

Sample: Urunao-S-BKGD-1 (Top 1)



Sample: Urunao-S-BKGD-2 (Top 2)



Sample: Urunao-S-BKGD-3 (Top 3)



Sample: Urunao-S-BKGD-4 (Top 4)



Sample: Urunao-S-BKGD-5 (Top 5)



Sample: Urunao-S-BKGD-6 (Top 6)



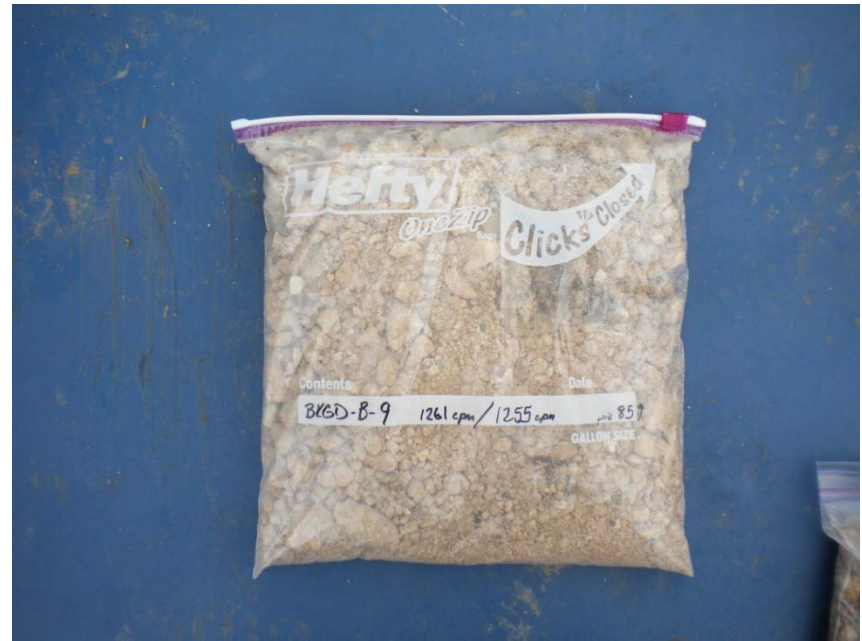
Sample: Urunao-S-BKGD-7



Sample: Urunao-S-BKGD-8



Sample: Urunao-S-BKGD-9



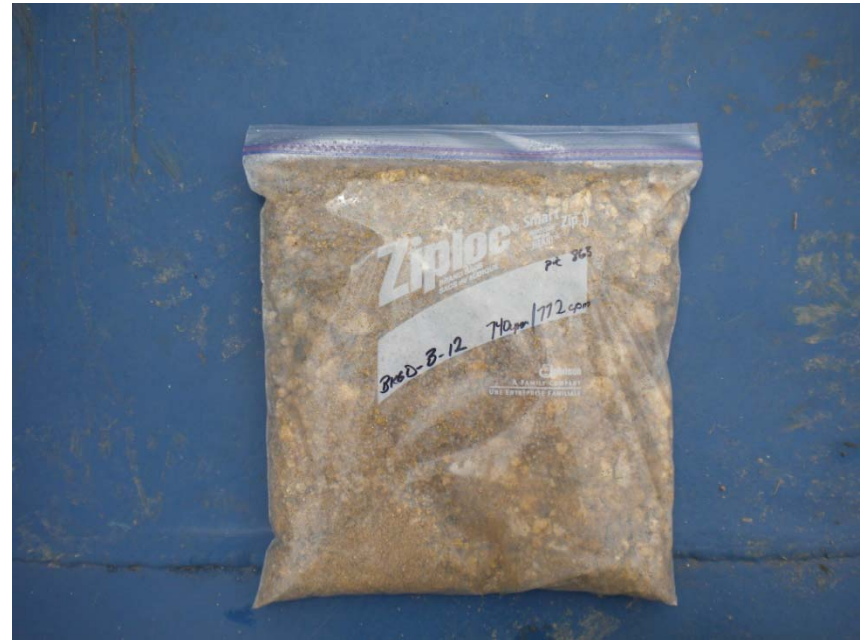
Sample: Urunao-S-BKGD-10



Sample: Urunao-S-BKGD-11



Sample: Urunao-S-BKGD-12



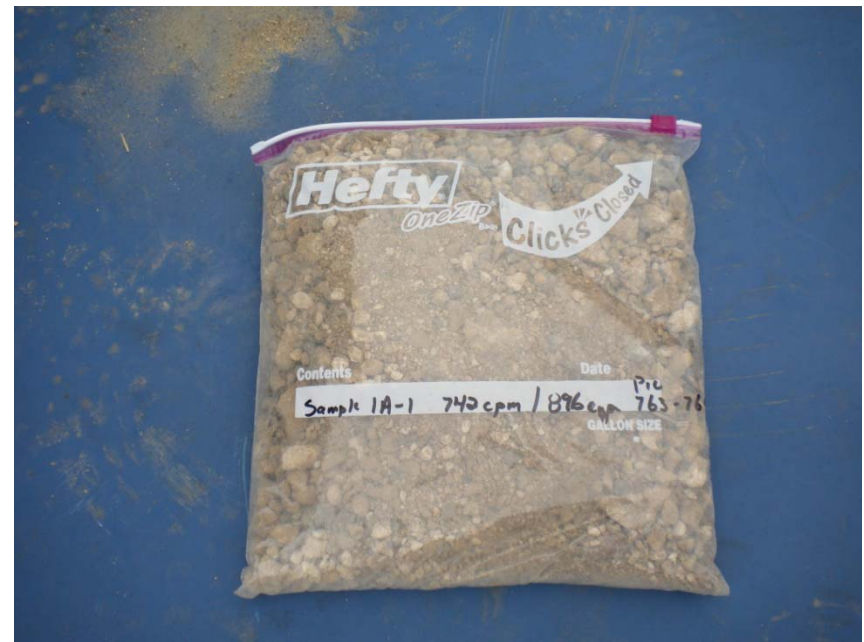
Sample: Urunao-S-BKGD-13



Samples: Urunao-S-Bkgd Group



Sample: Urunao-S-1A-1



Sample: Urunao-S-1A-2



Sample: Urunao-S-1A-3



Sample: Urunao-S-1A-4



Sample: Urunao-S-1A-5



Sample: Urunao-S-1A-6



Sample: Urunao-S-1A-7



Sample: Urunao-S-1A-8



Sample: Urunao-S-1A-9



Sample: Urunao-S-1A-10



Sample: Urunao-S-1A-11



Sample: Urunao-S-1A-12



Sample: Urunao-S-1A-13



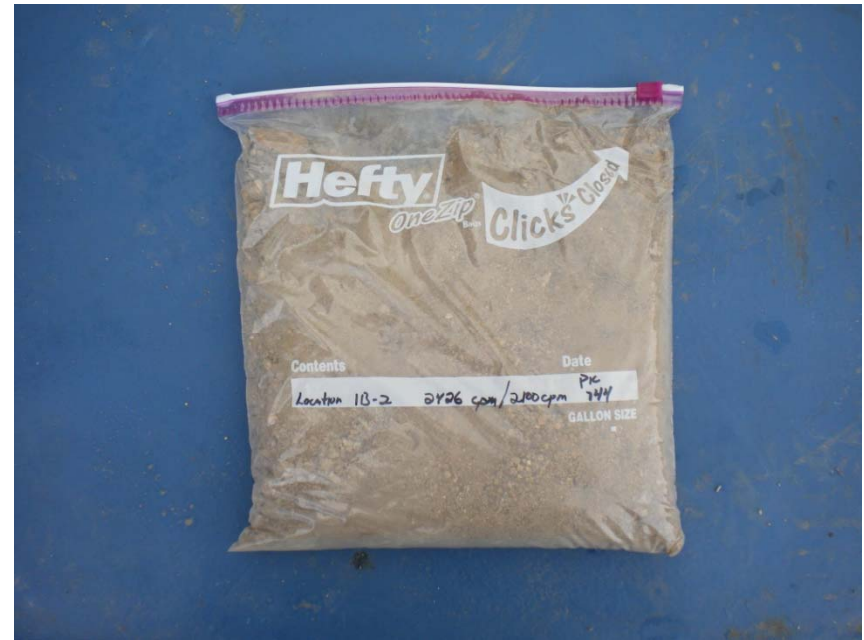
Samples: Urunao-S-1A Group



Sample: Urunao-S-1B-1



Sample: Urunao-S-1B-2



Sample: Urunao-S-1B-3



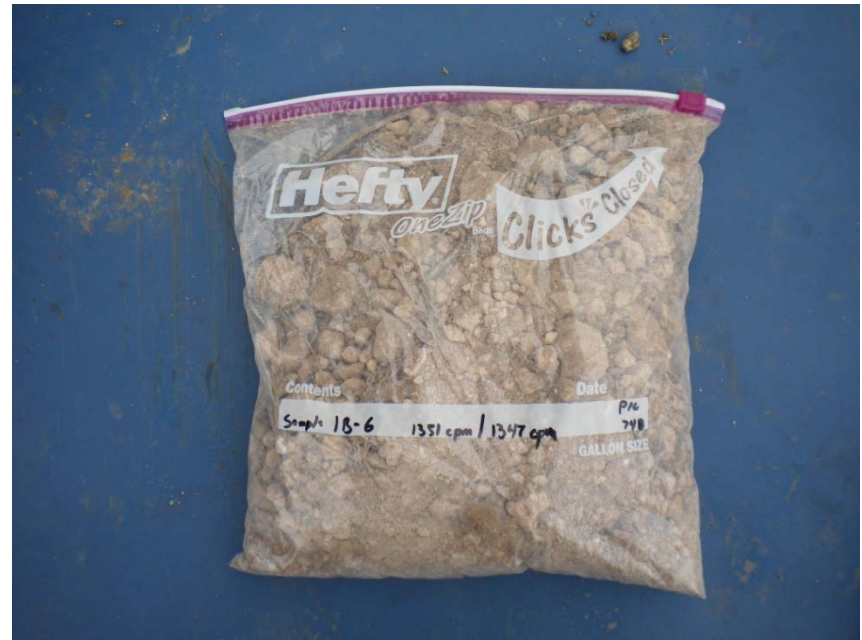
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Sample: Urunao-S-1B-5



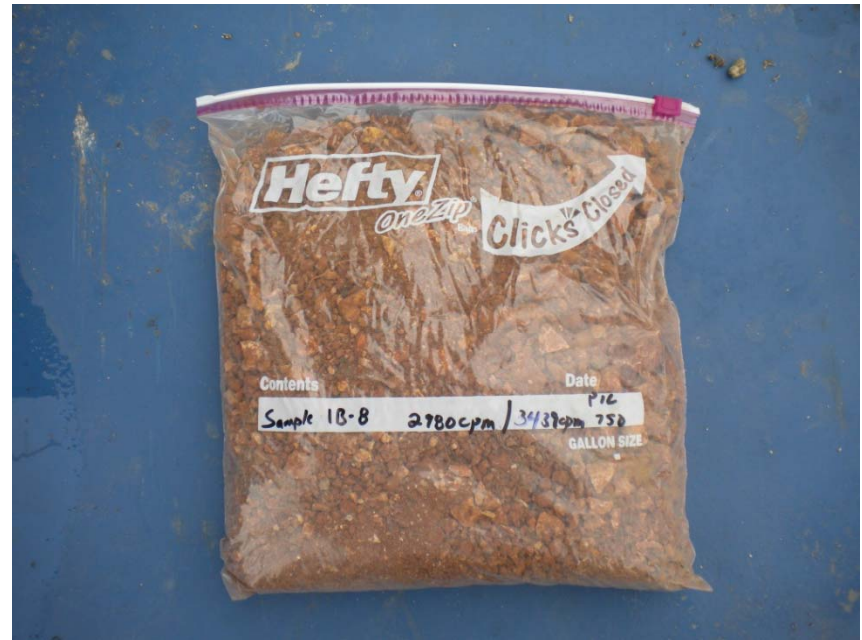
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Sample: Urunao-S-1B-7



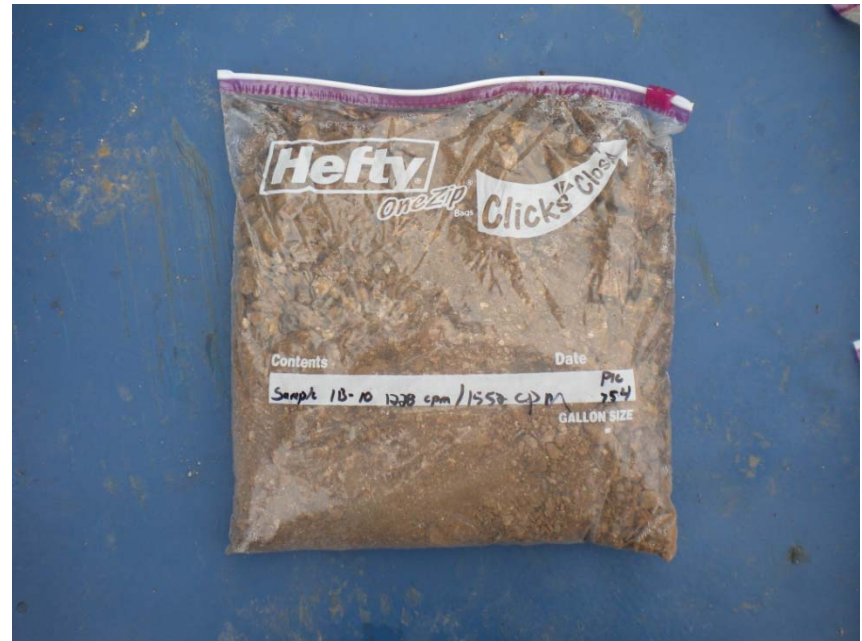
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Sample: Urunao-S-1B-9



Sample: Urunao-S-1B-10



Sample: Urunao-S-1B-11



Sample: Urunao-S-1B-12



Sample: Urunao-S-1B-13



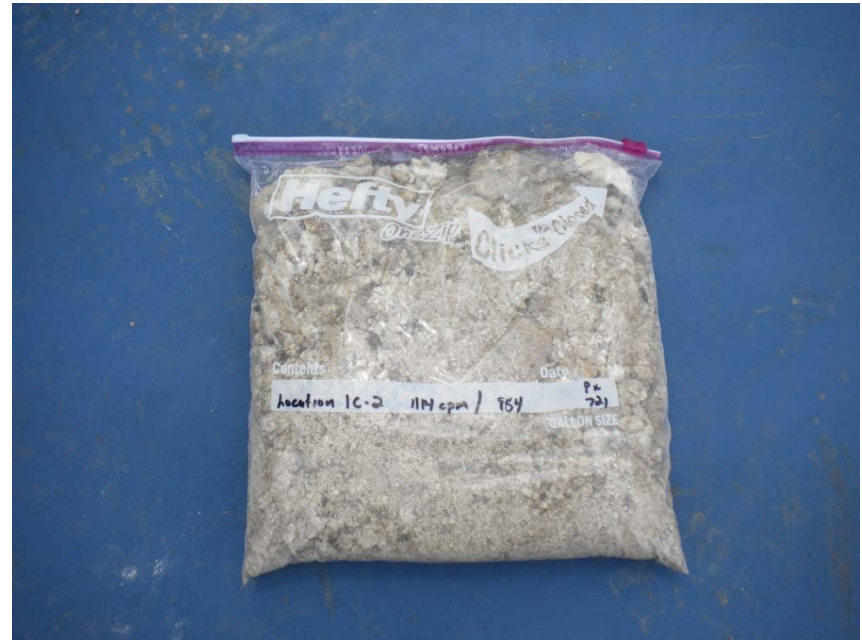
Samples: Urunao-S-1B Group



Sample: Urunao-S-1C-1



Sample: Urunao-S-1C-2



Sample: Urunao-S-1C-3



Sample: Urunao-S-1C-4



Sample: Urunao-S-1C-5



Sample: Urunao-S-1C-6



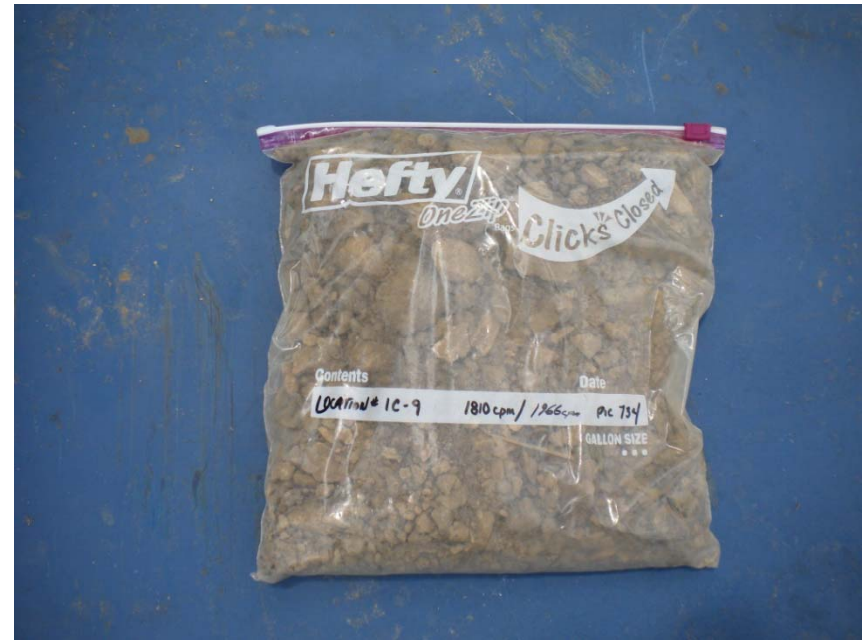
Sample: Urunao-S-1C-7



Sample: Urunao-S-1C-8



Sample: Urunao-S-1C-9



Sample: Urunao-S-1C-10



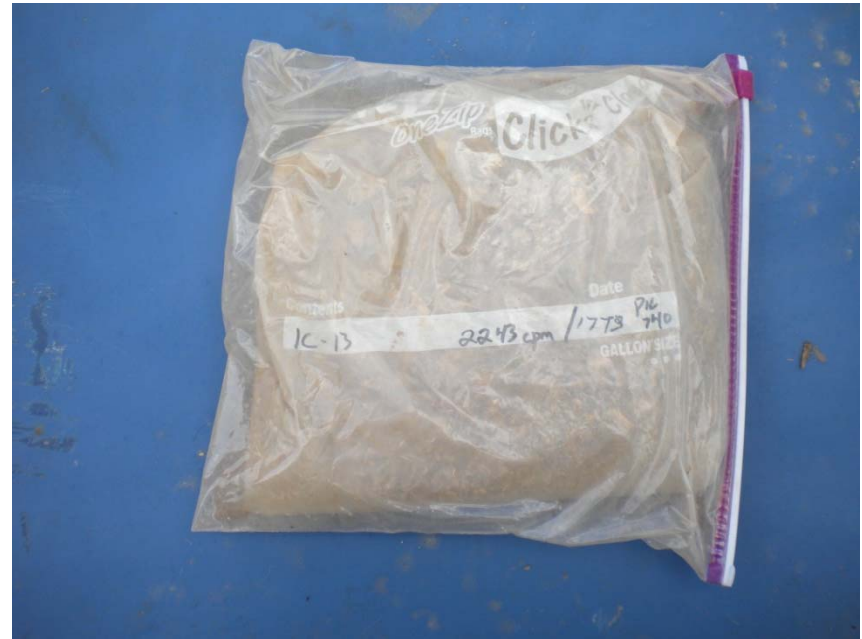
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Sample: Urunao-S-1C-12



