1-A	Method Blank	64	71	73	73	74	73	69	73

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		CB-156L/15	PCB-167L	PCB-169L	PCB-188L	PCB-189L	PCB-202L	PCB-205L	PCB-206L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)	(10-145)
680-96214-7	RINSATE	72	70	72	81	72	86	77	85
MB 320-31731/1-A	Method Blank	73	75	70	102	81	107	85	95

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		PCB-208L	PCB-209L
Lab Sample ID	Client Sample ID	(10-145)	(10-145)
680-96214-7	RINSATE	86	82
MB 320-31731/1-A	Method Blank	100	95

Surrogate Legend

PCB-1L = PCB-1L
PCB-3L = PCB-3L
PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-19L = PCB-19L
PCB-37L = PCB-37L
PCB-54L = PCB-54L
PCB-77L = PCB-77L
PCB-81L = PCB-81L
PCB-104L = PCB-104L
PCB-105L = PCB-105L
PCB-114L = PCB-114L
PCB-118L = PCB-118L
PCB-123L = PCB-123L
PCB-126L = PCB-126L
PCB-155L = PCB-155L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-169L = PCB-169L
PCB-188L = PCB-188L
PCB-189L = PCB-189L
PCB-202L = PCB-202L
PCB-205L = PCB-205L
PCB-206L = PCB-206L
PCB-208L = PCB-208L
PCB-209L = PCB-209L

Isotope Dilution Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96214-1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-4L	PCB-15L	PCB-123L	PCB-114L	PCB-3L	PCB-118L	PCB-126L	PCB-202L
Lab Sample ID	Client Sample ID	(15-145)	(15-145)	(40-145)	(40-145)	(15-145)	(40-145)	(40-145)	(40-145)
LCS 320-31731/2-A	Lab Control Sample	58	66	76	76	51	77	75	99
LCSD 320-31731/3-A	Lab Control Sample Dup	68	74	76	76	57	76	75	99

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-169L	PCB-206L	PCB-37L	PCB-19L	PCB-188L	PCB-54L	CB-156L/15	PCB-167L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(15-145)	(15-145)	(40-145)	(15-145)	(40-145)	(40-145)
LCS 320-31731/2-A	Lab Control Sample	75	95	63	73	95	71	74	74
LCSD 320-31731/3-A	Lab Control Sample Dup	71	91	67	82	97	79	72	72

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB-209L	PCB-189L	PCB-105L	PCB-208L	PCB-1L	PCB-104L	PCB-81L	PCB-77L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(40-145)	(40-145)	(15-145)	(40-145)	(40-145)	(40-145)
LCS 320-31731/2-A	Lab Control Sample	96	79	76	100	43	69	69	71
LCSD 320-31731/3-A	Lab Control Sample Dup	91	76	75	95	51	73	68	69

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		PCB-205L	PCB-155L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)
LCS 320-31731/2-A	Lab Control Sample	87	73
LCSD 320-31731/3-A	Lab Control Sample Dup	84	75

Surrogate Legend

PCB-4L = PCB-4L
PCB-15L = PCB-15L
PCB-123L = PCB-123L
PCB-114L = PCB-114L
PCB-3L = PCB-3L
PCB-118L = PCB-118L
PCB-126L = PCB-126L
PCB-202L = PCB-202L
PCB-169L = PCB-169L
PCB-206L = PCB-206L
PCB-37L = PCB-37L
PCB-19L = PCB-19L
PCB-188L = PCB-188L
PCB-54L = PCB-54L
PCB-156L/157L = PCB-156L/157L
PCB-167L = PCB-167L
PCB-209L = PCB-209L
PCB-189L = PCB-189L
PCB-105L = PCB-105L
PCB-208L = PCB-208L
PCB-1L = PCB-1L
PCB-104L = PCB-104L
PCB-81L = PCB-81L
PCB-77L = PCB-77L
PCB-205L = PCB-205L
PCB-155L = PCB-155L

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Job ID: 680-96439-1
Client Project/Site: TIMET
Revision: 2

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Job ID: 680-96439-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: GEI Consultants, Inc.

Project: TIMET

Report Number: 680-96439-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT
The samples were received on 11/22/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt were 1.5° C, 1.7° C, 2.0° C, 2.1° C and 2.2° C.

SEMIVOLATILE ORGANIC COMPOUNDS (SOLID)
Samples S17-SS-1_SS (680-96439-1), FM-SS-2_SS (680-96439-4), FM-SS-2_SS DUP (680-96439-5), FM-SS-3_SS (680-96439-6), NS-SS-1_SS (680-96439-9), NS-SS-5_SS (680-96439-10), BY-SS-3_SS (680-96439-11), BY-SS-3_SS DUP (680-96439-12), J2-SS-2_SS (680-96439-14) and S17-SS-2_SS (680-96439-16) were analyzed for Semivolatile Organic Compounds (Solid) in accordance with EPA SW846 Method 8270D. The samples were prepared on 12/02/2013 and analyzed on 12/03/2013 and 12/04/2013.

Pyrene failed the recovery criteria high for LCS 160-88803/2-A.

Internal standard response for the following samples exceeded the lower control limit: FM-SS-2_SS (680-96439-4). As such, the sample results may be biased high.

Several analytes failed the recovery criteria high for the MS/MSD of sample BY-SS-3_SSMS/MSD (680-96439-11) in batch 160-89755.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (AQUEOUS)
Sample RINSATE (680-96439-22) was analyzed for Semivolatile Organic Compounds (Aqueous) in accordance with EPA SW846 Method 8270D. The samples were prepared on 11/22/2013 and analyzed on 11/27/2013.

Phenol-d5 (Surr) failed the surrogate recovery criteria high for RINSATE (680-96439-22).