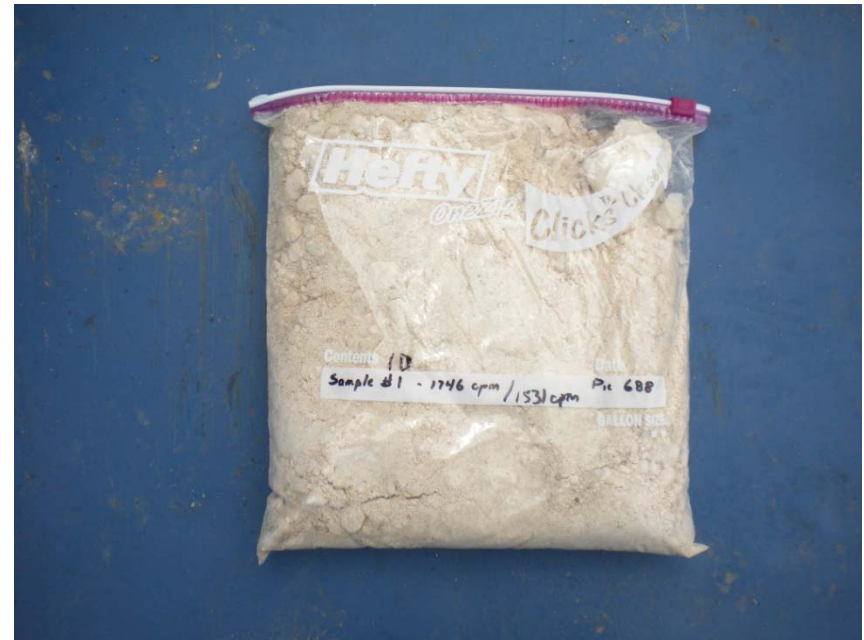
Sample: Urunao-S-1C-13



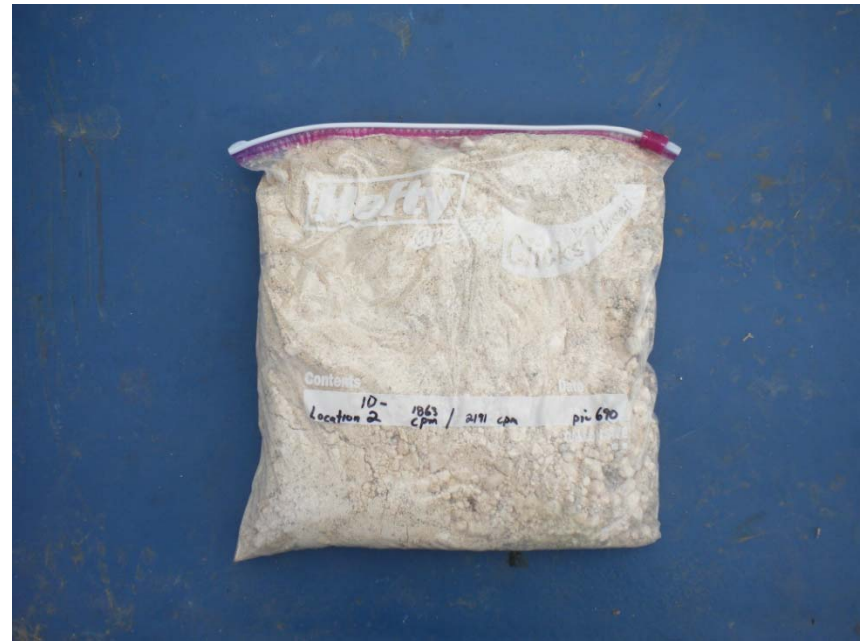
Samples: Urunao-S-1C Group



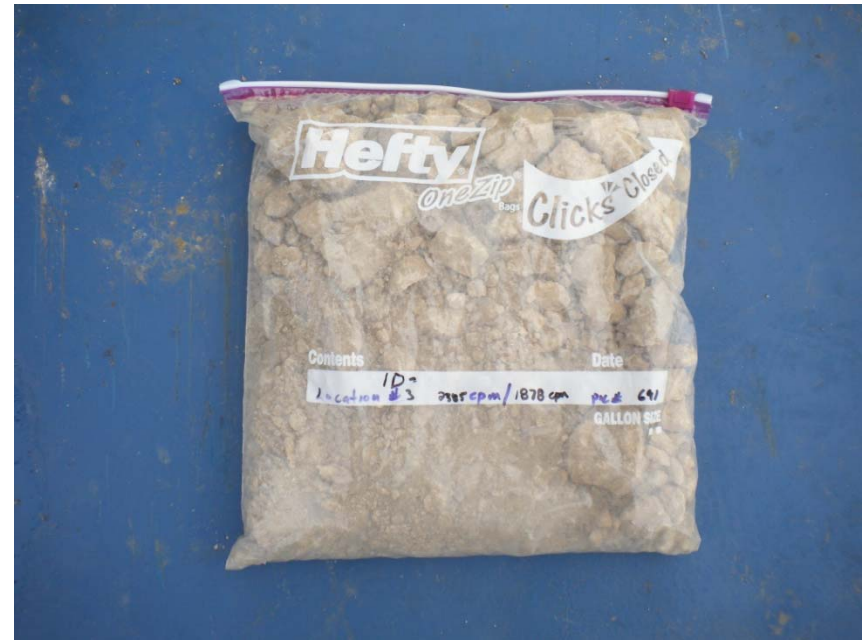
Sample: Urunao-S-1D-1



Sample: Urunao-S-1D-2



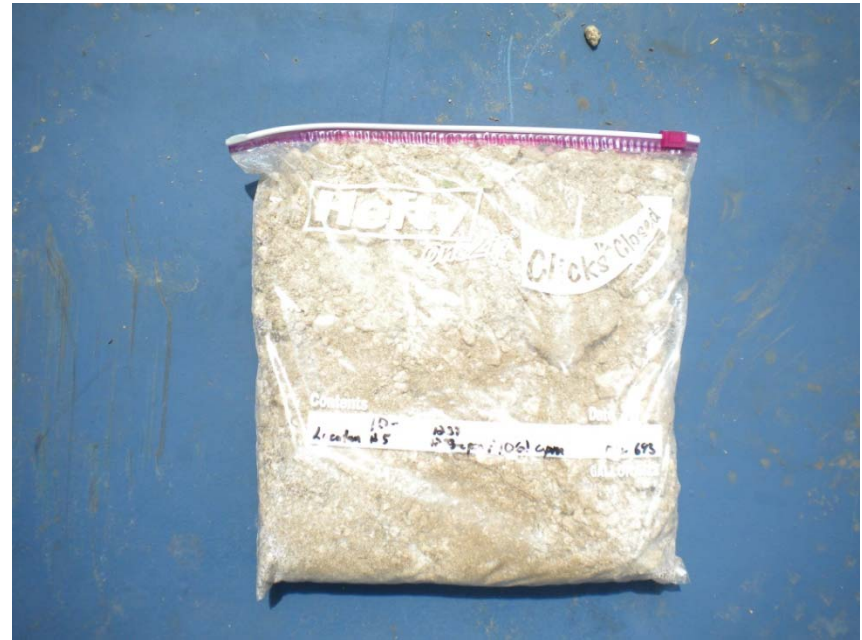
Sample: Urunao-S-1D-3



Sample: Urunao-S-1D-4



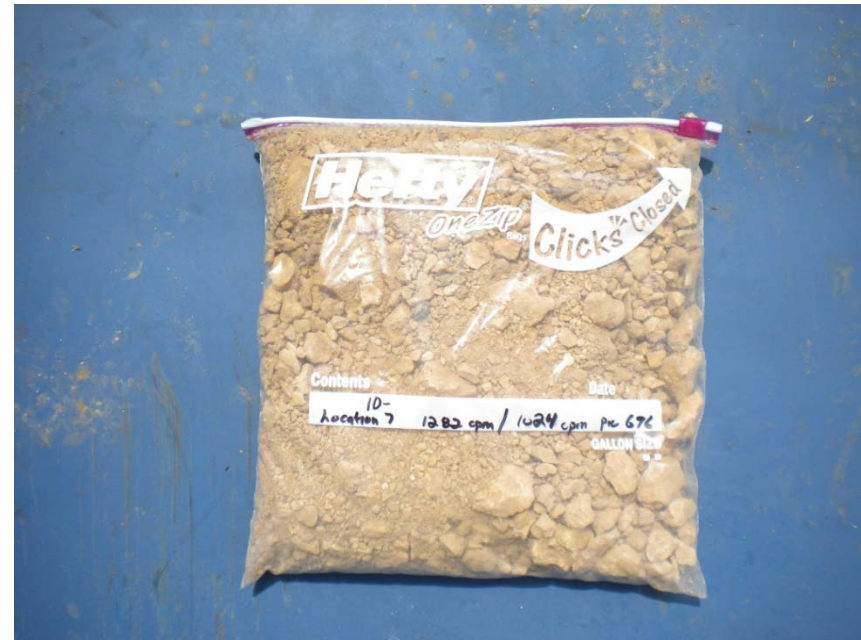
Sample: Urunao-S-1D-5



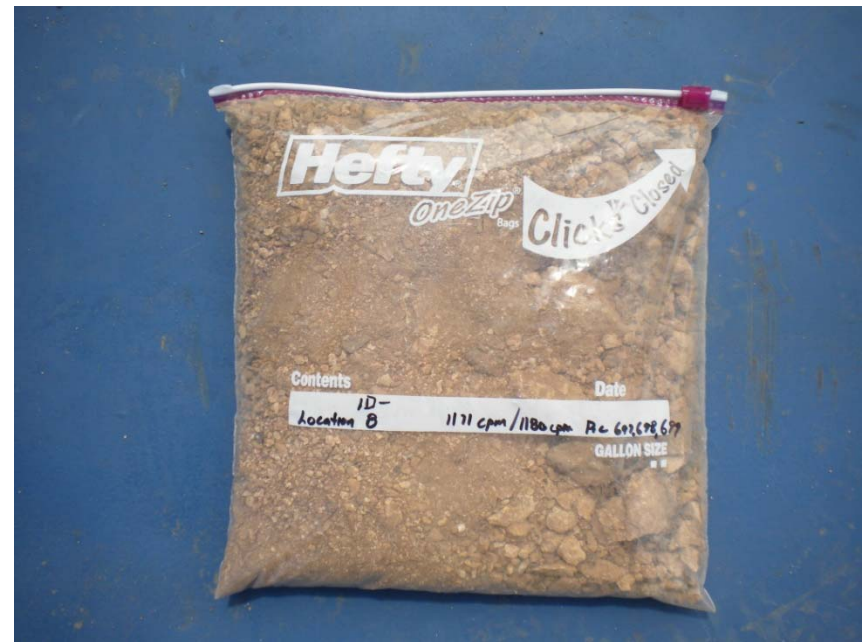
Sample: Urunao-S-1D-6



Sample: Urunao-S-1D-7



Sample: Urunao-S-1D-8



Sample: Urunao-S-1D-9



Sample: Urunao-S-1D-10



Sample: Urunao-S-1D-11



Sample: Urunao-S-1D-12



Sample: Urunao-S-1D-13



Samples: Urunao-S-1D Group



Sample: Urunao-S-2A-1



Sample: Urunao-S-2A-2



Sample: Urunao-S-2A-3



Sample: Urunao-S-2A-4



Sample: Urunao-S-2A-5



Sample: Urunao-S-2A-6



Sample: Urunao-S-2A-7



Sample: Urunao-S-2A-8



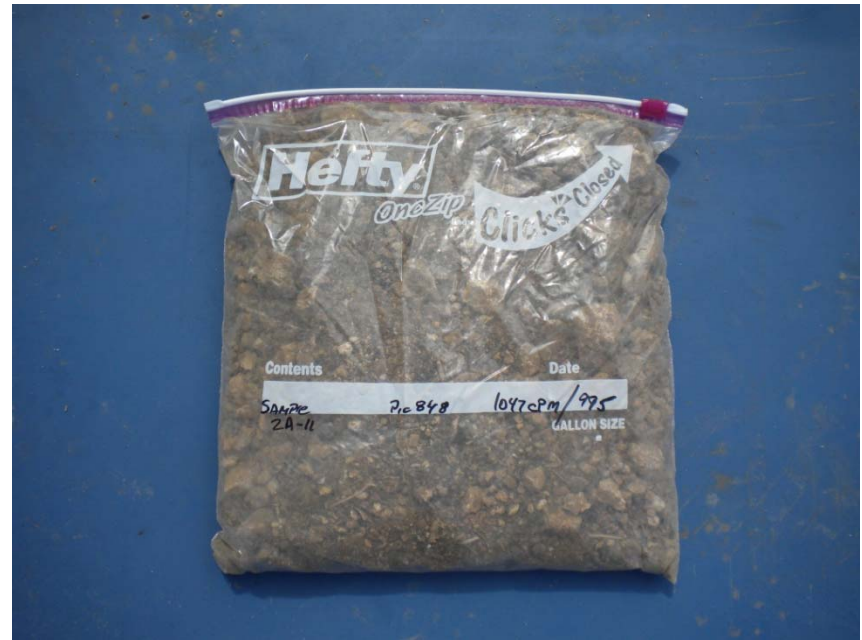
Sample: Urunao-S-2A-9



Sample: Urunao-S-2A-10



Sample: Urunao-S-2A-11



Sample: Urunao-S-2A-12



Sample: Urunao-S-2A-13



Samples: Urunao-S-2A Group



Sample: Urunao-S-2B-1



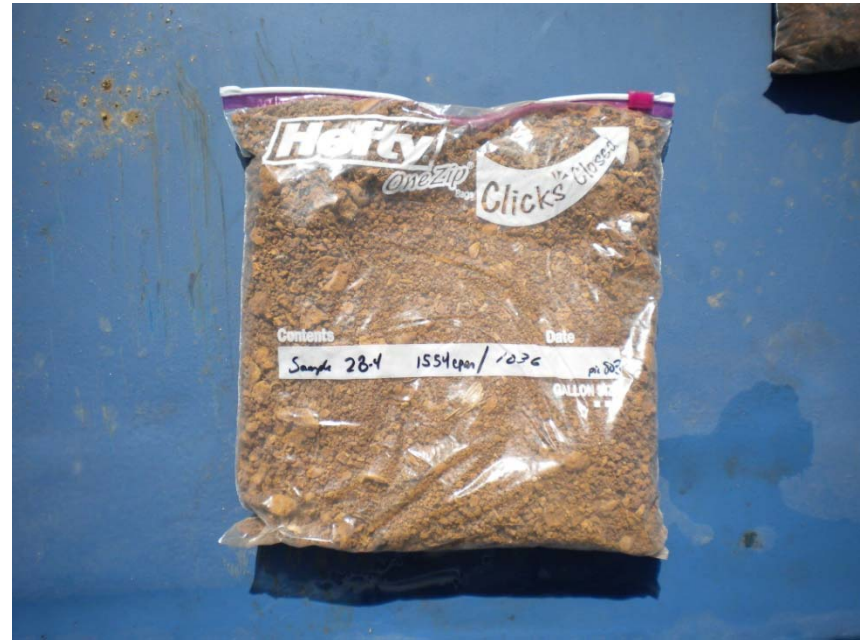
Sample: Urunao-S-2B-2



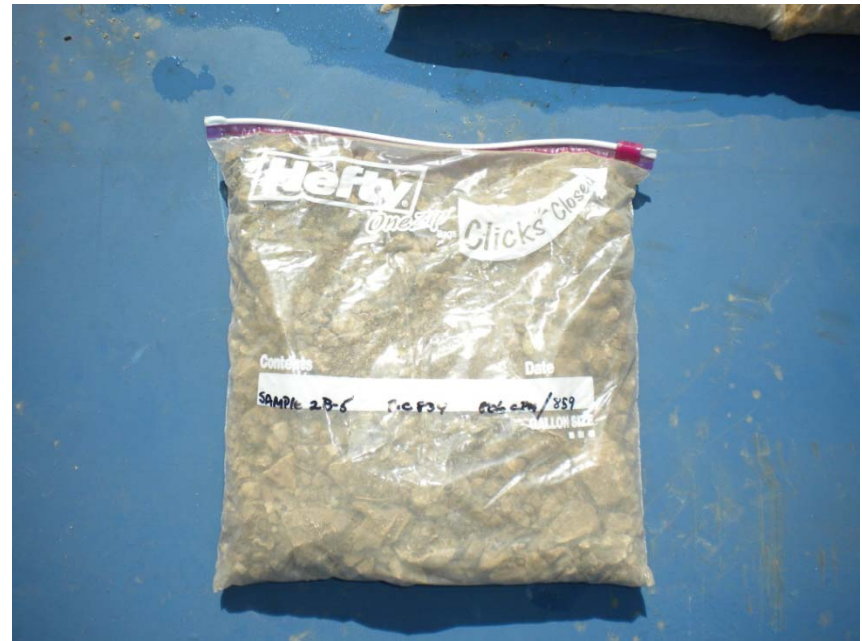
Sample: Urunao-S-2B-3



Sample: Urunao-S-2B-4



Sample: Urunao-S-2B-5



Sample: Urunao-S-2B-6



Sample: Urunao-S-2B-7



Sample: Urunao-S-2B-8



Sample: Urunao-S-2B-9



Sample: Urunao-S-2B-10



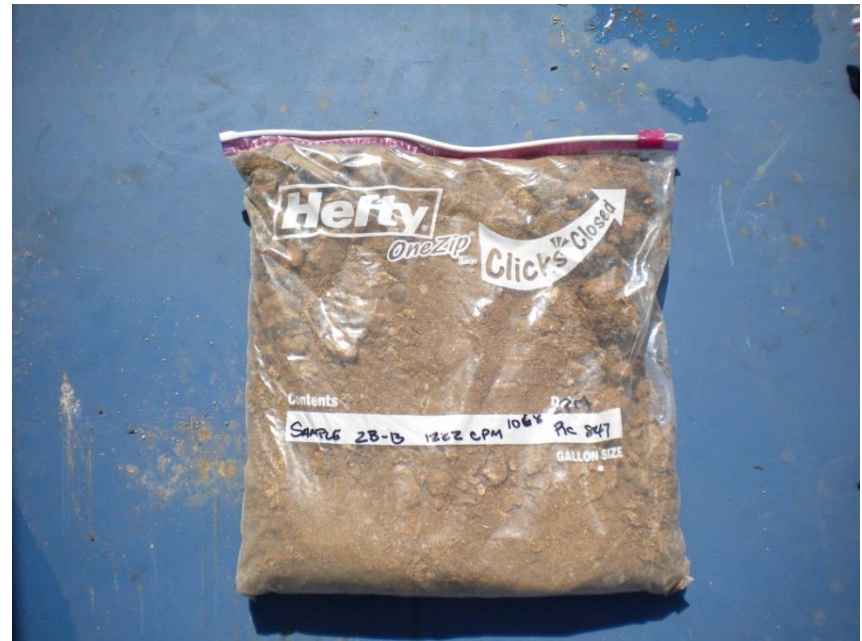
Sample: Urunao-S-2B-11



Sample: Urunao-S-2B-12



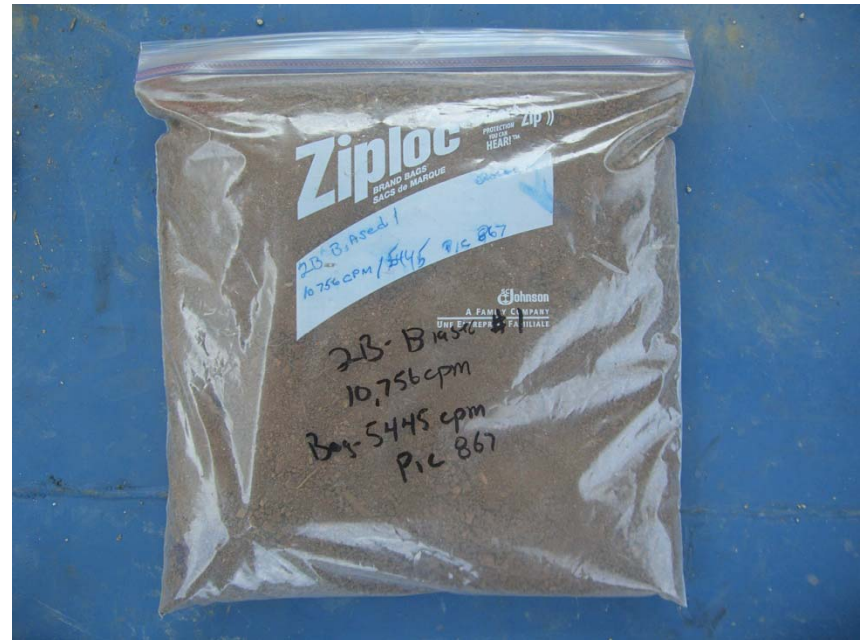
Sample: Urunao-S-2B-13



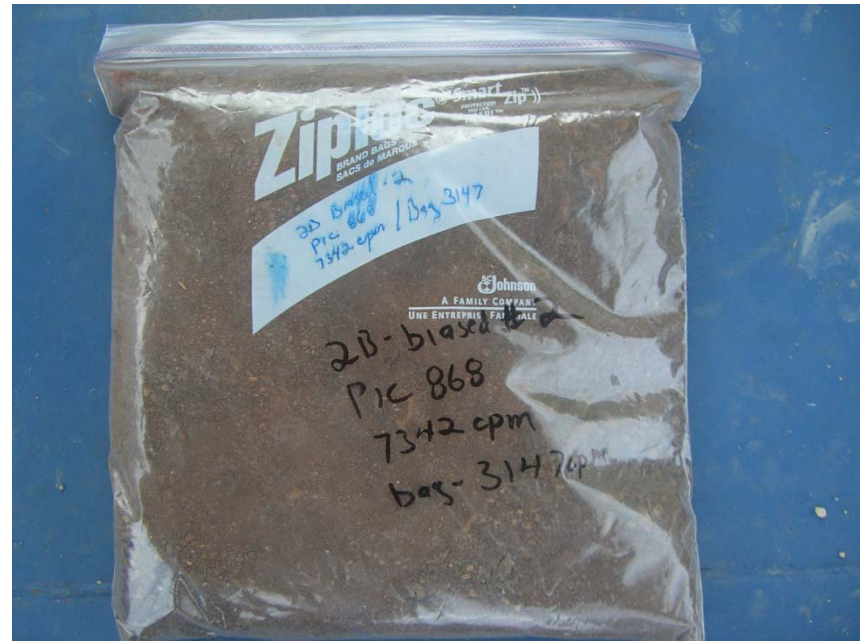
Samples: Urunao-S-2B Group



Sample: Urunao-S-2B-Biased-1



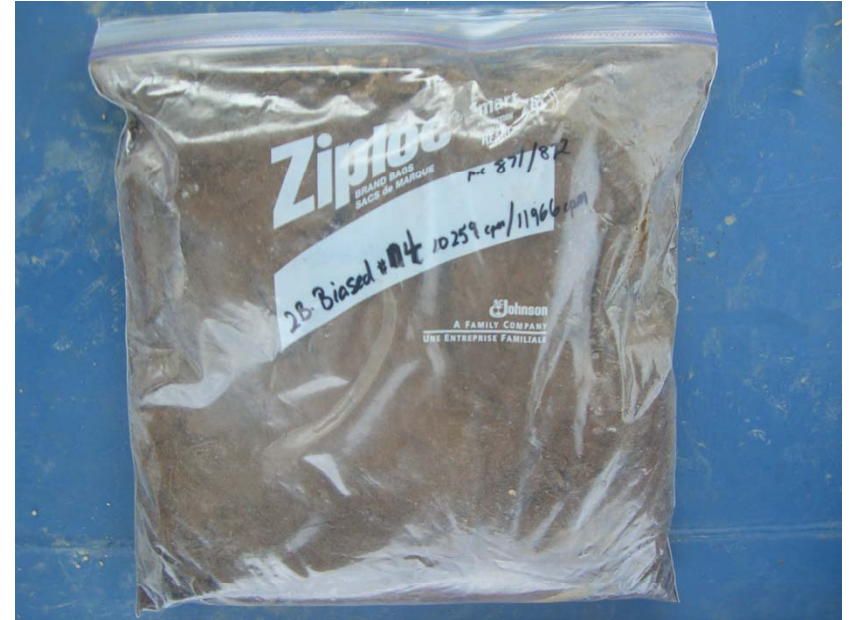
Sample: Urunao-S-2B-Biased-2



Sample: Urunao-S-2B-Biased-3



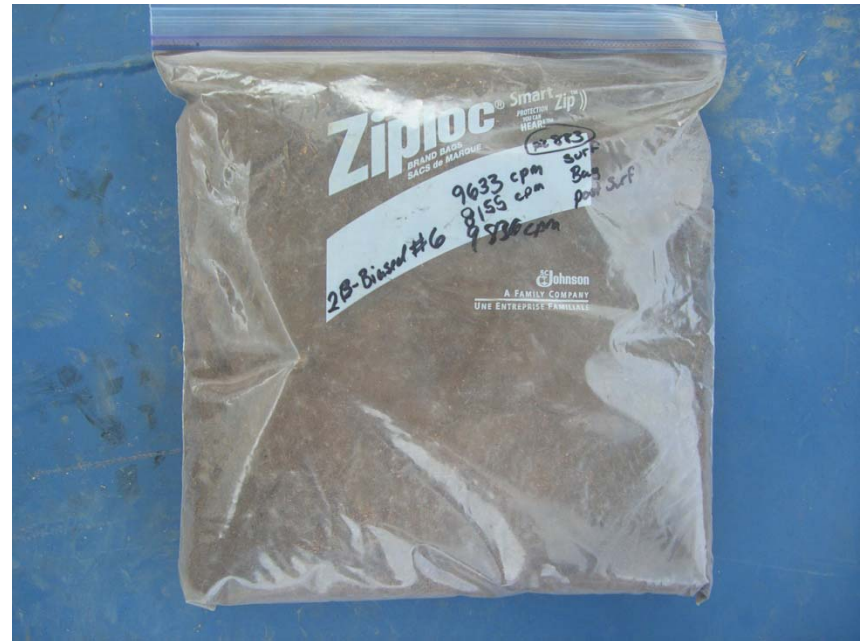
Sample: Urunao-S-2B-Biased-4



Sample: Urunao-S-2B-Biased-5



Sample: Urunao-S-2B-Biased-6



Sample: Urunao-S-2B-Biased-7



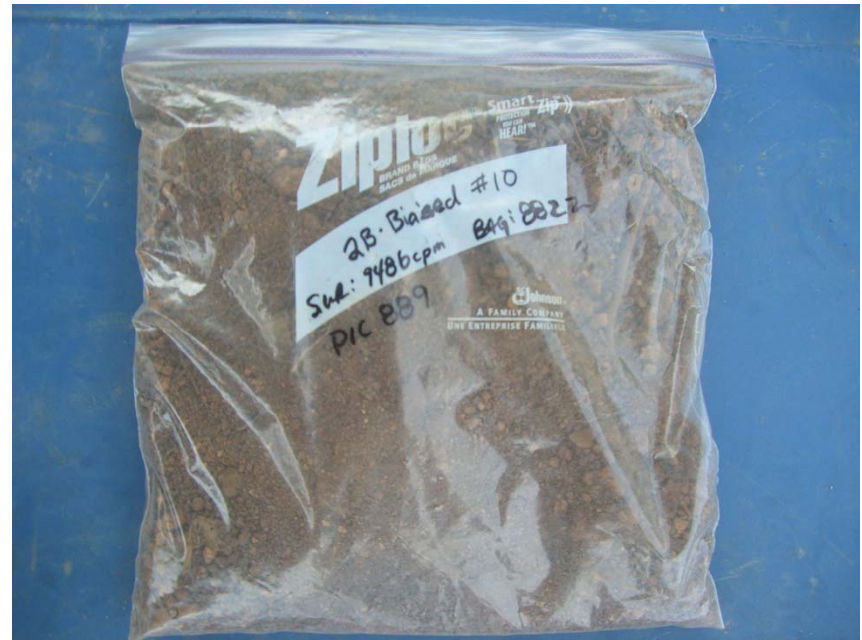
Sample: Urunao-S-2B-Biased-8



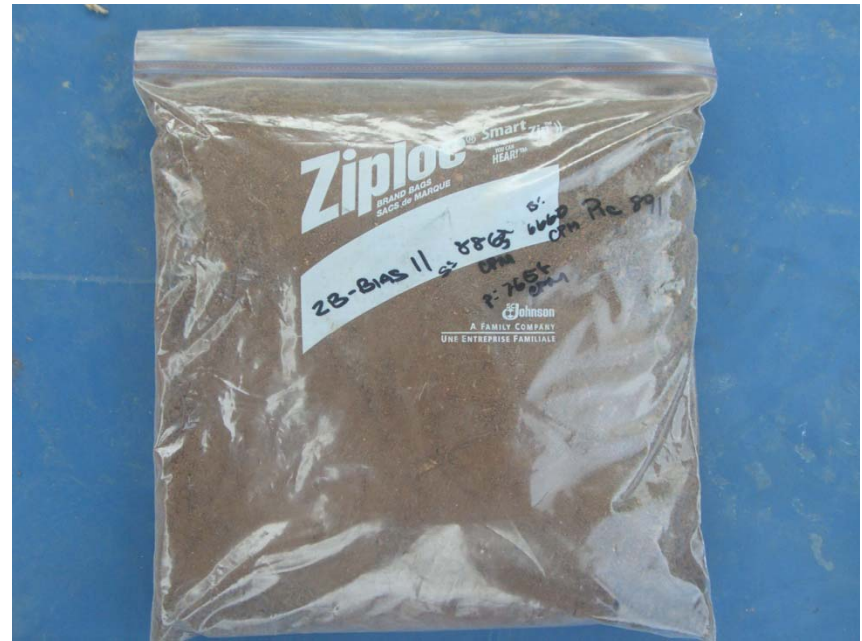
Sample: Urunao-S-2B-Biased-9



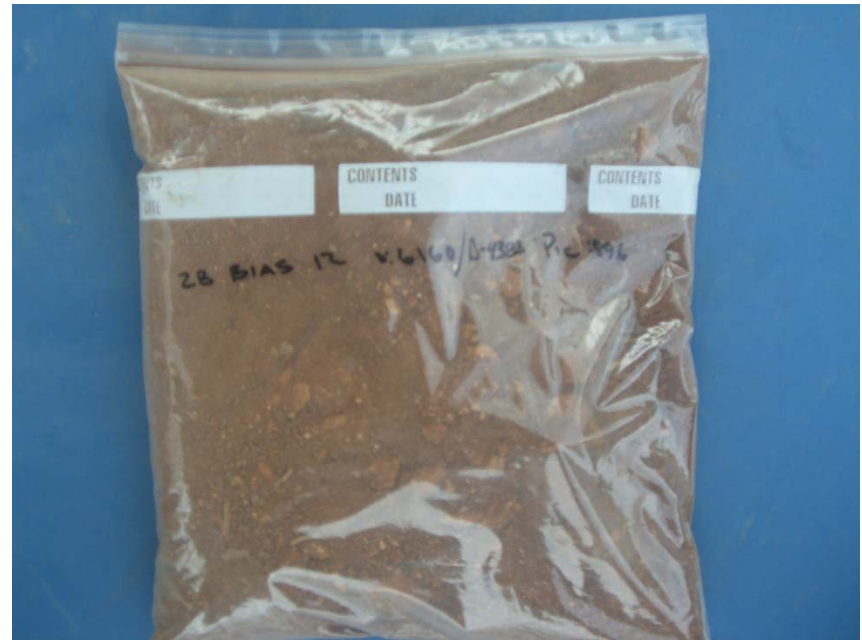
Sample: Urunao-S-2B-Biased-10



Sample: Urunao-S-2B-Biased-11



Sample: Urunao-S-2B-Biased-12



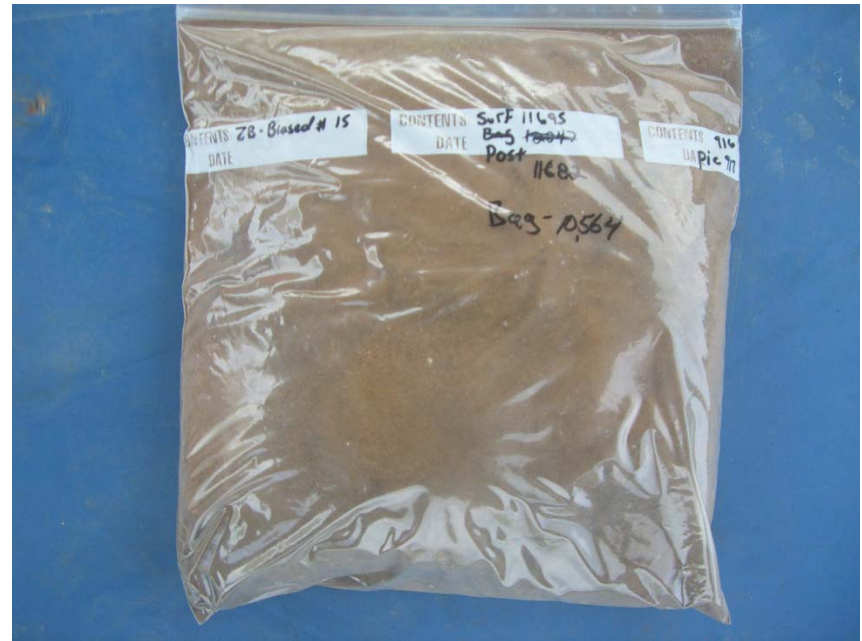
Sample: Urunao-S-2B-Biased-13



Sample: Urunao-S-2B-Biased-14



Sample: Urunao-S-2B-Biased-15



Sample: Urunao-S-2B-Biased



Attachment 12: Soil Sample Results

Urunao Dumpsite Survey Unit Background:

Soil Sample Location/Information and Resulting Radium-226 (pCi/g) Activity

Sample ID #	Date	Time	Longitude	Latitude	Surface Reading (cpm)	Container Reading (cpm)	Description	Lab Sample ID #	Ra-226 Activity (pCi/g)	Total Uncert. (pCi/g)	LCL (pCi/g)	UCL (pCi/g)	MDC (pCi/g)
Urunao-S-BKGD-1	24-May-10	06:54:54am	144.840622579	13.611250344	2116	1953	Top, overgrown clearing, mixed soil, mostly limestone	001	0.86	0.19	0.67	1.05	0.08
Urunao-S-BKGD-1 Duplicate								001X	0.61	0.16	0.45	0.77	0.19
Urunao-S-BKGD-2	24-May-10	07:46:36am	144.840798483	13.611115992	2720	2329	Top, overgrown clearing, mixed soil	002	2.09	0.27	1.82	2.36	0.17
Urunao-S-BKGD-3	24-May-10	07:50:47am	144.840954886	13.611205244	2991	2627	Top, clearing, mixed soil	003	2.21	0.29	1.92	2.50	0.16
Urunao-S-BKGD-4	24-May-10	07:57:31am	144.841035343	13.611304872	2543	2434	Top, overgrown clearing, mixed soil	004	3.91	0.42	3.49	4.33	0.12
Urunao-S-BKGD-5	24-May-10	08:06:20am	144.841469602	13.611316179	7453	7611	Top, overgrown clearing, reddish soil	005	28.50	2.00	26.50	30.50	0.50
Urunao-S-BKGD-6	24-May-10	08:14:11am	144.841921017	13.611284710	18386	17204	Top, clearing, bare spot of red clay	006	59.10	4.00	55.10	63.10	0.80
Urunao-S-BKGD-7	24-May-10	09:23:53am	144.838065207	13.611567935	1158	1120	Bottom, clearing, mixed soil	007	1.19	0.23	0.96	1.42	0.13
Urunao-S-BKGD-8	24-May-10	09:26:49am	144.837978277	13.611151781	1328	1239	Bottom, just off road, mixed soil	008	1.31	0.20	1.11	1.51	0.07
Urunao-S-BKGD-9	24-May-10	09:35:57am	144.838154164	13.611455072	1261	1255	Bottom, overgrown clearing, mixed soil	009	1.26	0.21	1.05	1.47	0.08
Urunao-S-BKGD-10	24-May-10	09:45:25am	144.837668405	13.610510673	2351	2527	Bottom, clearing just off road, mixed soil	010	7.93	0.74	7.19	8.67	0.21
Urunao-S-BKGD-11	24-May-10	09:53:26am	144.837335706	13.610265848	619	591	Bottom, overgrown rocky area, sample taken at closest location, mixed soil	011	0.61	0.17	0.44	0.78	0.12
Urunao-S-BKGD-12	24-May-10	10:01:15am	144.837150214	13.610137887	740	772	Bottom, clearing, on road, mixed soil, mostly limestone	012	0.81	0.15	0.66	0.96	0.05
Urunao-S-BKGD-13	24-May-10	10:10:01am	144.836956248	13.610107890	677	715	Bottom, sample site in forest on rockpile, sample taken in clearing, mixed soil	013	3.45	0.38	3.07	3.83	0.10

Note 1: All field measurements (cpm) were collected with Ludlum meter/model 2221, S/N 169220, probe model 44-10

Note 2: All lab sample lot numbers: F0F110574-XXX (XXX = lab sample ID #)

MDC = Minimum Detectable Concentration

LCL = Lower Confidence Level

UCL = Upper Confidence Level

Average:	8.7	pCi/g
Stdev	16.92	pCi/g
MIN	0.61	pCi/g
MAX	59.1	pCi/g

Attachment 12: Soil Sample Results

Urunao Dumpsite: Survey Unit 1A

Soil Sample Location/Information and Resulting Radium-226 (pCi/g) Activity

Sample ID #	Date	Time	Longitude	Latitude	Surface Reading (cpm)	Container Reading (cpm)	Description	Lab Sample ID #	Ra-226 Activity (pCi/g)	Total Uncert. (pCi/g)	LCL (pCi/g)	UCL (pCi/g)	MDC (pCi/g)
Urunao-S-1A-1	21-May-10	10:49:36am	144.838513417	13.613090932	742	896	Sample location on huge rock pile on lower flat area, offset to soil beside rocks	001	2.11	0.25	1.86	2.36	0.12
Uruno-S1A-1 Duplicate								001X	2.38	0.28	2.1	2.66	0.13
Urunao-S-1A-2	21-May-10	10:56:23am	144.838602102	13.613424276	998	1033	Lower flat, mixed soil	002	6.8	0.67	6.13	7.47	0.22
Urunao-S-1A-3	21-May-10	11:04:26am	144.838597299	13.613573486	1362	1557	Sample at edge of rockpile, mixed soil	003	10.6	0.82	9.78	11.42	0.20
Urunao-S-1A-4	21-May-10	11:13:48am	144.838912770	13.613579925	1486	1455	Slopeside beneath rockpile, mixed soil	004	6.23	0.60	5.63	6.83	0.21
Urunao-S-1A-5	21-May-10	11:18:26am	144.838973369	13.613670767	923	1265	Slopeside on limestone outcropping, mixed soil	005	10.6	0.81	9.79	11.41	0.22
Urunao-S-1A-6	21-May-10	11:32:13am	144.839071725	13.613322660	883	862	Mixed soil on limestone rockpile	006	3.24	0.42	2.82	3.66	0.19
Urunao-S-1A-7	21-May-10	11:43:42am	144.839004557	13.613305391	2923	2350	Offset from rockpile, mixed soil	007	18.6	1.4	17.2	20	0.4
Urunao-S-1A-8	21-May-10	11:48:52am	144.838951647	13.613292322	1839	1936	Offset from rockpile, mixed soil	008	22.6	1.7	20.9	24.3	0.4
Urunao-S-1A-9	21-May-10	12:01:58pm	144.839066303	13.612994946	2854	2190	Shaw garden, red clay	009	0.9	0.079	0.821	0.979	0.030
Urunao-S-1A-10	21-May-10	12:08:00pm	144.839167747	13.613055636	892	846	Mixed soil on limestone outcropping	010	3.9	0.44	3.46	4.34	0.16
Urunao-S-1A-11	21-May-10	12:18:16pm	144.839301800	13.613368116	819	1032	Offset at base of cliff, mixed soil	011	1.86	0.24	1.62	2.1	0.09
Urunao-S-1A-12	21-May-10	12:40:33pm	144.839444188	13.612924669	616	675	Sample site inaccessible, offset below cliff, mixed soil	012	1.91	0.28	1.63	2.19	0.12
Urunao-S-1A-13	21-May-10	12:51:48pm	144.838888581	13.613033847	1332	889	Sample site on rockpile, offset to limestone soil beside	013	0.85	0.16	0.69	1.01	0.16

Note 1: All field measurements (cpm) were collected with Ludlum meter/model 2221, S/N 169220, probe model 44-10

Note 2: All lab sample lot numbers: FOF110574-XXX (XXX = lab sample ID #)

MDC = Minimum Detectable Concentration

LCL = Lower Confidence Level

UCL = Upper Confidence Level

Average:	6.9	pCi/g
Stdev	5.19	pCi/g
MIN	0.85	pCi/g
MAX	22.6	pCi/g

Attachment 12: Soil Sample Results

Urunao Dumpsite Survey Unit 1B:

Soil Sample Location/Information and Resulting Radium-226 (pCi/g) Activity

Sample ID #	Date	Time	Longitude	Latitude	Surface Reading (cpm)	Container Reading (cpm)	Description	Lab Sample ID #	Ra-226 Activity (pCi/g)	Total Uncert. (pCi/g)	LCL (pCi/g)	UCL (pCi/g)	MDC (pCi/g)
Urunao-S-1B-1	21-May-10	06:40:37am	144.841954657	13.616949181	2034	1890	Top of ridge, mixed soil	014	1.03	0.19	0.84	1.22	0.10
Urunao-S-1B-2	21-May-10	07:13:07am	144.840890710	13.612998827	2426	2100	Top of ridge, mixed soil	015	1.82	0.25	1.57	2.07	0.14
Urunao-S-1B-3	21-May-10	07:22:43am	144.840608366	13.613502379	1155	1437	Top of ridge, outside stone wall, mixed soil on outcropping	016	1.76	0.28	1.48	2.04	0.16
Urunao-S-1B-4	21-May-10	07:29:41am	144.840592714	13.613582492	906	1156	Top of ridge, outside stone wall, mixed soil	017	5.79	0.54	5.25	6.33	0.20
Urunao-S-1B-5	21-May-10	07:36:00am	144.840605390	13.613671415	942	1109	Top of ridge, outside stone wall, limestone outcropping	018	2.47	0.34	2.13	2.81	0.16
Urunao-S-1B-6	21-May-10	07:42:34am	144.840679347	13.613801625	1351	1347	Top of ridge, just inside rock wall, mostly limestone	019	1.46	0.22	1.24	1.68	0.14
Urunao-S-1B-7	21-May-10	08:00:34am	144.840450772	13.613200827	1323	1396	Slopeside, mixed soil	020	4.81	0.53	4.28	5.34	0.19
Urunao-S-1B-8	21-May-10	08:23:08am	144.840288872	13.613624023	2980	3439	Slopeside, red clay on limestone outcropping	021	12.8	1.1	11.7	13.9	0.3
Urunao-S-1B-8 duplicate								021X	12.3	0.97	11.33	13.27	0.19
Urunao-S-1B-9	21-May-10	08:44:46am	144.839979404	13.612992611	1386	1642	Slopeside, base of limestone outcropping, reddish soil	022	3.2	0.35	2.85	3.55	0.13
Urunao-S-1B-10	21-May-10	08:51:37am	144.839964612	13.613205910	1228	1552	Slopeside, overgrown area, reddish soil	023	2.23	0.27	1.96	2.5	0.14
Urunao-S-1B-11	21-May-10	09:01:41am	144.839985460	13.613465677	8168	5056	Slopeside, red clay	024	63.3	4.2	59.1	67.5	0.8
Urunao-S-1B-12	21-May-10	09:13:47am	144.839937658	13.613765478	1051	1116	Slopeside, limestone outcropping, mixed soil	025	6.07	0.66	5.41	6.73	0.31
Urunao-S-1B-13	21-May-10	09:49:00am	144.839785965	13.613380485	1590	1501	Slopeside, just beyond overgrown rock pile, mixed soil	026	8.15	0.70	7.45	8.85	0.17

Note 1: All field measurements (cpm) were collected with Ludlum meter/model 2221, S/N 169220, probe model 44-10

Note 2: All lab sample lot numbers: FOF110574-XXX (XXX = lab sample ID #)

MDC = Minimum Detectable Concentration

LCL = Lower Confidence Level

UCL = Upper Confidence Level

Average:	8.8	pCi/g
Stdev	16.70	pCi/g
MIN	1.03	pCi/g
MAX	63.3	pCi/g

Attachment 12: Soil Sample Results

Urunao Dumpsite Survey Unit 1C:

Soil Sample Location/Information and Resulting Radium-226 (pCi/g) Activity

Sample ID #	Date	Time	Longitude	Latitude	Surface Reading (cpm)	Container Reading (cpm)	Description	Lab Sample ID #	Ra-226 Activity (pCi/g)	Total Uncert. (pCi/g)	LCL (pCi/g)	UCL (pCi/g)	MDC (pCi/g)
Urunao-S-1C-1	20-May-10	01:31:27pm	144.838423966	13.612659415	3257	3148	Flat area, mixed soil (limestone, red clay)	001	16.6	1.3	15.3	17.9	0.4
Urunao-S-1C-1 Duplicate								001X	16.7	1.3	15.4	18	0.4
Urunao-S-1C-2	20-May-10	01:40:31pm	144.838778450	13.612795941	1114	954	Flat area, limestone	002	1.68	0.29	1.39	1.97	0.16
Urunao-S-1C-3	20-May-10	01:46:20pm	144.838848355	13.612959927	1471	1353	Base of hill, mixed soil (limestone, silty-sand)	003	5.57	0.50	5.07	6.07	0.13
Urunao-S-1C-4	20-May-10	02:03:11pm	144.838780572	13.612349825	2183	1463	Slopeside offset due to rock outcropping, red clay	004	28.1	2.0	26.1	30.1	0.5
Urunao-S-1C-5	20-May-10	02:13:36pm	144.838631083	13.612021454	6221	2336	Flat area, covered with dead grass, red clay underneath	005	34.3	2.5	31.8	36.8	0.6
Urunao-S-1C-6	20-May-10	02:36:34pm	144.839109643	13.612124216	1422	1263	Slopeside, very rocky	006	1.15	0.17	0.98	1.32	0.04
Urunao-S-1C-7	20-May-10	02:48:25pm	144.839133237	13.612259366	1329	1077	Slopeside, rocky, probe perpendicular to slope	007	2.07	0.28	1.79	2.35	0.11
Urunao-S-1C-8	20-May-10	03:01:44pm	144.839263677	13.612847681	1692	1530	Slopeside, rocky and overgrown	008	2.34	0.30	2.04	2.64	0.16
Urunao-S-1C-9	20-May-10	03:14:31pm	144.839464153	13.612623278	1810	1966	Slopeside, soil on limestone outcropping	009	2.2	0.27	1.93	2.47	0.09
Urunao-S-1C-10	20-May-10	03:30:36pm	144.839437258	13.612300926	1702	1444	Steep slope, tailings	010	0.317	0.036	0.281	0.353	0.008
Urunao-S-1C-11	20-May-10	03:44:36pm	144.839425790	13.612182453	1417	1149	Steep rock pile	011	1.16	0.20	0.96	1.36	0.18
Urunao-S-1C-12	20-May-10	04:01:23pm	144.839478771	13.612155732	2048	1665	Steep, rocky slope	012	2.87	0.34	2.53	3.21	0.14
Urunao-S-1C-13	20-May-10	04:09:05pm	144.839470996	13.612130207	2243	1773	Steep slope, loose soil on deer trail	013	4.53	0.46	4.07	4.99	0.20

Note 1: All field measurements (cpm) were collected with Ludlum meter/model 2221, S/N 169220, probe model 44-10

Note 2: All lab sample lot numbers: F0F110574-XXX (XXX = lab sample ID #)

MDC = Minimum Detectable Concentration

LCL = Lower Confidence Level

UCL = Upper Confidence Level

Average:	7.9	pCi/g
Stdev	11.21	pCi/g
MIN	0.317	pCi/g
MAX	34.3	pCi/g

Attachment 12: Soil Sample Results

Urunao Dumpsite Survey Unit 1D:

Soil Sample Location/Information and Resulting Radium-226 (pCi/g) Activity

Sample ID #	Date	Time	Longitude	Latitude	Surface Reading (cpm)	Container Reading (cpm)	Description	Lab Sample ID #	Ra-226 Activity (pCi/g)	Total Uncert. (pCi/g)	LCL (pCi/g)	UCL (pCi/g)	MDC (pCi/g)
Urunao-S-1D-1	20-May-10	07:29:44am	144.840897062	13.612014037	1746	1531	Not recorded	014	0.59	0.15	0.44	0.74	0.11
Urunao-S-1D-2	20-May-10	07:43:17am	144.840902359	13.612403163	1863	2191	Not recorded	015	2.07	0.29	1.78	2.36	0.12
Urunao-S-1D-3	20-May-10	07:53:07am	144.840880050	13.612917033	2385	1878	Not recorded	016	1.4	0.21	1.19	1.61	0.18
Urunao-S-1D-4	20-May-10	08:04:08am	144.840643537	13.612397725	2702	1881	Not recorded	017	3.5	0.42	3.08	3.92	0.16
Urunao-S-1D-5	20-May-10	08:15:38am	144.840581828	13.612046751	1237	1061	Not recorded	018	0.7	0.16	0.54	0.86	0.1
Urunao-S-1D-6	20-May-10	08:32:32am	144.840408783	13.612216436	2224	2034	Not recorded	019	14.2	1.2	13	15.4	0.4
Urunao-S-1D-7	20-May-10	08:53:35am	144.840040503	13.612168014	1282	1024	Not recorded	020	1.33	0.20	1.13	1.53	0.06
Urunao-S-1D-8	20-May-10	09:04:59am	144.840270395	13.612928595	1171	1180	Not recorded	021	3.22	0.37	2.85	3.59	0.13
Urunao-S-1D-9	20-May-10	09:19:58am	144.839939215	13.612700734	1357	1392	Not recorded	022	2.35	0.28	2.07	2.63	0.14
Urunao-S-1D-10	20-May-10	09:28:15am	144.839943808	13.612633720	1932	1395	Not recorded	023	3.49	0.39	3.1	3.88	0.15
Urunao-S-1D-11	20-May-10	09:37:37am	144.839861127	13.612250723	1191	1106	Not recorded	024	4.46	0.46	4	4.92	0.21
Urunao-S-1D-12	20-May-10	09:51:46am	144.839760184	13.612060118	1066	1018	Not recorded	025	2.34	0.33	2.01	2.67	0.18
Urunao-S-1D-13	20-May-10	10:07:52am	144.839723909	13.612861855	1245	966	Not recorded	026	1.71	0.28	1.43	1.99	0.16

Note 1: All field measurements (cpm) were collected with Ludlum meter/model 2221, S/N 169220, probe model 44-10

Note 2: All lab sample lot numbers: F0F110574-XXX (XXX = lab sample ID #)

MDC = Minimum Detectable Concentration

LCL = Lower Confidence Level

UCL = Upper Confidence Level

Average:	3.2	pCi/g
Stdev	3.51	pCi/g
MIN	0.59	pCi/g
MAX	14.2	pCi/g

Attachment 12: Soil Sample Results

Urunao Dumpsite Survey Unit 2A:

Soil Sample Location/Information and Resulting Radium-226 (pCi/g) Activity

Sample ID #	Date	Time	Longitude	Latitude	Surface Reading (cpm)	Container Reading (cpm)	Description	Lab Sample ID #	Ra-226 Activity (pCi/g)	Total Uncert. (pCi/g)	LCL (pCi/g)	UCL (pCi/g)	MDC (pCi/g)
Urunao-S-2A-1	22-May-10	07:19:18am	144.83836151	13.61548039	2297	1968	Flat area, overgrown, mixed soil	001	13.7	1.0	12.7	14.7	0.3
Urunao-S-2A-1 duplicate								001X	14	1.1	12.9	15.1	0.3
Urunao-S-2A-2	22-May-10	07:27:07am	144.83851768	13.61559130	1830	1750	Sample site on rockpile, offset to nearby flat area, mixed soil	002	7.09	0.64	6.45	7.73	0.21
Urunao-S-2A-3	22-May-10	07:35:37am	144.83835481	13.61576145	1633	1569	Sample site on rockpile, sample taken at closest location with soil, mostly humic material	003	9.94	0.81	9.13	10.75	0.24
Urunao-S-2A-4	22-May-10	07:41:06am	144.83839015	13.61571462	2004	1817	Sample site on rockpile, sample taken at closest soil location, mostly humic material	004	33.4	2.3	31.1	35.7	0.5
Urunao-S-2A-5	22-May-10	07:48:58am	144.83846771	13.61608378	2763	3387	Flat area, mixed soil	005	28	2.0	26	30	0.5
Urunao-S-2A-6	22-May-10	07:55:35am	144.83849068	13.61621818	6536	4887	Flat area, reddish soil	006	67	4.4	62.6	71.4	0.7
Urunao-S-2A-7	22-May-10	08:04:58am	144.83896562	13.61609262	929	1018	Slopeside, mixed soil with limestone	007	3.3	0.39	2.91	3.69	0.21
Urunao-S-2A-8	22-May-10	08:20:07am	144.83909415	13.61559571	2899	2658	Sample site on vine covered rockpile, sample taken upgrade on road	008	11.1	1.0	10.1	12.1	0.3
Urunao-S-2A-9	22-May-10	08:39:02Am	144.83933077	13.61546352	2457	1974	Sample site inaccessible and on rockpile, sample taken on adjacent path, mixed soil	009	9.89	0.77	9.12	10.66	0.24
Urunao-S-2A-10	22-May-10	09:02:13am	144.83935845	13.61521409	809	746	Sample site inaccessible, sample taken at closest location with soil, mixed soil	010	3.78	0.47	3.31	4.25	0.2
Urunao-S-2A-11	21-May-10	11:58:23am	144.83876931	13.61509257	1047	995	Slopeside, mixed soil	011	3.73	0.48	3.25	4.21	0.23
Urunao-S-2A-12	21-May-10	12:05:25pm	144.83886475	13.61503241	1127	1125	Slopeside, mixed soil	012	8.1	0.71	7.39	8.81	0.17
Urunao-S-2A-13	21-May-10	12:15:57pm	144.83860428	13.61528995	2503	2552	Flat area, beside rockpile, mixed soil	013	42.2	2.8	39.4	45	0.5

Note 1: All field measurements (cpm) were collected with Ludlum meter/model 2221, S/N 169220, probe model 44-10

Note 2: All lab sample lot numbers: F0F110574-XXX (XXX = lab sample ID #)

MDC = Minimum Detectable Concentration

LCL = Lower Confidence Level

UCL = Upper Confidence Level

Average:	18.6	pCi/g
Stdev	19.05	pCi/g
MIN	3.3	pCi/g
MAX	67	pCi/g

Attachment 12: Soil Sample Results

Urunao Dumpsite Survey Unit 2B:

Soil Sample Location/Information and Resulting Radium-226 (pCi/g) Activity

Sample ID #	Date	Time	Longitude	Latitude	Surface Reading (cpm)	Container Reading (cpm)	Description	Lab Sample ID #	Ra-226 Activity (pCi/g)	Total Uncert. (pCi/g)	LCL (pCi/g)	UCL (pCi/g)	MDC (pCi/g)
Urunao-S-2B-1	22-May-10	03:41:18pm	144.840313887	13.615248197	3103	3222	Just over ridge, red soil	014	22.5	1.7	20.8	24.2	0.5
Urunao-S-2B-2	22-May-10	03:52:21pm	144.840333700	13.616073429	2982	2532	Just over ridge, reddish soil	015	11.1	0.87	10.23	11.97	0.25
Urunao-S-2B-3	22-May-10	04:02:47pm	144.840355491	13.616181872	1602	1922	Just over ridge on limestone outcropping, offset to soil beside	016	22.5	1.7	20.8	24.2	0.4
Urunao-S-2B-4	22-May-10	04:14:02pm	144.840314390	13.616249671	1554	1036	Sample location on steep outcropping, soil taken next to it	017	8.55	0.87	7.68	9.42	0.32
Urunao-S-2B-5	22-May-10	09:11:34am	144.839525044	13.615353407	806	859	Slopeside, mixed soil	018	1.76	0.24	1.52	2	0.09
Urunao-S-2B-6	22-May-10	09:20:04am	144.839683549	13.615433608	2507	2951	Sample site on rockpile, sample taken upgrade on road, mixed soil	019	13	1.1	11.9	14.1	0.3
Urunao-S-2B-7	22-May-10	09:27:23am	144.839822810	13.615659782	8777	4378	Sample taken on vertical outcropping, red clay	020	37.6	2.6	35	40.2	0.6
Urunao-S-2B-8	22-May-10	09:46:17am	144.839969352	13.615756213	2264	2039	Slopeside, mixed reddish soil	021	16	1.2	14.8	17.2	0.3
Uruno-S-2B-8 Duplicate								021X	16.2	1.3	14.9	17.5	0.3
Urunao-S-2B-9	22-May-10	10:08:24am	144.840037911	13.616211827	1341	1465	Slopeside beneath forest canopy	022	11.4	0.94	10.46	12.34	0.34
Urunao-S-2B-10	22-May-10	10:22:03am	144.840154939	13.615764943	8035	5036	Reddish soil at base of cliff face	023	49.6	3.2	46.4	52.8	0.6
Urunao-S-2B-11	22-May-10	10:44:07am	144.840213960	13.616179252	863	765	Sample taken at base of cliff, mixed soil	024	3.79	0.56	3.23	4.35	0.25
Urunao-S-2B-12	22-May-10	11:19:39am	144.839873011	13.615460252	2712	2436	Slopeside, reddish soil	025	12.3	1.1	11.2	13.4	0.3
Urunao-S-2B-13	22-May-10	11:35:15am	144.839638482	13.615662993	1222	1068	Slopeside, mixed soil	026	5.87	0.54	5.33	6.41	0.15

Note 1: All field measurements (cpm) were collected with Ludlum meter/model 2221, S/N 169220, probe model 44-10

Note 2: All lab sample lot numbers: F0F110574-XXX (XXX = lab sample ID #)

MDC = Minimum Detectable Concentration

LCL = Lower Confidence Level

UCL = Upper Confidence Level

Average:	16.6	pCi/g
Stdev	13.70	pCi/g
MIN	1.76	pCi/g
MAX	49.6	pCi/g

Attachment 12: Soil Sample Results

Urunao Dumpsite Survey Unit 2B Biased:

Soil Sample Location/Information and Resulting Radium-226 (pCi/g) Activity

Sample ID #	Date	Time	Longitude	Latitude	Surface Reading (cpm)	Container Reading (cpm)	Description	Lab Sample ID #	Ra-226 Activity (pCi/g)	Total Uncert. (pCi/g)	LCL (pCi/g)	UCL (pCi/g)	MDC (pCi/g)
Urunao-S-2B-Biased-1	24-May-10	04:07:52pm	144.840297771	13.615584286	10815	5445	Over ridge, reddish soil	014	36.80	2.50	34.30	39.30	0.60
Urunao-S-2B-Biased-2	24-May-10	04:20:46pm	144.840283083	13.615538901	7342	3147	Over ridge, reddish soil	015	35.60	2.60	33.00	38.20	0.60
Urunao-S-2B-Biased-3	24-May-10	04:32:32pm	144.840280420	13.615839155	12169	7902	Over ridge, reddish soil	016	72.00	4.70	67.30	76.70	0.90
Urunao-S-2B-Biased-4	25-May-10	07:39:58am	144.840227437	13.615517569	10259	11966	Over ridge where marker was found, reddish soil	017	130.00	8.10	121.90	138.10	1.00
Urunao-S-2B-Biased-5	25-May-10	11:25:26am	144.840246609	13.615513473	8657	8413	3 ft from marker location on path, reddish soil	018	30.00	2.20	27.80	32.20	0.50
Urunao-S-2B-Biased-6	25-May-10	11:27:41am	144.840265899	13.615499663	9633	8155	Over ridge, reddish soil	019	25.70	1.80	23.90	27.50	0.40
Urunao-S-2B-Biased-7	25-May-10	11:45:36am	144.840293504	13.615450202	10020	8301	Over ridge, reddish soil	020	36.40	2.60	33.80	39.00	0.60
Urunao-S-2B-Biased-8	25-May-10	11:47:07am	144.840275678	13.615445612	7644	6945	Over ridge, reddish soil	021	44.10	3.10	41.00	47.20	0.60
Urunao-S-2B-Biased-9	25-May-10	02:48:36pm	144.840261266	13.615605239	8371	7566	Over ridge, reddish soils	022	43.10	3.10	40.00	46.20	0.70
Urunao-S-2B-Biased-10	25-May-10	03:07:03pm	144.840244201	13.615674049	9486	8822	Over ridge, reddish soil, near hot2	023	28.10	2.00	26.10	30.10	0.50
Urunao-S-2B-Biased-11	25-May-10	03:32:32pm	144.840263920	13.615786984	8865	6660	Over ridge, reddish soil	024	43.70	3.00	40.70	46.70	0.50
Urunao-S-2B-Biased-12	25-May-10	03:47:07pm	144.840294889	13.615612553	6160	4383	Over ridge, reddish soil	025	18.20	1.40	16.80	19.60	0.40
Urunao-S-2B-Biased-13	26-May-10	06:54:48am	144.840280183	13.615653060	5098	4446	Top of ridge, reddish soil	026	25.30	1.90	23.40	27.20	0.40
Urunao-S-2B-Biased-14	26-May-10	08:00:25am	144.840250719	13.615645580	5381	4880	Over the ridge, reddish soil with a lot of man-made debris	027	30.00	2.10	27.90	32.10	0.50
Urunao-S-2B-Biased-15	26-May-10	08:21:34am	144.840238528	13.615512804	11695	10564	Over the ridge, just below biased 4, reddish soil	028	60.30	3.90	56.40	64.20	0.80

Note 1: All field measurements (cpm) were collected with Ludlum meter/model 2221, S/N 169220, probe model 44-10

Note 2: All lab sample lot numbers: F0F110574-XXX (XXX = lab sample ID #)

MDC = Minimum Detectable Concentration

LCL = Lower Confidence Level

UCL = Upper Confidence Level

Average:	44.0	pCi/g
Stdev	27.54	pCi/g
MIN	18.20	pCi/g
MAX	130.00	pCi/g



TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

GUAM/Uranao

Lot #: F0F110566

Roberta Lenski/Joseph Vinch

US Air Force
Unit 5213 Box 10
APO AP96368-5213
011-81-961-7361
Andersen AFB GU, 96453

TESTAMERICA LABORATORIES, INC.

A handwritten signature in black ink, appearing to read "Ivan Vania", is positioned above the printed name and title.

Ivan Vania
Project Manager

July 9, 2010

Case Narrative
LOT NUMBER: F0F110566

This report contains the analytical results for the 26 samples received under chain of custody by TestAmerica St. Louis on June 7, 2010. These samples are associated with your GUAM/Uraao project.

The analytical results included in this report meet all applicable quality control procedure requirements.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by TestAmerica St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. **TestAmerica St. Louis' Florida certification number is E87689.** The case narrative is an integral part of this report.

This report shall not be reproduced, except in full, without the written approval of the laboratory.

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

Observations/Nonconformances

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

There were no nonconformances or observations noted with any analysis on this lot.

METHODS SUMMARY

F0F110566

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Gamma Spectroscopy - Radium-226 & Hits	EML GA-01-R MOD	

References:

EML "ENVIRONMENTAL MEASUREMENTS LABORATORY PROCEDURES MANUAL"
HASL-300 28TH EDITION, VOLUME I and II DEPARTMENT OF ENERGY

SAMPLE SUMMARY

FOF110566

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
L2R9W	001	URUNAO-S-1A-1	05/22/10	10:49
L2TAQ	002	URUNAO-S-1A-2	05/22/10	10:56
L2TAR	003	URUNAO-S-1A-3	05/22/10	11:04
L2TAV	004	URUNAO-S-1A-4	05/22/10	11:13
L2TAW	005	URUNAO-S-1A-5	05/22/10	11:18
L2TAX	006	URUNAO-S-1A-6	05/22/10	11:32
L2TA1	007	URUNAO-S-1A-7	05/22/10	11:43
L2TA3	008	URUNAO-S-1A-8	05/22/10	11:48
L2TA4	009	URUNAO-S-1A-9	05/22/10	12:01
L2TA5	010	URUNAO-S-1A-10	05/22/10	12:08
L2TA9	011	URUNAO-S-1A-11	05/22/10	12:18
L2TCC	012	URUNAO-S-1A-12	05/22/10	12:40
L2TCG	013	URUNAO-S-1A-13	05/22/10	12:51
L2TCK	014	URUNAO-S-1B-1	05/21/10	06:40
L2TCR	015	URUNAO-S-1B-2	05/21/10	07:13
L2TCW	016	URUNAO-S-1B-3	05/21/10	07:22
L2TC4	017	URUNAO-S-1B-4	05/21/10	07:29
L2TC8	018	URUNAO-S-1B-5	05/21/10	07:36
L2TDC	019	URUNAO-S-1B-6	05/21/10	07:42
L2TDF	020	URUNAO-S-1B-7	05/21/10	08:00
L2TDK	021	URUNAO-S-1B-8	05/21/10	08:23
L2TDM	022	URUNAO-S-1B-9	05/21/10	08:44
L2TDT	023	URUNAO-S-1B-10	05/21/10	08:51
L2TDW	024	URUNAO-S-1B-11	05/21/10	09:01
L2TD0	025	URUNAO-S-1B-12	05/21/10	09:13
L2TD2	026	URUNAO-S-1B-13	05/21/10	09:49

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-1A-1

Radiochemistry

Lab Sample ID: F0F110566-001
 Work Order: L2R9W
 Matrix: SOLID

Date Collected: 05/22/10 1049
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166326	Yld %
Potassium 40	-0.4	U	24		1	06/15/10	07/06/10
Radium (226)	2.11		0.25	1.00	0.12	06/15/10	07/06/10
Radium 228	0.09	U	0.15		0.25	06/15/10	07/06/10
Uranium 235	0.05	U	0.25		0.43	06/15/10	07/06/10
Uranium 238	0.3	U	1.0		1.8	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	2.11		0.25		0.12	06/15/10	07/06/10
Lead 214	2.25		0.25		0.14	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-1A-1 DUP

Radiochemistry

Lab Sample ID: F0F110566-001X
 Work Order: L2R9W
 Matrix: SOLID

Date Collected: 05/22/10 1049
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g	Batch # 0166326		Yld %
Potassium 40	-0.3	U	11		2	06/15/10	07/06/10
Radium (226)	2.38		0.28	1.00	0.13	06/15/10	07/06/10
Radium 228	0.04	U	0.15		0.28	06/15/10	07/06/10
Uranium 235	0.04	U	0.30		0.52	06/15/10	07/06/10
Uranium 238	0.4	U	1.2		2.0	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	2.38		0.28		0.13	06/15/10	07/06/10
Lead 214	2.57		0.27		0.11	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-1A-2

Radiochemistry

Lab Sample ID: F0F110566-002
 Work Order: L2TAQ
 Matrix: SOLID

Date Collected: 05/22/10 1056
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166326	Yld %
Potassium 40	-0.4	U	11		2	06/15/10	07/06/10
Radium (226)	6.80		0.67	1.00	0.22	06/15/10	07/06/10
Radium 228	0.24	U	0.31		0.52	06/15/10	07/06/10
Uranium 235	-0.24	U	0.44		0.73	06/15/10	07/06/10
Uranium 238	-0.2	U	3.3		2.7	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	6.80		0.67		0.22	06/15/10	07/06/10
Lead 212	0.33		0.17		0.21	06/15/10	07/06/10
Lead 214	6.92		0.63		0.25	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-1A-3

Radiochemistry

Lab Sample ID: FOF110566-003
 Work Order: L2TAR
 Matrix: SOLID

Date Collected: 05/22/10 1104
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166326	Yld %
Potassium 40	0.3	U	1.0		1.8	06/15/10	07/06/10
Radium (226)	10.6		0.82	1.00	0.20	06/15/10	07/06/10
Radium 228	0.48	U	0.35		0.55	06/15/10	07/06/10
Uranium 235	0.12	U	0.52		0.87	06/15/10	07/06/10
Uranium 238	0.4	U	1.9		3.2	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	10.6		0.82		0.20	06/15/10	07/06/10
Lead 212	0.54		0.16		0.19	06/15/10	07/06/10
Lead 214	11.5		0.85		0.29	06/15/10	07/06/10
Thallium 208	0.27		0.13		0.12	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-1A-4

Radiochemistry

Lab Sample ID: F0F110566-004 Date Collected: 05/22/10 1113
 Work Order: L2TAV Date Received: 06/07/10 0900
 Matrix: SOLID

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g	Batch # 0166326		Yld %
Potassium 40	-0.09	U	1.5		1.7	06/15/10	07/06/10
Radium (226)	6.23		0.60	1.00	0.21	06/15/10	07/06/10
Radium 228	0.22	U	0.30		0.50	06/15/10	07/06/10
Uranium 235	-0.09	U	5.4		0.9	06/15/10	07/06/10
Uranium 238	0.1	U	1.9		3.3	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	6.23		0.60		0.21	06/15/10	07/06/10
Lead 214	6.65		0.60		0.26	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-1A-5

Radiochemistry

Lab Sample ID: FOF110566-005
 Work Order: L2TAW
 Matrix: SOLID

Date Collected: 05/22/10 1118
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166326	Yld %
Potassium 40	0.61	U	0.80		1.4	06/15/10	07/06/10
Radium (226)	10.6		0.81	1.00	0.22	06/15/10	07/06/10
Radium 228	0.63		0.30		0.42	06/15/10	07/06/10
Uranium 235	-0.03	U	0.42		0.72	06/15/10	07/06/10
Uranium 238	2.4	U	2.1		3.0	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	10.6		0.81		0.22	06/15/10	07/06/10
Lead 212	0.58		0.18		0.22	06/15/10	07/06/10
Lead 214	10.8		0.81		0.26	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-1A-6

Radiochemistry

Lab Sample ID: F0F110566-006
 Work Order: L2TAX
 Matrix: SOLID

Date Collected: 05/22/10 1132
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g	Batch # 0166326		Yld %
Potassium 40	-0.3	U	14		2	06/15/10	07/06/10
Radium (226)	3.24		0.42	1.00	0.19	06/15/10	07/06/10
Radium 228	0.13	U	0.25		0.43	06/15/10	07/06/10
Uranium 235	0.008	U	0.33		0.58	06/15/10	07/06/10
Uranium 238	0.4	U	1.5		2.6	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	3.24		0.42		0.19	06/15/10	07/06/10
Lead 214	3.15		0.37		0.19	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-1A-7

Radiochemistry

Lab Sample ID: F0F110566-007
 Work Order: L2TA1
 Matrix: SOLID

Date Collected: 05/22/10 1143
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166326	Yld %
Potassium 40	0.08	U	1.3		2.4	06/15/10	07/06/10
Radium (226)	18.6		1.4	1.0	0.4	06/15/10	07/06/10
Radium 228	2.00		0.65		0.58	06/15/10	07/06/10
Uranium 235	0.67	U	0.71		1.2	06/15/10	07/06/10
Uranium 238	1	U	2.9		4.9	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	18.6		1.4		0.4	06/15/10	07/06/10
Lead 214	19.2		1.4		0.5	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-1A-8

Radiochemistry

Lab Sample ID: F0F110566-008
 Work Order: L2TA3
 Matrix: SOLID

Date Collected: 05/22/10 1148
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166326	Yld %
Potassium 40	0.3	U	1.4		2.6	06/15/10	07/06/10
Radium (226)	22.6		1.7	1.0	0.4	06/15/10	07/06/10
Radium 228	2.09		0.71		0.60	06/15/10	07/06/10
Uranium 235	0.51	U	0.98		1.6	06/15/10	07/06/10
Uranium 238	1.7	U	3.8		6.3	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Actinium 228	2.09		0.71		0.60	06/15/10	07/06/10
Bismuth 214	22.6		1.7		0.4	06/15/10	07/06/10
Lead 210	8.6		4.8		5.9	06/15/10	07/06/10
Lead 212	1.24		0.32		0.36	06/15/10	07/06/10
Lead 214	22.4		1.6		0.5	06/15/10	07/06/10
Thallium 208	0.61		0.22		0.21	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-1A-9

Radiochemistry

Lab Sample ID: F0F110566-009
 Work Order: L2TA4
 Matrix: SOLID

Date Collected: 05/22/10 1201
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166326	Yld %
Potassium 40	0.33		0.10		0.11	06/15/10	07/06/10
Radium (226)	0.900	J	0.079	1.00	0.030	06/15/10	07/06/10
Radium 228	0.123		0.041		0.046	06/15/10	07/06/10
Uranium 235	0.042	U	0.054		0.089	06/15/10	07/06/10
Uranium 238	0.43		0.26		0.35	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Actinium 228	0.123		0.041		0.046	06/15/10	07/06/10
Bismuth 214	0.900		0.079		0.030	06/15/10	07/06/10
Lead 212	0.068		0.020		0.024	06/15/10	07/06/10
Lead 214	0.959		0.074		0.032	06/15/10	07/06/10
Thorium 234	0.43		0.26		0.35	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

J Result is greater than sample detection limit but less than stated reporting limit.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-1A-10

Radiochemistry

Lab Sample ID: F0F110566-010
 Work Order: L2TA5
 Matrix: SOLID

Date Collected: 05/22/10 1208
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166326	Yld %
Potassium 40	-0.2	U	3.3		1.6	06/15/10	07/06/10
Radium (226)	3.90		0.44	1.00	0.16	06/15/10	07/06/10
Radium 228	0.19	U	0.21		0.34	06/15/10	07/06/10
Uranium 235	-0.01	U	0.24		0.43	06/15/10	07/06/10
Uranium 238	-0.1	U	2.8		2.6	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	3.90		0.44		0.16	06/15/10	07/06/10
Lead 214	3.79		0.37		0.21	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-1A-11

Radiochemistry

Lab Sample ID: F0F110566-011
 Work Order: L2TA9
 Matrix: SOLID

Date Collected: 05/22/10 1218
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD							
Potassium 40	-0.2	U	7.0		1.1	06/15/10	07/06/10
Radium (226)	1.86		0.24	1.00	0.09	06/15/10	07/06/10
Radium 228	0.11	U	0.16		0.27	06/15/10	07/06/10
Uranium 235	-0.14	U	0.33		0.36	06/15/10	07/06/10
Uranium 238	0.50	U	0.85		1.5	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	1.86		0.24		0.09	06/15/10	07/06/10
Lead 214	2.06		0.24		0.11	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-1A-12

Radiochemistry

Lab Sample ID: F0F110566-012
 Work Order: L2TCC
 Matrix: SOLID

Date Collected: 05/22/10 1240
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166326	Yld %
Potassium 40	-0.2	U	1.8		1.1	06/15/10	07/06/10
Radium (226)	1.91		0.28	1.00	0.12	06/15/10	07/06/10
Radium 228	0.16	U	0.19		0.30	06/15/10	07/06/10
Uranium 235	0.1	U	0.28		0.48	06/15/10	07/06/10
Uranium 238	1	U	1.0		1.5	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	1.91		0.28		0.12	06/15/10	07/06/10
Cesium 137	0.222		0.080		0.065	06/15/10	07/06/10
Lead 214	1.77		0.21		0.13	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-1A-13

Radiochemistry

Lab Sample ID: F0F110566-013
 Work Order: L2TCG
 Matrix: SOLID

Date Collected: 05/22/10 1251
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166326	Yld %
Potassium 40	0.05	U	0.46		0.95	06/15/10	07/06/10
Radium (226)	0.85	J	0.16	1.00	0.16	06/15/10	07/06/10
Radium 228	0.03	U	0.11		0.20	06/15/10	07/06/10
Uranium 235	0.20	U	0.22		0.36	06/15/10	07/06/10
Uranium 238	0.45	U	0.87		1.6	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	0.85		0.16		0.16	06/15/10	07/06/10
Lead 214	1.12		0.16		0.05	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

J Result is greater than sample detection limit but less than stated reporting limit.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-1B-1

Radiochemistry

Lab Sample ID: F0F110566-014

Date Collected: 05/21/10 0640

Work Order: L2TCK

Date Received: 06/07/10 0900

Matrix: SOLID

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166326	Yld %
Potassium 40	-0.2	U	18		1	06/15/10	07/06/10
Radium (226)	1.03		0.19	1.00	0.10	06/15/10	07/06/10
Radium 228	0.003	U	0.15		0.29	06/15/10	07/06/10
Uranium 235	0.06	U	0.16		0.27	06/15/10	07/06/10
Uranium 238	0.62	U	0.77		1.3	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	1.03		0.19		0.10	06/15/10	07/06/10
Lead 214	1.09		0.18		0.13	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-1B-2

Radiochemistry

Lab Sample ID: F0F110566-015
 Work Order: L2TCR
 Matrix: SOLID

Date Collected: 05/21/10 0713
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166326	Yld %
Potassium 40	0.004	U	0.48		1.0	06/15/10	07/06/10
Radium (226)	1.82		0.25	1.00	0.14	06/15/10	07/06/10
Radium 228	0.02	U	0.15		0.29	06/15/10	07/06/10
Uranium 235	0.06	U	0.25		0.43	06/15/10	07/06/10
Uranium 238	0.56	U	0.84		1.5	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	1.82		0.25		0.14	06/15/10	07/06/10
Lead 214	1.92		0.25		0.16	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-1B-3

Radiochemistry

Lab Sample ID: F0F110566-016
 Work Order: L2TCW
 Matrix: SOLID

Date Collected: 05/21/10 0722
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166326	Yld %
Potassium 40	-0.2	U	8.9		1.6	06/15/10	07/06/10
Radium (226)	1.76		0.28	1.00	0.16	06/15/10	07/06/10
Radium 228	0.12	U	0.19		0.33	06/15/10	07/06/10
Uranium 235	0.17	U	0.25		0.42	06/15/10	07/06/10
Uranium 238	-0.2	U	2.3		1.8	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	1.76		0.28		0.16	06/15/10	07/06/10
Lead 214	1.97		0.26		0.17	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-1B-4

Radiochemistry

Lab Sample ID: F0F110566-017
 Work Order: L2TC4
 Matrix: SOLID

Date Collected: 05/21/10 0729
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166326	Yld %
Potassium 40	0.18	U	0.74		1.5	06/15/10	07/06/10
Radium (226)	5.79		0.54	1.00	0.20	06/15/10	07/06/10
Radium 228	0.68		0.30		0.40	06/15/10	07/06/10
Uranium 235	0.36	U	0.43		0.71	06/15/10	07/06/10
Uranium 238	2.0	U	1.9		2.7	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Actinium 228	0.68		0.30		0.40	06/15/10	07/06/10
Bismuth 214	5.79		0.54		0.20	06/15/10	07/06/10
Cesium 137	0.272		0.094		0.081	06/15/10	07/06/10
Lead 212	0.42		0.18		0.21	06/15/10	07/06/10
Lead 214	6.04		0.49		0.24	06/15/10	07/06/10
Thallium 208	0.201		0.096		0.11	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-1B-5

Radiochemistry

Lab Sample ID: F0F110566-018
 Work Order: L2TC8
 Matrix: SOLID

Date Collected: 05/21/10 0736
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	MDC	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD							
Potassium 40	-0.2	U	9.2		1.7	06/15/10	07/06/10
Radium (226)	2.47		0.34	1.00	0.16	06/15/10	07/06/10
Radium 228	0.11	U	0.24		0.42	06/15/10	07/06/10
Uranium 235	0.20	U	0.27		0.44	06/15/10	07/06/10
Uranium 238	0.2	U	1.0		1.8	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	2.47		0.34		0.16	06/15/10	07/06/10
Lead 212	0.193		0.0999		0.13	06/15/10	07/06/10
Lead 214	2.64		0.32		0.20	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-1B-6

Radiochemistry

Lab Sample ID: F0F110566-019
 Work Order: L2TDC
 Matrix: SOLID

Date Collected: 05/21/10 0742
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166326	Yld %
Potassium 40	-0.3	U	14		1	06/15/10	07/06/10
Radium (226)	1.46		0.22	1.00	0.14	06/15/10	07/06/10
Radium 228	0.08	U	0.14		0.26	06/15/10	07/06/10
Uranium 235	0.04	U	0.22		0.38	06/15/10	07/06/10
Uranium 238	0.55	U	0.84		1.4	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	1.46		0.22		0.14	06/15/10	07/06/10
Lead 214	1.54		0.20		0.15	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-1B-7

Radiochemistry

Lab Sample ID: F0F110566-020
 Work Order: L2TDF
 Matrix: SOLID

Date Collected: 05/21/10 0800
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166326	Yld %
Potassium 40	0.02	U	0.62		1.3	06/15/10	07/06/10
Radium (226)	4.81		0.53	1.00	0.19	06/15/10	07/06/10
Radium 228	0.07	U	0.26		0.46	06/15/10	07/06/10
Uranium 235	-0.09	U	0.76		0.70	06/15/10	07/06/10
Uranium 238	0.7	U	1.5		2.6	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	4.81		0.53		0.19	06/15/10	07/06/10
Lead 212	0.31		0.14		0.17	06/15/10	07/06/10
Lead 214	4.63		0.44		0.27	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-1B-8

Radiochemistry

Lab Sample ID: F0F110566-021

Date Collected: 05/21/10 0823

Work Order: L2TDK

Date Received: 06/07/10 0900

Matrix: SOLID

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166324	Yld %
Potassium 40	0.5	U	1.2		2.1	06/15/10	07/07/10
Radium (226)	12.8		1.1	1.0	0.3	06/15/10	07/07/10
Radium 228	1.54		0.50		0.48	06/15/10	07/07/10
Uranium 235	-0.27	U	0.73		1.0	06/15/10	07/07/10
Uranium 238	0.9	U	2.6		4.3	06/15/10	07/07/10
--- Other Detected Radionuclides ---							
Actinium 228	1.54		0.50		0.48	06/15/10	07/07/10
Bismuth 214	12.8		1.1		0.3	06/15/10	07/07/10
Lead 212	0.88		0.22		0.24	06/15/10	07/07/10
Lead 214	12.6		0.94		0.39	06/15/10	07/07/10
Thallium 208	0.30		0.12		0.13	06/15/10	07/07/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-1B-8 DUP

Radiochemistry

Lab Sample ID: F0F110566-021X

Date Collected: 05/21/10 0823

Work Order: L2TDK

Date Received: 06/07/10 0900

Matrix: SOLID

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166324	Yld %
Potassium 40	0.32	U	0.95		1.8	06/15/10	07/07/10
Radium (226)	12.3		0.97	1.00	0.19	06/15/10	07/07/10
Radium 228	1.34		0.49		0.52	06/15/10	07/07/10
Uranium 235	-0.07	U	13		1	06/15/10	07/07/10
Uranium 238	0.2	U	2.6		4.3	06/15/10	07/07/10
--- Other Detected Radionuclides ---							
Actinium 228	1.34		0.49		0.52	06/15/10	07/07/10
Bismuth 214	12.3		0.97		0.19	06/15/10	07/07/10
Lead 212	0.62		0.22		0.26	06/15/10	07/07/10
Lead 214	12.8		0.997		0.38	06/15/10	07/07/10
Thallium 208	0.31		0.12		0.12	06/15/10	07/07/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-1B-9

Radiochemistry

Lab Sample ID: F0F110566-022
 Work Order: L2TDM
 Matrix: SOLID

Date Collected: 05/21/10 0844
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166324	Yld %
Potassium 40	-0.2	U	7.0		1.3	06/15/10	07/06/10
Radium (226)	3.20		0.35	1.00	0.13	06/15/10	07/06/10
Radium 228	-0.007	U	0.19		0.35	06/15/10	07/06/10
Uranium 235	0.10	U	0.29		0.49	06/15/10	07/06/10
Uranium 238	0.7	U	1.2		2.0	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	3.20		0.35		0.13	06/15/10	07/06/10
Lead 214	3.57		0.36		0.18	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-1B-10

Radiochemistry

Lab Sample ID: F0F110566-023
 Work Order: L2TDT
 Matrix: SOLID

Date Collected: 05/21/10 0851
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166324	Yld %
Potassium 40	0.04	U	0.41		0.87	06/15/10	07/06/10
Radium (226)	2.23		0.27	1.00	0.14	06/15/10	07/06/10
Radium 228	0.04	U	0.13		0.25	06/15/10	07/06/10
Uranium 235	0.08	U	0.25		0.42	06/15/10	07/06/10
Uranium 238	0.008	U	0.94		1.7	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	2.23		0.27		0.14	06/15/10	07/06/10
Lead 214	2.46		0.28		0.18	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-1B-11

Radiochemistry

Lab Sample ID: F0F110566-024
 Work Order: L2TDW
 Matrix: SOLID

Date Collected: 05/21/10 0901
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166324	Yld %
Potassium 40	1.7	U	2.7		4.5	06/15/10	07/06/10
Radium (226)	63.3		4.2	1.0	0.8	06/15/10	07/06/10
Radium 228	5.1		1.4		1.6	06/15/10	07/06/10
Uranium 235	1.2	U	1.5		2.4	06/15/10	07/06/10
Uranium 238	2.8	U	6.2		10	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Actinium 228	5.1		1.4		1.6	06/15/10	07/06/10
Bismuth 214	63.3		4.2		0.8	06/15/10	07/06/10
Lead 212	3.36		0.59		0.65	06/15/10	07/06/10
Lead 214	63.1		4.1		0.9	06/15/10	07/06/10
Thallium 208	1.23		0.38		0.40	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-1B-12

Radiochemistry

Lab Sample ID: F0F110566-025
 Work Order: L2TD0
 Matrix: SOLID

Date Collected: 05/21/10 0913
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166324	Yld %
Potassium 40	0.4	U	1.0		1.9	06/15/10	07/06/10
Radium (226)	6.07		0.66	1.00	0.31	06/15/10	07/06/10
Radium 228	0.16	U	0.29		0.50	06/15/10	07/06/10
Uranium 235	-0.14	U	0.48		0.81	06/15/10	07/06/10
Uranium 238	-1.1	U	4.5		2.9	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	6.07		0.66		0.31	06/15/10	07/06/10
Lead 212	0.42		0.16		0.20	06/15/10	07/06/10
Lead 214	6.21		0.61		0.30	06/15/10	07/06/10
Thallium 208	0.23		0.11		0.10	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-1B-13

Radiochemistry

Lab Sample ID: F0F110566-026
 Work Order: L2TD2
 Matrix: SOLID

Date Collected: 05/21/10 0949
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166324	Yld %
Potassium 40	-0.05	U	1.4		1.8	06/15/10	07/06/10
Radium (226)	8.15		0.70	1.00	0.17	06/15/10	07/06/10
Radium 228	0.21	U	0.30		0.49	06/15/10	07/06/10
Uranium 235	0.34	U	0.46		0.75	06/15/10	07/06/10
Uranium 238	-0.4	U	6.6		3.2	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	8.15		0.70		0.17	06/15/10	07/06/10
Lead 212	0.40		0.15		0.19	06/15/10	07/06/10
Lead 214	8.50		0.65		0.25	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

METHOD BLANK REPORT

Radiochemistry

Client Lot ID: F0F110566

Matrix: SOLID

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	MDC	Prep Date	Lab Sample ID Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD							
			pCi/g	Batch #	0166324	Yld %	F0F150000-324B
Potassium 40	0.02	U	0.28		0.74	06/15/10	07/06/10
Radium (226)	0.062	U	0.054	1.00	0.078	06/15/10	07/06/10
Radium 228	0.045	U	0.090		0.16	06/15/10	07/06/10
Uranium 235	-0.03	U	2.4		0.2	06/15/10	07/06/10
Uranium 238	-0.18	U	0.82		0.95	06/15/10	07/06/10
Gamma Ra-226 & Hits By DOE GA-010R MOD							
			pCi/g	Batch #	0166326	Yld %	F0F150000-326B
Potassium 40	-0.3	U	13		1	06/15/10	07/06/10
Radium (226)	-0.004	U	0.11	1.00	0.18	06/15/10	07/06/10
Radium 228	0.10	U	0.19		0.33	06/15/10	07/06/10
Uranium 235	0.07	U	0.11		0.19	06/15/10	07/06/10
Uranium 238	0.34	U	0.94		1.7	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined using instrument performance only

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Laboratory Control Sample Report

Radiochemistry

Client Lot ID: F0F110566
 Matrix: SOLID

Parameter	Spike Amount	Result	Total Uncert. (2 σ +/-)	MDC	% Yld	% Rec	Lab Sample ID QC Control Limits
Gamma Ra-226 & Hits By DOE GA-010R MOD			pCi/g	GA-01-R MOD			F0F150000-324C
Radium (226)	12.2	11.2	1.1	0.4		92	(79 - 110)
Thorium 232	9.50	10.2	1.2	0.8		108	(89 - 121)
	Batch #:	0166324		Analysis Date:	07/06/10		
Gamma Ra-226 & Hits By DOE GA-010R MOD			pCi/g	GA-01-R MOD			F0F150000-326C
Radium (226)	12.2	11.2	1.0	0.4		92	(79 - 110)
Thorium 232	9.50	10.4	1.1	0.7		110	(89 - 121)
	Batch #:	0166326		Analysis Date:	07/06/10		

NOTE(S)

MDC is determined by instrument performance only
 Calculations are performed before rounding to avoid round-off error in calculated results

LOT# F0F110566

DUPLICATE EVALUATION REPORT

Radiochemistry

Client Lot ID: F0F110566
 Matrix: SOLID

Date Sampled: 05/22/10
 Date Received: 06/07/10

Parameter	SAMPLE Result	Total Uncert. (2σ +/-)	% Yld	DUPLICATE Result	Total Uncert. (2σ +/-)	% Yld	QC Sample ID	
							Precision	
Gamma Ra-226 & Hits By DOE GA-010R MOD							F0F110566-001	
Potassium 40	-0.4	U	24	-0.3	U	11	31	%RPD
Radium (226)	2.11		0.25	2.38		0.28	12	%RPD
Radium 228	0.09	U	0.15	0.04	U	0.15	78	%RPD
Uranium 235	0.05	U	0.25	0.04	U	0.30	26	%RPD
Uranium 238	0.3	U	1.0	0.4	U	1.2	40	%RPD
---Other Dedected Radionuclides---								
Bismuth 214	2.11		0.25	2.38		0.28	12	%RPD
Lead 214	2.25		0.25	2.57		0.27	14	%RPD
Batch #:			0166326 (Sample)	0166326 (Duplicate)				
Gamma Ra-226 & Hits By DOE GA-010R MOD							F0F110566-021	
Potassium 40	0.5	U	1.2	0.32	U	0.95	48	%RPD
Radium (226)	12.8		1.1	12.3		0.97	4	%RPD
Radium 228	1.54		0.50	1.34		0.49	14	%RPD
Uranium 235	-0.27	U	0.73	-0.07	U	13	119	%RPD
Uranium 238	0.9	U	2.6	0.2	U	2.6	119	%RPD
---Other Dedected Radionuclides---								
Actinium 228	1.54		0.50	1.34		0.49	14	%RPD
Bismuth 214	12.8		1.1	12.3		0.97	4	%RPD
Lead 212	0.88		0.22	0.62		0.22	35	%RPD
Lead 214	12.6		0.94	12.8		0.997	1	%RPD
Thallium 208	0.30		0.12	0.31		0.12	4	%RPD
Batch #:			0166324 (Sample)	0166324 (Duplicate)				

NOTE(S)

Data are incomplete without the case narrative.
 Calculations are performed before rounding to avoid round-off error in calculated results

U Result is less than the sample detection limit.

F0F110566**CLIENT ANALYSIS SUMMARY**

Storage Loc:

RAD

Project Manager: IV

Quote #: 86422 SDG:

Date Received: 2010-06-07

Project:

GUAM/Uranao Dumpsites 1&2

Analytical Due Date: 2010-07-08

PO#: TO 107/123350

Report to: Joseph Strzempka

Report Due Date: 2010-07-09

Client: 1431288 Defense Finance & Accounting Service

#SMPS in LOT: 26

Report Type: D Expanded Deliverable

EDD Code: 00

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
1	URUNAO-S-1A-1			2010-06-22 / 1049	L2R9W	SOLID
<u>SAMPLE COMMENTS:</u>						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3
X XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3
PROT: A	WRK LOC	06				
PROT: A	WRK LOC	06				
PROT: A	WRK LOC	06				
2	URUNAO-S-1A-2			2010-06-22 / 1056	L2TAQ	SOLID
<u>SAMPLE COMMENTS:</u>						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3
PROT: A	WRK LOC	06				
PROT: A	WRK LOC	06				
3	URUNAO-S-1A-3			2010-06-22 / 1104	L2TAR	SOLID
<u>SAMPLE COMMENTS:</u>						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3
PROT: A	WRK LOC	06				
PROT: A	WRK LOC	06				
4	URUNAO-S-1A-4			2010-06-22 / 1113	L2TAV	SOLID
<u>SAMPLE COMMENTS:</u>						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3
PROT: A	WRK LOC	06				
PROT: A	WRK LOC	06				
5	URUNAO-S-1A-5			2010-06-22 / 1118	L2TAW	SOLID
<u>SAMPLE COMMENTS:</u>						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3
PROT: A	WRK LOC	06				
PROT: A	WRK LOC	06				
6	URUNAO-S-1A-6			2010-06-22 / 1132	L2TAX	SOLID
<u>SAMPLE COMMENTS:</u>						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3
PROT: A	WRK LOC	06				
PROT: A	WRK LOC	06				
7	URUNAO-S-1A-7			2010-06-22 / 1143	L2TA1	SOLID
<u>SAMPLE COMMENTS:</u>						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3
PROT: A	WRK LOC	06				
PROT: A	WRK LOC	06				

TestAmerica - St. Louis

Logged In by: VANIAI

2010-06-29

16:30:41

printed on: Tuesday, July 06, 2010 04:41 PM

Page 1 of 4

FOF110566**CLIENT ANALYSIS SUMMARY**

Storage Loc:

RAD

Project Manager: IV

Quote #: 86422 SDG:

Date Received: 2010-06-07

Project:

GUAM/Uranao Dumpsites 1&2

Analytical Due Date: 2010-07-08

PO#: TO 107/123350

Report to: Joseph Strzempka

Report Due Date: 2010-07-09

Client: 1431288 Defense Finance & Accounting Service

#SMPS In LOT: 26

Report Type: D Expanded Deliverable

EDD Code: 00

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
8	URUNAO-S-1A-8			2010-05-22 / 1148	L2TA3	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day in-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
9	URUNAO-S-1A-9			2010-05-22 / 1201	L2TA4	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day in-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
10	URUNAO-S-1A-10			2010-05-22 / 1208	L2TA5	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day in-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
11	URUNAO-S-1A-11			2010-05-22 / 1218	L2TA9	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day in-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
12	URUNAO-S-1A-12			2010-05-22 / 1240	L2TCC	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day in-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
13	URUNAO-S-1A-13			2010-05-22 / 1251	L2TCG	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day in-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
14	URUNAO-S-1B-1			2010-05-21 / 640	L2TCK	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day in-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
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FOF110566

CLIENT ANALYSIS SUMMARY

Storage Loc: RAD

Project Manager: IV Quote #: 86422 SDG:
 Project: GUAM/Uranac Dumpsites 1&2
 PO#: TO 107/123350 Report to: Joseph Strzempka
 Client: 1431288 Defense Finance & Accounting Service

Date Received: 2010-06-07
 Analytical Due Date: 2010-07-08
 Report Due Date: 2010-07-09
 Report Type: D Expanded Deliverable
 EDD Code: 00

#SMPS in LOT: 26

15 URUNAO-S-1B-2 2010-05-21 / 713 L2TCR SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day in-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
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16 URUNAO-S-1B-3 2010-05-21 / 722 L2TCW SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day in-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
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17 URUNAO-S-1B-4 2010-05-21 / 729 L2TC4 SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day in-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
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18 URUNAO-S-1B-5 2010-05-21 / 736 L2TC8 SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day in-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
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19 URUNAO-S-1B-6 2010-05-21 / 742 L2TDC SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day in-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
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20 URUNAO-S-1B-7 2010-05-21 / 800 L2TDF SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day in-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
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21 URUNAO-S-1B-8 2010-05-21 / 823 L2TDK SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day in-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06
X XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day in-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
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F0F110566

CLIENT ANALYSIS SUMMARY

Storage Loc: RAD
 Date Received: 2010-06-07
 Analytical Due Date: 2010-07-08
 Report Due Date: 2010-07-09
 Report Type: D Expanded Deliverable
 EDD Code: 00

Project Manager: IV Quote #: 86422 SDG:
 Project: GUAM/Uranao Dumpsites 1&2
 PO#: TO 107/123350 Report to: Joseph Strzempka
 Client: 1431288 Defense Finance & Accounting Service

#SMPS in LOT: 26

22 URUNAO-S-1B-9 2010-05-21/ 844 L2TDM SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & H11a	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
23	URUNAO-S-1B-10			2010-05-21/ 851	L2TDT	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & H11a	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
24	URUNAO-S-1B-11			2010-05-21/ 901	L2TDW	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & H11a	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
25	URUNAO-S-1B-12			2010-05-21/ 913	L2TD0	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & H11a	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
26	URUNAO-S-1B-13			2010-05-21/ 949	L2TD2	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & H11a	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

St. Louis
 13715 Rider Trail North
 Earth City, MO 63045
 phone 314.298.8566 fax 314.298.8757

Chain of Custody Record



TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Ivan Varia		Site Contact:		Date:		COC No:	
Your Company Name: US Air Force		Tel/Fax: (314) 298-8566		Lab Contact:		Carrier:		1 of 9 COCs	
Address: Unit 5213, Box 10		Analysis Turnaround Time		Filtered Sample				Job No.	
City, State, Zip: APO, AP 96388-5213		Calendar (C) or Work Days (W) <u>C</u>							
011-81-961-7351 Phone		TAT if different from Below <u>45 D</u>							
roberta.lenski@us.af.mil email/FAX		<input type="checkbox"/> 2 weeks							
Project Name: Urunao Site Final Status Survey		<input type="checkbox"/> 1 week							
Site: Urunao Site, Andersen AB, Guam		<input type="checkbox"/> 2 days						SDG No.	
P O #		<input type="checkbox"/> 1 day							
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Sample Specific Notes:		
Urunao-S-1A-1; coords: 144.838515417/13.613090932		22-May-10	10:49:36am	Soil Sample	1A	1	Sample location on huge rock pile on lower flat area, offset to soil beside rocks		
Urunao-S-1A-2; coords: 144.838602102/13.613424276		22-May-10	10:56:23am	Soil Sample	1A	1	Lower flat, mixed soil		
Urunao-S-1A-3; coords: 144.838597299/13.613573486		22-May-10	11:04:26am	Soil Sample	1A	1	Sample at edge of rockpile, mixed soil		
Urunao-S-1A-4; coords: 144.838912770/13.613579925		22-May-10	11:13:43am	Soil Sample	1A	1	Slopeside beneath rockpile, mixed soil		
Urunao-S-1A-5; coords: 144.838973569/13.613670767		22-May-10	11:18:26am	Soil Sample	1A	1	Slopeside on limestone outcropping, mixed soil		
Urunao-S-1A-6; coords: 144.839071725/13.613322660		22-May-10	11:22:13am	Soil Sample	1A	1	Mixed soil on limestone rockpile		
Urunao-S-1A-7; coords: 144.839004557/13.613305391		22-May-10	11:43:42am	Soil Sample	1A	1	Offset from rockpile, mixed soil		
Urunao-S-1A-8; coords: 144.838951647/13.613292322		22-May-10	11:48:52am	Soil Sample	1A	1	Offset from rockpile, mixed soil		
Urunao-S-1A-9; coords: 144.839066303/13.612984946		22-May-10	12:01:56pm	Soil Sample	1A	1	Shaw garden, red clay		
Urunao-S-1A-10; coords: 144.839167747/13.613055636		22-May-10	12:08:00pm	Soil Sample	1A	1	Mixed soil on limestone outcropping		
Urunao-S-1A-11; coords: 144.839301800/13.613368116		22-May-10	12:18:26pm	Soil Sample	1A	1	Offset at base of cliff, mixed soil		
Urunao-S-1A-12; coords: 144.839444188/13.612924669		22-May-10	12:40:33pm	Soil Sample	1A	1	Sample site inaccessible, offset below cliff, mixed soil		
Urunao-S-1A-13; coords: 144.838888581/13.613033847		22-May-10	12:51:48pm	Soil Sample	1A	1	Sample site on rockpile, offset to limestone soil beside		
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other _____									
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/>					<input checked="" type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Special Instructions/QC Requirements & Comments: (Analyze for Ra-226. Report results in pCi/g. Return samples to US Air Force—address TBD—after analysis.)									
Relinquished by: <i>Roberta Lenski</i>	Company: USAF	Date/Time: 26 May 10 / 1445	Received by: <i>William P. Mitchell</i>	Company: USAF	Date/Time: 26 May 10 / 1445				
Relinquished by: <i>William P. Mitchell</i>	Company: USAF	Date/Time:	Received by: <i>Bill Plouffe</i>	Company: TA-5TL	Date/Time: 6-7-10 16:11:19, 0900				
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:				

LOT# F0F110566

Attachment 13: TestAmerica Results for Survey Units 1A and 1B

TestAmerica St. Louis



Lot #(s): FOF110566
576
574
580

CONDITION UPON RECEIPT FORM

Client: S/HAW E&I

Quote No: 76681

COC/RFA No: N/A

478

Initiated By: NUO

Date: 6/5/10

Time: 0830

Shipping Information

Shipper: FedEx UPS DHL Courier Client Other: _____ Multiple Packages: Y N

Shipping # (s):*	Sample Temperature (s):**
1. <u>863937592573</u>	1. <u>AMBIENT</u>
2. _____	2. _____
3. _____	3. _____
4. _____	4. _____
5. _____	5. _____
6. _____	6. _____
7. _____	7. _____
8. _____	8. _____
9. _____	9. _____
10. _____	10. _____

*Numbered shipping lines correspond to Numbered Sample Temp. lines **Sample must be received at 4°C ± 2°C. If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1.	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N	Are there custody seals present on the cooler?	8.	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N	Are there custody seals present on bottles?
2.	<input checked="" type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Do custody seals on cooler appear to be tampered with?	9.	<input checked="" type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Do custody seals on bottles appear to be tampered with?
3.	<input checked="" type="radio"/> Y <input type="radio"/> N	Were contents of cooler frisked after opening, but before unpacking?	10.	<input checked="" type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Was sample received with proper pH? (If not, make note below)
4.	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N	Sample received with Chain of Custody?	11.	<input checked="" type="radio"/> Y <input type="radio"/> N	Sample received in proper containers?
5.	<input checked="" type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Does the Chain of Custody match sample ID's on the container(s)?	12.	<input checked="" type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
6.	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N	Was sample received broken?	13.	<input checked="" type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Was Internal COC/Workshare received?
7.	<input checked="" type="radio"/> Y <input type="radio"/> N	Is sample volume sufficient for analysis?	14.	<input checked="" type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Was pH taken by original TestAmerica lab?