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

CHLORINATED BIPHENYL CONGENERS
Samples FM-SS-1_SS (680-96439-2), FM-SS-1_SS DUP (680-96439-3), FM-SS-2_SS (680-96439-4), FM-SS-2_SS DUP (680-96439-5), FM-SS-3_SS (680-96439-6), FM-SS-4_SS (680-96439-7), BY-SS-1_SS (680-96439-8), NS-SS-1_SS (680-96439-9), NS-SS-5_SS (680-96439-10), BY-SS-3_SS (680-96439-11), BY-SS-3_SS DUP (680-96439-12), J2-SS-3_SS (680-96439-13), J2-SS-2_SS (680-96439-14), J2-SS-1_SS (680-96439-15) and S17-SS-2_SS (680-96439-16) were analyzed for chlorinated biphenyl congeners in accordance with epa method 1668C. The samples were prepared on 12/18/2013, 12/19/2013 and 12/21/2013 and analyzed on

Job ID: 680-96439-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

01/05/2014, 01/12/2014, 01/18/2014, 01/19/2014, 01/22/2014, 02/06/2014, 02/07/2014, 02/09/2014 and 02/10/2014.

Several analytes were detected in method blank MB 320-32172/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. PCB-1 was detected in method blank MB 320-32277/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Several analytes were detected in method blank MB 320-32277/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. PCB-1 was detected in method blank MB 320-32403/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Several analytes were detected in method blank MB 320-32403/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

PCB-105 and PCB-118 failed the recovery criteria high for the MS of sample BY-SS-3_SSMS (680-96439-11) in batch 320-34287.

PCB-118 and PCB-209 failed the recovery criteria low for the MSD of sample BY-SS-3_SSMSD (680-96439-11) in batch 320-34287.

PCB-118, PCB-206 and PCB-209 failed the recovery criteria high for the MS of sample FM-SS-1_SSMS (680-96439-2) in batch 320-33200.

For the MSD of sample FM-SS-1_SSMSD (680-96439-2) in batch 320-33200, PCB-209 failed the recovery criteria low. PCB-15 and PCB-37 failed the recovery criteria high. Also, PCB-15 exceeded the RPD limit.

The concentration of the PCB 209 analyte associated with the following samples exceeded the instrument calibration range: J2-SS-1_SS (680-96439-15), NS-SS-1_SS (680-96439-9). This analyte has been qualified; however, the peak did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

The following sample required a dilution of 50 times the original extract, which was then refortified with the isotope dilution analytes (IDAs) for target analyte quantitation. The complex dilution was required to bring the concentration of the target analyte, PCB 209, within the linear range of the instrument detector: J2-SS-1_SS (680-96439-15). Elevated reporting limits (RLs) are provided.

Reanalysis of the following samples BY-SS-3_SS (680-96439-11), BY-SS-3_SS (680-96439-11 MS), BY-SS-3_SS (680-96439-11 MSD) was performed outside of the analytical holding time. The samples were originally analyzed at a 20 times dilution within the analytical holding time. The reanalysis was performed on the undiluted samples. Both injections will be reported; the initial diluted sample results will be reported as the primary result.

The concentration of DCB - Decachlorobiphenyl associated with the following samples exceeded the instrument calibration range: FM-SS-1_SS (680-96439-2), FM-SS-1_SS (680-96439-2 MS), FM-SS-1_SS (680-96439-2 MSD), FM-SS-1_SS DUP (680-96439-3). These analytes have been qualified; however, the peaks did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

The concentration of PCB-209 associated with the following sample exceeded the instrument calibration range: FM-SS-3_SS (680-96439-6). This analyte has been qualified; however, the peak did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

The concentration of PCB-209 associated with the following samples exceeded the instrument calibration range: FM-SS-4_SS (680-96439-7). This analyte has been qualified; however, the peaks did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

The following sample required a complex dilution and re-fortification of the Isotope Dilution Analyte (IDA) standards due to elevated concentrations of PCB-209: FM-SS-4_SS (680-96439-7). Elevated reporting limits (RLs) are provided.

Job ID: 680-96439-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

The concentration of PCB-11 associated with the following sample exceeded the instrument calibration range: FM-SS-4_SS (680-96439-7). This analyte has been qualified; however, the peak did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

The concentration of one or more analytes associated with the following sample exceeded the instrument calibration range: J2-SS-1_SS (680-96439-15). These analytes have been qualified; however, the peaks did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

Samples FM-SS-2_SS (680-96439-4)[20X], FM-SS-2_SS DUP (680-96439-5)[20X], FM-SS-3_SS (680-96439-6)[20X], BY-SS-1_SS (680-96439-8)[20X], NS-SS-1_SS (680-96439-9)[10X], BY-SS-3_SS (680-96439-11)[20X], J2-SS-3_SS (680-96439-13)[25X], J2-SS-2_SS (680-96439-14)[10X] and S17-SS-2_SS (680-96439-16)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the chlorinated biphenyl congeners analysis.

All other quality control parameters were within the acceptance limits.

CHLORINATED BIPHENYL CONGENERS

Sample RINSATE (680-96439-22) was analyzed for chlorinated biphenyl congeners in accordance with EPA method 1668C. The samples were prepared on 12/12/2013 and analyzed on 12/20/2013.

Several analytes were detected in method blank MB 320-31731/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the chlorinated biphenyl congeners analysis.

All other quality control parameters were within the acceptance limits.

DIOXINS AND FURANS

Samples S17-SS-1_SS (680-96439-1), FM-SS-2_SS (680-96439-4), FM-SS-2_SS DUP (680-96439-5), FM-SS-3_SS (680-96439-6), NS-SS-1_SS (680-96439-9), NS-SS-5_SS (680-96439-10), BY-SS-3_SS (680-96439-11), BY-SS-3_SS DUP (680-96439-12), J2-SS-2_SS (680-96439-14) and S17-SS-2_SS (680-96439-16) were analyzed for dioxins and furans in accordance with EPA Method 8290A. The samples were prepared on 12/18/2013 and 12/19/2013 and analyzed on 01/07/2014, 01/08/2014, 01/14/2014, 01/16/2014 and 01/29/2014.

1,2,3,4,6,7,8-HpCDD, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, OCDD and OCDF were detected in method blank MB 320-32158/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Several analytes were detected in method blank MB 320-32264/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Samples FM-SS-3_SS (680-96439-6)[20X] and NS-SS-1_SS (680-96439-9)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the dioxins and furans analysis.

All other quality control parameters were within the acceptance limits.

DIOXINS AND FURANS

Sample RINSATE (680-96439-22) was analyzed for dioxins and furans in accordance with EPA SW-846 8290A. The samples were prepared on 12/05/2013 and analyzed on 12/27/2013.