For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

Notes: 4. received COC's on 4/11

Corrective Action:

Client Contact Name: _____ Informed by: _____
 Sample(s) processed "as is"
 Sample(s) on hold until: _____ If released, notify: _____
 Project Management Review: [Signature] Date: 6-29-10

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

ADMIN-0004, REVISED 10/21/08 \\Sisvr01\QA\FORMS\ST-LOUISA\ADMIN\Admin004 rev11.doc



TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

GUAM/Uranao

Lot #: F0F110570

Roberta Lenski/Joseph Vinch

US Air Force
Unit 5213 Box 10
APO AP96368-5213
011-81-961-7361
Andersen AFB GU, 96453

TESTAMERICA LABORATORIES, INC.

A handwritten signature in black ink, appearing to read "Ivan Vania", is positioned above the printed name and title.

Ivan Vania
Project Manager

July 9, 2010

Case NarrativeLOT NUMBER: **F0F110570**

This report contains the analytical results for the 26 samples received under chain of custody by TestAmerica St. Louis on June 7, 2010. These samples are associated with your GUAM/Uranao project.

The analytical results included in this report meet all applicable quality control procedure requirements.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by TestAmerica St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. **TestAmerica St. Louis' Florida certification number is E87689.** The case narrative is an integral part of this report.

This report shall not be reproduced, except in full, without the written approval of the laboratory.

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

Observations/Nonconformances

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

There were no nonconformances or observations noted with any analysis on this lot.

METHODS SUMMARY

F0F110570

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Gamma Spectroscopy - Radium-226 & Hits	EML GA-01-R MOD	

References:

EML "ENVIRONMENTAL MEASUREMENTS LABORATORY PROCEDURES MANUAL"
HASL-300 28TH EDITION, VOLUME I and II DEPARTMENT OF ENERGY

SAMPLE SUMMARY

FOF110570

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
L2TAG	001	URUNAO-S-IC-1	05/20/10	13:31
L2TA8	002	URUNAO-S-IC-2	05/20/10	13:40
L2TCD	003	URUNAO-S-IC-3	05/20/10	13:46
L2TCJ	004	URUNAO-S-IC-4	05/20/10	14:03
L2TCL	005	URUNAO-S-IC-5	05/20/10	14:13
L2TCN	006	URUNAO-S-IC-6	05/20/10	14:36
L2TCT	007	URUNAO-S-IC-7	05/20/10	14:48
L2TC0	008	URUNAO-S-IC-8	05/20/10	15:01
L2TC3	009	URUNAO-S-IC-9	05/20/10	15:14
L2TC9	010	URUNAO-S-IC-10	05/20/10	15:30
L2TDE	011	URUNAO-S-IC-11	05/20/10	15:44
L2TDG	012	URUNAO-S-IC-12	05/20/10	16:01
L2TDL	013	URUNAO-S-IC-13	05/20/10	16:09
L2TDP	014	URUNAO-S-ID-1	05/20/10	07:29
L2TDX	015	URUNAO-S-ID-2	05/20/10	07:43
L2TD1	016	URUNAO-S-ID-3	05/20/10	07:53
L2TD4	017	URUNAO-S-ID-4	05/20/10	08:04
L2TD6	018	URUNAO-S-ID-5	05/20/10	08:15
L2TD7	019	URUNAO-S-ID-6	05/20/10	08:32
L2TD9	020	URUNAO-S-ID-7	05/20/10	08:53
L2TED	021	URUNAO-S-ID-8	05/20/10	09:04
L2TEF	022	URUNAO-S-ID-9	05/20/10	09:19
L2TEG	023	URUNAO-S-ID-10	05/20/10	09:28
L2TEJ	024	URUNAO-S-ID-11	05/20/10	09:37
L2TEL	025	URUNAO-S-ID-12	05/20/10	09:51
L2TEM	026	URUNAO-S-ID-13	05/20/10	10:07

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-IC-1

Radiochemistry

Lab Sample ID: FOF110570-001
 Work Order: L2TAG
 Matrix: SOLID

Date Collected: 05/20/10 1331
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166323	Yld %
Potassium 40	0.4	U	1.5		2.7	06/15/10	07/06/10
Radium (226)	16.6		1.3	1.0	0.4	06/15/10	07/06/10
Radium 228	1.20		0.56		0.54	06/15/10	07/06/10
Uranium 235	0.59	U	0.78		1.3	06/15/10	07/06/10
Uranium 238	-0.3	U	8.0		4.9	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	16.6		1.3		0.4	06/15/10	07/06/10
Lead 212	0.67		0.30		0.35	06/15/10	07/06/10
Lead 214	16.9		1.3		0.5	06/15/10	07/06/10
Thallium 208	0.37		0.17		0.19	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-IC-1 DUP

Radiochemistry

Lab Sample ID: F0F110570-001X
 Work Order: L2TAG
 Matrix: SOLID

Date Collected: 05/20/10 1331
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g	Batch # 0166323	Yld %	
Potassium 40	0.5	U	1.4		2.6	06/15/10	07/06/10
Radium (226)	16.7		1.3	1.0	0.4	06/15/10	07/06/10
Radium 228	0.25	U	0.49		0.83	06/15/10	07/06/10
Uranium 235	0.23	U	0.80		1.3	06/15/10	07/06/10
Uranium 238	0.9	U	3.2		5.4	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	16.7		1.3		0.4	06/15/10	07/06/10
Lead 212	0.85		0.26		0.31	06/15/10	07/06/10
Lead 214	16.7		1.3		0.4	06/15/10	07/06/10
Thallium 208	0.51		0.22		0.21	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-IC-2

Radiochemistry

Lab Sample ID: F0F110570-002
 Work Order: L2TA8
 Matrix: SOLID

Date Collected: 05/20/10 1340
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166323	Yld %
Potassium 40	-0.3	U	13		2	06/15/10	07/06/10
Radium (226)	1.68		0.29	1.00	0.16	06/15/10	07/06/10
Radium 228	0.14	U	0.20		0.33	06/15/10	07/06/10
Uranium 235	-0.10	U	0.26		0.44	06/15/10	07/06/10
Uranium 238	0.4	U	1.3		2.2	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	1.68		0.29		0.16	06/15/10	07/06/10
Lead 214	1.55		0.26		0.16	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-IC-3

Radiochemistry

Lab Sample ID: FOF110570-003
 Work Order: L2TCD
 Matrix: SOLID

Date Collected: 05/20/10 1346
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166323	Yld %
Potassium 40	-0.2	U	9.0		1.3	06/15/10	07/06/10
Radium (226)	5.57		0.50	1.00	0.13	06/15/10	07/06/10
Radium 228	0.15	U	0.25		0.41	06/15/10	07/06/10
Uranium 235	0.04	U	0.36		0.61	06/15/10	07/06/10
Uranium 238	-0.03	U	1.6		2.4	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	5.57		0.50		0.13	06/15/10	07/06/10
Lead 212	0.23		0.11		0.15	06/15/10	07/06/10
Lead 214	5.59		0.48		0.24	06/15/10	07/06/10
Thallium 208	0.237		0.092		0.085	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-IC-4

Radiochemistry

Lab Sample ID: F0F110570-004
 Work Order: L2TCJ
 Matrix: SOLID

Date Collected: 05/20/10 1403
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166323	Yld %
Potassium 40	0.3	U	1.4		2.6	06/15/10	07/06/10
Radium (226)	28.1		2.0	1.0	0.5	06/15/10	07/06/10
Radium 228	2.04		0.57		0.74	06/15/10	07/06/10
Uranium 235	1	U	1.1		1.8	06/15/10	07/06/10
Uranium 238	0.9	U	4.1		6.9	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Actinium 228	2.04		0.57		0.74	06/15/10	07/06/10
Bismuth 214	28.1		2.0		0.5	06/15/10	07/06/10
Lead 210	11.6		6.3		7.2	06/15/10	07/06/10
Lead 214	29.7		2.0		0.6	06/15/10	07/06/10
Thallium 208	0.46		0.18		0.19	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-IC-5

Radiochemistry

Lab Sample ID: F0F110570-005
 Work Order: L2TCL
 Matrix: SOLID

Date Collected: 05/20/10 1413
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166323	Yld %
Potassium 40	-0.2	U	3.8		3.9	06/15/10	07/06/10
Radium (226)	34.3		2.5	1.0	0.6	06/15/10	07/06/10
Radium 228	2.04		0.96		0.97	06/15/10	07/06/10
Uranium 235	0.7	U	1.2		2.0	06/15/10	07/06/10
Uranium 238	-1	U	23		9	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Actinium 228	2.04		0.96		0.97	06/15/10	07/06/10
Bismuth 214	34.3		2.5		0.6	06/15/10	07/06/10
Lead 212	1.46		0.39		0.48	06/15/10	07/06/10
Lead 214	35.0		2.4		0.7	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-IC-6

Radiochemistry

Lab Sample ID: FOF110570-006
 Work Order: L2TCN
 Matrix: SOLID

Date Collected: 05/20/10 1436
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166323	Yld %
Potassium 40	0.04	U	0.39		0.85	06/15/10	07/06/10
Radium (226)	1.15		0.17	1.00	0.04	06/15/10	07/06/10
Radium 228	0.0	U	0.15		0.28	06/15/10	07/06/10
Uranium 235	-0.03	U	1.2		0.3	06/15/10	07/06/10
Uranium 238	-0.09	U	0.87		1.2	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	1.15		0.17		0.04	06/15/10	07/06/10
Lead 214	1.01		0.14		0.09	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-IC-7

Radiochemistry

Lab Sample ID: F0F110570-007
 Work Order: L2TCT
 Matrix: SOLID

Date Collected: 05/20/10 1448
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g	Batch # 0166323	Yld %	
Potassium 40	-0.1	U	1.6		1.2	06/15/10	07/06/10
Radium (226)	2.07		0.28	1.00	0.11	06/15/10	07/06/10
Radium 228	0.06	U	0.15		0.27	06/15/10	07/06/10
Uranium 235	0.03	U	0.27		0.47	06/15/10	07/06/10
Uranium 238	0.4	U	1.0		1.8	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	2.07		0.28		0.11	06/15/10	07/06/10
Lead 212	0.113		0.067		0.092	06/15/10	07/06/10
Lead 214	1.63		0.23		0.12	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-IC-8

Radiochemistry

Lab Sample ID: FOF110570-008

Date Collected: 05/20/10 1501

Work Order: L2TC0

Date Received: 06/07/10 0900

Matrix: SOLID

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g	Batch # 0166323		Yld %
Potassium 40	0.12	U	0.50		1.0	06/15/10	07/06/10
Radium (226)	2.34		0.30	1.00	0.16	06/15/10	07/06/10
Radium 228	0.25	U	0.19		0.29	06/15/10	07/06/10
Uranium 235	0.17	U	0.32		0.53	06/15/10	07/06/10
Uranium 238	-0.08	U	1.4		2.2	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	2.34		0.30		0.16	06/15/10	07/06/10
Lead 214	2.49		0.26		0.14	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-IC-9

Radiochemistry

Lab Sample ID: F0F110570-009

Date Collected: 05/20/10 1514

Work Order: L2TC3

Date Received: 06/07/10 0900

Matrix: SOLID

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166323	Yld %
Potassium 40	-0.2	U	140		1	06/15/10	07/06/10
Radium (226)	2.20		0.27	1.00	0.09	06/15/10	07/06/10
Radium 228	0.07	U	0.15		0.26	06/15/10	07/06/10
Uranium 235	-0.02	U	1.1		0.4	06/15/10	07/06/10
Uranium 238	0.1	U	0.84		1.5	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	2.20		0.27		0.09	06/15/10	07/06/10
Lead 214	2.13		0.23		0.12	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-IC-10

Radiochemistry

Lab Sample ID: F0F110570-010
 Work Order: L2TC9
 Matrix: SOLID

Date Collected: 05/20/10 1530
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166323	Yld %
Potassium 40	0.018	U	0.057		0.11	06/15/10	07/06/10
Radium (226)	0.317	J	0.036	1.00	0.008	06/15/10	07/06/10
Radium 228	0.014	U	0.019		0.032	06/15/10	07/06/10
Uranium 235	0.007	U	0.039		0.067	06/15/10	07/06/10
Uranium 238	0.07	U	0.14		0.24	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	0.317		0.036		0.008	06/15/10	07/06/10
Lead 214	0.331		0.034		0.013	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

J Result is greater than sample detection limit but less than stated reporting limit.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-IC-11

Radiochemistry

Lab Sample ID: F0F110570-011
 Work Order: L2TDE
 Matrix: SOLID

Date Collected: 05/20/10 1544
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g	Batch # 0166323		Yld %
Potassium 40	-0.03	U	0.57		1.0	06/15/10	07/06/10
Radium (226)	1.16		0.20	1.00	0.18	06/15/10	07/06/10
Radium 228	0.08	U	0.16		0.27	06/15/10	07/06/10
Uranium 235	0.15	U	0.25		0.42	06/15/10	07/06/10
Uranium 238	1.1	U	1.0		1.7	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	1.16		0.20		0.18	06/15/10	07/06/10
Lead 214	1.52		0.22		0.12	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-IC-12

Radiochemistry

Lab Sample ID: F0F110570-012
 Work Order: L2TDG
 Matrix: SOLID

Date Collected: 05/20/10 1601
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g	Batch # 0166323		Yld %
Potassium 40	-0.2	U	7.6		1.4	06/15/10	07/06/10
Radium (226)	2.87		0.34	1.00	0.14	06/15/10	07/06/10
Radium 228	0.0	U	0.13		0.25	06/15/10	07/06/10
Uranium 235	0.05	U	0.29		0.49	06/15/10	07/06/10
Uranium 238	1	U	1.2		2.0	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	2.87		0.34		0.14	06/15/10	07/06/10
Lead 214	3.04		0.33		0.17	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-IC-13

Radiochemistry

Lab Sample ID: FOF110570-013
 Work Order: L2TDL
 Matrix: SOLID

Date Collected: 05/20/10 1609
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g	Batch # 0166323		Yld %
Potassium 40	0.18	U	0.66		1.3	06/15/10	07/06/10
Radium (226)	4.53		0.46	1.00	0.20	06/15/10	07/06/10
Radium 228	0.1	U	0.21		0.37	06/15/10	07/06/10
Uranium 235	0.29	U	0.37		0.61	06/15/10	07/06/10
Uranium 238	1.4	U	1.5		2.5	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	4.53		0.46		0.20	06/15/10	07/06/10
Lead 212	0.182		0.096		0.14	06/15/10	07/06/10
Lead 214	5.14		0.46		0.20	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-ID-1

Radiochemistry

Lab Sample ID: F0F110570-014
 Work Order: L2TDP
 Matrix: SOLID

Date Collected: 05/20/10 0729
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g	Batch # 0166323		Yld %
Potassium 40	-0.2	U	9.9		2.4	06/15/10	07/06/10
Radium (226)	0.59	J	0.15	1.00	0.11	06/15/10	07/06/10
Radium 228	0.05	U	0.15		0.29	06/15/10	07/06/10
Uranium 235	0.06	U	0.18		0.32	06/15/10	07/06/10
Uranium 238	0.14	U	0.64		1.2	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	0.59		0.15		0.11	06/15/10	07/06/10
Lead 214	0.69		0.13		0.14	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

J Result is greater than sample detection limit but less than stated reporting limit.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-ID-2

Radiochemistry

Lab Sample ID: FOF110570-015
 Work Order: L2TDX
 Matrix: SOLID

Date Collected: 05/20/10 0743
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g	Batch # 0166323		Yld %
Potassium 40	-0.1	U	2.7		1.4	06/15/10	07/06/10
Radium (226)	2.07		0.29	1.00	0.12	06/15/10	07/06/10
Radium 228	0.06	U	0.19		0.35	06/15/10	07/06/10
Uranium 235	0.17	U	0.21		0.35	06/15/10	07/06/10
Uranium 238	1.9		1.2		1.6	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	2.07		0.29		0.12	06/15/10	07/06/10
Lead 214	2.02		0.23		0.12	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-ID-3

Radiochemistry

Lab Sample ID: FOF110570-016
 Work Order: L2TD1
 Matrix: SOLID

Date Collected: 05/20/10 0753
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166323	Yld %
Potassium 40	-0.3	U	13		1	06/15/10	07/06/10
Radium (226)	1.40		0.21	1.00	0.18	06/15/10	07/06/10
Radium 228	0.005	U	0.13		0.26	06/15/10	07/06/10
Uranium 235	0.07	U	0.24		0.41	06/15/10	07/06/10
Uranium 238	0.68	U	0.90		1.5	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	1.40		0.21		0.18	06/15/10	07/06/10
Lead 214	1.60		0.23		0.15	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-ID-4

Radiochemistry

Lab Sample ID: FOF110570-017
 Work Order: L2TD4
 Matrix: SOLID

Date Collected: 05/20/10 0804
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166323	Yld %
Potassium 40	0.20	U	0.75		1.5	06/15/10	07/06/10
Radium (226)	3.50		0.42	1.00	0.16	06/15/10	07/06/10
Radium 228	0.28	U	0.23		0.35	06/15/10	07/06/10
Uranium 235	0.05	U	0.35		0.60	06/15/10	07/06/10
Uranium 238	0.3	U	1.4		2.4	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	3.50		0.42		0.16	06/15/10	07/06/10
Lead 214	3.19		0.39		0.22	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-ID-5

Radiochemistry

Lab Sample ID: FOF110570-018
 Work Order: L2TD6
 Matrix: SOLID

Date Collected: 05/20/10 0815
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166323	Yld %
Potassium 40	0.11	U	0.51		1.1	06/15/10	07/06/10
Radium (226)	0.70	J	0.16	1.00	0.1	06/15/10	07/06/10
Radium 228	0.0	U	0.15		0.30	06/15/10	07/06/10
Uranium 235	0.02	U	0.16		0.29	06/15/10	07/06/10
Uranium 238	0.2	U	1.0		1.8	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	0.70		0.16		0.1	06/15/10	07/06/10
Lead 214	0.66		0.15		0.10	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

J Result is greater than sample detection limit but less than stated reporting limit.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-ID-6

Radiochemistry

Lab Sample ID: F0F110570-019
 Work Order: L2TD7
 Matrix: SOLID

Date Collected: 05/20/10 0832
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166323	Yld %
Potassium 40	0.2	U	1.1		2.1	06/15/10	07/06/10
Radium (226)	14.2		1.2	1.0	0.4	06/15/10	07/06/10
Radium 228	0.97		0.51		0.74	06/15/10	07/06/10
Uranium 235	-0.09	U	2.8		1.2	06/15/10	07/06/10
Uranium 238	1.4	U	2.8		4.7	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	14.2		1.2		0.4	06/15/10	07/06/10
Lead 212	1.01		0.26		0.29	06/15/10	07/06/10
Lead 214	14.9		1.1		0.4	06/15/10	07/06/10
Thallium 208	0.42		0.15		0.15	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-ID-7

Radiochemistry

Lab Sample ID: F0F110570-020
 Work Order: L2TD9
 Matrix: SOLID

Date Collected: 05/20/10 0853
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166323	Yld %
Potassium 40	-0.4	U	2.8		1.1	06/15/10	07/06/10
Radium (226)	1.33		0.20	1.00	0.06	06/15/10	07/06/10
Radium 228	0.02	U	0.17		0.31	06/15/10	07/06/10
Uranium 235	0.06	U	0.22		0.38	06/15/10	07/06/10
Uranium 238	-0.4	U	2.7		1.6	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	1.33		0.20		0.06	06/15/10	07/06/10
Lead 214	1.32		0.20		0.12	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-ID-8

Radiochemistry

Lab Sample ID: F0F110570-021
 Work Order: L2TED
 Matrix: SOLID

Date Collected: 05/20/10 0904
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD					pCi/g	Batch # 0166324 Yld %	
Potassium 40	0.13	U	0.59		1.2	06/15/10	07/06/10
Radium (226)	3.22		0.37	1.00	0.13	06/15/10	07/06/10
Radium 228	-0.008	U	0.20		0.38	06/15/10	07/06/10
Uranium 235	0.005	U	0.38		0.66	06/15/10	07/06/10
Uranium 238	1.6	U	1.4		1.9	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	3.22		0.37		0.13	06/15/10	07/06/10
Lead 214	3.26		0.32		0.20	06/15/10	07/06/10
Thallium 208	0.140		0.046		0.027	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-ID-9

Radiochemistry

Lab Sample ID: F0F110570-022
 Work Order: L2TEF
 Matrix: SOLID

Date Collected: 05/20/10 0919
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD					pCi/g	Batch # 0166324	Yld %
Potassium 40	-0.09	U	0.82		1.1	06/15/10	07/06/10
Radium (226)	2.35		0.28	1.00	0.14	06/15/10	07/06/10
Radium 228	0.38		0.16		0.13	06/15/10	07/06/10
Uranium 235	0.09	U	0.28		0.47	06/15/10	07/06/10
Uranium 238	0.05	U	1.1		1.9	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Actinium 228	0.38		0.16		0.13	06/15/10	07/06/10
Bismuth 214	2.35		0.28		0.14	06/15/10	07/06/10
Lead 214	2.41		0.29		0.18	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-ID-10

Radiochemistry

Lab Sample ID: FOF110570-023
 Work Order: L2TEG
 Matrix: SOLID

Date Collected: 05/20/10 0928
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166324	Yld %
Potassium 40	0.006	U	0.57		1.2	06/15/10	07/06/10
Radium (226)	3.49		0.39	1.00	0.15	06/15/10	07/06/10
Radium 228	0.16	U	0.20		0.32	06/15/10	07/06/10
Uranium 235	-0.003	U	0.40		0.52	06/15/10	07/06/10
Uranium 238	0.5	U	1.3		2.2	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	3.49		0.39		0.15	06/15/10	07/06/10
Lead 212	0.22		0.11		0.14	06/15/10	07/06/10
Lead 214	4.07		0.41		0.21	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-ID-11

Radiochemistry

Lab Sample ID: FOF110570-024
 Work Order: L2TEJ
 Matrix: SOLID

Date Collected: 05/20/10 0937
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166324	Yld %
Potassium 40	0.03	U	0.69		1.4	06/15/10	07/06/10
Radium (226)	4.46		0.46	1.00	0.21	06/15/10	07/06/10
Radium 228	0.10	U	0.23		0.41	06/15/10	07/06/10
Uranium 235	-0.02	U	24		0.6	06/15/10	07/06/10
Uranium 238	0.7	U	1.5		2.5	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	4.46		0.46		0.21	06/15/10	07/06/10
Lead 214	4.67		0.43		0.21	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-ID-12

Radiochemistry

Lab Sample ID: FOF110570-025
 Work Order: L2TEL
 Matrix: SOLID

Date Collected: 05/20/10 0951
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166324	Yld %
Potassium 40	-0.3	U	3.7		1.5	06/15/10	07/06/10
Radium (226)	2.34		0.33	1.00	0.18	06/15/10	07/06/10
Radium 228	0.05	U	0.19		0.34	06/15/10	07/06/10
Uranium 235	-0.09	U	0.49		0.48	06/15/10	07/06/10
Uranium 238	-0.3	U	4.3		1.9	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	2.34		0.33		0.18	06/15/10	07/06/10
Lead 214	2.58		0.31		0.12	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-ID-13

Radiochemistry

Lab Sample ID: F0F110570-026
 Work Order: L2TEM
 Matrix: SOLID

Date Collected: 05/20/10 1007
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0166324	Yld %
Potassium 40	-0.3	U	140		1	06/15/10	07/06/10
Radium (226)	1.71		0.28	1.00	0.16	06/15/10	07/06/10
Radium 228	0.14	U	0.16		0.25	06/15/10	07/06/10
Uranium 235	0.06	U	0.23		0.40	06/15/10	07/06/10
Uranium 238	0.1	U	1.1		2.0	06/15/10	07/06/10
--- Other Detected Radionuclides ---							
Bismuth 214	1.71		0.28		0.16	06/15/10	07/06/10
Lead 214	1.94		0.25		0.11	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

METHOD BLANK REPORT

Radiochemistry

Client Lot ID: F0F110570

Matrix: SOLID

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	MDC	Prep Date	Lab Sample ID Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD			pCi/g	Batch #	0166324	Yld %	F0F150000-324B
Potassium 40	0.02	U	0.28		0.74	06/15/10	07/06/10
Radium (226)	0.062	U	0.054	1.00	0.078	06/15/10	07/06/10
Radium 228	0.045	U	0.090		0.16	06/15/10	07/06/10
Uranium 235	-0.03	U	2.4		0.2	06/15/10	07/06/10
Uranium 238	-0.18	U	0.82		0.95	06/15/10	07/06/10
Gamma Ra-226 & Hits By DOE GA-010R MOD			pCi/g	Batch #	0166323	Yld %	F0F150000-323B
Potassium 40	0.10	U	0.35		0.84	06/15/10	07/06/10
Radium (226)	0.030	U	0.091	1.00	0.18	06/15/10	07/06/10
Radium 228	0.08	U	0.14		0.24	06/15/10	07/06/10
Uranium 235	0.0	U	0.22		0.39	06/15/10	07/06/10
Uranium 238	0.58	U	0.72		1.2	06/15/10	07/06/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined using instrument performance only
Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Laboratory Control Sample Report

Radiochemistry

Client Lot ID: F0F110570
 Matrix: SOLID

Parameter	Spike Amount	Result	Total Uncert. (2 σ +/-)	MDC	% Yld	% Rec	Lab Sample ID QC Control Limits
Gamma Ra-226 & Hits By DOE GA-010R MOD							
			pCi/g	GA-01-R MOD			F0F150000-323C
Radium (226)	12.2	11.0	0.996	0.45		90	(79 - 110)
Thorium 232	9.50	10.3	1.1	0.5		108	(89 - 121)
	Batch #:	0166323		Analysis Date:	07/06/10		
Gamma Ra-226 & Hits By DOE GA-010R MOD							
			pCi/g	GA-01-R MOD			F0F150000-324C
Radium (226)	12.2	11.2	1.1	0.4		92	(79 - 110)
Thorium 232	9.50	10.2	1.2	0.8		108	(89 - 121)
	Batch #:	0166324		Analysis Date:	07/06/10		

NOTE(S)

MDC is determined by instrument performance only
 Calculations are performed before rounding to avoid round-off error in calculated results
 LOT# F0F110570

DUPLICATE EVALUATION REPORT

Radiochemistry

Client Lot ID: FOF110570

Date Sampled: 05/20/10

Matrix: SOLID

Date Received: 06/07/10

Parameter	SAMPLE Result	Total Uncert. (2σ +/-)	% Yld	DUPLICATE Result	Total Uncert. (2σ +/-)	% Yld	QC Sample ID	
							Precision	
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		GA-01-R MOD		FOF110570-001
Potassium 40	0.4	U	1.5	0.5	U	1.4	2	%RPD
Radium (226)	16.6		1.3	16.7		1.3	0.7	%RPD
Radium 228	1.20		0.56	0.25	U	0.49	132	%RPD
Uranium 235	0.59	U	0.78	0.23	U	0.80	88	%RPD
Uranium 238	-0.3	U	8.0	0.9	U	3.2	406	%RPD
---Other Dedected Radionuclides---								
Bismuth 214	16.6		1.3	16.7		1.3	0.7	%RPD
Lead 212	0.67		0.30	0.85		0.26	23	%RPD
Lead 214	16.9		1.3	16.7		1.3	1	%RPD
Thallium 208	0.37		0.17	0.51		0.22	31	%RPD
Batch #:			0166323 (Sample)	0166323 (Duplicate)				
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		GA-01-R MOD		FOF110566-021
Potassium 40	0.5	U	1.2	0.32	U	0.95	48	%RPD
Radium (226)	12.8		1.1	12.3		0.97	4	%RPD
Radium 228	1.54		0.50	1.34		0.49	14	%RPD
Uranium 235	-0.27	U	0.73	-0.07	U	13	119	%RPD
Uranium 238	0.9	U	2.6	0.2	U	2.6	119	%RPD
---Other Dedected Radionuclides---								
Actinium 228	1.54		0.50	1.34		0.49	14	%RPD
Bismuth 214	12.8		1.1	12.3		0.97	4	%RPD
Lead 212	0.88		0.22	0.62		0.22	35	%RPD
Lead 214	12.6		0.94	12.8		0.997	1	%RPD
Thallium 208	0.30		0.12	0.31		0.12	4	%RPD
Batch #:			0166324 (Sample)	0166324 (Duplicate)				

NOTE(S)

Data are incomplete without the case narrative.

Calculations are performed before rounding to avoid round-off error in calculated results

U Result is less than the sample detection limit.

F0F110570

CLIENT ANALYSIS SUMMARY

Storage Loc:

RAD

Project Manager: IV

Quote #: 86421 SDG;

Date Received: 2010-06-07

Project:

GUAM/Uranao Dumpsites 1&2

Analytical Due Date: 2010-07-08

PO#: TO 107/123350

Report to: Joseph Strzampka

Report Due Date: 2010-07-09

Client: 1431288 Defense Finance & Accounting Service

Report Type: D Expanded Deliverable

#SMPS In LOT: 26

EDD Code: 00

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
1	URUNAO-S-IC-1			2010-05-20 / 1331	L2TAG	SOLID
SAMPLE COMMENTS:						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Spectral L	RA	IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & H11a	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ DOD QSM V3	PROT: A WRK LOC 06
X XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & H11a	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ DOD QSM V3	PROT: A WRK LOC 06
2	URUNAO-S-IC-2			2010-05-20 / 1340	L2TAB	SOLID
SAMPLE COMMENTS:						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Spectral L	RA	IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & H11a	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ DOD QSM V3	PROT: A WRK LOC 06
3	URUNAO-S-IC-3			2010-05-20 / 1346	L2TCD	SOLID
SAMPLE COMMENTS:						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Spectral L	RA	IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & H11a	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ DOD QSM V3	PROT: A WRK LOC 06
4	URUNAO-S-IC-4			2010-05-20 / 1403	L2TCJ	SOLID
SAMPLE COMMENTS:						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Spectral L	RA	IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & H11a	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ DOD QSM V3	PROT: A WRK LOC 06
5	URUNAO-S-IC-5			2010-05-20 / 1413	L2TCL	SOLID
SAMPLE COMMENTS:						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Spectral L	RA	IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & H11a	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ DOD QSM V3	PROT: A WRK LOC 06
6	URUNAO-S-IC-6			2010-05-20 / 1436	L2TCN	SOLID
SAMPLE COMMENTS:						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Spectral L	RA	IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & H11a	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ DOD QSM V3	PROT: A WRK LOC 06
7	URUNAO-S-IC-7			2010-05-20 / 1448	L2TCT	SOLID
SAMPLE COMMENTS:						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Spectral L	RA	IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & H11a	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ DOD QSM V3	PROT: A WRK LOC 06

TestAmerica - St. Louis

Logged In by: VANIAI

2010-06-29

18:35:59

Printed on: Tuesday, July 06, 2010 04:42 PM

Page 1 of 4

F0F110570

CLIENT ANALYSIS SUMMARY

Storage Loc:

RAD

Project Manager: IV

Quote #: 86421 SDG:

Date Received: 2010-06-07

Project:

GUAM/Uranac Dumpsites 1&2

Analytical Due Date: 2010-07-08

PO#: TO 107/123360

Report to: Joseph Sirzempka

Report Due Date: 2010-07-09

Client: 1431288 Defense Finance & Accounting Service

#SMPS in LOT: 26

Report Type: D Expanded Deliverable
EDD Code: 00

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
8	URUNAO-S-IC-8			2010-05-20 / 1501	L2TC0	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & H11s	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
9	URUNAO-S-IC-9			2010-05-20 / 1514	L2TC3	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & H11s	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
10	URUNAO-S-IC-10			2010-05-20 / 1530	L2TC9	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & H11s	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
11	URUNAO-S-IC-11			2010-05-20 / 1544	L2TDE	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & H11s	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
12	URUNAO-S-IC-12			2010-05-20 / 1601	L2TDG	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & H11s	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
13	URUNAO-S-IC-13			2010-05-20 / 1609	L2TDL	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & H11s	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
14	URUNAO-S-ID-1			2010-05-20 / 729	L2TDP	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & H11s	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
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TestAmerica - St. Louis

Logged in by: VANIAI

2010-06-29

16:35:59

printed on: Tuesday, July 06, 2010 04:42 PM

Page 2 of 4

F0F110570**CLIENT ANALYSIS SUMMARY**

Storage Loc:

RAD

Project Manager: IV

Quote #: 86421 SDG:

Date Received: 2010-06-07

Project:

GUAM/Uranao Dumpsites 1&2

Analytical Due Date: 2010-07-08

PO#: TO 107/123350

Report to: Joseph Strzempka

Report Due Date: 2010-07-09

Client: 1431288 Defense Finance & Accounting Service

Report Type: D Expanded Deliverable

#SMPS In LOT: 26

EDD Code: 00

15 URUNAO-S-ID-2

2010-05-20 / 743

L2TDX SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlls	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
16	URUNAO-S-ID-3			2010-05-20 / 753	L2TD1	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlls	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
17	URUNAO-S-ID-4			2010-05-20 / 804	L2TD4	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlls	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
18	URUNAO-S-ID-5			2010-05-20 / 815	L2TD6	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlls	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
19	URUNAO-S-ID-6			2010-05-20 / 832	L2TD7	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlls	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
20	URUNAO-S-ID-7			2010-05-20 / 853	L2TD9	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlls	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
21	URUNAO-S-ID-8			2010-05-20 / 904	L2TED	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlls	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
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F0F110570

CLIENT ANALYSIS SUMMARY

Storage Loc: RAD
 Date Received: 2010-06-07
 Analytical Due Date: 2010-07-08
 Report Due Date: 2010-07-09
 Report Type: D Expanded Deliverable
 EDD Code: 00

Project Manager: IV Quote #: 86421 SDG:
 Project: GUAM/Uranao Dumpsites 1&2
 PO#: TO 107/123350 Report to: Joseph Strzempka
 Client: 1431288 Defense Finance & Accounting Service

#SMPS In LOT: 26

22 URUNAO-S-ID-9 2010-05-20/ 919 L2TEF SOLID

SAMPLE COMMENTS:

XX	ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
23	URUNAO-S-ID-10			2010-05-20/ 928	L2TEG	SOLID

SAMPLE COMMENTS:

XX	ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
24	URUNAO-S-ID-11			2010-05-20/ 937	L2TEJ	SOLID

SAMPLE COMMENTS:

XX	ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
25	URUNAO-S-ID-12			2010-05-20/ 951	L2TEL	SOLID

SAMPLE COMMENTS:

XX	ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
26	URUNAO-S-ID-13			2010-05-20/ 1007	L2TEM	SOLID

SAMPLE COMMENTS:

XX	ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

St. Louis
 13715 Rider Trail North
 Earth City, MO 63045
 phone 314.298.8566 fax 314.298.8757

Chain of Custody Record



TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Ivan Vanix			Site Contact:		Date:		COC No:	
US Air Force		Tel/Fax: (314) 298-8566			Lab Contact:		Carrier:		2 of 25 COCs	
Unit S213, Box 10		Analysis Turnaround Time			Filtered Sample					
APO, AP 96368-5213		Calendar (C) or Work Days (W) <u>C</u>								
011-81-961-7361		TAT if different from below <u>45 D</u>								
roberta.lenski@us.af.mil		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day								
Project Name: Urunao Site Final Status Survey		Sample Date			Sample Time		Sample Type		Matrix	
Site: Urunao Site, Andersen AB, Guam		Sample Date			Sample Time		Sample Type		Matrix	
P O #		Sample Date			Sample Time		Sample Type		Matrix	
Sample Identification		Sample Date			Sample Time		Sample Type		Matrix	
Urunao-S-1C-1; coords: 144.838423966/13.612659415		20-May-10			01:31:27pm		Soil Sample		1C 1	
Urunao-S-1C-2; coords: 144.838778450/13.612795941		20-May-10			01:50:21pm		Soil Sample		1C 1	
Urunao-S-1C-3; coords: 144.838848355/13.612959927		20-May-10			01:46:20pm		Soil Sample		1C 1	
Urunao-S-1C-4; coords: 144.838780572/13.612349825		20-May-10			02:03:11pm		Soil Sample		1C 1	
Urunao-S-1C-5; coords: 144.838631083/13.612021454		20-May-10			02:13:36pm		Soil Sample		1C 1	
Urunao-S-1C-6; coords: 144.839109643/13.612124216		20-May-10			02:36:34pm		Soil Sample		1C 1	
Urunao-S-1C-7; coords: 144.839133237/13.612259366		20-May-10			02:48:25pm		Soil Sample		1C 1	
Urunao-S-1C-8; coords: 144.839263677/13.612847681		20-May-10			03:01:44pm		Soil Sample		1C 1	
Urunao-S-1C-9; coords: 144.839464153/13.612623278		20-May-10			03:14:31pm		Soil Sample		1C 1	
Urunao-S-1C-10; coords: 144.839437258/13.612300926		20-May-10			03:30:36pm		Soil Sample		1C 1	
Urunao-S-1C-11; coords: 144.839425790/13.612182453		20-May-10			03:44:36pm		Soil Sample		1C 1	
Urunao-S-1C-12; coords: 144.839478771/13.612155732		20-May-10			04:01:22pm		Soil Sample		1C 1	
Urunao-S-1C-13; coords: 144.839470996/13.612130207		28-May-10			04:09:05pm		Soil Sample		1C 1	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other										
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					<input checked="" type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements & Comments: (Analyze for Ra-226. Report results in pCi/g. Return samples to US Air Force—address TBD—after analysis.)										
Relinquished by: <u>ROBERTA LENSKI</u>		Company: <u>USAF</u>		Date/Time: <u>26 MAY 10 1445</u>		Received by: <u>WILLIAM P MITCHELL</u>		Company: <u>USAF</u>		Date/Time: <u>26 MAY 10 1445</u>
Relinquished by: <u>WILLIAM P MITCHELL</u>		Company: <u>USAF</u>		Date/Time: <u>6-7-10 0900</u>		Received by: <u>Bill Clark</u>		Company: <u>TA-JR</u>		Date/Time: <u>6-7-10 0900</u>
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:

Attachment 14: TestAmerica Results for Survey Units 1C and 1D

TestAmerica St. Louis

LOT# FOF110570

St. Louis
13713 Rider Trail North
Earth City, MO 63045
phone 314.298.8566 fax 314.298.8757

Chain of Custody Record



TestAmerica Laboratories, Inc.