Job ID: 680-96439-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Several analytes were detected in method blank MB 320-31203/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the dioxins and furans analysis.

All other quality control parameters were within the acceptance limits.

METALS (ICP)

Samples FM-SS-1_SS (680-96439-2), FM-SS-1_SS DUP (680-96439-3), FM-SS-2_SS (680-96439-4), FM-SS-2_SS DUP (680-96439-5), FM-SS-3_SS (680-96439-6), FM-SS-4_SS (680-96439-7), BY-SS-1_SS (680-96439-8), NS-SS-1_SS (680-96439-9), NS-SS-5_SS (680-96439-10), BY-SS-3_SS (680-96439-11), BY-SS-3_SS DUP (680-96439-12), J2-SS-3_SS (680-96439-13), J2-SS-2_SS (680-96439-14), J2-SS-1_SS (680-96439-15), BY-SS-4_SS (680-96439-17), NS-SS-4_SS (680-96439-18), NS-SS-3_SS (680-96439-19), NS-SS-2_SS (680-96439-20) and BY-SS-2_SS (680-96439-21) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 12/03/2013 and analyzed on 12/03/2013, 12/10/2013 and 12/31/2013.

Antimony, Barium, Calcium and Potassium failed the recovery criteria low for the MS of sample BY-SS-3_SSMS (680-96439-11) in batch 160-95650. Several analytes failed the recovery criteria high.

Several analytes failed the recovery criteria low for the MSD of sample BY-SS-3_SSMSD (680-96439-11) in batch 160-95650. Aluminum, Iron, Magnesium and Titanium failed the recovery criteria high.

Antimony and Vanadium failed the recovery criteria low for the MS of sample FM-SS-1_SSMS (680-96439-2) in batch 160-95650. Several analytes failed the recovery criteria high.

For the MSD of sample FM-SS-1_SSMSD (680-96439-2) in batch 160-95650, Antimony failed the recovery criteria low. Several analytes failed the recovery criteria high. Also, Calcium exceeded the RPD limit.

Samples FM-SS-1_SS (680-96439-2)[5X], FM-SS-1_SS DUP (680-96439-3)[5X], FM-SS-2_SS (680-96439-4)[5X], FM-SS-2_SS DUP (680-96439-5)[5X], FM-SS-3_SS (680-96439-6)[5X], FM-SS-4_SS (680-96439-7)[5X], BY-SS-1_SS (680-96439-8)[5X], NS-SS-1_SS (680-96439-9)[5X], NS-SS-5_SS (680-96439-10)[5X], BY-SS-3_SS (680-96439-11)[5X], BY-SS-3_SS DUP (680-96439-12)[25X], J2-SS-3_SS (680-96439-13)[5X], J2-SS-2_SS (680-96439-14)[5X], J2-SS-1_SS (680-96439-15)[25X], BY-SS-4_SS (680-96439-17)[5X], NS-SS-4_SS (680-96439-18)[5X], NS-SS-3_SS (680-96439-19)[50X], NS-SS-2_SS (680-96439-20)[25X], BY-SS-2_SS (680-96439-21)[2X] and BY-SS-2_SS (680-96439-21)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

METALS (ICP)

Sample RINSATE (680-96439-22) was analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 12/18/2013 and analyzed on 12/20/2013.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

METALS (ICPMS)

Samples FM-SS-1_SS (680-96439-2), FM-SS-1_SS DUP (680-96439-3), FM-SS-2_SS (680-96439-4), FM-SS-2_SS DUP (680-96439-5), FM-SS-3_SS (680-96439-6), FM-SS-4_SS (680-96439-7), BY-SS-1_SS (680-96439-8), NS-SS-1_SS (680-96439-9), NS-SS-5_SS (680-96439-10), BY-SS-3_SS (680-96439-11), BY-SS-3_SS DUP (680-96439-12), J2-SS-3_SS (680-96439-13), J2-SS-2_SS (680-96439-14), J2-SS-1_SS (680-96439-15), BY-SS-4_SS (680-96439-17), NS-SS-4_SS (680-96439-18), NS-SS-3_SS (680-96439-19), NS-SS-2_SS (680-96439-20) and BY-SS-2_SS (680-96439-21) were analyzed for metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 12/03/2013 and analyzed on 12/25/2013 and 12/26/2013.

Job ID: 680-96439-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Niobium failed the recovery criteria low for the MS/MSD of sample BY-SS-3_SSMS/MSD (680-96439-11) in batch 160-94704.

Niobium failed the recovery criteria low for the MS/MSD of sample FM-SS-1_SSMS/MSD (680-96439-2) in batch 160-94704.

Samples FM-SS-1_SS (680-96439-2)[10X], FM-SS-1_SS DUP (680-96439-3)[10X], FM-SS-2_SS (680-96439-4)[10X], FM-SS-2_SS DUP (680-96439-5)[10X], FM-SS-3_SS (680-96439-6)[10X], FM-SS-3_SS (680-96439-6)[50X], FM-SS-4_SS (680-96439-7)[10X], BY-SS-1_SS (680-96439-8)[10X], NS-SS-1_SS (680-96439-9)[10X], NS-SS-5_SS (680-96439-10)[10X], BY-SS-3_SS (680-96439-11)[10X], BY-SS-3_SS DUP (680-96439-12)[10X], J2-SS-3_SS (680-96439-13)[10X], J2-SS-2_SS (680-96439-14)[10X], J2-SS-1_SS (680-96439-15)[10X], J2-SS-1_SS (680-96439-15)[20X], BY-SS-4_SS (680-96439-17)[10X], NS-SS-4_SS (680-96439-18)[10X], NS-SS-3_SS (680-96439-19)[10X], NS-SS-2_SS (680-96439-20)[10X], NS-SS-2_SS (680-96439-20)[50X] and BY-SS-2_SS (680-96439-21)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

METALS (ICPMS)