LOT# F0F110570

Client Contact		Project Manager: Ivan Vania		Site Contact:		Date:		COC No:	
US Air Force		Tel/Fax: (314) 298-8566		Lab Contact:		Carrier:		1 of 2 COCs	
Unit 5213, Box 10		Analysis Turnaround Time		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Pallet Sample (Grid for sample tracking)		Job No.	
APO, AP 96368-5213		Calendar (C) or Work Days (W) <u>C</u>						SDG No.	
011-81-861-7361		TAT if different from Below <u>35.0</u>						Sample Specific Notes:	
roberta.lenski@us.af.mil									
Project Name: Urunao Site Final Status Survey									
Site: Urunao Site, Andersen AB, Guam									
P O #									
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.			
Urunao-S-1D-1; coords: 144.840897062/13.612014937		20-May-10	07:29:44am	Soil Sample	1D	1	N/A		
Urunao-S-1D-2; coords: 144.840902359/13.612403163		20-May-10	07:31:17am	Soil Sample	1D	1	N/A		
Urunao-S-1D-3; coords: 144.840880050/13.612917033		20-May-10	07:52:07am	Soil Sample	1D	1	N/A		
Urunao-S-1D-4; coords: 144.840645557/13.612597725		20-May-10	08:04:08am	Soil Sample	1D	1	N/A		
Urunao-S-1D-5; coords: 144.840581828/13.612046751		20-May-10	08:15:38am	Soil Sample	1D	1	N/A		
Urunao-S-1D-6; coords: 144.840408783/13.612216436		20-May-10	08:32:32am	Soil Sample	1D	1	N/A		
Urunao-S-1D-7; coords: 144.840040503/13.612168814		20-May-10	08:53:35am	Soil Sample	1D	1	N/A		
Urunao-S-1D-8; coords: 144.840270395/13.612928595		20-May-10	09:04:59am	Soil Sample	1D	1	N/A		
Urunao-S-1D-9; coords: 144.839939215/13.612700734		20-May-10	09:19:58am	Soil Sample	1D	1	N/A		
Urunao-S-1D-10; coords: 144.839943808/13.612633720		20-May-10	09:28:15am	Soil Sample	1D	1	N/A		
Urunao-S-1D-11; coords: 144.839861127/13.612250723		20-May-10	09:37:37am	Soil Sample	1D	1	N/A		
Urunao-S-1D-12; coords: 144.839760184/13.612060118		20-May-10	09:51:46am	Soil Sample	1D	1	N/A		
Urunao-S-1D-13; coords: 144.839725909/13.612861855		20-May-10	10:07:52am	Soil Sample	1D	1	N/A		
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other								N/A	
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown				<input checked="" type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements & Comments: (Analyze for Ra-226. Report results in pCi/g. Return samples to US Air Force—address TBD—after analysis.)									
Relinquished by:		Company:		Date/Time:		Received by:		Company:	
<i>[Signature]</i>		USAF		26 MAY 10 / 1445		<i>[Signature]</i>		USAF	
Relinquished by:		Company:		Date/Time:		Received by:		Company:	
<i>[Signature]</i>		USAF		6-7-10 0900		<i>[Signature]</i>		TA-SPL	
Relinquished by:		Company:		Date/Time:		Received by:		Company:	

Attachment 14: TestAmerica Results for Survey Units 1C and 1D

TestAmerica St. Louis



Lot # (s): F0F110566
576
574
580

CONDITION UPON RECEIPT FORM

Client: St. Louis E&I

Quote No: 76681

COC/RFA No: N/A

Initiated By: NVO

478

Date: 6/5/10 Time: 0830

Shipping Information

Shipper: FedEx UPS DHL Courier Client Other: _____ Multiple Packages: Y N

Shipping # (s):*	Sample Temperature (s):**
1. <u>863937592573</u>	1. <u>AMBIENT</u>
2. _____	2. _____
3. _____	3. _____
4. _____	4. _____
5. _____	5. _____

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Samples must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1. Y <input checked="" type="radio"/> N	Are there custody seals present on the cooler?	8. Y <input checked="" type="radio"/> N	Are there custody seals present on bottles?
2. Y N <input checked="" type="radio"/> N/A	Do custody seals on cooler appear to be tampered with?	9. Y N <input checked="" type="radio"/> N/A	Do custody seals on bottles appear to be tampered with?
3. <input checked="" type="radio"/> Y N	Were contents of cooler frisked after opening, but before unpacking?	10. Y N <input checked="" type="radio"/> N/A	Was sample received with proper pH? (If not, make note below)
4. Y <input checked="" type="radio"/> N	Sample received with Chain of Custody?	11. <input checked="" type="radio"/> Y N	Sample received in proper containers?
5. <input checked="" type="radio"/> Y N N/A	Does the Chain of Custody match sample ID's on the container(s)?	12. Y N <input checked="" type="radio"/> N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
6. Y <input checked="" type="radio"/> N	Was sample received broken?	13. Y N <input checked="" type="radio"/> N/A	Was Internal COC/Workshare received?
7. <input checked="" type="radio"/> Y N	Is sample volume sufficient for analysis?	14. Y N <input checked="" type="radio"/> N/A	Was pH taken by original TestAmerica lab?

For DOB-AL (Pantox, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

Notes: 4. received COC's on 6/6/10

Corrective Action:

- Client Contact Name: _____
 - Sample(s) processed "as is"
 - Sample(s) on hold until: _____
- Project Management Review: [Signature]

Informed by: _____

If released, notify: _____ Date: 6-29-10

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

ADMIN-0004 REVISED 10/21/08 \\slsvr01\QA\FORMS\ST-LOUIS\ADMIN\Admin004 rev11.doc



TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

GUAM/Uranao

Lot #: F0F110574

Roberta Lenski/Joseph Vinch

US Air Force
Unit 5213 Box 10
APO AP96368-5213
011-81-961-7361
Andersen AFB GU, 96453

TESTAMERICA LABORATORIES, INC.

A handwritten signature in black ink, appearing to read "Ivan Vania", is written over a light gray horizontal line.

Ivan Vania
Project Manager

July 9, 2010

Case Narrative
LOT NUMBER: F0F110574

This report contains the analytical results for the 26 samples received under chain of custody by TestAmerica St. Louis on June 7, 2010. These samples are associated with your GUAM/Uraao project.

The analytical results included in this report meet all applicable quality control procedure requirements.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by TestAmerica St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. **TestAmerica St. Louis' Florida certification number is E87689.** The case narrative is an integral part of this report.

This report shall not be reproduced, except in full, without the written approval of the laboratory.

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

Observations/Nonconformances

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

There were no nonconformances or observations noted with any analysis on this lot.

METHODS SUMMARY

F0F110574

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Gamma Spectroscopy - Radium-226 & Hits	EML GA-01-R MOD	

References:

EML "ENVIRONMENTAL MEASUREMENTS LABORATORY PROCEDURES MANUAL,"
HASL-300 28TH EDITION, VOLUME I and II DEPARTMENT OF ENERGY

SAMPLE SUMMARY

FOF110574

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
L2TA7	001	URUNAO-S-2A-1	05/22/10	07:19
L2TDD	002	URUNAO-S-2A-2	05/22/10	07:27
L2TD3	003	URUNAO-S-2A-3	05/22/10	07:35
L2TD5	004	URUNAO-S-2A-4	05/22/10	07:41
L2TD8	005	URUNAO-S-2A-5	05/22/10	07:48
L2TEC	006	URUNAO-S-2A-6	05/22/10	07:55
L2TEE	007	URUNAO-S-2A-7	05/22/10	08:04
L2TEH	008	URUNAO-S-2A-8	05/22/10	08:20
L2TEK	009	URUNAO-S-2A-9	05/22/10	08:39
L2TEN	010	URUNAO-S-2A-10	05/22/10	09:02
L2TEP	011	URUNAO-S-2A-11	05/21/10	11:58
L2TET	012	URUNAO-S-2A-12	05/21/10	12:05
L2TE0	013	URUNAO-S-2A-13	05/21/10	12:15
L2TE5	014	URUNAO-S-2B-1	05/21/10	15:41
L2TFC	015	URUNAO-S-2B-2	05/21/10	15:52
L2TFE	016	URUNAO-S-2B-3	05/21/10	16:02
L2TFK	017	URUNAO-S-2B-4	05/21/10	16:14
L2TFN	018	URUNAO-S-2B-5	05/22/10	09:11
L2TFW	019	URUNAO-S-2B-6	05/22/10	09:20
L2TF1	020	URUNAO-S-2B-7	05/22/10	09:27
L2TF3	021	URUNAO-S-2B-8	05/22/10	09:46
L2TF5	022	URUNAO-S-2B-9	05/22/10	10:08
L2TF8	023	URUNAO-S-2B-10	05/22/10	10:22
L2TGA	024	URUNAO-S-2B-1.1	05/22/10	10:44
L2TGF	025	URUNAO-S-2B-12	05/22/10	11:19
L2TGQ	026	URUNAO-S-2B-1.3	05/22/10	11:35

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-2A-1

Radiochemistry

Lab Sample ID: FOF110574-001
 Work Order: L2TA7
 Matrix: SOLID

Date Collected: 05/22/10 0719
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD							
Potassium 40	0.002	U	1.0		2.0	06/16/10	07/07/10
Radium (226)	13.7		1.0	1.0	0.3	06/16/10	07/07/10
Radium 228	0.44	U	0.34		0.53	06/16/10	07/07/10
Uranium 235	0.12	U	0.65		1.1	06/16/10	07/07/10
Uranium 238	0.9	U	2.6		4.4	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	13.7		1.0		0.3	06/16/10	07/07/10
Cesium 137	0.159		0.099		0.15	06/16/10	07/07/10
Lead 212	0.39		0.18		0.24	06/16/10	07/07/10
Lead 214	14.7		1.1		0.3	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-2A-1 DUP

Radiochemistry

Lab Sample ID: FOF110574-001X
 Work Order: L2TA7
 Matrix: SOLID

Date Collected: 05/22/10 0719
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0167376	Yld %
Potassium 40	-0.4	U	16		3	06/16/10	07/07/10
Radium (226)	14.0		1.1	1.0	0.3	06/16/10	07/07/10
Radium 228	0.38	U	0.40		0.64	06/16/10	07/07/10
Uranium 235	0.34	U	0.78		1.3	06/16/10	07/07/10
Uranium 238	0.5	U	2.9		4.9	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	14.0		1.1		0.3	06/16/10	07/07/10
Cesium 137	0.24		0.12		0.12	06/16/10	07/07/10
Lead 212	0.40		0.25		0.31	06/16/10	07/07/10
Lead 214	14.5		1.1		0.3	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-2A-2

Radiochemistry

Lab Sample ID: F0F110574-002
 Work Order: L2TDD
 Matrix: SOLID

Date Collected: 05/22/10 0727
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0167376	Yld %
Potassium 40	-0.2	U	8.3		2.5	06/16/10	07/07/10
Radium (226)	7.09		0.64	1.00	0.21	06/16/10	07/07/10
Radium 228	0.14	U	0.27		0.46	06/16/10	07/07/10
Uranium 235	0.02	U	0.45		0.76	06/16/10	07/07/10
Uranium 238	1.0	U	1.8		3.0	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	7.09		0.64		0.21	06/16/10	07/07/10
Lead 214	7.36		0.63		0.28	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-2A-3

Radiochemistry

Lab Sample ID: F0F110574-003
 Work Order: L2TD3
 Matrix: SOLID

Date Collected: 05/22/10 0735
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0167376	Yld %
Potassium 40	0.29	U	0.89		1.6	06/16/10	07/07/10
Radium (226)	9.94		0.81	1.00	0.24	06/16/10	07/07/10
Radium 228	0.59		0.30		0.47	06/16/10	07/07/10
Uranium 235	0.43	U	0.53		0.88	06/16/10	07/07/10
Uranium 238	0.1	U	2.1		3.6	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	9.94		0.81		0.24	06/16/10	07/07/10
Lead 212	0.42		0.15		0.18	06/16/10	07/07/10
Lead 214	10.3		0.77		0.33	06/16/10	07/07/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-2A-4

Radiochemistry

Lab Sample ID: FOF110574-004
 Work Order: L2TD5
 Matrix: SOLID

Date Collected: 05/22/10 0741
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD							
Potassium 40	0.6	U	1.7		3.0	06/16/10	07/07/10
Radium (226)	33.4		2.3	1.0	0.5	06/16/10	07/07/10
Radium 228	0.82	U	0.46		1.0	06/16/10	07/07/10
Uranium 235	0.4	U	1.0		1.7	06/16/10	07/07/10
Uranium 238	1.2	U	4.1		6.8	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 212	4.5		1.6		2.0	06/16/10	07/07/10
Bismuth 214	33.4		2.3		0.5	06/16/10	07/07/10
Cesium 137	0.93		0.26		0.24	06/16/10	07/07/10
Lead 212	1.04		0.39		0.46	06/16/10	07/07/10
Lead 214	33.9		2.2		0.7	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-2A-5

Radiochemistry

Lab Sample ID: FOF110574-005
 Work Order: L2TD8
 Matrix: SOLID

Date Collected: 05/22/10 0748
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD							
Potassium 40	-0.4	U	15		3	06/16/10	07/07/10
Radium (226)	28.0		2.0	1.0	0.5	06/16/10	07/07/10
Radium 228	1.25		0.63		0.93	06/16/10	07/07/10
Uranium 235	0.707	U	1.00		1.7	06/16/10	07/07/10
Uranium 238	1.7	U	3.8		6.4	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Actinium 228	1.25		0.63		0.93	06/16/10	07/07/10
Bismuth 214	28.0		2.0		0.5	06/16/10	07/07/10
Lead 212	0.92		0.33		0.41	06/16/10	07/07/10
Lead 214	27.3		1.9		0.6	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-2A-6

Radiochemistry

Lab Sample ID: FOF110574-006
 Work Order: L2TEC
 Matrix: SOLID

Date Collected: 05/22/10 0755
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0167376	Yld %
Potassium 40	-0.4	U	17		6	06/16/10	07/07/10
Radium (226)	67.0		4.4	1.0	0.7	06/16/10	07/07/10
Radium 228	2.9		1.0		1.7	06/16/10	07/07/10
Uranium 235	0.8	U	1.5		2.6	06/16/10	07/07/10
Uranium 238	3.8	U	6.2		10	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Actinium 228	2.9		1.0		1.7	06/16/10	07/07/10
Bismuth 214	67.0		4.4		0.7	06/16/10	07/07/10
Lead 210	14.2		6.8		9.4	06/16/10	07/07/10
Lead 212	2.56		0.54		0.61	06/16/10	07/07/10
Lead 214	71.7		4.6		1.0	06/16/10	07/07/10
Thallium 208	0.82		0.41		0.43	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-2A-7

Radiochemistry

Lab Sample ID: FOF110574-007
 Work Order: L2TEE
 Matrix: SOLID

Date Collected: 05/22/10 0804
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD							
Potassium 40	-0.5	U	21		1	06/16/10	07/07/10
Radium (226)	3.30		0.39	1.00	0.21	06/16/10	07/07/10
Radium 228	0.19	U	0.20		0.32	06/16/10	07/07/10
Uranium 235	0.28	U	0.31		0.50	06/16/10	07/07/10
Uranium 238	0.7	U	1.4		2.4	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	3.30		0.39		0.21	06/16/10	07/07/10
Lead 214	3.31		0.32		0.18	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-2A-8

Radiochemistry

Lab Sample ID: FOF110574-008
 Work Order: L2TEH
 Matrix: SOLID

Date Collected: 05/22/10 0820
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD					pCi/g	Batch # 0167376	
Potassium 40	0.6	U	1.3		2.5	06/16/10	07/07/10
Radium (226)	11.1		1.0	1.0	0.3	06/16/10	07/07/10
Radium 228	0.77	U	0.52		0.77	06/16/10	07/07/10
Uranium 235	0.54	U	0.61		1.0	06/16/10	07/07/10
Uranium 238	3.8	U	1.5		4.4	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	11.1		1.0		0.3	06/16/10	07/07/10
Lead 210	7.9		3.7		5.1	06/16/10	07/07/10
Lead 212	0.87		0.24		0.26	06/16/10	07/07/10
Lead 214	11.0		0.89		0.41	06/16/10	07/07/10
Thallium 208	0.33		0.17		0.19	06/16/10	07/07/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-2A-9

Radiochemistry

Lab Sample ID: FOF110574-009
 Work Order: L2TEK
 Matrix: SOLID

Date Collected: 05/22/10 0839
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD							
Potassium 40	-0.3	U	5.2		1.4	06/16/10	07/07/10
Radium (226)	9.89		0.77	1.00	0.24	06/16/10	07/07/10
Radium 228	0.13	U	0.25		0.43	06/16/10	07/07/10
Uranium 235	0.22	U	0.51		0.86	06/16/10	07/07/10
Uranium 238	0.3	U	2.0		3.4	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	9.89		0.77		0.24	06/16/10	07/07/10
Lead 210	3.3		1.8		2.7	06/16/10	07/07/10
Lead 212	0.27		0.16		0.20	06/16/10	07/07/10
Lead 214	10.3		0.77		0.26	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-2A-10

Radiochemistry

Lab Sample ID: FOF110574-010
 Work Order: L2TEN
 Matrix: SOLID

Date Collected: 05/22/10 0902
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	MDC	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD							
Potassium 40	-0.3	U	12		1	06/16/10	07/07/10
Radium (226)	3.78		0.47	1.00	0.20	06/16/10	07/07/10
Radium 228	0.16	U	0.29		0.50	06/16/10	07/07/10
Uranium 235	-0.09	U	0.67		0.56	06/16/10	07/07/10
Uranium 238	1	U	1.5		2.5	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	3.78		0.47		0.20	06/16/10	07/07/10
Cesium 137	0.297		0.086		0.045	06/16/10	07/07/10
Lead 214	3.77		0.44		0.22	06/16/10	07/07/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-2A-11

Radiochemistry

Lab Sample ID: FOF110574-011	Date Collected: 05/21/10 1158
Work Order: L2TEP	Date Received: 06/07/10 0900
Matrix: SOLID	

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0167376	
Potassium 40	-0.4	U	15		3	06/16/10	07/07/10
Radium (226)	3.73		0.48	1.00	0.23	06/16/10	07/07/10
Radium 228	0.0	U	0.18		0.36	06/16/10	07/07/10
Uranium 235	0.23	U	0.38		0.63	06/16/10	07/07/10
Uranium 238	-0.8	U	8.3		3.0	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	3.73		0.48		0.23	06/16/10	07/07/10
Lead 214	3.86		0.41		0.20	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-2A-12

Radiochemistry

Lab Sample ID: FOF110574-012
 Work Order: L2TET
 Matrix: SOLID

Date Collected: 05/21/10 1205
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0167376	Yld %
Potassium 40	0.36	U	0.99		1.8	06/16/10	07/07/10
Radium (226)	8.10		0.71	1.00	0.17	06/16/10	07/07/10
Radium 228	0.35	U	0.30		0.46	06/16/10	07/07/10
Uranium 235	0.11	U	0.45		0.76	06/16/10	07/07/10
Uranium 238	0.1	U	1.9		3.2	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	8.10		0.71		0.17	06/16/10	07/07/10
Cesium 137	0.201		0.095		0.13	06/16/10	07/07/10
Lead 212	0.50		0.20		0.23	06/16/10	07/07/10
Lead 214	7.89		0.67		0.27	06/16/10	07/07/10
Thallium 208	0.194		0.085		0.10	06/16/10	07/07/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-2A-13

Radiochemistry

Lab Sample ID: FOF110574-013
 Work Order: L2TE0
 Matrix: SOLID

Date Collected: 05/21/10 1215
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0167376	Yld %
Potassium 40	1.4	U	1.7		3.0	06/16/10	07/07/10
Radium (226)	42.2		2.8	1.0	0.5	06/16/10	07/07/10
Radium 228	2.67		0.79		1.1	06/16/10	07/07/10
Uranium 235	1.4	U	1.2		2.0	06/16/10	07/07/10
Uranium 238	2.3	U	5.2		8.7	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Actinium 228	2.67		0.79		1.1	06/16/10	07/07/10
Bismuth 214	42.2		2.8		0.5	06/16/10	07/07/10
Lead 210	12.0		4.9		6.9	06/16/10	07/07/10
Lead 212	1.26		0.35		0.44	06/16/10	07/07/10
Lead 214	44.9		2.9		0.7	06/16/10	07/07/10
Thallium 208	0.59		0.28		0.30	06/16/10	07/07/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-2B-1

Radiochemistry

Lab Sample ID: FOF110574-014
 Work Order: L2TE5
 Matrix: SOLID

Date Collected: 05/21/10 1541
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD							
Potassium 40	0.3	U	1.9		3.5	06/16/10	07/07/10
Radium (226)	22.5		1.7	1.0	0.5	06/16/10	07/07/10
Radium 228	1.67		0.73		1.0	06/16/10	07/07/10
Uranium 235	0.05	U	0.87		1.5	06/16/10	07/07/10
Uranium 238	2.0	U	3.7		6.2	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Actinium 228	1.67		0.73		1.0	06/16/10	07/07/10
Bismuth 214	22.5		1.7		0.5	06/16/10	07/07/10
Lead 210	11.6		4.6		6.2	06/16/10	07/07/10
Lead 212	2.19		0.36		0.36	06/16/10	07/07/10
Lead 214	23.1		1.6		0.6	06/16/10	07/07/10
Thallium 208	0.70		0.21		0.22	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-2B-2

Radiochemistry

Lab Sample ID: FOF110574-015
 Work Order: L2TFC
 Matrix: SOLID

Date Collected: 05/21/10 1552
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD							
Potassium 40	0.39	U	0.91		1.6	06/16/10	07/07/10
Radium (226)	11.1		0.87	1.00	0.25	06/16/10	07/07/10
Radium 228	1.30		0.38		0.40	06/16/10	07/07/10
Uranium 235	-0.03	U	1.0		1	06/16/10	07/07/10
Uranium 238	0.4	U	2.1		3.6	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Actinium 228	1.30		0.38		0.40	06/16/10	07/07/10
Bismuth 214	11.1		0.87		0.25	06/16/10	07/07/10
Lead 212	0.75		0.20		0.24	06/16/10	07/07/10
Lead 214	11.5		0.85		0.28	06/16/10	07/07/10
Thallium 208	0.32		0.11		0.12	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-2B-3

Radiochemistry

Lab Sample ID: FOF110574-016
 Work Order: L2TFE
 Matrix: SOLID

Date Collected: 05/21/10 1602
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0167376	Yld %
Potassium 40	0.3	U	1.9		3.4	06/16/10	07/07/10
Radium (226)	22.5		1.7	1.0	0.4	06/16/10	07/07/10
Radium 228	2.24		0.82		0.98	06/16/10	07/07/10
Uranium 235	0.06	U	0.92		1.6	06/16/10	07/07/10
Uranium 238	-0.7	U	12000		7	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Actinium 228	2.24		0.82		0.98	06/16/10	07/07/10
Bismuth 214	22.5		1.7		0.4	06/16/10	07/07/10
Cesium 137	0.41		0.21		0.22	06/16/10	07/07/10
Lead 212	1.54		0.36		0.40	06/16/10	07/07/10
Lead 214	24.9		1.8		0.6	06/16/10	07/07/10
Thallium 208	0.63		0.22		0.23	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-2B-4

Radiochemistry

Lab Sample ID: F0F110574-017
 Work Order: L2TEK
 Matrix: SOLID

Date Collected: 05/21/10 1614
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD							
Potassium 40	0.2	U	1.3		2.5	06/16/10	07/07/10
Radium (226)	8.55		0.87	1.00	0.32	06/16/10	07/07/10
Radium 228	0.26	U	0.39		0.66	06/16/10	07/07/10
Uranium 235	0.46	U	0.60		0.99	06/16/10	07/07/10
Uranium 238	-0.7	U	210		5	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	8.55		0.87		0.32	06/16/10	07/07/10
Lead 212	0.58		0.19		0.23	06/16/10	07/07/10
Lead 214	8.22		0.77		0.33	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-2B-5

Radiochemistry

Lab Sample ID: FOF110574-018
 Work Order: L2TFN
 Matrix: SOLID

Date Collected: 05/22/10 0911
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0167376	Yld %
Potassium 40	-0.3	U	2.5		1.0	06/16/10	07/07/10
Radium (226)	1.76		0.24	1.00	0.09	06/16/10	07/07/10
Radium 228	0.02	U	0.14		0.26	06/16/10	07/07/10
Uranium 235	-0.09	U	0.46		0.36	06/16/10	07/07/10
Uranium 238	0.05	U	0.88		1.6	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	1.76		0.24		0.09	06/16/10	07/07/10
Cesium 137	0.131		0.043		0.025	06/16/10	07/07/10
Lead 214	1.86		0.22		0.13	06/16/10	07/07/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-2B-6

Radiochemistry

Lab Sample ID: FOF110574-019
 Work Order: L2TFW
 Matrix: SOLID

Date Collected: 05/22/10 0920
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0167376	Yld %
Potassium 40	0.2	U	1.1		2.0	06/16/10	07/07/10
Radium (226)	13.0		1.1	1.0	0.3	06/16/10	07/07/10
Radium 228	0.45	U	0.41		0.65	06/16/10	07/07/10
Uranium 235	0.38	U	0.79		1.3	06/16/10	07/07/10
Uranium 238	1.3	U	2.9		4.9	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	13.0		1.1		0.3	06/16/10	07/07/10
Lead 214	13.7		1.1		0.4	06/16/10	07/07/10
Thallium 208	0.44		0.15		0.14	06/16/10	07/07/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-2B-7

Radiochemistry

Lab Sample ID: FOF110574-020
 Work Order: L2TF1
 Matrix: SOLID

Date Collected: 05/22/10 0927
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g	Batch # 0167376		Yld %
Potassium 40	2.3	U	1.9		3.0	06/16/10	07/07/10
Radium (226)	37.6		2.6	1.0	0.6	06/16/10	07/07/10
Radium 228	3.29		0.88		0.77	06/16/10	07/07/10
Uranium 235	0.8	U	1.4		2.3	06/16/10	07/07/10
Uranium 238	0.4	U	5.2		8.8	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Actinium 228	3.29		0.88		0.77	06/16/10	07/07/10
Bismuth 214	37.6		2.6		0.6	06/16/10	07/07/10
Lead 212	2.16		0.39		0.51	06/16/10	07/07/10
Lead 214	38.8		2.5		0.6	06/16/10	07/07/10
Thallium 208	0.89		0.26		0.26	06/16/10	07/07/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-2B-8

Radiochemistry

Lab Sample ID: FOF110574-021
 Work Order: L2TF3
 Matrix: SOLID

Date Collected: 05/22/10 0946
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0167383	Yld %
Potassium 40	0.17	U	0.91		1.7	06/16/10	07/07/10
Radium (226)	16.0		1.2	1.0	0.3	06/16/10	07/07/10
Radium 228	1.02		0.35		0.50	06/16/10	07/07/10
Uranium 235	0.48	U	0.68		1.1	06/16/10	07/07/10
Uranium 238	0.5	U	2.7		4.5	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Actinium 228	1.02		0.35		0.50	06/16/10	07/07/10
Bismuth 214	16.0		1.2		0.3	06/16/10	07/07/10
Cesium 137	0.26		0.13		0.13	06/16/10	07/07/10
Lead 212	1.12		0.27		0.30	06/16/10	07/07/10
Lead 214	17.0		1.2		0.4	06/16/10	07/07/10
Thallium 208	0.27		0.12		0.14	06/16/10	07/07/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-2B-8 DUP

Radiochemistry

Lab Sample ID: FOF110574-021X
 Work Order: L2TF3
 Matrix: SOLID

Date Collected: 05/22/10 0946
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g	Batch # 0167383		Yld %
Potassium 40	1.2	U	1.4		2.4	06/16/10	07/08/10
Radium (226)	16.2		1.3	1.0	0.3	06/16/10	07/08/10
Radium 228	1.57		0.47		0.35	06/16/10	07/08/10
Uranium 235	0.43	U	0.79		1.3	06/16/10	07/08/10
Uranium 238	0.6	U	3.1		5.2	06/16/10	07/08/10
--- Other Detected Radionuclides ---							
Actinium 228	1.57		0.47		0.35	06/16/10	07/08/10
Bismuth 214	16.2		1.3		0.3	06/16/10	07/08/10
Lead 212	1.12		0.28		0.32	06/16/10	07/08/10
Lead 214	17.1		1.3		0.5	06/16/10	07/08/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-2B-9

Radiochemistry

Lab Sample ID: FOF110574-022
 Work Order: L2TF5
 Matrix: SOLID

Date Collected: 05/22/10 1008
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD							
Potassium 40	-0.4	U	3.6		2.1	06/16/10	07/07/10
Radium (226)	11.4		0.94	1.00	0.34	06/16/10	07/07/10
Radium 228	0.73		0.35		0.48	06/16/10	07/07/10
Uranium 235	0.07	U	0.53		0.90	06/16/10	07/07/10
Uranium 238	1.0	U	2.3		3.8	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Actinium 228	0.73		0.35		0.48	06/16/10	07/07/10
Bismuth 214	11.4		0.94		0.34	06/16/10	07/07/10
Cesium 137	0.24		0.11		0.12	06/16/10	07/07/10
Lead 212	0.57		0.20		0.24	06/16/10	07/07/10
Lead 214	11.6		0.85		0.30	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-2B-10

Radiochemistry

Lab Sample ID: FOF110574-023
 Work Order: L2TF8
 Matrix: SOLID

Date Collected: 05/22/10 1022
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g	Batch # 0167383		Yld %
Potassium 40	-0.02	U	1.7		2.8	06/16/10	07/07/10
Radium (226)	49.6		3.2	1.0	0.6	06/16/10	07/07/10
Radium 228	1.21		0.69		1.1	06/16/10	07/07/10
Uranium 235	0.9	U	1.2		2.0	06/16/10	07/07/10
Uranium 238	4.6	U	4.9		8.1	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Actinium 228	1.21		0.69		1.1	06/16/10	07/07/10
Bismuth 214	49.6		3.2		0.6	06/16/10	07/07/10
Lead 212	1.05		0.40		0.50	06/16/10	07/07/10
Lead 214	52.1		3.4		0.8	06/16/10	07/07/10
Thallium 208	0.50		0.20		0.22	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-2B-11

Radiochemistry

Lab Sample ID: F0F110574-024
 Work Order: L2TGA
 Matrix: SOLID

Date Collected: 05/22/10 1044
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g	Batch # 0167383		Yld %
Potassium 40	-0.5	U	18		2	06/16/10	07/07/10
Radium (226)	3.79		0.56	1.00	0.25	06/16/10	07/07/10
Radium 228	-0.03	U	0.40		0.75	06/16/10	07/07/10
Uranium 235	0.19	U	0.38		0.66	06/16/10	07/07/10
Uranium 238	-0.2	U	2.9		3.5	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	3.79		0.56		0.25	06/16/10	07/07/10
Lead 214	4.00		0.54		0.28	06/16/10	07/07/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-2B-12

Radiochemistry

Lab Sample ID: FOF110574-025
 Work Order: L2TGF
 Matrix: SOLID

Date Collected: 05/22/10 1119
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD							
Potassium 40	0.4	U	1.2		2.2	06/16/10	07/07/10
Radium (226)	12.3		1.1	1.0	0.3	06/16/10	07/07/10
Radium 228	0.67		0.44		0.65	06/16/10	07/07/10
Uranium 235	0.46	U	0.71		1.2	06/16/10	07/07/10
Uranium 238	-0.4	U	22		5	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	12.3		1.1		0.3	06/16/10	07/07/10
Lead 212	0.81		0.28		0.30	06/16/10	07/07/10
Lead 214	12.0		0.98		0.44	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-2B-13

Radiochemistry

Lab Sample ID: FOF110574-026
 Work Order: L2TGQ
 Matrix: SOLID

Date Collected: 05/22/10 1135
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0167383	Yld %
Potassium 40	-0.2	U	9.8		1.2	06/16/10	07/07/10
Radium (226)	5.87		0.54	1.00	0.15	06/16/10	07/07/10
Radium 228	0.48		0.20		0.26	06/16/10	07/07/10
Uranium 235	0.18	U	0.36		0.61	06/16/10	07/07/10
Uranium 238	0.5	U	1.5		2.5	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Actinium 228	0.48		0.20		0.26	06/16/10	07/07/10
Bismuth 214	5.87		0.54		0.15	06/16/10	07/07/10
Lead 214	5.85		0.53		0.29	06/16/10	07/07/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

METHOD BLANK REPORT

Radiochemistry

Client Lot ID: FOF110574

Matrix: SOLID

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	MDC	Prep Date	Lab Sample ID Analysis Date	
Gamma Ra-226 & Hits	By DOE	GA-010R	MOD	pCi/g	Batch #	0167376	Yld %	FOF160000-376B
Potassium 40	-0.4	U	8.8		1.1	06/16/10	07/07/10	
Radium (226)	0.042	U	0.075	1.00	0.13	06/16/10	07/07/10	
Radium 228	-0.04	U	0.15		0.28	06/16/10	07/07/10	
Uranium 235	-0.04	U	0.43		0.26	06/16/10	07/07/10	
Uranium 238	0.73	U	0.79		1.2	06/16/10	07/07/10	
Gamma Ra-226 & Hits	By DOE	GA-010R	MOD	pCi/g	Batch #	0167383	Yld %	FOF160000-383B
Potassium 40	-0.12	U	0.47		0.84	06/16/10	07/07/10	
Radium (226)	0.030	U	0.087	1.00	0.17	06/16/10	07/07/10	
Radium 228	0.07	U	0.13		0.22	06/16/10	07/07/10	
Uranium 235	-0.0002	U	0.13		0.24	06/16/10	07/07/10	
Uranium 238	0.8	U	1.0		1.5	06/16/10	07/07/10	

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined using instrument performance only

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Laboratory Control Sample Report

Radiochemistry

Client Lot ID: F0F110574
 Matrix: SOLID

Parameter	Spike Amount	Result	Total Uncert. (2 σ +/-)	MDC	% Yld	% Rec	Lab Sample ID QC Control Limits
Gamma Ra-226 & Hits By DOE GA-010R MOD							
			pCi/g				FOF160000-376C
Radium (226)	12.2	10.5	1.0	0.5		86	(79 - 110)
Thorium 232	9.50	9.8	1.1	0.5		103	(89 - 121)
	Batch #:	0167376		Analysis Date:	07/07/10		
Gamma Ra-226 & Hits By DOE GA-010R MOD							
			pCi/g				FOF160000-383C
Radium (226)	12.2	10.8	1.0	0.4		88	(79 - 110)
Thorium 232	9.50	8.68	0.99	0.98		91	(89 - 121)
	Batch #:	0167383		Analysis Date:	07/07/10		

NOTE(S)

MDC is determined by instrument performance only
 Calculations are performed before rounding to avoid round-off error in calculated results
 LOT# F0F110574

DUPLICATE EVALUATION REPORT

Radiochemistry

Client Lot ID: FOF110574
Matrix: SOLID

Date Sampled: 05/22/10
Date Received: 06/07/10

Parameter	SAMPLE Result		Total Uncert. (2σ+/-)	% Yld	DUPLICATE Result	Total Uncert. (2 σ +/-)	% Yld	QC Sample ID		
									Precision	
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g	GA-01-R MOD			FOF110574-001		
Potassium 40	0.002	U	1.0		-0.4	U	16	202	%RPD	
Radium (226)	13.7		1.0		14.0		1.1	2	%RPD	
Radium 228	0.44	U	0.34		0.38	U	0.40	16	%RPD	
Uranium 235	0.12	U	0.65		0.34	U	0.78	98	%RPD	
Uranium 238	0.9	U	2.6		0.5	U	2.9	65	%RPD	
---Other Dedected Radionuclides---										
Bismuth 214	13.7		1.0		14.0		1.1	2	%RPD	
Cesium 137	0.159		0.099		0.24		0.12	40	%RPD	
Lead 212	0.39		0.18		0.40		0.25	4	%RPD	
Lead 214	14.7		1.1		14.5		1.1	1	%RPD	
Batch #:			0167376 (Sample)		0167376 (Duplicate)					
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g	GA-01-R MOD			FOF110574-021		
Potassium 40	0.17	U	0.91		1.2	U	1.4	150	%RPD	
Radium (226)	16.0		1.2		16.2		1.3	2	%RPD	
Radium 228	1.02		0.35		1.57		0.47	42	%RPD	
Uranium 235	0.48	U	0.68		0.43	U	0.79	10	%RPD	
Uranium 238	0.5	U	2.7		0.6	U	3.1	18	%RPD	
---Other Dedected Radionuclides---										
Actinium 228	1.02		0.35		1.57		0.47	42	%RPD	
Bismuth 214	16.0		1.2		16.2		1.3	2	%RPD	
Lead 212	1.12		0.27		1.12		0.28	0.2	%RPD	
Lead 214	17.0		1.2		17.1		1.3	0.8	%RPD	
Batch #:			0167383 (Sample)		0167383 (Duplicate)					

NOTE (S)

Data are incomplete without the case narrative.
Calculations are performed before rounding to avoid round-off error in calculated results

U Result is less than the sample detection limit.

F0F110574

CLIENT ANALYSIS SUMMARY

Storage Loc:

RAD

Project Manager: IV

Quote #: 86420 SDG;

Date Received: 2010-06-07

Project:

GUAM/Uranao Dumpsites 1&2

Analytical Due Date: 2010-07-09

PO#: TO 107/123350

Report to: Joseph Strzempka

Report Due Date: 2010-07-10

Client: 1431288 Defense Finance & Accounting Service

Report Type: D Expanded Deliverable

#SMPS In LOT: 26

EDD Code: 00

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
1	URUNAO-S-2A-1			2010-05-22 / 719	L2TA7	SOLID
<u>SAMPLE COMMENTS:</u>						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ DOD QSM V3	PROT: A WRK LOC 06
X XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ DOD QSM V3	PROT: A WRK LOC 06
<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
2	URUNAO-S-2A-2			2010-05-22 / 727	L2TDD	SOLID
<u>SAMPLE COMMENTS:</u>						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ DOD QSM V3	PROT: A WRK LOC 06
<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
3	URUNAO-S-2A-3			2010-05-22 / 735	L2TD3	SOLID
<u>SAMPLE COMMENTS:</u>						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ DOD QSM V3	PROT: A WRK LOC 06
<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
4	URUNAO-S-2A-4			2010-05-22 / 741	L2TD5	SOLID
<u>SAMPLE COMMENTS:</u>						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ DOD QSM V3	PROT: A WRK LOC 06
<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
5	URUNAO-S-2A-5			2010-05-22 / 748	L2TD8	SOLID
<u>SAMPLE COMMENTS:</u>						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ DOD QSM V3	PROT: A WRK LOC 06
<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
6	URUNAO-S-2A-6			2010-05-22 / 755	L2TEC	SOLID
<u>SAMPLE COMMENTS:</u>						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ DOD QSM V3	PROT: A WRK LOC 06
<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
7	URUNAO-S-2A-7			2010-06-22 / 804	L2TEE	SOLID
<u>SAMPLE COMMENTS:</u>						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ DOD QSM V3	PROT: A WRK LOC 06

TestAmerica - St. Louis

Logged In by: VANIAI

2010-08-30

12:54:44

Printed on: Tuesday, July 06, 2010 04:42 PM

Page 1 of 4

F0F110574

CLIENT ANALYSIS SUMMARY

Storage Loc:

RAD

Project Manager: IV

Quota #: 86420 SDG:

Date Received: 2010-06-07

Project:

GUAM/Uranao Dumpsites 1&2

Analytical Due Date: 2010-07-09

PO#: TO 107/123360

Report to: Joseph Strzempka

Report Due Date: 2010-07-10

Client: 1431288 Defense Finance & Accounting Service

#SMPS in LOT: 26

Report Type: D Expanded Deliverable
EDD Code: 00

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
8	URUNAO-S-2A-8			2010-05-22 / 820	L2TEH	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
9	URUNAO-S-2A-9			2010-05-22 / 839	L2TEK	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
10	URUNAO-S-2A-10			2010-05-22 / 902	L2TEN	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
11	URUNAO-S-2A-11			2010-05-21 / 1158	L2TEP	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
12	URUNAO-S-2A-12			2010-05-21 / 1205	L2TET	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
13	URUNAO-S-2A-13			2010-05-21 / 1215	L2TE0	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
14	URUNAO-S-2B-1			2010-05-21 / 1541	L2TE5	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
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F0F110574**CLIENT ANALYSIS SUMMARY**

Storage Loc:

RAD

Project Manager: IV

Quote #: 86420 SDG:

Date Received: 2010-06-07

Project:

GUAM/Uranao Dumpsites 1&2

Analytical Due Date: 2010-07-09

PO#: TO 107/123350

Report to: Joseph Strzempka

Report Due Date: 2010-07-10

Client: 1431288 Defense Finance & Accounting Service

#SMPS In LOT: 26

Report Type: D Expanded Deliverable

EDD Code: 00

15 URUNAO-S-2B-2 2010-05-21/ 1552 L2TFC SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
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16 URUNAO-S-2B-3 2010-05-21/ 1602 L2TFE SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
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17 URUNAO-S-2B-4 2010-05-21/ 1614 L2TFK SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
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18 URUNAO-S-2B-5 2010-05-22/ 911 L2TFN SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
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19 URUNAO-S-2B-6 2010-05-22/ 920 L2TFW SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
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20 URUNAO-S-2B-7 2010-05-22/ 927 L2TF1 SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
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21 URUNAO-S-2B-8 2010-05-22/ 946 L2TF3 SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06
X XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
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FOF110574**CLIENT ANALYSIS SUMMARY**

Storage Loc:

RAD

Project Manager: IV

Quote #: 86420 SDG:

Date Received: 2010-06-07

Project:

GUAM/Uranao Dumpsites 1&2

Analytical Due Date: 2010-07-09

PO#: TO 107/123350

Report to: Joseph Strzempka

Report Due Date: 2010-07-10

Client: 1431288 Defense Finance & Accounting Service

Report Type: D Expanded Deliverable

#SMPS In LOT: 26

EDD Code: 00

22 URUNAO-S-2B-9 2010-05-22 / 1008 L2TF5 SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-228 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
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23 URUNAO-S-2B-10 2010-05-22 / 1022 L2TF8 SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-228 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
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24 URUNAO-S-2B-11 2010-05-22 / 1044 L2TGA SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-228 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
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25 URUNAO-S-2B-12 2010-05-22 / 1119 L2TGF SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-228 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
-----------------	-------------------------	----------------	----------------------	--------------------------	------------------	----------

26 URUNAO-S-2B-13 2010-05-22 / 1135 L2TGG SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-228 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

ST. LOUIS
 13715 Rider Trail North
 Earth City, MO 63045
 phone 314.298.8566 fax 314.298.8757

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Ivan Vania					Site Contact:		Date:		COC No:																		
US Air Force		Tel/Fax: (314) 298-8566					Lab Contact:		Carrier:		12 of 789 COCs																		
Unit 5213, Box 10		Analysis Turnaround Time					Filtered Sample				Job No.																		
APO, AP 96368-5213		Calendar (C) or Work Days (W) <u>C</u>																											
011-81-961-7381		TAT if different from Below <u>45D</u>																											
roberta.lenski@us.af.mil		<input type="checkbox"/> 2 weeks																											
Project Name: Urunao Site Final Status Survey		<input type="checkbox"/> 1 week																											
Site: Urunao Site, Andersen AB, Guam		<input type="checkbox"/> 2 days					Sample Identification		Sample Date		Sample Time		Sample Type		Matrix		# of Cont.		Sample Specific Notes:										
PO#		<input type="checkbox"/> 1 day																											
Urunao-S-2B-1; coords: 144.8403139/13.6152482		21-May-10		09:41:18pm		Soil Sample															2B		1				Just over ridge, red soil		
Urunao-S-2B-2; coords: 144.8403337/13.61607343		21-May-10		09:52:21pm		Soil Sample															2B		1				Just over ridge, reddish soil		
Urunao-S-2B-3; coords: 144.8403555/13.61618187		21-May-10		04:02:47pm		Soil Sample															2B		1				Just over ridge on limestone outcropping, offset to left beside		
Urunao-S-2B-4; coords: 144.8403144/13.61624967		21-May-10		09:14:02pm		Soil Sample		2B		1				Sample location on steep outcropping, soil taken next to it															
Urunao-S-2B-5; coords: 144.839525/13.61535341		22-May-10		09:11:34am		Soil Sample		2B		1				Slopeside, mixed soil															
Urunao-S-2B-6; coords: 144.8396825/13.61542361		22-May-10		09:29:04am		Soil Sample		2B		1				Sample site on rock pile, sample taken upslope on road, mixed soil															
Urunao-S-2B-7; coords: 144.8398228/13.61563978		22-May-10		09:27:23am		Soil Sample		2B		1				Sample taken on vertical outcropping, red clay															
Urunao-S-2B-8; coords: 144.8399694/13.61575621		22-May-10		09:40:17am		Soil Sample		2B		1				Slopeside, mixed reddish soil															
Urunao-S-2B-9; coords: 144.8400579/13.61621183		22-May-10		10:08:24am		Soil Sample		2B		1				Slopeside beneath forest canopy															
Urunao-S-2B-10; coords: 144.8401549/13.61576494		22-May-10		10:22:03am		Soil Sample		2B		1				Reddish soil at base of cliff face															
Urunao-S-2B-11; coords: 144.840214/13.61617925		22-May-10		10:44:07am		Soil Sample		2B		1				Sample taken at base of cliff, mixed soil															
Urunao-S-2B-12; coords: 144.839873/13.61546025		22-May-10		11:19:39am		Soil Sample		2B		1				Slopeside, reddish soil															
Urunao-S-2B-13; coords: 144.8396385/13.61566299		22-May-10		11:55:15am		Soil Sample		2B		1				Slopeside, mixed soil															
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other																													
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																							
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/>						<input checked="" type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																							
Special Instructions/QC Requirements & Comments: (Analyze for Ra-226. Report results in pCi/g. Return samples to US Air Force--address TBD--after analysis.)																													
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:																			
[Signature]		USAF		26 MAY 10/1445		[Signature]		USAF		26 MAY 10/1445																			
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:																			
[Signature]		USAF				[Signature]		TA-SR		6-7-10 0900																			
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:																			



Lot #(@): FOF110566
570
574
580

CONDITION UPON RECEIPT FORM

Client: SHAW E&I

Quote No: 76681

COC/RFA No: N/A

Initiated By: NVO

Date: 6/5/10 Time: 0830

Shipping Information

Shipper: FedEx UPS DHL Courier Client Other: _____ Multiple Packages: Y N

Shipping # (s):* 863937592573

Sample Temperature (s):**
 1. Ambient 6. _____
 2. _____ 7. _____
 3. _____ 8. _____
 4. _____ 9. _____
 5. _____ 10. _____

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C. If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1.	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N	Are there custody seals present on the cooler?	8.	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N	Are there custody seals present on bottles?
2.	<input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Do custody seals on cooler appear to be tampered with?	9.	<input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Do custody seals on bottles appear to be tampered with?
3.	<input checked="" type="radio"/> Y <input type="radio"/> N	Were contents of cooler frisked after opening, but before unpacking?	10.	<input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Was sample received with proper pH? (If not, make note below)
4.	<input type="radio"/> Y <input checked="" type="radio"/> N	Sample received with Chain of Custody?	11.	<input checked="" type="radio"/> Y <input type="radio"/> N	Sample received in proper containers?
5.	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> N/A	Does the Chain of Custody match sample ID's on the container(s)?	12.	<input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
6.	<input type="radio"/> Y <input checked="" type="radio"/> N	Was sample received broken?	13.	<input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Was Internal COC/Workshare received?
7.	<input checked="" type="radio"/> Y <input type="radio"/> N	Is sample volume sufficient for analysis?	14.	<input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Was pH taken by original TestAmerica lab?

¹ For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

Notes: 4. received COC's on 6/5/10

Corrective Action:
 Client Contact Name: _____
 Sample(s) processed "as is"
 Sample(s) on hold until: _____
 Project Management Review: [Signature]

Informed by: _____
 If released, notify: _____
 Date: 6-29-10

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.
 ADMN-0004 REVISED 10/21/08 \SLSvr01\QA\FORMS\ST-LOUIS\ADMIN\Admin004 rev11.doc



TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

GUAM/Uranao

Lot #: F0F110580

Roberta Lenski/Joseph Vinch

US Air Force
Unit 5213 Box 10
APO AP96368-5213
011-81-961-7361
Andersen AFB GU, 96453

TESTAMERICA LABORATORIES, INC.

A handwritten signature in black ink, appearing to read "Ivan Vania", is positioned above the printed name.

Ivan Vania
Project Manager

July 9, 2010

Case Narrative
LOT NUMBER: F0F110580

This report contains the analytical results for the 28 samples received under chain of custody by TestAmerica St. Louis on June 7, 2010. These samples are associated with your GUAM/Uranao project.

The analytical results included in this report meet all applicable quality control procedure requirements.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by TestAmerica St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. **TestAmerica St. Louis' Florida certification number is E87689.** The case narrative is an integral part of this report.

This report shall not be reproduced, except in full, without the written approval of the laboratory.

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

Observations/Nonconformances

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

There were no nonconformances or observations noted with any analysis on this lot.

METHODS SUMMARY

F0F110580

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Gamma Spectroscopy - Radium-226 & Hits	EML GA-01-R MOD	

References:

EML "ENVIRONMENTAL MEASUREMENTS LABORATORY PROCEDURES MANUAL"
HASL-300 28TH EDITION, VOLUME I and II DEPARTMENT OF ENERGY

SAMPLE SUMMARY**FOF110580**

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
L2TE7	001	URUNAO-S-BKGD-1	05/24/10	06:54
L2TFD	002	URUNAO-S-BKGD-2	05/24/10	07:46
L2TFG	003	URUNAO-S-BKGD-3	05/24/10	07:50
L2TFJ	004	URUNAO-S-BKGD-4	05/24/10	07:57
L2TFP	005	URUNAO-S-BKGD-5	05/24/10	08:06
L2TFT	006	URUNAO-S-BKGD-6	05/24/10	08:14
L2TFX	007	URUNAO-S-BKGD-7	05/24/10	09:23
L2TF0	008	URUNAO-S-BKGD-8	05/24/10	09:26
L2TF2	009	URUNAO-S-BKGD-9	05/24/10	09:35
L2TF4	010	URUNAO-S-BKGD-10	05/24/10	09:45
L2TF6	011	URUNAO-S-BKGD-11	05/24/10	09:53
L2TF7	012	URUNAO-S-BKGD-12	05/24/10	10:01
L2TF9	013	URUNAO-S-BKGD-13	05/24/10	10:10
L2TGE	014	URUNAO-S-2B-BIASED-1	05/24/10	16:07
L2TGJ	015	URUNAO-S-2B-BIASED-2	05/24/10	16:20
L2TGL	016	URUNAO-S-2B-BIASED-3	05/24/10	16:32
L2TGP	017	URUNAO-S-2B-BIASED-4	05/25/10	07:39
L2TGR	018	URUNAO-S-2B-BIASED-5	05/25/10	11:25
L2TGX	019	URUNAO-S-2B-BIASED-6	05/25/10	11:27
L2TG0	020	URUNAO-S-2B-BIASED-7	05/25/10	11:45
L2TG1	021	URUNAO-S-2B-BIASED-8	05/25/10	11:47
L2TG2	022	URUNAO-S-2B-BIASED-9	05/25/10	14:48
L2TG4	023	URUNAO-S-2B-BIASED-10	05/25/10	15:07
L2TG5	024	URUNAO-S-2B-BIASED-11	05/25/10	15:32
L2TG9	025	URUNAO-S-2B-BIASED-12	05/25/10	15:47
L2THC	026	URUNAO-S-2B-BIASED-13	05/26/10	06:54
L2THG	027	URUNAO-S-2B-BIASED-14	05/26/10	08:00
L2THJ	028	URUNAO-S-2B-BIASED-15	05/26/10	08:21

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-BKGD-1

Radiochemistry

Lab Sample ID: FOF110580-001
 Work Order: L2TE7
 Matrix: SOLID

Date Collected: 05/24/10 0654
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD							
Potassium 40	-0.01	U	0.55		1.2	06/16/10	07/07/10
Radium (226)	0.86	J	0.19	1.00	0.08	06/16/10	07/07/10
Radium 228	0.06	U	0.14		0.26	06/16/10	07/07/10
Uranium 235	0.10	U	0.23		0.41	06/16/10	07/07/10
Uranium 238	1.2	U	1.3		1.7	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	0.86		0.19		0.08	06/16/10	07/07/10
Lead 214	0.90		0.15		0.11	06/16/10	07/07/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

J Result is greater than sample detection limit but less than stated reporting limit.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service
Client Sample ID: URUNAO-S-BKGD-1 DUP

Radiochemistry

Lab Sample ID: FOF110580-001X Date Collected: 05/24/10 0654
 Work Order: L2TE7 Date Received: 06/07/10 0900
 Matrix: SOLID

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0167381	Yld %
Potassium 40	-0.4	U	15		0.9	06/16/10	07/07/10
Radium (226)	0.61	J	0.16	1.00	0.19	06/16/10	07/07/10
Radium 228	0.07	U	0.13		0.22	06/16/10	07/07/10
Uranium 235	0.37	U	0.26		0.39	06/16/10	07/07/10
Uranium 238	0.9	U	1.3		2.2	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	0.61		0.16		0.19	06/16/10	07/07/10
Lead 214	0.87		0.15		0.14	06/16/10	07/07/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

J Result is greater than sample detection limit but less than stated reporting limit.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-BKGD-2

Radiochemistry

Lab Sample ID: FOF110580-002
 Work Order: L2TFD
 Matrix: SOLID

Date Collected: 05/24/10 0746
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0167381	Yld %
Potassium 40	-0.1	U	1.1		1.2	06/16/10	07/07/10
Radium (226)	2.09		0.27	1.00	0.17	06/16/10	07/07/10
Radium 228	0.17	U	0.18		0.29	06/16/10	07/07/10
Uranium 235	0.14	U	0.34		0.57	06/16/10	07/07/10
Uranium 238	0.8	U	1.4		2.4	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	2.09		0.27		0.17	06/16/10	07/07/10
Lead 214	2.31		0.29		0.15	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-BKGD-3

Radiochemistry

Lab Sample ID: F0F110580-003
 Work Order: L2TFG
 Matrix: SOLID

Date Collected: 05/24/10 0750
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD							
Potassium 40	0.08	U	0.56		1.2	06/16/10	07/07/10
Radium (226)	2.21		0.29	1.00	0.16	06/16/10	07/07/10
Radium 228	0.10	U	0.16		0.27	06/16/10	07/07/10
Uranium 235	0.05	U	0.24		0.41	06/16/10	07/07/10
Uranium 238	1.4	U	1.4		1.9	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	2.21		0.29		0.16	06/16/10	07/07/10
Lead 214	2.21		0.25		0.19	06/16/10	07/07/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-BKGD-4

Radiochemistry

Lab Sample ID: FOF110580-004
 Work Order: L2TFJ
 Matrix: SOLID

Date Collected: 05/24/10 0757
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0167381	Yld %
Potassium 40	-0.2	U	8.9		1.7	06/16/10	07/07/10
Radium (226)	3.91		0.42	1.00	0.12	06/16/10	07/07/10
Radium 228	0.14	U	0.24		0.40	06/16/10	07/07/10
Uranium 235	0.14	U	0.33		0.56	06/16/10	07/07/10
Uranium 238	1.1	U	1.5		2.5	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	3.91		0.42		0.12	06/16/10	07/07/10
Lead 212	0.30		0.11		0.14	06/16/10	07/07/10
Lead 214	3.91		0.38		0.19	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-BKGD-5

Radiochemistry

Lab Sample ID: FOF110580-005
 Work Order: L2TFP
 Matrix: SOLID

Date Collected: 05/24/10 0806
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD							
Potassium 40	-0.6	U	140		2	06/16/10	07/07/10
Radium (226)	28.5		2.0	1.0	0.5	06/16/10	07/07/10
Radium 228	2.91		0.73		0.84	06/16/10	07/07/10
Uranium 235	0.79	U	0.99		1.6	06/16/10	07/07/10
Uranium 238	2.2	U	4.4		7.3	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Actinium 228	2.91		0.73		0.84	06/16/10	07/07/10
Bismuth 214	28.5		2.0		0.5	06/16/10	07/07/10
Cesium 137	0.32		0.14		0.17	06/16/10	07/07/10
Lead 210	13.2		4.8		6.2	06/16/10	07/07/10
Lead 212	1.83		0.39		0.43	06/16/10	07/07/10
Lead 214	29.9		2.0		0.6	06/16/10	07/07/10
Thallium 208	0.75		0.24		0.22	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-BKGD-6

Radiochemistry

Lab Sample ID: FOF110580-006	Date Collected: 05/24/10 0814
Work Order: L2TFT	Date Received: 06/07/10 0900
Matrix: SOLID	

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD							
Potassium 40	1.1	U	3.0		5.2	06/16/10	07/07/10
Radium (226)	59.1		4.0	1.0	0.8	06/16/10	07/07/10
Radium 228	6.8		1.9		1.5	06/16/10	07/07/10
Uranium 235	0.6	U	1.6		2.7	06/16/10	07/07/10
Uranium 238	3.5	U	6.8		11	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Actinium 228	6.8		1.9		1.5	06/16/10	07/07/10
Bismuth 212	6.4		2.5		2.5	06/16/10	07/07/10
Bismuth 214	59.1		4.0		0.8	06/16/10	07/07/10
Lead 212	3.64		0.67		0.73	06/16/10	07/07/10
Lead 214	59.7		4.0		1.0	06/16/10	07/07/10
Thallium 208	1.36		0.40		0.42	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-BKGD-7

Radiochemistry

Lab Sample ID: F0F110580-007
 Work Order: L2TFX
 Matrix: SOLID

Date Collected: 05/24/10 0923
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0167381	Yld %
Potassium 40	-0.2	U	1.7		1.4	06/16/10	07/07/10
Radium (226)	1.19		0.23	1.00	0.13	06/16/10	07/07/10
Radium 228	-0.007	U	0.15		0.30	06/16/10	07/07/10
Uranium 235	0.15	U	0.23		0.38	06/16/10	07/07/10
Uranium 238	1.1	U	1.1		1.8	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	1.19		0.23		0.13	06/16/10	07/07/10
Lead 214	1.42		0.20		0.14	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-BKGD-8

Radiochemistry

Lab Sample ID: FOF110580-008
 Work Order: L2TFO
 Matrix: SOLID

Date Collected: 05/24/10 0926
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD							
Potassium 40	-0.2	U	9.2		0.7	06/16/10	07/07/10
Radium (226)	1.31		0.20	1.00	0.07	06/16/10	07/07/10
Radium 228	0.08	U	0.13		0.22	06/16/10	07/07/10
Uranium 235	0.01	U	0.19		0.34	06/16/10	07/07/10
Uranium 238	1.11	U	0.92		1.3	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	1.31		0.20		0.07	06/16/10	07/07/10
Lead 214	1.48		0.21		0.10	06/16/10	07/07/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-BKGD-9

Radiochemistry

Lab Sample ID: F0F110580-009
 Work Order: L2TF2
 Matrix: SOLID

Date Collected: 05/24/10 0935
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD							
Potassium 40	-0.3	U	12		0.8	06/16/10	07/07/10
Radium (226)	1.26		0.21	1.00	0.08	06/16/10	07/07/10
Radium 228	0.04	U	0.13		0.23	06/16/10	07/07/10
Uranium 235	0.08	U	0.20		0.35	06/16/10	07/07/10
Uranium 238	1.26	U	0.99		1.4	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	1.26		0.21		0.08	06/16/10	07/07/10
Lead 214	1.07		0.15		0.09	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-BKGD-10

Radiochemistry

Lab Sample ID: FOF110580-010
 Work Order: L2TF4
 Matrix: SOLID

Date Collected: 05/24/10 0945
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD							
Potassium 40	-0.3	U	120		2	06/16/10	07/07/10
Radium (226)	7.93		0.74	1.00	0.21	06/16/10	07/07/10
Radium 228	0.42	U	0.34		0.51	06/16/10	07/07/10
Uranium 235	-0.16	U	0.76		0.89	06/16/10	07/07/10
Uranium 238	0.5	U	2.1		3.6	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	7.93		0.74		0.21	06/16/10	07/07/10
Lead 214	7.78		0.65		0.32	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-BKGD-11

Radiochemistry

Lab Sample ID: FOF110580-011
 Work Order: L2TF6
 Matrix: SOLID

Date Collected: 05/24/10 0953
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD							
Potassium 40	-0.05	U	0.85		1.5	06/16/10	07/07/10
Radium (226)	0.61	J	0.17	1.00	0.12	06/16/10	07/07/10
Radium 228	-0.001	U	0.19		0.38	06/16/10	07/07/10
Uranium 235	0.0	U	0.27		0.48	06/16/10	07/07/10
Uranium 238	0.3	U	1.2		2.1	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	0.61		0.17		0.12	06/16/10	07/07/10
Lead 214	0.53		0.15		0.16	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

J Result is greater than sample detection limit but less than stated reporting limit.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-BKGD-12

Radiochemistry

Lab Sample ID: FOF110580-012
 Work Order: L2TF7
 Matrix: SOLID

Date Collected: 05/24/10 1001
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD							
Potassium 40	0.13	U	0.34		0.78	06/16/10	07/07/10
Radium (226)	0.81	J	0.15	1.00	0.05	06/16/10	07/07/10
Radium 228	-0.04	U	0.15		0.27	06/16/10	07/07/10
Uranium 235	-0.03	U	0.74		0.25	06/16/10	07/07/10
Uranium 238	-0.6	U	25		1	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	0.81		0.15		0.05	06/16/10	07/07/10
Lead 214	0.74		0.14		0.07	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

J Result is greater than sample detection limit but less than stated reporting limit.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-BKGD-13

Radiochemistry

Lab Sample ID: FOF110580-013
 Work Order: L2TF9
 Matrix: SOLID

Date Collected: 05/24/10 1010
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0167381	Yld %
Potassium 40	-0.04	U	0.85		1.4	06/16/10	07/07/10
Radium (226)	3.45		0.38	1.00	0.1	06/16/10	07/07/10
Radium 228	0.22	U	0.22		0.35	06/16/10	07/07/10
Uranium 235	-0.1	U	1.4		0.7	06/16/10	07/07/10
Uranium 238	-0.04	U	1.4		2.2	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	3.45		0.38		0.1	06/16/10	07/07/10
Cesium 137	0.196		0.065		0.045	06/16/10	07/07/10
Lead 214	3.84		0.40		0.18	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service
Client Sample ID: URUNAO-S-2B-BIASED-3

Radiochemistry

Lab Sample ID: FOF110580-016
 Work Order: L2TGL
 Matrix: SOLID

Date Collected: 05/24/10 1632
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0167381	Yld %
Potassium 40	-0.4	U	34		5	06/16/10	07/07/10
Radium (226)	72.0		4.7	1.0	0.9	06/16/10	07/07/10
Radium 228	1.3	U	1.2		1.9	06/16/10	07/07/10
Uranium 235	0.9	U	1.8		3.0	06/16/10	07/07/10
Uranium 238	3.8	U	7.2		12	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	72.0		4.7		0.9	06/16/10	07/07/10
Lead 210	25.2		8.3		11	06/16/10	07/07/10
Lead 214	73.7		4.7		1.2	06/16/10	07/07/10
Thallium 208	0.61		0.34		0.40	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service
Client Sample ID: URUNAO-S-2B-BIASED-6

Radiochemistry

Lab Sample ID: FOF110580-019
 Work Order: L2TGX
 Matrix: SOLID

Date Collected: 05/25/10 1127
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD							
Potassium 40	-0.4	U	51		2	06/16/10	07/07/10
Radium (226)	25.7		1.8	1.0	0.4	06/16/10	07/07/10
Radium 228	0.71	U	0.53		0.83	06/16/10	07/07/10
Uranium 235	0.8	U	1.1		1.8	06/16/10	07/07/10
Uranium 238	2.9	U	4.1		6.8	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	25.7		1.8		0.4	06/16/10	07/07/10
Lead 210	11.0		5.6		6.8	06/16/10	07/07/10
Lead 212	0.81		0.30		0.37	06/16/10	07/07/10
Lead 214	26.7		1.8		0.5	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service
Client Sample ID: URUNAO-S-2B-BIASED-7

Radiochemistry

Lab Sample ID: FOF110580-020
 Work Order: L2TGO
 Matrix: SOLID

Date Collected: 05/25/10 1145
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD							
Potassium 40	-0.3	U	14		4	06/16/10	07/07/10
Radium (226)	36.4		2.6	1.0	0.6	06/16/10	07/07/10
Radium 228	0.51	U	0.68		1.1	06/16/10	07/07/10
Uranium 235	0.9	U	1.2		1.9	06/16/10	07/07/10
Uranium 238	2.0	U	4.9		8.2	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	36.4		2.6		0.6	06/16/10	07/07/10
Lead 212	1.24		0.36		0.43	06/16/10	07/07/10
Lead 214	36.6		2.5		0.8	06/16/10	07/07/10
Thallium 208	0.36		0.22		0.27	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service

Client Sample ID: URUNAO-S-2B-BIASED-8

Radiochemistry

Lab Sample ID: F0F110580-021
 Work Order: L2TG1
 Matrix: SOLID

Date Collected: 05/25/10 1147
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD							
Potassium 40	-0.5	U	40		5	06/16/10	07/07/10
Radium (226)	44.1		3.1	1.0	0.6	06/16/10	07/07/10
Radium 228	1.71		0.99		1.5	06/16/10	07/07/10
Uranium 235	0.5	U	1.3		2.2	06/16/10	07/07/10
Uranium 238	3.4	U	5.8		9.6	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Actinium 228	1.71		0.99		1.5	06/16/10	07/07/10
Bismuth 214	44.1		3.1		0.6	06/16/10	07/07/10
Lead 212	1.22		0.51		0.64	06/16/10	07/07/10
Lead 214	46.9		3.1		0.8	06/16/10	07/07/10
Thallium 208	0.69		0.30		0.34	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service
Client Sample ID: URUNAO-S-2B-BIASED-11

Radiochemistry

Lab Sample ID: F0F110580-024
 Work Order: L2TG5
 Matrix: SOLID

Date Collected: 05/25/10 1532
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD							
Potassium 40	-0.7	U	13		4	06/16/10	07/07/10
Radium (226)	43.7		3.0	1.0	0.5	06/16/10	07/07/10
Radium 228	1.40		0.84		1.3	06/16/10	07/07/10
Uranium 235	0.3	U	1.5		2.4	06/16/10	07/07/10
Uranium 238	3.2	U	5.7		9.5	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Actinium 228	1.40		0.84		1.3	06/16/10	07/07/10
Bismuth 214	43.7		3.0		0.5	06/16/10	07/07/10
Lead 212	1.19		0.47		0.56	06/16/10	07/07/10
Lead 214	44.8		2.9		0.9	06/16/10	07/07/10
Thallium 208	0.40		0.24		0.27	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service
Client Sample ID: URUNAO-S-2B-BIASED-13

Radiochemistry

Lab Sample ID: FOF110580-026
 Work Order: L2THC
 Matrix: SOLID

Date Collected: 05/26/10 0654
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g	Batch # 0167383	Yld %	
Potassium 40	-0.08	U	2.7		2.9	06/16/10	07/07/10
Radium (226)	25.3		1.9	1.0	0.4	06/16/10	07/07/10
Radium 228	0.87	U	0.59		0.90	06/16/10	07/07/10
Uranium 235	0.78	U	0.89		1.5	06/16/10	07/07/10
Uranium 238	1.0	U	3.7		6.2	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	25.3		1.9		0.4	06/16/10	07/07/10
Lead 212	0.66		0.28		0.36	06/16/10	07/07/10
Lead 214	25.8		1.9		0.6	06/16/10	07/07/10
Thallium 208	0.38		0.19		0.22	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service
Client Sample ID: URUNAO-S-2B-BIASED-14

Radiochemistry

Lab Sample ID: F0F110580-027
 Work Order: L2THG
 Matrix: SOLID

Date Collected: 05/26/10 0800
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0167383	Yld %
Potassium 40	-0.5	U	7.8		3.1	06/16/10	07/07/10
Radium (226)	30.0		2.1	1.0	0.5	06/16/10	07/07/10
Radium 228	-0.01	U	0.62		1.1	06/16/10	07/07/10
Uranium 235	0.74	U	0.97		1.6	06/16/10	07/07/10
Uranium 238	1.0	U	3.2		5.4	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	30.0		2.1		0.5	06/16/10	07/07/10
Lead 212	0.94		0.38		0.44	06/16/10	07/07/10
Lead 214	30.1		2.0		0.6	06/16/10	07/07/10
Thallium 208	0.32		0.18		0.21	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Defense Finance & Accounting Service
Client Sample ID: URUNAO-S-2B-BIASED-15

Radiochemistry

Lab Sample ID: F0F110580-028
 Work Order: L2THJ
 Matrix: SOLID

Date Collected: 05/26/10 0821
 Date Received: 06/07/10 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		Batch # 0167383	Yld %
Potassium 40	-0.3	U	25		5	06/16/10	07/07/10
Radium (226)	60.3		3.9	1.0	0.8	06/16/10	07/07/10
Radium 228	1.23	U	0.87		1.4	06/16/10	07/07/10
Uranium 235	1.0	U	1.3		2.2	06/16/10	07/07/10
Uranium 238	3.6	U	5.3		8.7	06/16/10	07/07/10
--- Other Detected Radionuclides ---							
Bismuth 214	60.3		3.9		0.8	06/16/10	07/07/10
Lead 210	20.8		6.4		8.2	06/16/10	07/07/10
Lead 212	0.91		0.38		0.49	06/16/10	07/07/10
Lead 214	62.4		3.9		0.8	06/16/10	07/07/10

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

METHOD BLANK REPORT

Radiochemistry

Client Lot ID: F0F110580
 Matrix: SOLID

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	MDC	Prep Date	Lab Sample ID Analysis Date	
Gamma Ra-226 & Hits	By DOE	GA-010R	MOD	pCi/g	Batch #	0167381	Yld %	F0F160000-381B
Potassium 40	-0.3	U	13		1	06/16/10	07/07/10	
Radium (226)	0.01	U	0.087	1.00	0.17	06/16/10	07/07/10	
Radium 228	0.09	U	0.12		0.20	06/16/10	07/07/10	
Uranium 235	0.06	U	0.13		0.23	06/16/10	07/07/10	
Uranium 238	-0.1	U	1.3		1.5	06/16/10	07/07/10	
Gamma Ra-226 & Hits	By DOE	GA-010R	MOD	pCi/g	Batch #	0167383	Yld %	F0F160000-383B
Potassium 40	-0.12	U	0.47		0.84	06/16/10	07/07/10	
Radium (226)	0.030	U	0.087	1.00	0.17	06/16/10	07/07/10	
Radium 228	0.07	U	0.13		0.22	06/16/10	07/07/10	
Uranium 235	-0.0002	U	0.13		0.24	06/16/10	07/07/10	
Uranium 238	0.8	U	1.0		1.5	06/16/10	07/07/10	

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined using instrument performance only
 Bold results are greater than the MDC.

U Result is less than the sample detection limit.

Laboratory Control Sample Report

Radiochemistry

Client Lot ID: F0F110580
 Matrix: SOLID

Parameter	Spike Amount	Result	Total Uncert. (2 σ +/-)	MDC	% Yld	% Rec	Lab Sample ID QC Control Limits
Gamma Ra-226 & Hits By DOE GA-010R MOD							
			pCi/g				FOF160000-381C
Radium (226)	12.2	11.3	1.1	0.5		93	(79 - 110)
Thorium 232	9.50	10.8	1.2	0.6		113	(89 - 121)
	Batch #:	0167381		Analysis Date:	07/07/10		
Gamma Ra-226 & Hits By DOE GA-010R MOD							
			pCi/g				FOF160000-383C
Radium (226)	12.2	10.8	1.0	0.4		88	(79 - 110)
Thorium 232	9.50	8.68	0.99	0.98		91	(89 - 121)
	Batch #:	0167383		Analysis Date:	07/07/10		

NOTE(S)

MDC is determined by instrument performance only
 Calculations are performed before rounding to avoid round-off error in calculated results
 LOT# F0F110580

DUPLICATE EVALUATION REPORT

Radiochemistry

Client Lot ID: F0F110580
Matrix: SOLID

Date Sampled: 05/24/10
Date Received: 06/07/10

Parameter	SAMPLE Result	Total Uncert. (2σ +/-)	% Yld	DUPLICATE Result	Total Uncert. (2σ +/-)	% Yld	QC Sample ID	
								Precision
Gamma Ra-226 & Hits By DOE GA-010R MOD			pCi/g	GA-01-R MOD			F0F110580-001	
Potassium 40	-0.01	U	0.55	-0.4	U	15	186	%RPD
Radium (226)	0.86	J	0.19	0.61	J	0.16	34	%RPD
Radium 228	0.06	U	0.14	0.07	U	0.13	13	%RPD
Uranium 235	0.10	U	0.23	0.37	U	0.26	112	%RPD
Uranium 238	1.2	U	1.3	0.9	U	1.3	34	%RPD
---Other Dedected Radionuclides---								
Bismuth 214	0.86		0.19	0.61		0.16	34	%RPD
Lead 214	0.90		0.15	0.87		0.15	4	%RPD
Batch #:			0167381 (Sample)	0167381 (Duplicate)				
Gamma Ra-226 & Hits By DOE GA-010R MOD			pCi/g	GA-01-R MOD			F0F110574-021	
Potassium 40	0.17	U	0.91	1.2	U	1.4	150	%RPD
Radium (226)	16.0		1.2	16.2		1.3	2	%RPD
Radium 228	1.02		0.35	1.57		0.47	42	%RPD
Uranium 235	0.48	U	0.68	0.43	U	0.79	10	%RPD
Uranium 238	0.5	U	2.7	0.6	U	3.1	18	%RPD
---Other Dedected Radionuclides---								
Actinium 228	1.02		0.35	1.57		0.47	42	%RPD
Bismuth 214	16.0		1.2	16.2		1.3	2	%RPD
Lead 212	1.12		0.27	1.12		0.28	0.2	%RPD
Lead 214	17.0		1.2	17.1		1.3	0.8	%RPD
Batch #:			0167383 (Sample)	0167383 (Duplicate)				

NOTE (S)

Data are incomplete without the case narrative.
Calculations are performed before rounding to avoid round-off error in calculated results

- J Result is greater than sample detection limit but less than stated reporting limit.
U Result is less than the sample detection limit.