Sample RINSATE (680-96439-22) was analyzed for Metals (ICPMS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 12/18/2013 and analyzed on 12/26/2013.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Sample RINSATE (680-96439-22) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 11/27/2013.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples FM-SS-1_SS (680-96439-2), FM-SS-1_SS DUP (680-96439-3), FM-SS-2_SS (680-96439-4), FM-SS-2_SS DUP (680-96439-5), FM-SS-3_SS (680-96439-6), FM-SS-4_SS (680-96439-7), BY-SS-1_SS (680-96439-8), NS-SS-1_SS (680-96439-9), NS-SS-5_SS (680-96439-10), BY-SS-3_SS (680-96439-11), BY-SS-3_SS DUP (680-96439-12), J2-SS-3_SS (680-96439-13), J2-SS-2_SS (680-96439-14), J2-SS-1_SS (680-96439-15), BY-SS-4_SS (680-96439-17), NS-SS-4_SS (680-96439-18), NS-SS-3_SS (680-96439-19), NS-SS-2_SS (680-96439-20) and BY-SS-2_SS (680-96439-21) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 11/26/2013 and analyzed on 11/27/2013.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

ANIONS BY IC

Samples FM-SS-1_SS (680-96439-2), FM-SS-1_SS DUP (680-96439-3), FM-SS-2_SS (680-96439-4), FM-SS-2_SS DUP (680-96439-5), FM-SS-3_SS (680-96439-6), FM-SS-4_SS (680-96439-7), BY-SS-1_SS (680-96439-8), NS-SS-1_SS (680-96439-9), NS-SS-5_SS (680-96439-10), BY-SS-3_SS (680-96439-11), BY-SS-3_SS DUP (680-96439-12), J2-SS-3_SS (680-96439-13), J2-SS-2_SS (680-96439-14), J2-SS-1_SS (680-96439-15), BY-SS-4_SS (680-96439-17) and BY-SS-2_SS (680-96439-21) were analyzed for Anions by IC in accordance with EPA Method 300.0. The samples were leached on 12/09/2013 and 12/18/2013 and analyzed on 12/09/2013, 12/10/2013, 12/18/2013 and 12/19/2013.

Sulfate failed the recovery criteria low for the MS of sample BY-SS-3_SSMS (680-96439-11) in batch 160-93483.

Job ID: 680-96439-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Sulfate and Chloride failed the recovery criteria low for the MSD of sample BY-SS-3_SSMSD (680-96439-11) in batch 160-93481.

Sulfate failed the recovery criteria low for the MS of sample FM-SS-1_SSMS (680-96439-2) in batch 160-93483.

Nitrate as N failed the recovery criteria low for the MSD of sample FM-SS-1_SSMSD (680-96439-2) in batch 160-93483. Sulfate failed the recovery criteria high.

Samples FM-SS-1_SS (680-96439-2)[100X], FM-SS-1_SS (680-96439-2)[20X], FM-SS-1_SS DUP (680-96439-3)[100X], FM-SS-2_SS (680-96439-4)[100X], FM-SS-2_SS (680-96439-4)[20X], FM-SS-2_SS DUP (680-96439-5)[20X], FM-SS-3_SS (680-96439-6)[100X], FM-SS-3_SS (680-96439-6)[20X], FM-SS-4_SS (680-96439-7)[100X], FM-SS-4_SS (680-96439-7)[20X], BY-SS-1_SS (680-96439-8)[20X], BY-SS-1_SS (680-96439-8)[200X], NS-SS-1_SS (680-96439-9)[20X], BY-SS-3_SS (680-96439-11)[20X], BY-SS-3_SS (680-96439-11)[200X], BY-SS-3_SS DUP (680-96439-12)[20X], BY-SS-3_SS DUP (680-96439-12)[200X], J2-SS-3_SS (680-96439-13)[20X], J2-SS-3_SS (680-96439-13)[200X], J2-SS-2_SS (680-96439-14)[20X], J2-SS-2_SS (680-96439-14)[500X], J2-SS-1_SS (680-96439-15)[20X], J2-SS-1_SS (680-96439-15)[200X], BY-SS-4_SS (680-96439-17)[20X], BY-SS-4_SS (680-96439-17)[200X], BY-SS-2_SS (680-96439-21)[20X], BY-SS-2_SS (680-96439-21)[200X] and BY-SS-2_SS (680-96439-21)[500X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the anions analysis.

All other quality control parameters were within the acceptance limits.

ANIONS BY IC

Sample RINSATE (680-96439-22) was analyzed for Anions by IC in accordance with EPA Method 300.0. The samples were analyzed on 11/22/2013.

No difficulties were encountered during the Anions analysis.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS/MOISTURE

Samples S17-SS-1_SS (680-96439-1), FM-SS-1_SS (680-96439-2), FM-SS-1_SS DUP (680-96439-3), FM-SS-2_SS (680-96439-4), FM-SS-2_SS DUP (680-96439-5), FM-SS-3_SS (680-96439-6), FM-SS-4_SS (680-96439-7), BY-SS-1_SS (680-96439-8), NS-SS-1_SS (680-96439-9), NS-SS-5_SS (680-96439-10), BY-SS-3_SS (680-96439-11), BY-SS-3_SS DUP (680-96439-12), J2-SS-3_SS (680-96439-13), J2-SS-2_SS (680-96439-14), J2-SS-1_SS (680-96439-15), S17-SS-2_SS (680-96439-16), BY-SS-4_SS (680-96439-17), NS-SS-4_SS (680-96439-18), NS-SS-3_SS (680-96439-19), NS-SS-2_SS (680-96439-20) and BY-SS-2_SS (680-96439-21) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP. The samples were analyzed on 11/23/2013.

No difficulties were encountered during the % solids/moisture analysis.

All quality control parameters were within the acceptance limits.

GROSS ALPHA AND GROSS BETA RADIOACTIVITY

Samples FM-SS-1_SS (680-96439-2), FM-SS-1_SS DUP (680-96439-3), FM-SS-2_SS (680-96439-4), FM-SS-2_SS DUP (680-96439-5), FM-SS-3_SS (680-96439-6), FM-SS-4_SS (680-96439-7), NS-SS-1_SS (680-96439-9), NS-SS-5_SS (680-96439-10), BY-SS-3_SS (680-96439-11), BY-SS-3_SS DUP (680-96439-12) and J2-SS-2_SS (680-96439-14) were analyzed for Gross Alpha and Gross Beta Radioactivity in accordance with EPA Method 900.0. The samples were leached on 11/22/2013, and prepared and analyzed on 12/23/2013.

Gross Beta was detected in method blank MB 160-94280/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the radioactivity analysis.

All other quality control parameters were within the acceptance limits.

Job ID: 680-96439-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

GROSS ALPHA AND GROSS BETA RADIOACTIVITY

Sample RINSATE (680-96439-22) was analyzed for Gross Alpha and Gross Beta Radioactivity in accordance with EPA Method 900.0. The samples were prepared on 12/27/2013 and analyzed on 12/30/2013.

No difficulties were encountered during the gross alpha & beta analysis.

All quality control parameters were within the acceptance limits.

RADIUM-226 AND OTHER GAMMA EMITTERS (GS)

Samples FM-SS-1_SS (680-96439-2), FM-SS-1_SS DUP (680-96439-3), FM-SS-2_SS (680-96439-4), FM-SS-2_SS DUP (680-96439-5), FM-SS-3_SS (680-96439-6), FM-SS-4_SS (680-96439-7), NS-SS-1_SS (680-96439-9), NS-SS-5_SS (680-96439-10), BY-SS-3_SS (680-96439-11), BY-SS-3_SS DUP (680-96439-12) and J2-SS-2_SS (680-96439-14) were analyzed for Radium-226 and other gamma emitters (GS) in accordance with EPA Method 901.1. The samples were leached on 11/22/2013, prepared on 11/26/2013 and analyzed on 12/18/2013.

No difficulties were encountered during the radium-226 analysis.

All quality control parameters were within the acceptance limits.

GAMMA EMITTERS

Sample RINSATE (680-96439-22) was analyzed for Gamma Emitters in accordance with 901.1. The samples were prepared on 12/09/2013 and analyzed on 01/01/2014.

No difficulties were encountered during the Gamma Emitters analysis.

All quality control parameters were within the acceptance limits.

RADIUM-226 (GFPC)

Samples FM-SS-1_SS (680-96439-2), FM-SS-1_SS DUP (680-96439-3), FM-SS-2_SS (680-96439-4), FM-SS-2_SS DUP (680-96439-5), FM-SS-3_SS (680-96439-6), FM-SS-4_SS (680-96439-7), NS-SS-1_SS (680-96439-9), NS-SS-5_SS (680-96439-10), BY-SS-3_SS (680-96439-11), BY-SS-3_SS DUP (680-96439-12) and J2-SS-2_SS (680-96439-14) were analyzed for Radium-226 (GFPC) in accordance with EPA Method 903.0. The samples were leached on 11/22/2013, prepared on 11/26/2013 and analyzed on 12/24/2013.

No difficulties were encountered during the radium-226 analysis.

All quality control parameters were within the acceptance limits.

RADIUM-226

Sample RINSATE (680-96439-22) was analyzed for Radium-226 in accordance with EPA Method 903.0. The samples were prepared on 11/25/2013 and analyzed on 12/17/2013.

No difficulties were encountered during the radium-226 analysis.

All quality control parameters were within the acceptance limits.

RADIUM-228 (GFPC)

Samples FM-SS-1_SS (680-96439-2), FM-SS-1_SS DUP (680-96439-3), FM-SS-2_SS (680-96439-4), FM-SS-2_SS DUP (680-96439-5), FM-SS-3_SS (680-96439-6), FM-SS-4_SS (680-96439-7), NS-SS-1_SS (680-96439-9), NS-SS-5_SS (680-96439-10), BY-SS-3_SS (680-96439-11), BY-SS-3_SS DUP (680-96439-12) and J2-SS-2_SS (680-96439-14) were analyzed for Radium-228 (GFPC) in accordance with EPA Method 904.0. The samples were leached on 11/22/2013, prepared on 11/26/2013 and analyzed on 12/20/2013.

No difficulties were encountered during the radium-228 analysis.

All quality control parameters were within the acceptance limits.

Job ID: 680-96439-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

RADIUM-228 (GFPC)
Sample RINSATE (680-96439-22) was analyzed for Radium-228 (GFPC) in accordance with EPA Method 904.0. The samples were prepared on 11/25/2013 and analyzed on 12/11/2013.

No difficulties were encountered during the radium-228 analysis.

All quality control parameters were within the acceptance limits.

ISOTOPIC THORIUM
Samples FM-SS-1_SS (680-96439-2), FM-SS-1_SS DUP (680-96439-3), FM-SS-2_SS (680-96439-4), FM-SS-2_SS DUP (680-96439-5), FM-SS-3_SS (680-96439-6), FM-SS-4_SS (680-96439-7), NS-SS-1_SS (680-96439-9), NS-SS-5_SS (680-96439-10), BY-SS-3_SS (680-96439-11), BY-SS-3_SS DUP (680-96439-12) and J2-SS-2_SS (680-96439-14) were analyzed for Isotopic Thorium in accordance with A01R_Th. The samples were leached on 11/22/2013, prepared on 12/16/2013 and 12/24/2013 and analyzed on 01/04/2014 and 12/27/2013.

Thorium-230 was detected in method blank MB 160-92428/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the thorium analysis.

All other quality control parameters were within the acceptance limits.

THORIUM
Sample RINSATE (680-96439-22) was analyzed for Thorium in accordance with A01R_Th. The samples were prepared on 12/24/2013 and analyzed on 12/30/2013.

No difficulties were encountered during the Thorium analysis.

All quality control parameters were within the acceptance limits.

ISOTOPIC URANIUM
Samples FM-SS-1_SS (680-96439-2), FM-SS-1_SS DUP (680-96439-3), FM-SS-2_SS (680-96439-4), FM-SS-2_SS DUP (680-96439-5), FM-SS-3_SS (680-96439-6), FM-SS-4_SS (680-96439-7), NS-SS-1_SS (680-96439-9), NS-SS-5_SS (680-96439-10), BY-SS-3_SS (680-96439-11), BY-SS-3_SS DUP (680-96439-12) and J2-SS-2_SS (680-96439-14) were analyzed for Isotopic Uranium in accordance with A01R_U. The samples were leached on 11/22/2013, prepared on 12/16/2013 and 12/24/2013 and analyzed on 01/04/2014 and 12/26/2013.