LOT# F0F110580

FOF110580

CLIENT ANALYSIS SUMMARY

Storage Loc: RAD
 Date Received: 2010-06-07
 Analytical Due Date: 2010-07-09
 Report Due Date: 2010-07-10
 Report Type: D Expanded Deliverable
 EDD Code: 00

Project Manager: IV Quote #: 86419 SDG:
 Project: GUAM/Uranao Dumpsites 1&2
 PO#: TO 107/123350 Report to: Joseph Strzempka
 Client: 1431288 Defense Finance & Accounting Service

#SMPS in LOT: 28

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
1	URUNAO-S-BKGD-1			2010-06-24 / 654	L2TE7	SOLID
SAMPLE COMMENTS:						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day in-growth	DQ DOD QSM V3	PROT: A WRK LOC 06
X XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day in-growth	DQ DOD QSM V3	PROT: A WRK LOC 06
2	URUNAO-S-BKGD-2			2010-05-24 / 746	L2TFD	SOLID
SAMPLE COMMENTS:						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day in-growth	DQ DOD QSM V3	PROT: A WRK LOC 06
3	URUNAO-S-BKGD-3			2010-05-24 / 750	L2TFG	SOLID
SAMPLE COMMENTS:						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day in-growth	DQ DOD QSM V3	PROT: A WRK LOC 06
4	URUNAO-S-BKGD-4			2010-05-24 / 757	L2TFJ	SOLID
SAMPLE COMMENTS:						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day in-growth	DQ DOD QSM V3	PROT: A WRK LOC 06
5	URUNAO-S-BKGD-5			2010-05-24 / 806	L2TFP	SOLID
SAMPLE COMMENTS:						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day in-growth	DQ DOD QSM V3	PROT: A WRK LOC 06
6	URUNAO-S-BKGD-6			2010-05-24 / 814	L2TFT	SOLID
SAMPLE COMMENTS:						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day in-growth	DQ DOD QSM V3	PROT: A WRK LOC 06
7	URUNAO-S-BKGD-7			2010-05-24 / 923	L2TFX	SOLID
SAMPLE COMMENTS:						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & HIs	J9	Dry, Grind, and Fill Geometry -> 21 day in-growth	DQ DOD QSM V3	PROT: A WRK LOC 06

FOF110580**CLIENT ANALYSIS SUMMARY**

Storage Loc:

RAD

Project Manager: IV

Quote #: 86419 SDG:

Date Received: 2010-06-07

Project:

GUAM/Uranao Dumpsites 1&2

Analytical Due Date: 2010-07-09

PO#: TO 107/123350

Report to: Joseph Strzempka

Report Due Date: 2010-07-10

Client: 1431288 Defense Finance & Accounting Service

#SMPS in LOT: 28

Report Type: D Expanded Deliverable

EDD Code: 00

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
8	URUNAO-S-BKGD-8			2010-05-24/ 926	L2TF0	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day in-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
9	URUNAO-S-BKGD-9			2010-05-24/ 935	L2TF2	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day in-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
10	URUNAO-S-BKGD-10			2010-05-24/ 945	L2TF4	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day in-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
11	URUNAO-S-BKGD-11			2010-05-24/ 953	L2TF6	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day in-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
12	URUNAO-S-BKGD-12			2010-05-24/ 1001	L2TF7	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day in-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
13	URUNAO-S-BKGD-13			2010-05-24/ 1010	L2TF9	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day in-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
14	URUNAO-S-2B-BIASED-1			2010-05-24/ 1607	L2TGE	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day in-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
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TestAmerica - St. Louis

Logged in by: VANIAI

2010-06-30

12:55:23

printed on: Tuesday, July 06, 2010 04:43 PM

Page 2 of 4

FOF110580**CLIENT ANALYSIS SUMMARY**

Storage Loc:

RAD

Project Manager: IV Quote #: 86419 SDG:
 Project: GUAM/Uranao Dumpsites 1&2
 PO#: TO 107/123350 Report to: Joseph Strzempka
 Client: 1431288 Defense Finance & Accounting Service

Date Received: 2010-08-07
 Analytical Due Date: 2010-07-09
 Report Due Date: 2010-07-10
 Report Type: D Expanded Deliverable
 EDD Code: 00

#SMPS in LOT: 28

15 URUNAO-S-2B-BIASED-2 2010-05-24/ 1620 L2TGJ SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hite	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
16	URUNAO-S-2B-BIASED-3			2010-05-24/ 1632	L2TGL	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hite	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
17	URUNAO-S-2B-BIASED-4			2010-05-25/ 739	L2TGP	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hite	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
18	URUNAO-S-2B-BIASED-5			2010-05-25/ 1125	L2TGR	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hite	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
19	URUNAO-S-2B-BIASED-6			2010-05-25/ 1127	L2TGX	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hite	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
20	URUNAO-S-2B-BIASED-7			2010-05-25/ 1145	L2TGO	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hite	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
21	URUNAO-S-2B-BIASED-8			2010-05-25/ 1147	L2TG1	SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hite	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
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F0F110580

CLIENT ANALYSIS SUMMARY

Storage Loc:

RAD

Project Manager: IV Quote #: 86419 SDG;
 Project: GUAM/Uranao Dumpsites 1&2
 PO#: TO 107/123350 Report to: Joseph Strzempka
 Client: 1431288 Defense Finance & Accounting Service

Date Received: 2010-06-07
 Analytical Due Date: 2010-07-09
 Report Due Date: 2010-07-10
 Report Type: D Expanded Deliverable
 EDD Code: 00

#SMPS In LOT: 28

22 URUNAO-S-2B-BIASED-9 2010-05-25 / 1448 L2TG2 SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

SAMPLE # CLIENT SAMPLE ID Site ID Client Matrix DATE/TIME SAMPLED WORKORDER A
 23 URUNAO-S-2B-BIASED-10 2010-05-25 / 1507 L2TG4 SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

SAMPLE # CLIENT SAMPLE ID Site ID Client Matrix DATE/TIME SAMPLED WORKORDER A
 24 URUNAO-S-2B-BIASED-11 2010-05-25 / 1532 L2TG5 SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

SAMPLE # CLIENT SAMPLE ID Site ID Client Matrix DATE/TIME SAMPLED WORKORDER A
 25 URUNAO-S-2B-BIASED-12 2010-05-25 / 1547 L2TG9 SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

SAMPLE # CLIENT SAMPLE ID Site ID Client Matrix DATE/TIME SAMPLED WORKORDER A
 26 URUNAO-S-2B-BIASED-13 2010-05-26 / 654 L2THC SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

SAMPLE # CLIENT SAMPLE ID Site ID Client Matrix DATE/TIME SAMPLED WORKORDER A
 27 URUNAO-S-2B-BIASED-14 2010-05-26 / 800 L2THG SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

SAMPLE # CLIENT SAMPLE ID Site ID Client Matrix DATE/TIME SAMPLED WORKORDER A
 28 URUNAO-S-2B-BIASED-15 2010-05-26 / 821 L2THJ SOLID

SAMPLE COMMENTS:

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, RAD SCREEN, Special L	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hlts	J9	Dry, Grind, and Fill Geometry -> 21 day In-growth	DQ	DOD QSM V3	PROT: A	WRK LOC	06

St. Louis
 13715 Rider Trail North
 Earth City, MO 63045
 phone 314.298.8566 fax 314.298.8757

Chain of Custody Record



TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Ivan Vanis		Site Contact:		Date:		COC No:	
US Air Force		Tel/Fax: (314) 298-8566		Lab Contact:		Carrier:		TB of 99 COCs	
Unit 5213, Box 10		Analysis Turnaround Time		Pillared Sample					
APO, AP 96368-5213		Calendar (C) or Work Days (W) <u>C</u>							
011-81-961-7361		TAT if different from Below: <u>45 D</u>							
roberta.lenski@us.af.mil		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							
Project Name: Urunao Site Final Status Survey								Job No.	
Site: Urunao Site, Andersen AB, Guam								SDG No.	
PO #									
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Sample Specific Notes:		
Urunao-S-BKGD-1; coords: 144.8406226/13.61125034		24-May-10	06:54:54am	Soil Sample	BKGD	1	Top, overgrown clearing, mixed soil, mostly limestone		
Urunao-S-BKGD-2; coords: 144.8407985/13.6111599		24-May-10	07:46:36am	Soil Sample	BKGD	1	Top, overgrown clearing, mixed soil		
Urunao-S-BKGD-3; coords: 144.8409549/13.61120524		24-May-10	07:50:47am	Soil Sample	BKGD	1	Top, clearing, mixed soil		
Urunao-S-BKGD-4; coords: 144.8410353/13.61130487		24-May-10	07:57:31am	Soil Sample	BKGD	1	Top, overgrown clearing, mixed soil		
Urunao-S-BKGD-5; coords: 144.8414696/13.61131618		24-May-10	08:06:20am	Soil Sample	BKGD	1	Top, overgrown clearing, reddish soil		
Urunao-S-BKGD-6; coords: 144.841921/13.61128471		24-May-10	08:16:11am	Soil Sample	BKGD	1	Top, clearing, base spot of red clay		
Urunao-S-BKGD-7; coords: 144.8380652/13.61156794		24-May-10	09:25:53am	Soil Sample	BKGD	1	Bottom, clearing, mixed soil		
Urunao-S-BKGD-8; coords: 144.8379783/13.6115178		24-May-10	09:26:49am	Soil Sample	BKGD	1	Bottom, just off road, mixed soil		
Urunao-S-BKGD-9; coords: 144.8381542/13.61145507		24-May-10	09:55:57am	Soil Sample	BKGD	1	Bottom, overgrown clearing, mixed soil		
Urunao-S-BKGD-10; coords: 144.8376684/13.61051067		24-May-10	09:45:25am	Soil Sample	BKGD	1	Bottom, clearing just off road, mixed soil		
Urunao-S-BKGD-11; coords: 144.8373357/13.61026585		24-May-10	09:53:26am	Soil Sample	BKGD	1	Bottom, overgrown rocky area, sample taken at clearing location, mixed soil		
Urunao-S-BKGD-12; coords: 144.8371502/13.61013789		24-May-10	10:01:15am	Soil Sample	BKGD	1	Bottom, clearing, on road, mixed soil, mostly limestone		
Urunao-S-BKGD-13; coords: 144.8369562/13.61010789		24-May-10	10:10:01am	Soil Sample	BKGD	1	Bottom, sample site in forest on rockpile, sample taken in clearing, mixed soil		
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other									
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					<input checked="" type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Special Instructions/QC Requirements & Comments: (Analyze for Ra-226. Report results in pCi/g. Return samples to US Air Force—address TBD—after analysis.)									
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:				
<i>Robert Lenski</i>	USAF	26 MAY 10/1445	<i>William P. Mitchell</i>	USAF	26 MAY 10/1445				
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:				
<i>William P. Mitchell</i>			<i>John Clark</i>	TA-SJR	6-7-10 0900				
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:				

Attachment 16: TestAmerica Results for Survey Units Bkgd and 2B Biased TestAmerica St. Louis

LOT# F0F110580

Attachment 16
41 of 44p Page 41 of 44

St. Louis
13715 Rider Trail North
Earth City, MO 63045
phone 314.298.8566 fax 314.298.8757

Chain of Custody Record



TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Ivan Vania				Site Contact:		Date:		COC No:							
US Air Force		Tel/Fax: (314) 298-8566				Lab Contact:		Carrier:		5 of 78-9 COCs							
Unit 5213, Box 10		Analysis Turnaround Time				Filtered Sample				Job No.							
APO, AP 96368-5213		Calendar (C) or Work Days (W) <u>C</u>															
011-81-961-7361		TAT if different from Below <u>45P</u>															
roberta.lenski@us.af.mil		<input type="checkbox"/> 2 weeks															
Project Name: Urunao Site Final Status Survey		<input type="checkbox"/> 1 week															
Site: Urunao Site, Andersen AB, Guam		<input type="checkbox"/> 2 days				Sample Specific Notes:				SDG No.							
P O #		<input type="checkbox"/> 1 day															
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix							# of Cont.					
Urunao-S-2B-Biased-1; coords: 144.8402978/13.61558429		24-May-10	04:07:52pm	Soil Sample	Biased							1	Over ridge, reddish soil				
Urunao-S-2B-Biased-2; coords: 144.8402831/13.6155389		24-May-10	04:20:46pm	Soil Sample	Biased							1	Over ridge, reddish soil				
Urunao-S-2B-Biased-3; coords: 144.8402804/13.61583916		24-May-10	04:32:32pm	Soil Sample	Biased	1	Over ridge, reddish soil										
Urunao-S-2B-Biased-4; coords: 144.8402274/13.61551757		25-May-10	07:59:58am	Soil Sample	Biased	1	Over ridge where marker was found, reddish soil										
Urunao-S-2B-Biased-5; coords: 144.8402466/13.61551347		25-May-10	11:25:26am	Soil Sample	Biased	1	3 ft from marker location on road, reddish soil										
Urunao-S-2B-Biased-6; coords: 144.8402659/13.61549966		25-May-10	11:27:41am	Soil Sample	Biased	1	Over ridge, reddish soil										
Urunao-S-2B-Biased-7; coords: 144.8402935/13.6154502		25-May-10	11:45:36am	Soil Sample	Biased	1	Over ridge, reddish soil										
Urunao-S-2B-Biased-8; coords: 144.8402757/13.61544561		25-May-10	11:47:07am	Soil Sample	Biased	1	Over ridge, reddish soil										
Urunao-S-2B-Biased-9; coords: 144.8402613/13.61560524		25-May-10	02:48:26pm	Soil Sample	Biased	1	Over ridge, reddish soils										
Urunao-S-2B-Biased-10; coords: 144.8402442/13.61567405		25-May-10	03:07:03pm	Soil Sample	Biased	1	Over ridge, reddish soil, near hmt2										
Urunao-S-2B-Biased-11; coords: 144.8402639/13.61578698		25-May-10	03:22:32pm	Soil Sample	Biased	1	Over ridge, reddish soil										
Urunao-S-2B-Biased-12; coords: 144.8402949/13.61561255		25-May-10	03:47:07pm	Soil Sample	Biased	1	Over ridge, reddish soil										
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other																	
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						<input checked="" type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months											
Special Instructions/QC Requirements & Comments: (Analyze for Ra-226. Report results in pCi/g. Return samples to US Air Force—address TBD—after analysis.)																	
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:							
Robert Lenski		USAF		20 May 10 / 1445		William P. Mitchell		USAF		24 MAY 10 / 1445							
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:							
William P. Mitchell		USAF				All Clark		TA-SIL		10-7-10 0900							
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:							

Attachment 16: TestAmerica Results for Survey Units Bkgd and 2B Biased TestAmerica St. Louis

LOT# F0F110580

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Attachment 16

St. Louis
 13715 Rider Trail North
 Earth City, MO 63045
 phone 314.298.8566 fax 314.298.8757

Chain of Custody Record



TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Ivan Varia			Site Contact:			Date:			COC No:		
US Air Force		Tel/Fax: (314) 298-8566			Lab Contact:			Carrier:			9 of 9 COCs		
Unit 5213, Box 10		Analysis Turnaround Time			26-May-10 06:54:42am Soil Sample Biased 1 26-May-10 08:00:25am Soil Sample Biased 1 26-May-10 08:21:54am Soil Sample Biased 1			Job No.					
APO, AP 96368-5213		Calendar (C) or Work Days (W) C						SDG No.					
011-81-961-7351		TAT if different from Below 45 D						Sample Specific Notes:					
roberta.lenski@us.af.mil		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day											
Project Name: Urunao Site Final Status Survey													
Site: Urunao Site, Andersen AB, Guam													
P O #													
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.							
Urunao-S-2B-Biased-13; coords: 144.8402802/13.61565306		26-May-10	06:54:42am	Soil Sample	Biased	1	Top of ridge, reddish soil						
Urunao-S-2B-Biased-14; coords: 144.8402507/13.61564558		26-May-10	08:00:25am	Soil Sample	Biased	1	Over the ridge, reddish soil w/ lot of man-made debris						
Urunao-S-2B-Biased-15; coords: 144.8402385/13.6155128		26-May-10	08:21:54am	Soil Sample	Biased	1	Over the ridge, just below biased 4, reddish soil						
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other													
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)								
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					<input checked="" type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months								
Special Instructions/QC Requirements & Comments: (Analyze for Ra-226. Report results in pCi/g. Return samples to US Air Force—address TBD—after analysis.)													
Relinquished by: <i>Robert Lenski</i>		Company: USAF		Date/Time: 26 May 10 / 1445		Received by: <i>William P. Mitchell</i>		Company: USAF		Date/Time: 26 May 10 / 1445			
Relinquished by: <i>William P. Mitchell</i>		Company: USAF		Date/Time:		Received by: <i>Bill Clark</i>		Company: TA-STL		Date/Time: 10-7-10 0900			
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:			

Attachment 16: TestAmerica Results for Survey Units Bkgd and 2B Biased TestAmerica St. Louis

LOT# FOF110580



Lot # (s): FOF110566
576
574
(580)

CONDITION UPON RECEIPT FORM

Client: S/Haw F&I

Quote No: 76681

COC/RFA No: N/A

Initiated By: NVO

Date: 6/5/10

Time: 0830

Shipping Information

Shipper: FedEx UPS DHL Courier Client

Other: _____ Multiple Packages: Y N

Shipping # (s):*

Sample Temperature (s):**

1. 863937592573

1. AMBIENT

2. _____

2. _____

3. _____

3. _____

4. _____

4. _____

5. _____

5. _____

*Numbered shipping lines correspond to Numbered Sample Temp lines

** Sample must be received at 4°C ± 2°C. If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1.	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N	Are there custody seals present on the cooler?	8.	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N	Are there custody seals present on bottles?
2.	<input checked="" type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Do custody seals on cooler appear to be tampered with?	9.	<input checked="" type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Do custody seals on bottles appear to be tampered with?
3.	<input checked="" type="radio"/> Y <input type="radio"/> N	Were contents of cooler frisked after opening, but before unpacking?	10.	<input checked="" type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Was sample received with proper pH? (If not, make note below)
4.	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N	Sample received with Chain of Custody?	11.	<input checked="" type="radio"/> Y <input type="radio"/> N	Sample received in proper containers?
5.	<input checked="" type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Does the Chain of Custody match sample ID's on the container(s)?	12.	<input checked="" type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
6.	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N	Was sample received broken?	13.	<input checked="" type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Was Internal COC/Workshare received?
7.	<input checked="" type="radio"/> Y <input type="radio"/> N	Is sample volume sufficient for analysis?	14.	<input checked="" type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Was pH taken by original TestAmerica lab?

¹ For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

Notes: 4. received COC'S on 4/11

Corrective Action:

Client Contact Name:

Sample(s) processed "as is"

Sample(s) on hold until:

Project Management Review: _____

Informed by: _____

If released, notify: _____

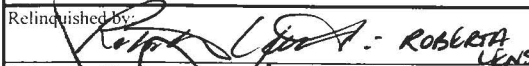
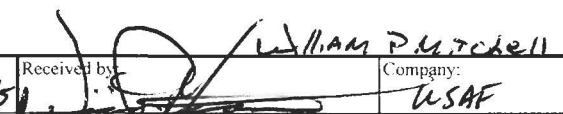

Date: 6-29-10

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

ADMIN-0004 REVISED 10/21/08 \slsvr01\QA\FORMS\ST-L. LOUISADMIN\Admin004 rev11.doc

Attachment 17: Signed Chain of Custody Forms
Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Ivan Vania				Site Contact:		Date:		COC No:	
Your Company Name: US Air Force		Tel/Fax: (314) 298-8566				Lab Contact:		Carrier:		1 of 9 COCs	
Address: Unit 5213, Box 10		Analysis Turnaround Time				Filtered Sample				Job No.	
City, State, Zip: APO, AP 96368-5213		Calendar (C) or Work Days (W) <u>C</u>									
011-81-961-7361 Phone		TAT if different from Below <u>45D</u>									
roberta.lenski@us.af.mil email/FAX		<input type="checkbox"/> 2 weeks									
Project Name: Urunao Site Final Status Survey		<input type="checkbox"/> 1 week									
Site: Urunao Site, Andersen AB, Guam		<input type="checkbox"/> 2 days								SDG No.	
P O #		<input type="checkbox"/> 1 day									
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.					Sample Specific Notes:
Urunao-S-1A-1; coords: 144.838513417/13.613090932		22-May-10	10:49:36am	Soil Sample	1A	1					Sample location on huge rock pile on lower flat area, offset to soil beside rocks
Urunao-S-1A-2; coords: 144.838602102/13.613424276		22-May-10	10:56:23am	Soil Sample	1A	1					Lower flat, mixed soil
Urunao-S-1A-3; coords: 144.838597299/13.613573486		22-May-10	11:04:26am	Soil Sample	1A	1					Sample at edge of rockpile, mixed soil
Urunao-S-1A-4; coords: 144.838912770/13.613579925		22-May-10	11:13:48am	Soil Sample	1A	1					Slopeside beneath rockpile, mixed soil
Urunao-S-1A-5; coords: 144.838973369/13.613670767		22-May-10	11:18:26am	Soil Sample	1A	1					Slopeside on limestone outcropping, mixed soil
Urunao-S-1A-6; coords: 144.839071725/13.613322660		22-May-10	11:32:13am	Soil Sample	1A	1					Mixed soil on limestone rockpile
Urunao-S-1A-7; coords: 144.839004557/13.613305391		22-May-10	11:43:42am	Soil Sample	1A	1					Offset from rockpile, mixed soil
Urunao-S-1A-8; coords: 144.838951647/13.613292322		22-May-10	11:48:52am	Soil Sample	1A	1					Offset from rockpile, mixed soil
Urunao-S-1A-9; coords: 144.839066303/13.612994946		22-May-10	12:01:58pm	Soil Sample	1A	1					Shaw garden, red clay
Urunao-S-1A-10; coords: 144.839167747/13.613055636		22-May-10	12:08:00pm	Soil Sample	1A	1					Mixed soil on limestone outcropping
Urunao-S-1A-11; coords: 144.839301800/13.613368116		22-May-10	12:18:16pm	Soil Sample	1A	1					Offset at base of cliff, mixed soil
Urunao-S-1A-12; coords: 144.839444188/13.612924669		22-May-10	12:40:33pm	Soil Sample	1A	1					Sample site inaccessible, offset below cliff, mixed soil
Urunao-S-1A-13; coords: 144.838888581/13.613033847		22-May-10	12:51:48pm	Soil Sample	1A	1					Sample site on rockpile, offset to limestone soil beside
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH; 6= Other _____											
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> _____						<input checked="" type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements & Comments: (Analyze for Ra-226. Report results in pCi/g. Return samples to US Air Force--address TBD--after analysis.)											
Relinquished by: 		Company: USAF		Date/Time: 20 May 10 / 1445		Received by: 		Company: USAF		Date/Time: 20 May 10 / 1445	
Relinquished by: 		Company: USAF		Date/Time:		Received by:		Company:		Date/Time:	
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:	

St. Louis
 13715 Rider Trail North
 Earth City, MO 63045
 phone 314.298.8566 fax 314.298.8757

Attachment 17: Signed Chain of Custody Forms
Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Ivan Vania			Site Contact:			Date:			COC No:		
US Air Force		Tel/Fax: (314) 298-8566			Lab Contact:			Carrier:			2 of 9 COCs		
Unit 5213, Box 10		Analysis Turnaround Time			Filtered Sample						Job No		
APO, AP 96368-5213		Calendar (C) or Work Days (W) <u>C</u>											
011-81-961-7361		TAT if different from Below <u>45D</u>											
roberta.lenski@us.af.mil		<input type="checkbox"/> 2 weeks											
Project Name: Urunao Site Final Status Survey		<input type="checkbox"/> 1 week											
Site: Urunao Site, Andersen AB, Guam		<input type="checkbox"/> 2 days									SDG No.		
P O #		<input type="checkbox"/> 1 day											
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.				Sample Specific Notes:			
Urunao-S-1B-1; coords: 144.841954657 13.616949181		21-May-10	06:40:37am	Soil Sample	1B	1				Top of ridge, mixed soil			
Urunao-S-1B-2; coords: 144.840890710 13.612998827		21-May-10	07:13:07am	Soil Sample	1B	1				Top of ridge, mixed soil			
Urunao-S-1B-3; coords: 144.840608366 13.613502379		21-May-10	07:22:43am	Soil Sample	1B	1				Top of ridge, outside stone wall, mixed soil on outcropping			
Urunao-S-1B-4; coords: 144.840592714 13.613582492		21-May-10	07:29:41am	Soil Sample	1B	1				Top of ridge, outside stone wall, mixed soil			
Urunao-S-1B-5; coords: 144.840605390 13.613671415		21-May-10	07:36:00am	Soil Sample	1B	1				Top of ridge, outside stone wall, limestone outcropping			
Urunao-S-1B-6; coords: 144.840679347 13.613801625		21-May-10	07:42:34am	Soil Sample	1B	1				Top of ridge, just inside rock wall, mostly limestone			
Urunao-S-1B-7; coords: 144.840450772 13.613200827		21-May-10	08:00:34am	Soil Sample	1B	1				Slopeside, mixed soil			
Urunao-S-1B-8; coords: 144.840288872 13.613624023		21-May-10	08:23:08am	Soil Sample	1B	1				Slopeside, red clay on limestone outcropping			
Urunao-S-1B-9; coords: 144.839979404 13.612992611		21-May-10	08:44:46am	Soil Sample	1B	1				Slopeside, base of limestone outcropping, reddish soil			
Urunao-S-1B-10; coords: 144.839964612 13.613205910		21-May-10	08:51:37am	Soil Sample	1B	1				Slopeside, overgrown area, reddish soil			
Urunao-S-1B-11; coords: 144.839985460 13.613465677		21-May-10	09:01:41am	Soil Sample	1B	1				Slopeside, red clay			
Urunao-S-1B-12; coords: 144.839937658 13.613765478		21-May-10	09:13:47am	Soil Sample	1B	1				Slopeside, limestone outcropping, mixed soil			
Urunao-S-1B-13; coords: 144.839785965 13.613380485		21-May-10	09:49:00am	Soil Sample	1B	1				Slopeside, just beyond overgrown rock pile, mixed soil			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other													
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						<input checked="" type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Special Instructions/QC Requirements & Comments: (Analyze for Ra-226. Report results in pCi/g. Return samples to US Air Force--address TBD--after analysis.)													
Relinquished by: <u>ROBERTA LENSKI</u>		Company: <u>USAF</u>		Date/Time: <u>26 MAY 10 / 1445</u>		Received by: <u>W. A. P. MITCHELL</u>		Company: <u>USAF</u>		Date/Time: <u>26 MAY 10 / 1445</u>			
Relinquished by: <u>W. A. P. MITCHELL</u>		Company: <u>USAF</u>		Date/Time:		Received by:		Company:		Date/Time:			
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:			

Attachment 17: Signed Chain of Custody Forms
Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Ivan Vania				Site Contact:				Date:				COC No:	
US Air Force		Tel/Fax: (314) 298-8566				Lab Contact:				Carrier:				3 of 79 COCs	
Unit 5213, Box 10		Analysis Turnaround Time				Filtered Sample								Job No.	
APO, AP 96368-5213		Calendar (C) or Work Days (W) C												SDG No.	
011-81-961-7361		TAT if different from Below 450												Sample Specific Notes:	
roberta.lenski@us.af.mil		<input type="checkbox"/> 2 weeks													
Project Name: Urunao Site Final Status Survey		<input type="checkbox"/> 1 week													
Site: Urunao Site, Andersen AB, Guam		<input type="checkbox"/> 2 days													
P O #		<input type="checkbox"/> 1 day													
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.									
Urunao-S-1C-1; coords: 144.838423966/13.612659415		20-May-10	01:31:27pm	Soil Sample	1C	1							Top of ridge, mixed soil		
Urunao-S-1C-2; coords: 144.838778450/13.612795941		20-May-10	01:40:31pm	Soil Sample	1C	1							Flat area, limestone		
Urunao-S-1C-3; coords: 144.838848355/13.612959927		20-May-10	01:46:20pm	Soil Sample	1C	1							Base of hill, mixed soil (limestone, silty-sand)		
Urunao-S-1C-4; coords: 144.838780572/13.612349825		20-May-10	02:03:11pm	Soil Sample	1C	1							Slopeside offset due to rock outcropping, red clay		
Urunao-S-1C-5; coords: 144.838631083/13.612021454		20-May-10	02:13:36pm	Soil Sample	1C	1							Flat area, covered with dead grass, red clay underneath		
Urunao-S-1C-6; coords: 144.839109643/13.612124216		20-May-10	02:36:34pm	Soil Sample	1C	1							Slopeside, very rocky		
Urunao-S-1C-7; coords: 144.839133237/13.612259366		20-May-10	02:48:25pm	Soil Sample	1C	1							Slopeside, rocky, probe perpendicular to slope		
Urunao-S-1C-8; coords: 144.839263677/13.612847681		20-May-10	03:01:44pm	Soil Sample	1C	1							Slopeside, rocky and overgrown		
Urunao-S-1C-9; coords: 144.839464153/13.612623278		20-May-10	03:14:31pm	Soil Sample	1C	1							Slopeside, soil on limestone outcropping		
Urunao-S-1C-10; coords: 144.839437258/13.612300926		20-May-10	03:30:36pm	Soil Sample	1C	1							Steep slope, tailings		
Urunao-S-1C-11; coords: 144.839425790/13.612182453		20-May-10	03:44:36pm	Soil Sample	1C	1							Steep rock pile		
Urunao-S-1C-12; coords: 144.839478771/13.612155732		20-May-10	04:01:23pm	Soil Sample	1C	1							Steep, rocky slope		
Urunao-S-1C-13; coords: 144.839470996/13.612130207		20-May-10	04:09:05pm	Soil Sample	1C	1							Steep slope, loose soil on deer trail		
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____															
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/>						<input checked="" type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Special Instructions/QC Requirements & Comments: (Analyze for Ra-226. Report results in pCi/g. Return samples to US Air Force--address TBD--after analysis.)															
Relinquished by: <i>[Signature]</i> ROBERTA LENSKI		Company: USAF		Date/Time: 26 MAY 10 / 1445		Received by: <i>[Signature]</i> WILLIAM P MITCHELL		Company: USAF		Date/Time: 26 MAY 10 / 1445					
Relinquished by: <i>[Signature]</i> WILLIAM P MITCHELL		Company: USAF		Date/Time:		Received by:		Company:		Date/Time:					
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:					

St. Louis
 13715 Rider Trail North
 Earth City, MO 63045
 phone 314.298.8566 fax 314.298.8757

Attachment 17: Signed Chain of Custody Forms
Chain of Custody Record



TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Ivan Vania				Site Contact:				Date:				COC No:						
US Air Force		Tel/Fax: (314) 298-8566				Lab Contact:				Carrier:				8 of 789 COCs						
Unit 5213, Box 10		Analysis Turnaround Time				Filtered Sample												Job No.		
APO, AP 96368-5213		Calendar (C) or Work Days (W) <u>C</u>																SDG No.		
011-81-961-7361		TAT if different from Below <u>45D</u>																Sample Specific Notes:		
roberta.lenski@us.af.mil		<input type="checkbox"/> 2 weeks																		
Project Name: Urunao Site Final Status Survey		<input type="checkbox"/> 1 week																		
Site: Urunao Site, Andersen AB, Guam		<input type="checkbox"/> 2 days																		
P O #		<input type="checkbox"/> 1 day																		
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.														
Urunao-S-2B-Biased-1; coords: 144.8402978/13.61558429		24-May-10	04:07:52pm	Soil Sample	Biased	1													Over ridge, reddish soil	
Urunao-S-2B-Biased-2; coords: 144.8402831/13.6155389		24-May-10	04:20:46pm	Soil Sample	Biased	1													Over ridge, reddish soil	
Urunao-S-2B-Biased-3; coords: 144.8402804/13.61583916		24-May-10	04:32:32pm	Soil Sample	Biased	1													Over ridge, reddish soil	
Urunao-S-2B-Biased-4; coords: 144.8402274/13.61551757		25-May-10	07:39:58am	Soil Sample	Biased	1													Over ridge where marker was found, reddish soil	
Urunao-S-2B-Biased-5; coords: 144.8402466/13.61551347		25-May-10	11:25:26am	Soil Sample	Biased	1													3 ft from marker location on path, reddish soil	
Urunao-S-2B-Biased-6; coords: 144.8402659/13.61549966		25-May-10	11:27:41am	Soil Sample	Biased	1													Over ridge, reddish soil	
Urunao-S-2B-Biased-7; coords: 144.8402935/13.6154502		25-May-10	11:45:36am	Soil Sample	Biased	1													Over ridge, reddish soil	
Urunao-S-2B-Biased-8; coords: 144.8402757/13.61544561		25-May-10	11:47:07am	Soil Sample	Biased	1													Over ridge, reddish soil	
Urunao-S-2B-Biased-9; coords: 144.8402613/13.61560524		25-May-10	02:48:36pm	Soil Sample	Biased	1													Over ridge, reddish soils	
Urunao-S-2B-Biased-10; coords: 144.8402442/13.61567405		25-May-10	03:07:03pm	Soil Sample	Biased	1													Over ridge, reddish soil, near hot2	
Urunao-S-2B-Biased-11; coords: 144.8402639/13.61578698		25-May-10	03:32:32pm	Soil Sample	Biased	1													Over ridge, reddish soil	
Urunao-S-2B-Biased-12; coords: 144.8402949/13.61561255		25-May-10	03:47:07pm	Soil Sample	Biased	1													Over ridge, reddish soil	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other																				
Possible Hazard Identification														Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/>														<input checked="" type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Special Instructions/QC Requirements & Comments:																				
(Analyze for Ra-226. Report results in pCi/g. Return samples to US Air Force--address TBD--after analysis.)																				
Relinquished by: <u>ROBERTA LENSKI</u>		Company: <u>USAF</u>		Date/Time: <u>26 MAY 10 / 1445</u>		Received by: <u>W. Mitchell</u>		Company: <u>USAF</u>		Date/Time: <u>26 MAY 10 / 1445</u>										
Relinquished by: <u>W. Mitchell</u>		Company: <u>USAF</u>		Date/Time:		Received by:		Company:		Date/Time:										
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:										

TestAmerica Laboratories, Inc.

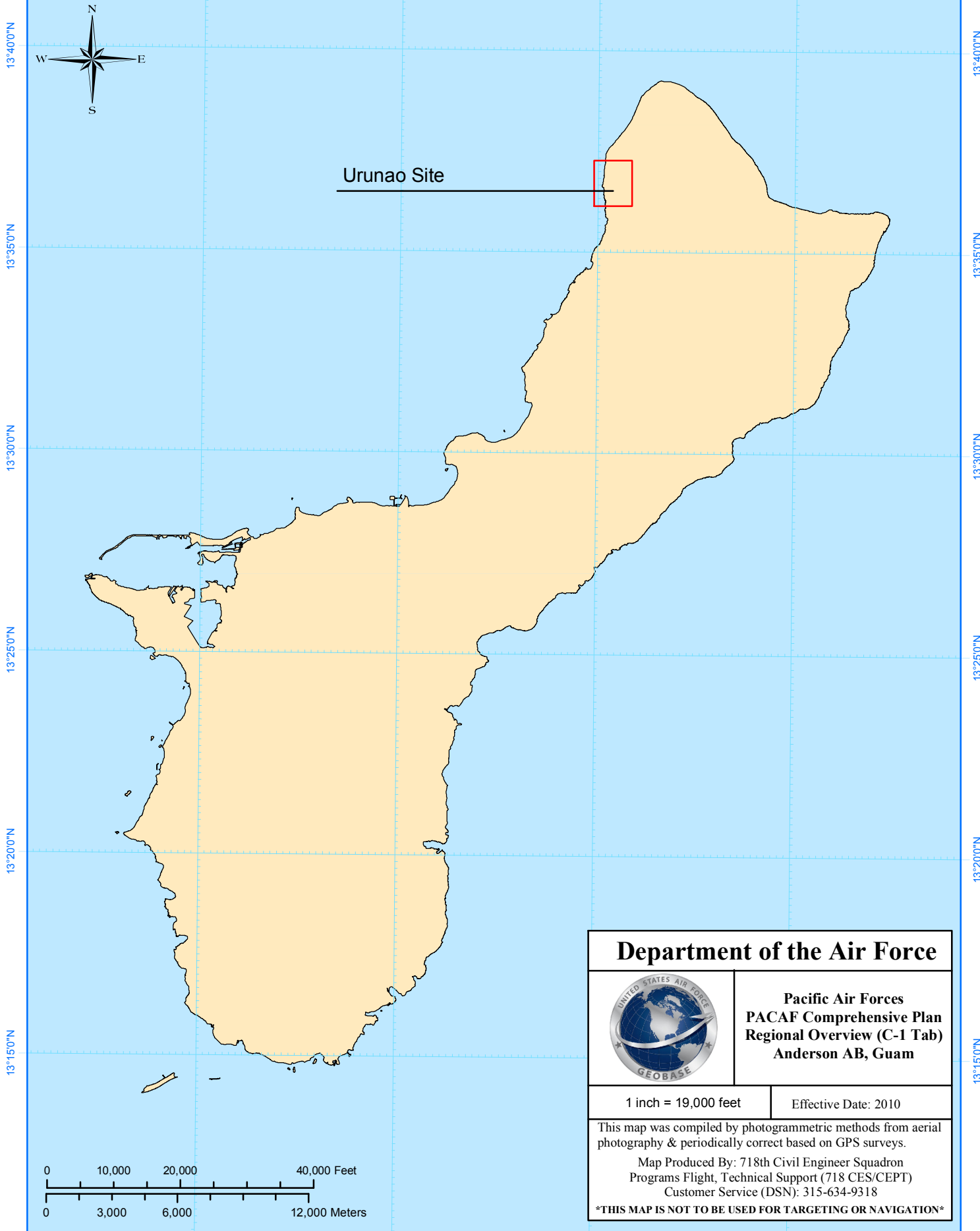
Client Contact		Project Manager: Ivan Vania				Site Contact:		Date:		COC No:							
US Air Force		Tel/Fax: (314) 298-8566				Lab Contact:		Carrier:		9 of 9 COCs							
Unit 5213, Box 10		Analysis Turnaround Time				Filtered Sample				Job No.							
APO, AP 96368-5213		Calendar (C) or Work Days (W) <u>C</u>															
011-81-961-7361		TAT if different from Below <u>45 D</u>															
roberta.lenski@us.af.mil		<input type="checkbox"/> 2 weeks															
Project Name: Urunao Site Final Status Survey		<input type="checkbox"/> 1 week															
Site: Urunao Site, Andersen AB, Guam		<input type="checkbox"/> 2 days								SDG No.							
P O #		<input type="checkbox"/> 1 day															
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix							# of Cont.	Sample Specific Notes:				
Urunao-S-2B-Biased-13; coords: 144.8402802/13.61565306		26-May-10	06:54:48am	Soil Sample	Biased							1	Top of ridge, reddish soil				
Urunao-S-2B-Biased-14; coords: 144.8402507/13.61564558		26-May-10	08:00:25am	Soil Sample	Biased							1	Over the ridge, reddish soil with a lot of man-made debris				
Urunao-S-2B-Biased-15; coords: 144.8402385/13.6155128		26-May-10	08:21:34am	Soil Sample	Biased	1	Over the ridge, just below biased 4, reddish soil										
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____																	
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/>						<input checked="" type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months											
Special Instructions/QC Requirements & Comments: (Analyze for Ra-226. Report results in pCi/g. Return samples to US Air Force--address TBD--after analysis.)																	
Relinquished by: <u>Roberta Lenski</u>		Company: <u>USAF</u>		Date/Time: <u>26 MAY 10/1445</u>		Received by: <u>William P. Mitchell</u>		Company: <u>USAF</u>		Date/Time: <u>26 MAY 10/1445</u>							
Relinquished by: <u>William P. Mitchell</u>		Company: <u>USAF</u>		Date/Time:		Received by:		Company:		Date/Time:							
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:							

144°40'0"E

144°45'0"E

144°50'0"E

144°55'0"E



Urunao Site

Department of the Air Force



**Pacific Air Forces
PACAF Comprehensive Plan
Regional Overview (C-1 Tab)
Anderson AB, Guam**

1 inch = 19,000 feet

Effective Date: 2010

This map was compiled by photogrammetric methods from aerial photography & periodically correct based on GPS surveys.