No difficulties were encountered during the uranium analysis.

All quality control parameters were within the acceptance limits.

URANIUM
Sample RINSATE (680-96439-22) was analyzed for Uranium in accordance with A01R_U. The samples were prepared on 01/02/2014 and analyzed on 01/04/2014.

No difficulties were encountered during the Uranium analysis.

All quality control parameters were within the acceptance limits.

Report revised 3/26/2014 to correct flags applied to 1668 data.

Sample Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-96439-1	S17-SS-1_SS	Solid	11/21/13 12:30	11/22/13 09:45
680-96439-2	FM-SS-1_SS	Solid	11/20/13 12:30	11/22/13 09:45
680-96439-3	FM-SS-1_SS DUP	Solid	11/20/13 12:30	11/22/13 09:45
680-96439-4	FM-SS-2_SS	Solid	11/20/13 12:00	11/22/13 09:45
680-96439-5	FM-SS-2_SS DUP	Solid	11/20/13 12:00	11/22/13 09:45
680-96439-6	FM-SS-3_SS	Solid	11/20/13 13:00	11/22/13 09:45
680-96439-7	FM-SS-4_SS	Solid	11/20/13 14:20	11/22/13 09:45
680-96439-8	BY-SS-1_SS	Solid	11/20/13 15:10	11/22/13 09:45
680-96439-9	NS-SS-1_SS	Solid	11/20/13 09:25	11/22/13 09:45
680-96439-10	NS-SS-5_SS	Solid	11/20/13 09:50	11/22/13 09:45
680-96439-11	BY-SS-3_SS	Solid	11/20/13 10:10	11/22/13 09:45
680-96439-12	BY-SS-3_SS DUP	Solid	11/20/13 10:10	11/22/13 09:45
680-96439-13	J2-SS-3_SS	Solid	11/21/13 08:00	11/22/13 09:45
680-96439-14	J2-SS-2_SS	Solid	11/21/13 08:25	11/22/13 09:45
680-96439-15	J2-SS-1_SS	Solid	11/21/13 08:55	11/22/13 09:45
680-96439-16	S17-SS-2_SS	Solid	11/21/13 12:00	11/22/13 09:45
680-96439-17	BY-SS-4_SS	Solid	11/20/13 15:40	11/22/13 09:45
680-96439-18	NS-SS-4_SS	Solid	11/20/13 14:44	11/22/13 09:45
680-96439-19	NS-SS-3_SS	Solid	11/20/13 15:05	11/22/13 09:45
680-96439-20	NS-SS-2_SS	Solid	11/20/13 14:55	11/22/13 09:45
680-96439-21	BY-SS-2_SS	Solid	11/20/13 15:25	11/22/13 09:45
680-96439-22	RINSATE	Water	11/21/13 11:30	11/22/13 09:45

Method Summary

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SL
1668C	Chlorinated Biphenyl Congeners (HRGC/HRMS)	EPA	TAL SAC
8290A	Dioxins and Furans (HRGC/HRMS)	SW846	TAL SAC
6010C	Metals (ICP)	SW846	TAL SL
6020A	Metals (ICP/MS)	SW846	TAL SL
7470A	Mercury (CVAA)	SW846	TAL SL
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL SL
300.0	Anions, Ion Chromatography	MCAWW	TAL SL
Moisture	Percent Moisture	EPA	TAL SL
900.0	Gross Alpha and Gross Beta Radioactivity	EPA	TAL SL
901.1	Radium-226 & Other Gamma Emitters (GS)	EPA	TAL SL
903.0	Radium-226 (GFPC)	EPA	TAL SL
904.0	Radium-228 (GFPC)	EPA	TAL SL
A-01-R	Isotopic Uranium (Alpha Spectrometry)	DOE	TAL SL
A-01-R	Isotopic Thorium (Alpha Spectrometry)	DOE	TAL SL

Protocol References:

DOE = U.S. Department of Energy

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD exceeds the control limits
*	ISTD response or retention time outside acceptable limits
F	MS/MSD Recovery and/or RPD exceeds the control limits
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Dioxin

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.
U	Indicates the analyte was analyzed for but not detected.
G	The reported quantitation limit has been raised due to an exhibited elevated noise or matrix interference
F1	MS and/or MSD Recovery exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F2	MS/MSD RPD exceeds control limits
*	Isotope Dilution analyte exceeds control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
F	MS/MSD Recovery and/or RPD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery exceeds the control limits
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
F2	MS/MSD RPD exceeds control limits

General Chemistry

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Rad

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Carrier exceeds control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: TIMET

TestAmerica Job ID: 680-96439-1

Client Sample ID: S17-SS-1_SS
Date Collected: 11/21/13 12:30
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-1
Matrix: Solid
Percent Solids: 96.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1
Acenaphthylene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1
Anthracene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1
Benzo[a]anthracene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1
Benzo[b]fluoranthene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1
Benzo[k]fluoranthene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1
Benzo[g,h,i]perylene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1
Benzo[a]pyrene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1
Chrysene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1
Dibenz(a,h)anthracene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1
Fluoranthene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1
Fluorene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1
Indeno[1,2,3-cd]pyrene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1
Naphthalene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1
Phenanthrene	34	U	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1
Pyrene	34	U *	340	34	ug/Kg	☼	12/02/13 12:17	12/03/13 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*91*		*53 - 97*	*12/02/13 12:17*	*12/03/13 22:09*	*1*
2,4,6-Tribromophenol (Surr)	*87*		*46 - 111*	*12/02/13 12:17*	*12/03/13 22:09*	*1*
Nitrobenzene-d5 (Surr)	*88*		*55 - 98*	*12/02/13 12:17*	*12/03/13 22:09*	*1*
Phenol-d5 (Surr)	*85*		*54 - 101*	*12/02/13 12:17*	*12/03/13 22:09*	*1*
Terphenyl-d14 (Surr)	*76*		*58 - 123*	*12/02/13 12:17*	*12/03/13 22:09*	*1*
2-Fluorobiphenyl (Surr)	*88*		*56 - 97*	*12/02/13 12:17*	*12/03/13 22:09*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.11	J q	2.1	0.039	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1
1,2,3,7,8-PeCDD	0.27	J q	10	0.061	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1
1,2,3,7,8-PeCDF	2.6	J q	10	0.046	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1
2,3,4,7,8-PeCDF	2.7	J B	10	0.048	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1
1,2,3,4,7,8-HxCDD	0.23	J B q	10	0.056	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1
1,2,3,6,7,8-HxCDD	0.76	J q B	10	0.040	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1
1,2,3,7,8,9-HxCDD	1.0	J B	10	0.041	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1
1,2,3,4,7,8-HxCDF	8.0	J B	10	0.054	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1
1,2,3,6,7,8-HxCDF	4.6	J B	10	0.040	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1
1,2,3,7,8,9-HxCDF	0.38	J B q	10	0.052	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1
2,3,4,6,7,8-HxCDF	5.1	J B	10	0.047	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1
1,2,3,4,6,7,8-HpCDD	4.4	J B	10	0.099	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1
1,2,3,4,6,7,8-HpCDF	23	B	10	0.082	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1
1,2,3,4,7,8,9-HpCDF	4.7	J B	10	0.097	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1
OCDD	11	J B	21	0.099	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1
OCDF	92	B	21	0.15	pg/g	☼	12/19/13 15:47	01/08/14 11:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,6,7,8-HxCDD	*101*		*40 - 135*	*12/19/13 15:47*	*01/08/14 11:28*	*1*
13C-2,3,7,8-TCDD	*95*		*40 - 135*	*12/19/13 15:47*	*01/08/14 11:28*	*1*
13C-1,2,3,7,8-PeCDD	*93*		*40 - 135*	*12/19/13 15:47*	*01/08/14 11:28*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*96*		*40 - 135*	*12/19/13 15:47*	*01/08/14 11:28*	*1*
13C-1,2,3,7,8-PeCDF	*93*		*40 - 135*	*12/19/13 15:47*	*01/08/14 11:28*	*1*

Client Sample ID: S17-SS-1_SS

Lab Sample ID: 680-96439-1
Date Collected: 11/21/13 12:30
Matrix: Solid
Date Received: 11/22/13 09:45
Percent Solids: 96.8

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDF	*90*		*40 - 135*	*12/19/13 15:47*	*01/08/14 11:28*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*101*		*40 - 135*	*12/19/13 15:47*	*01/08/14 11:28*	*1*
13C-OCDD	*98*		*40 - 135*	*12/19/13 15:47*	*01/08/14 11:28*	*1*
13C-1,2,3,4,7,8-HxCDF	*90*		*40 - 135*	*12/19/13 15:47*	*01/08/14 11:28*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	2.7	B	2.1	0.33	pg/g	☼	12/19/13 15:47	01/14/14 03:42	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDF	*104*		*40 - 135*	*12/19/13 15:47*	*01/14/14 03:42*	*1*

Client Sample ID: FM-SS-1_SS

Lab Sample ID: 680-96439-2
Date Collected: 11/20/13 12:30
Matrix: Solid
Date Received: 11/22/13 09:45
Percent Solids: 96.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	9.8	J B	40	1.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-2	12	J	40	1.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-3	17	J B	40	1.0	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-4	9.0	U	40	9.0	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-5	8.4	U	40	8.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-6	9.1	J	40	8.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-7	7.9	U	40	7.9	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-8	14	J	40	8.2	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-9	8.9	U	40	8.9	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-10	5.2	U	40	5.2	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-11	1100	B	40	8.7	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-12/13	17	J	80	8.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-14	7.3	U	40	7.3	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-15	27	J	40	8.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-16	6.3	J	40	0.63	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-17	4.4	J	40	0.44	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-18/30	7.3	J	80	0.37	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-19	1.2	J q	40	0.57	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-20/28	29	J B	80	2.2	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-21/33	17	J B	80	2.0	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-22	10	J	40	2.3	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-23	2.0	U	40	2.0	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-24	0.74	J	40	0.32	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-25	2.2	J	40	2.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-26/29	11	J	80	2.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-27	1.2	J	40	0.33	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-31	27	J B	40	2.0	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-32	3.1	J	40	0.26	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-34	2.1	U	40	2.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-35	220		40	2.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-36	12	J	40	2.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-37	28	J	40	2.5	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-38	2.3	U	40	2.3	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1

Client Sample ID: FM-SS-1_SS

Date Collected: 11/20/13 12:30
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-2
Matrix: Solid
Percent Solids: 96.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-39	2.1	U	40	2.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-40/71	20	J	80	0.44	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-41	3.3	J	40	0.57	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-42	9.4	J	40	0.49	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-43	2.3	J	40	0.50	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-44/47/65	54	J B	120	0.42	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-45	3.5	J	40	0.49	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-46	0.78	J q	40	0.52	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-48	9.2	J	40	0.45	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-49/69	26	J B	80	0.37	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-50/53	4.0	J	80	0.41	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-51	0.81	J	40	0.41	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-52	110	B	40	0.46	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-54	0.29	U	40	0.29	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-55	5.3	U	40	5.3	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-56	31	J	40	5.7	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-57	5.2	U	40	5.2	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-58	5.2	U	40	5.2	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-59/62/75	5.3	J	120	0.32	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-60	13	J q	40	5.5	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-61/70/74/76	180	B	160	5.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-63	4.9	U	40	4.9	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-64	20	J	40	0.31	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-66	75	B	40	5.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-67	4.8	U	40	4.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-68	4.6	U	40	4.6	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-72	5.0	U	40	5.0	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-73	0.35	U	40	0.35	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-77	62	G	6.2	6.2	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-78	5.9	U	40	5.9	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-79	11	J q	40	5.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-80	4.9	U	40	4.9	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-81	5.9	U G	5.9	5.9	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-82	35	J	40	8.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-83	9.8	J	40	9.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-84	44		40	7.6	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-85/116/117	50	J	120	5.6	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-86/87/97/108/119/125	170	J	240	5.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-88/91	18	J	80	6.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-89	7.2	U	40	7.2	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-90/101/113	240	B	120	5.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-92	38	J	40	6.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-93/100	6.4	U	80	6.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-107/124	15	J	80	5.3	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-94	6.8	U	40	6.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-95	100	B	40	6.3	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-96	0.65	J q	40	0.16	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-98/102	6.0	U	80	6.0	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-99	110		40	6.7	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1

Client Sample ID: FM-SS-1_SS

Date Collected: 11/20/13 12:30
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-2
Matrix: Solid
Percent Solids: 96.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-103	5.9	U	40	5.9	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-104	0.40	J q	40	0.19	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-105	170	G	5.7	5.7	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-106	7.2	J	40	5.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-110/115	350	B	80	5.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-109	24	J	40	4.9	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-111	4.7	U	40	4.7	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-112	4.5	U	40	4.5	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-114	13	G	5.6	5.6	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-118	350	B G	5.3	5.3	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-120	5.0	U	40	5.0	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-121	4.7	U	40	4.7	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-122	5.9	U	40	5.9	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-123	5.3	U G	5.3	5.3	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-126	12	G	6.3	6.3	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-127	5.8	U	40	5.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-128/166	84		80	2.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-129/138/163	460	B	120	2.5	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-130	30	J	40	3.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-131	4.8	J	40	3.0	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-132	100	B	40	2.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-133	6.6	J	40	2.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-134/143	15	J	80	2.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-135/151	81		80	2.5	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-136	23	J	40	1.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-137	17	J q	40	2.5	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-139/140	5.4	J	80	2.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-141	92		40	2.6	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-142	6.6	J	40	2.7	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-144	15	J	40	2.5	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-145	1.8	U	40	1.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-146	56		40	2.6	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-147/149	210	B	80	2.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-148	2.4	U	40	2.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-150	1.6	U	40	1.6	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-152	1.7	U	40	1.7	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-153/168	360	B	80	2.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-154	3.1	J	40	2.2	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-155	2.3	U	40	2.3	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-156/157	78		8.0	3.3	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-158	52		40	1.9	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-159	3.5	J	40	2.9	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-160	13	J	40	2.2	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-161	1.9	U	40	1.9	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-162	4.9	J	40	2.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-164	34	J	40	2.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-165	2.2	U	40	2.2	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-167	25		4.0	2.6	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-169	3.0	U	4.0	3.0	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1

Client Sample ID: FM-SS-1_SS

Date Collected: 11/20/13 12:30
Date Received: 11/22/13 09:45

Lab Sample ID: 680-96439-2
Matrix: Solid
Percent Solids: 96.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-170	150		40	1.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-171/173	53	J	80	1.3	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-172	30	J	40	1.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-174	130		40	1.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-175	8.7	J	40	0.37	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-176	11	J	40	0.25	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-177	62		40	1.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-178	24	J	40	0.39	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-179	34	J	40	0.27	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-180/193	420	B	80	1.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-181	4.2	J	40	1.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-182	4.1	J	40	0.35	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-183	70		40	1.0	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-184	5.7	J	40	0.28	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-185	36	J	40	1.2	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-186	1.2	J q	40	0.26	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-187	190		40	0.36	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-188	3.6	J	40	0.29	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-189	10		4.0	1.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-190	47		40	1.0	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-191	10	J	40	0.99	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-192	2.8	J	40	1.0	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-194	160		40	3.7	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-195	21	J	40	3.5	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-196	50		40	1.5	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-197	17	J	40	0.98	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-198/199	320		80	1.5	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-200	21	J	40	1.0	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-201	23	J	40	0.99	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-202	73		40	1.2	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-203	120		40	1.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-204	9.1	J	40	1.0	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-205	20	J	40	2.5	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-206	540		40	4.2	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-207	170		40	3.2	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-208	280		40	3.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
PCB-209	69000	E B	40	16	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
Total Monochlorobiphenyls	39	J B	400	1.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
Total Dichlorobiphenyls	1100	B	400	8.1	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
Total Trichlorobiphenyls	380	J B q	400	1.6	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
Total Tetrachlorobiphenyls	640	B q	400	2.9	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
Total Pentachlorobiphenyls	1800	B q	400	5.7	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
Total Hexachlorobiphenyls	1800	B q	400	2.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
Total Heptachlorobiphenyls	1300	B q	400	0.83	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
Total Octachlorobiphenyls	840		400	1.8	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
Total Nonachlorobiphenyls	990		400	3.7	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1
Polychlorinated biphenyls, Total	78000	B q	400	4.4	pg/g	☼	12/21/13 12:08	01/05/14 00:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*36*		*5 - 145*	*12/21/13 12:08*	*01/05/14 00:55*	*1*

Client Sample ID: FM-SS-1_SS

Lab Sample ID: 680-96439-2

Date Collected: 11/20/13 12:30
Date Received: 11/22/13 09:45

Matrix: Solid
Percent Solids: 96.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-15L	47		5 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-123L	73		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-114L	74		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-202L	72		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-3L	36		5 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-118L	73		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-126L	81		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-206L	85		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-169L	88		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-37L	52		5 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-19L	45		5 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-188L	62		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-54L	45		5 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-156L/157L	79		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-167L	77		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-209L	81		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-189L	75		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-105L	76		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-208L	80		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-1L	30		5 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-104L	48		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-81L	68		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-77L	68		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-205L	87		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-155L	51		10 - 145	12/21/13 12:08	01/05/14 00:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	45		5 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-111L	71		10 - 145	12/21/13 12:08	01/05/14 00:55	1
PCB-178L	74		10 - 145	12/21/13 12:08	01/05/14 00:55	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9100**		88	61	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Antimony	2.8	U	4.4	2.8	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Barium	**170**		22	1.1	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Beryllium	0.74	U	2.2	0.74	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Cadmium	0.44	U	2.2	0.44	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Calcium	**22000**		1100	58	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Chromium	**68**		4.4	1.3	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Cobalt	**9.1**	J	22	4.1	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Copper	**19**		11	3.2	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Iron	**13000**		44	13	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Lead	**18**		4.4	0.75	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Magnesium	**8500**		440	36	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Manganese	**500**		4.4	0.68	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Nickel	**18**		18	0.99	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Potassium	**2400**		2200	1500	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Selenium	1.3	U	6.6	1.3	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5
Silver	**1.2**	J	4.4	1.0	mg/Kg	☼	12/03/13 09:29	12/31/13 20:46	5