Map Produced By: 718th Civil Engineer Squadron
Programs Flight, Technical Support (718 CES/CEPT)
Customer Service (DSN): 315-634-9318

THIS MAP IS NOT TO BE USED FOR TARGETING OR NAVIGATION

144°40'0"E

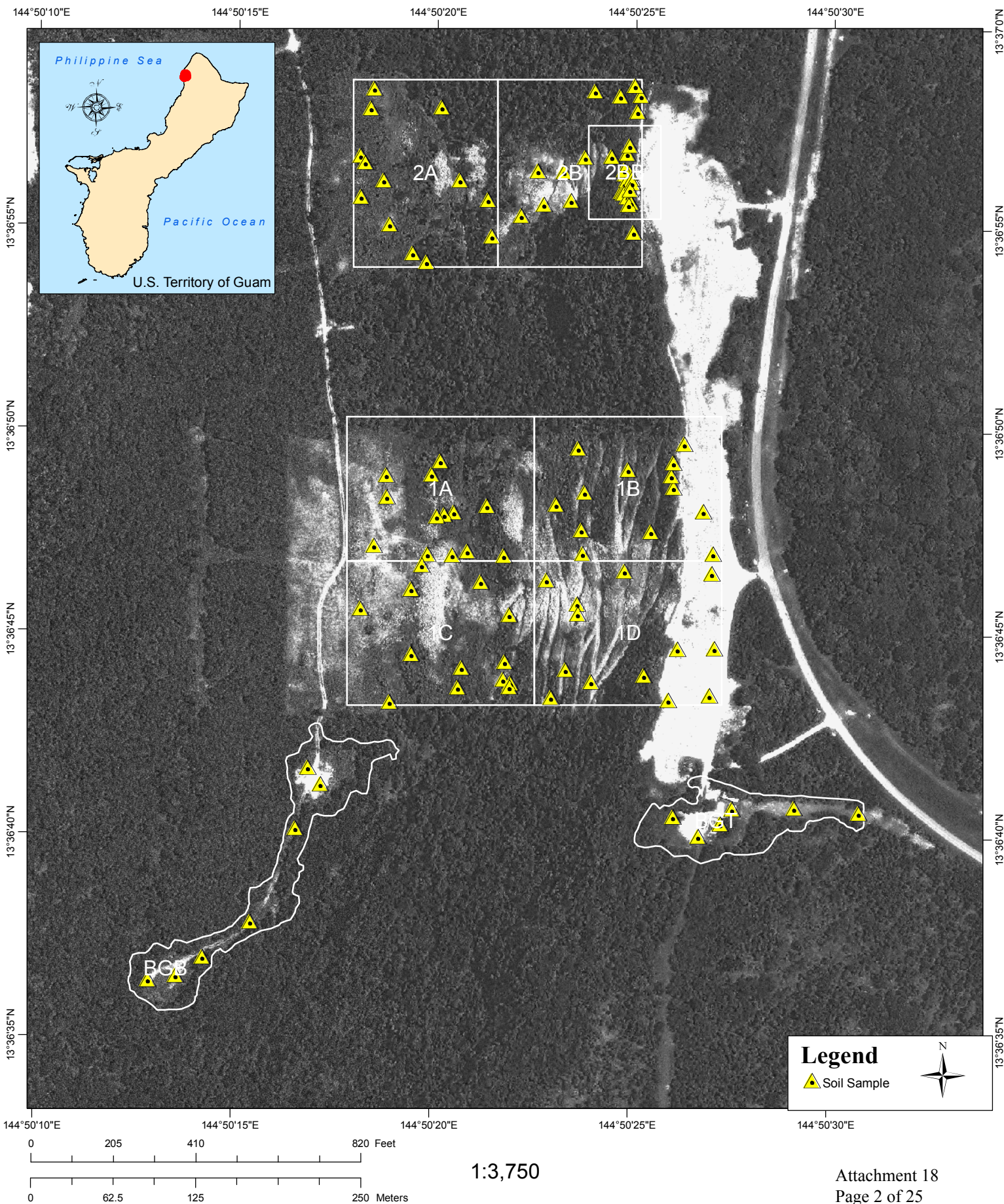
144°45'0"E

144°50'0"E

144°55'0"E

Survey Area Overview

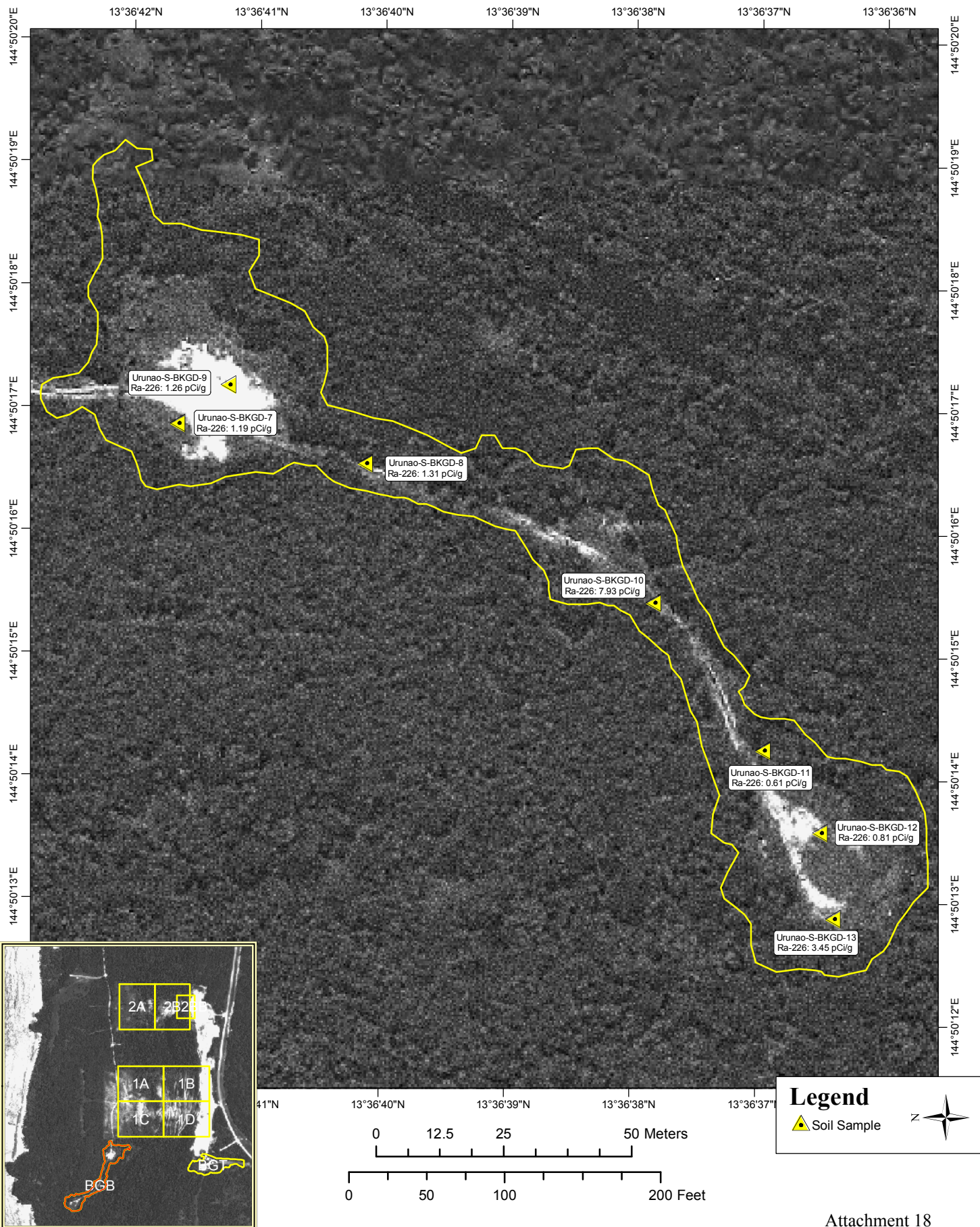
Soil Sample Locations



1:3,750

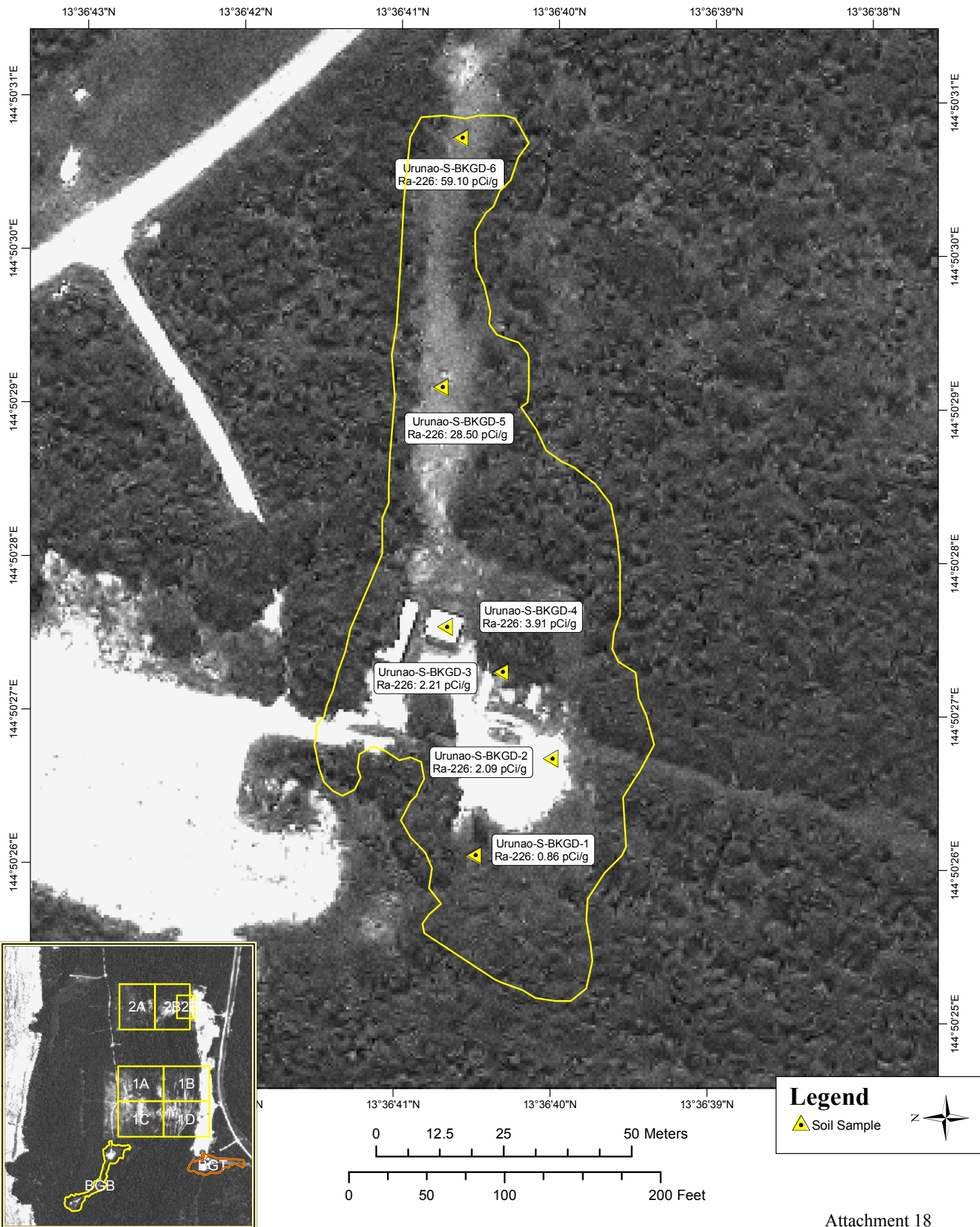
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Soil Sample Locations and Results



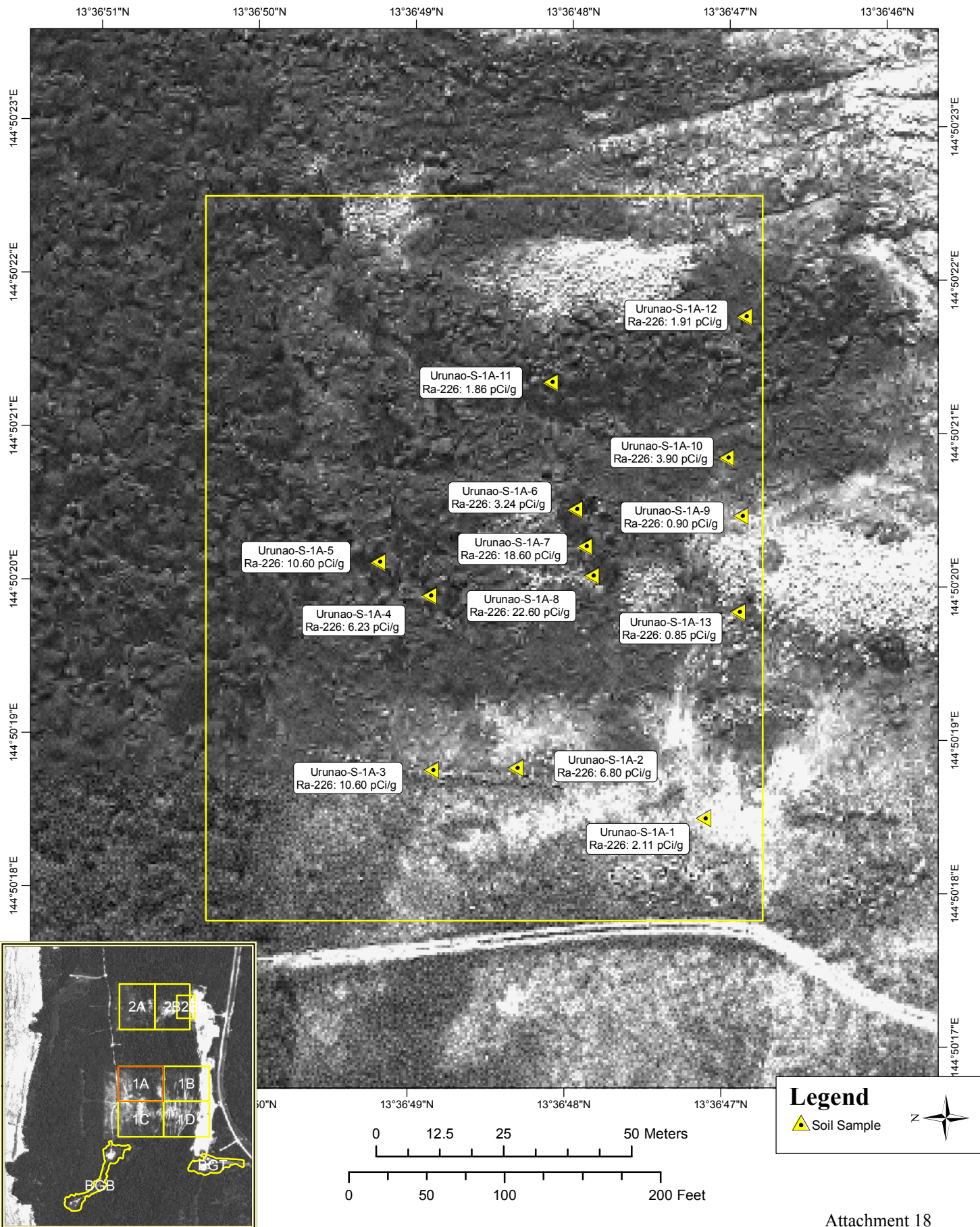
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Soil Sample Locations and Results



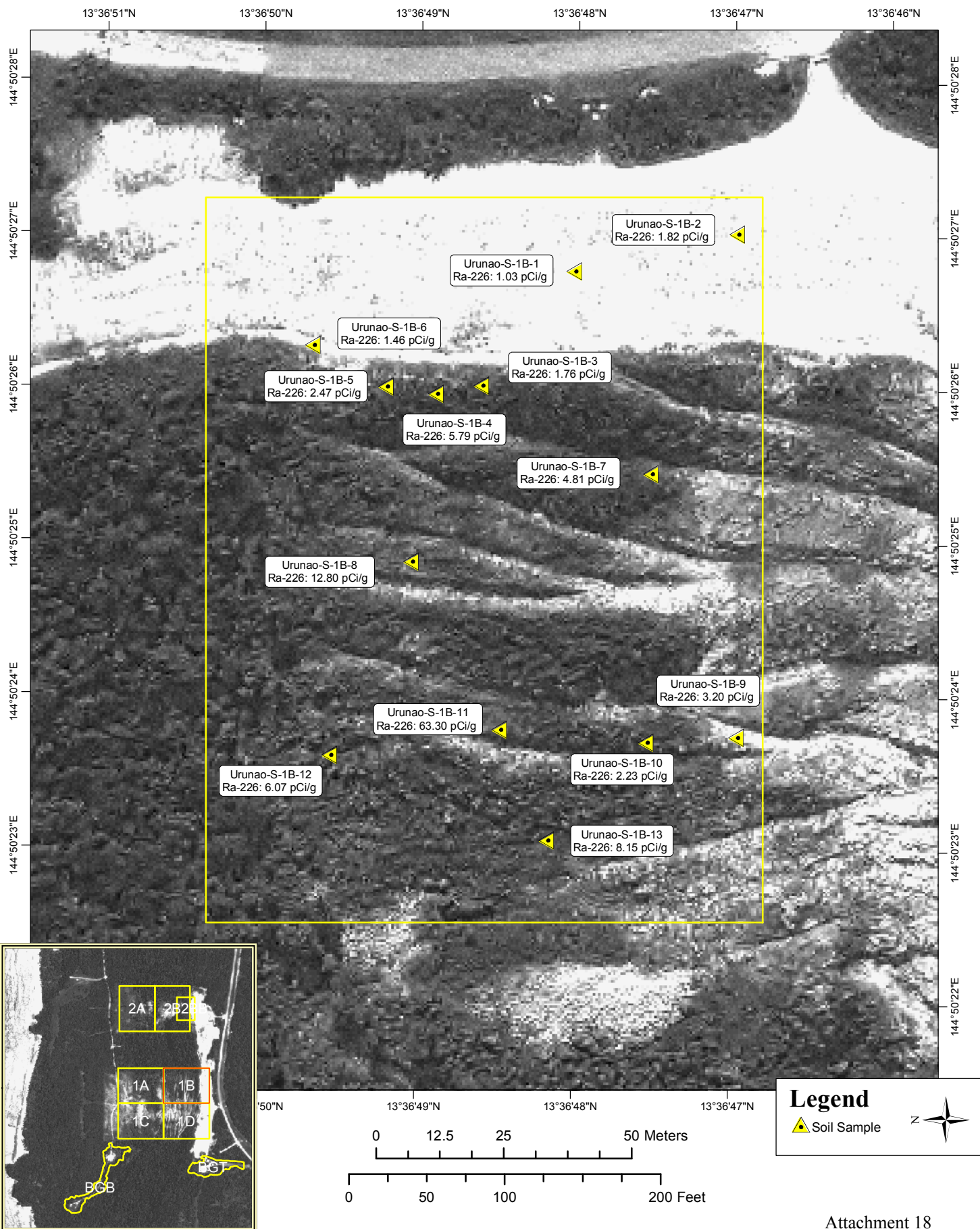
Survey Unit 1A

Soil Sample Locations and Results



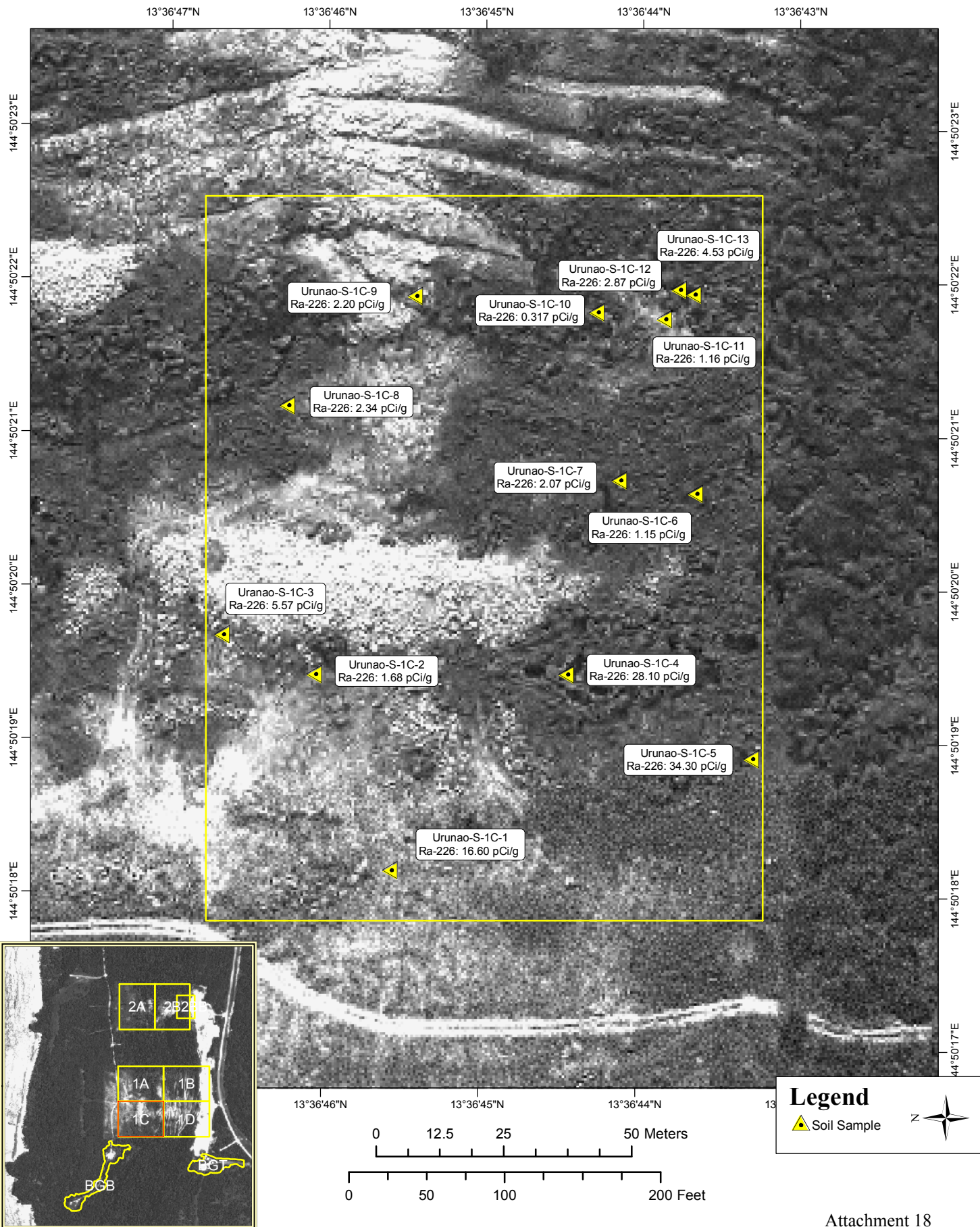
Survey Unit 1B

Soil Sample Locations and Results



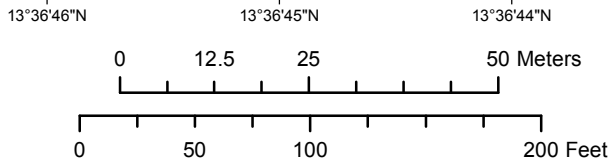
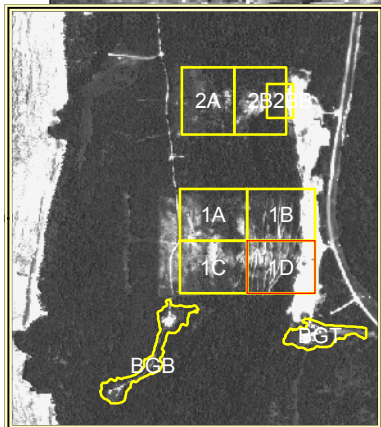
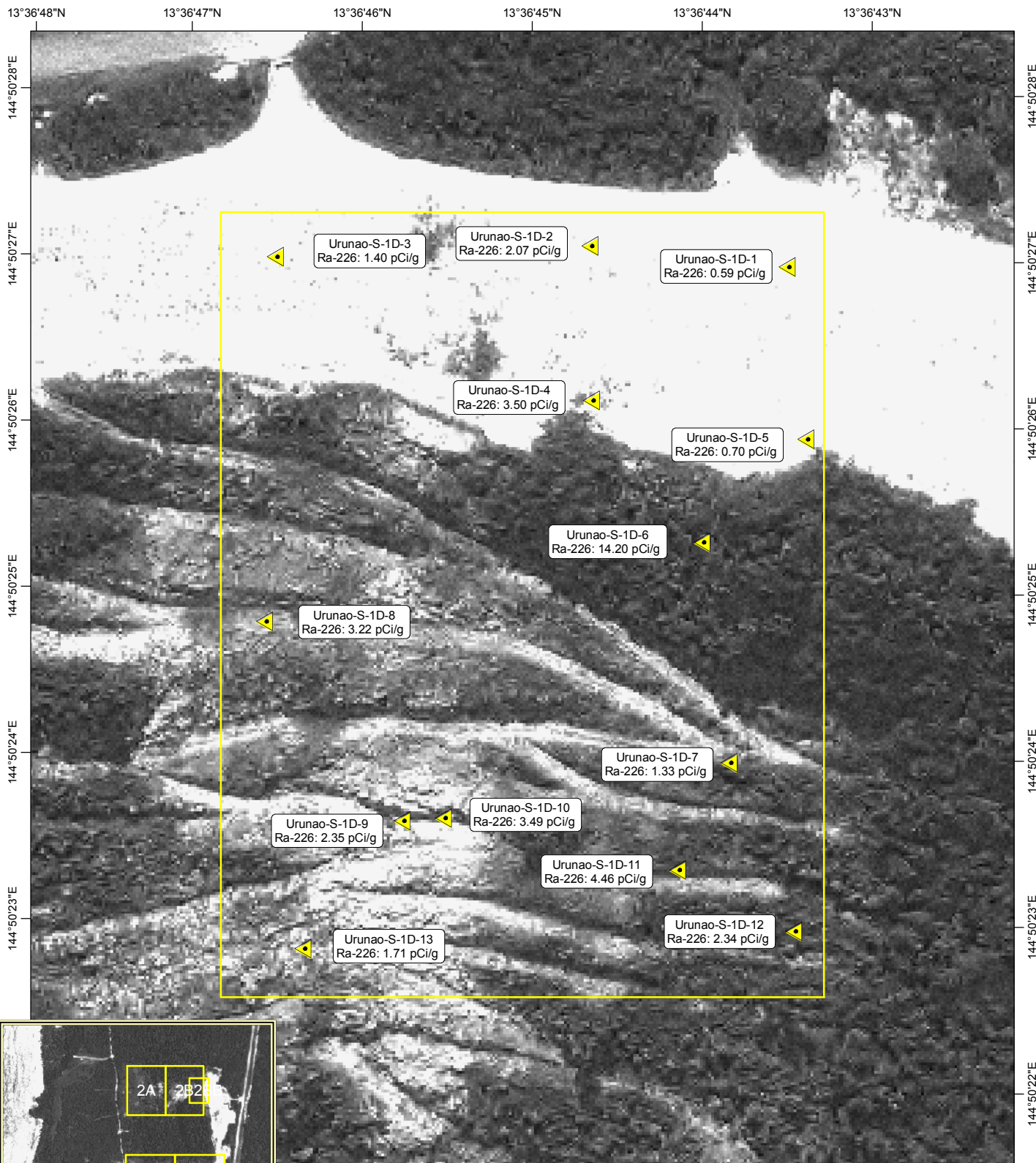
Survey Unit 1C

Soil Sample Locations and Results



Survey Unit 1D

Soil Sample Locations and Results

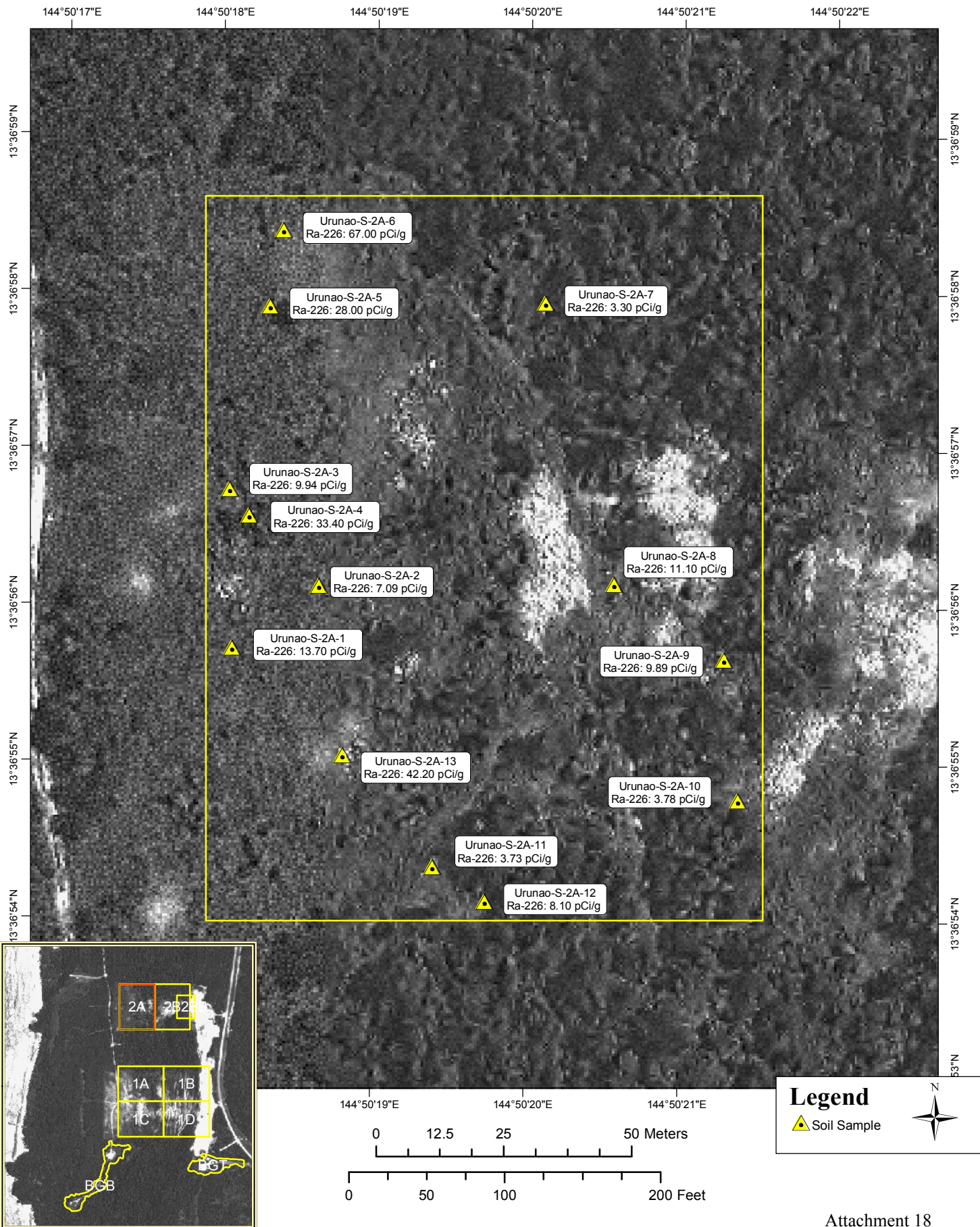


Legend

▲ Soil Sample

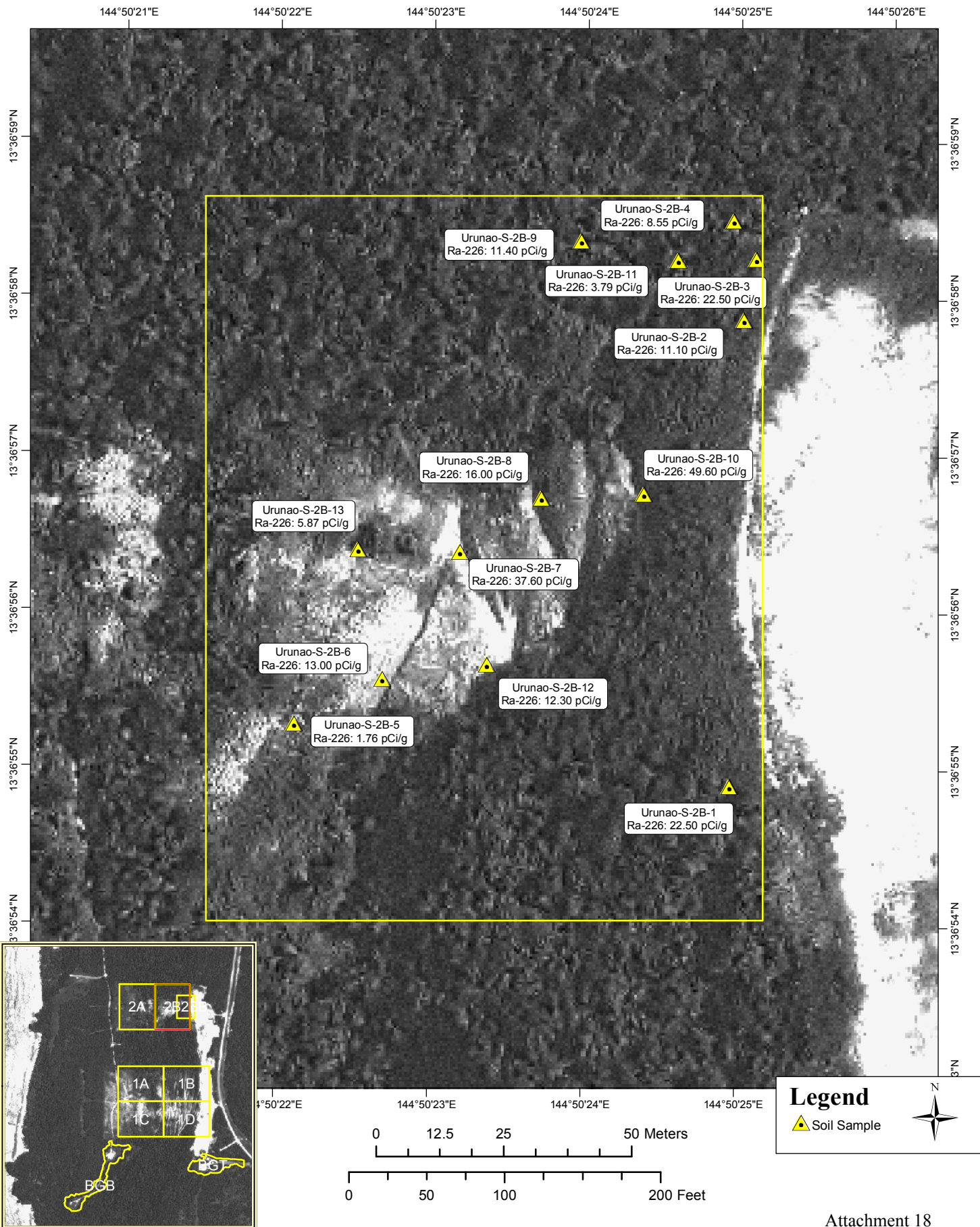
Survey Unit 2A

Soil Sample Locations and Results



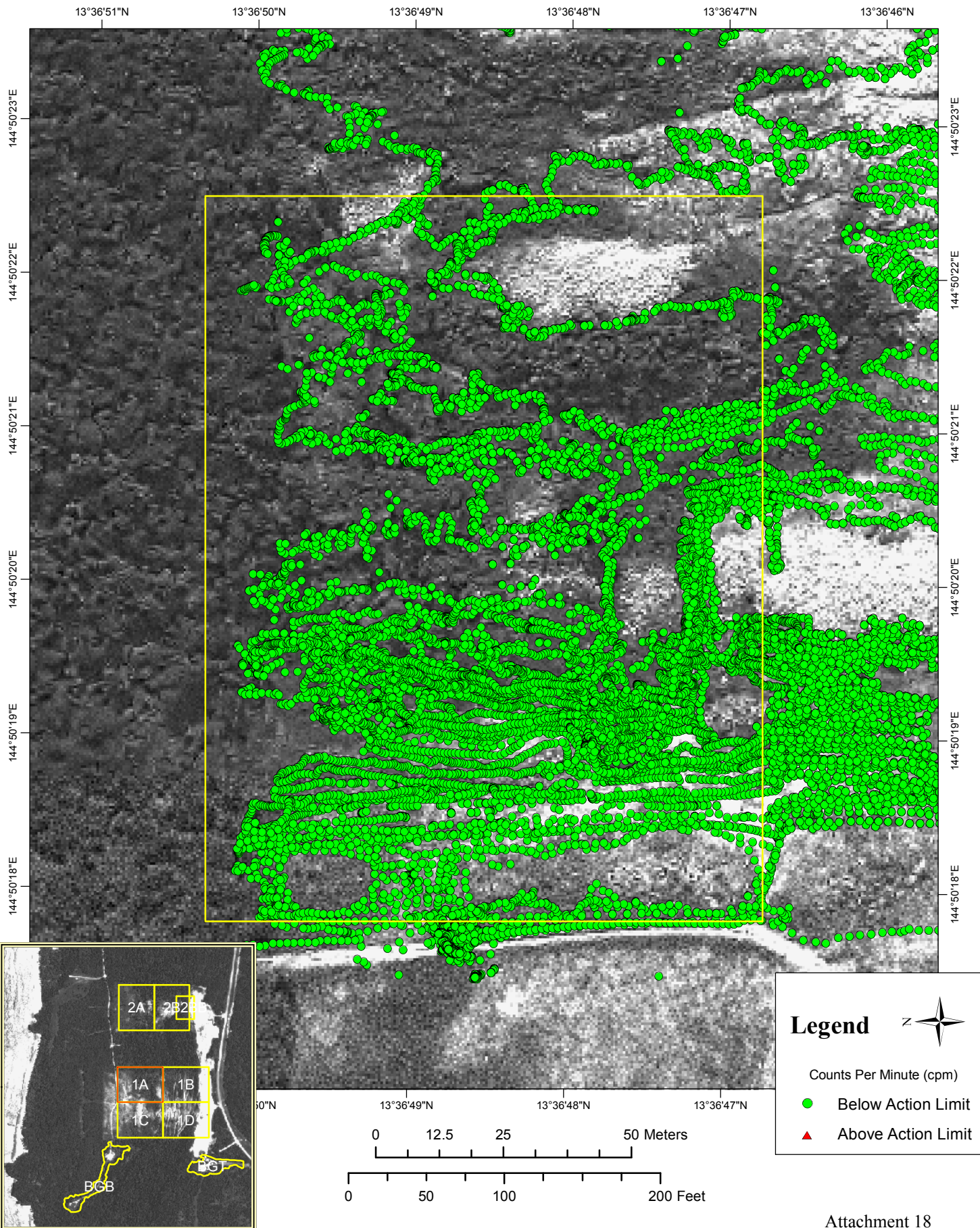
Survey Unit 2B

Soil Sample Locations and Results



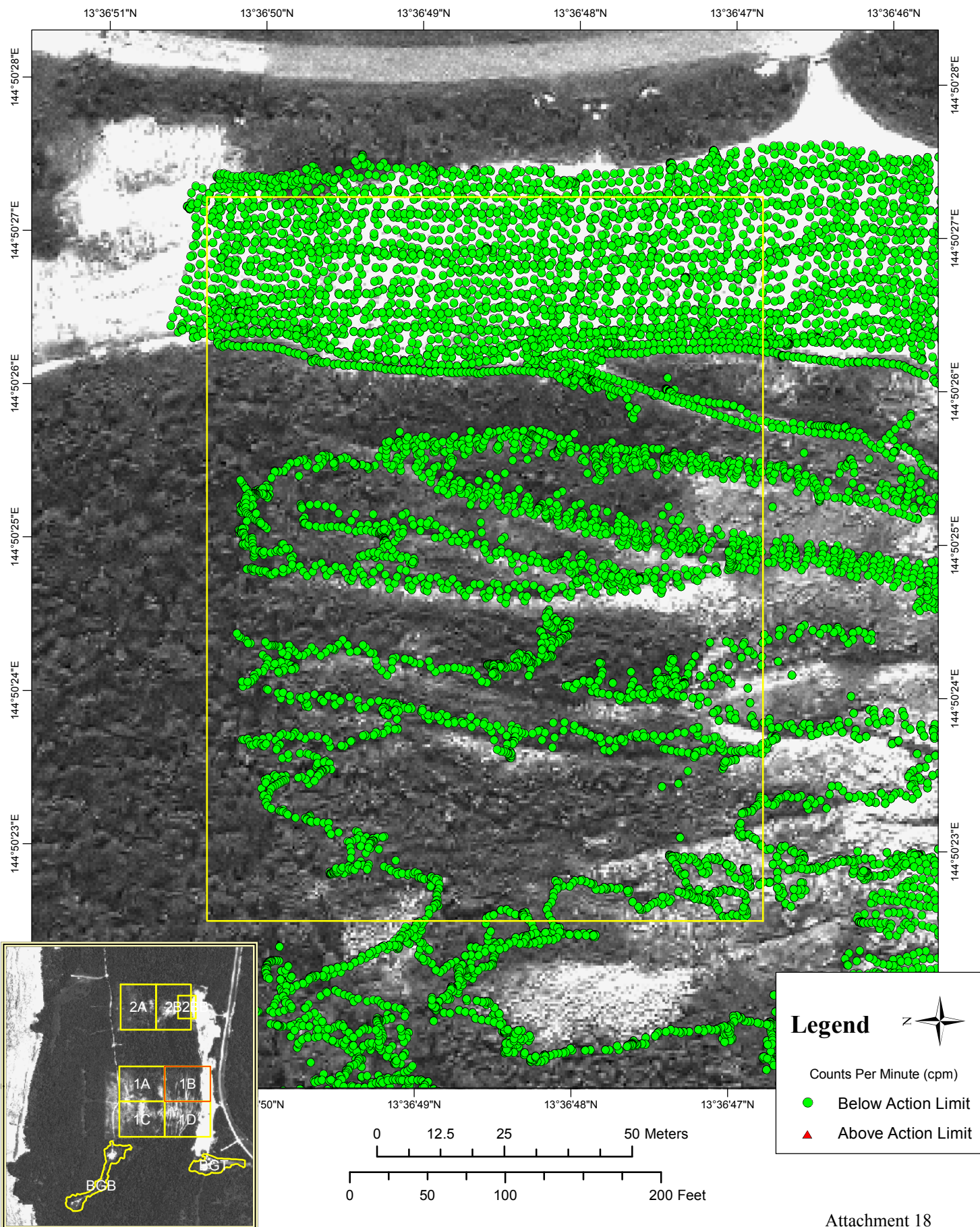
Survey Unit 1A

Walkover Scanning Survey Results



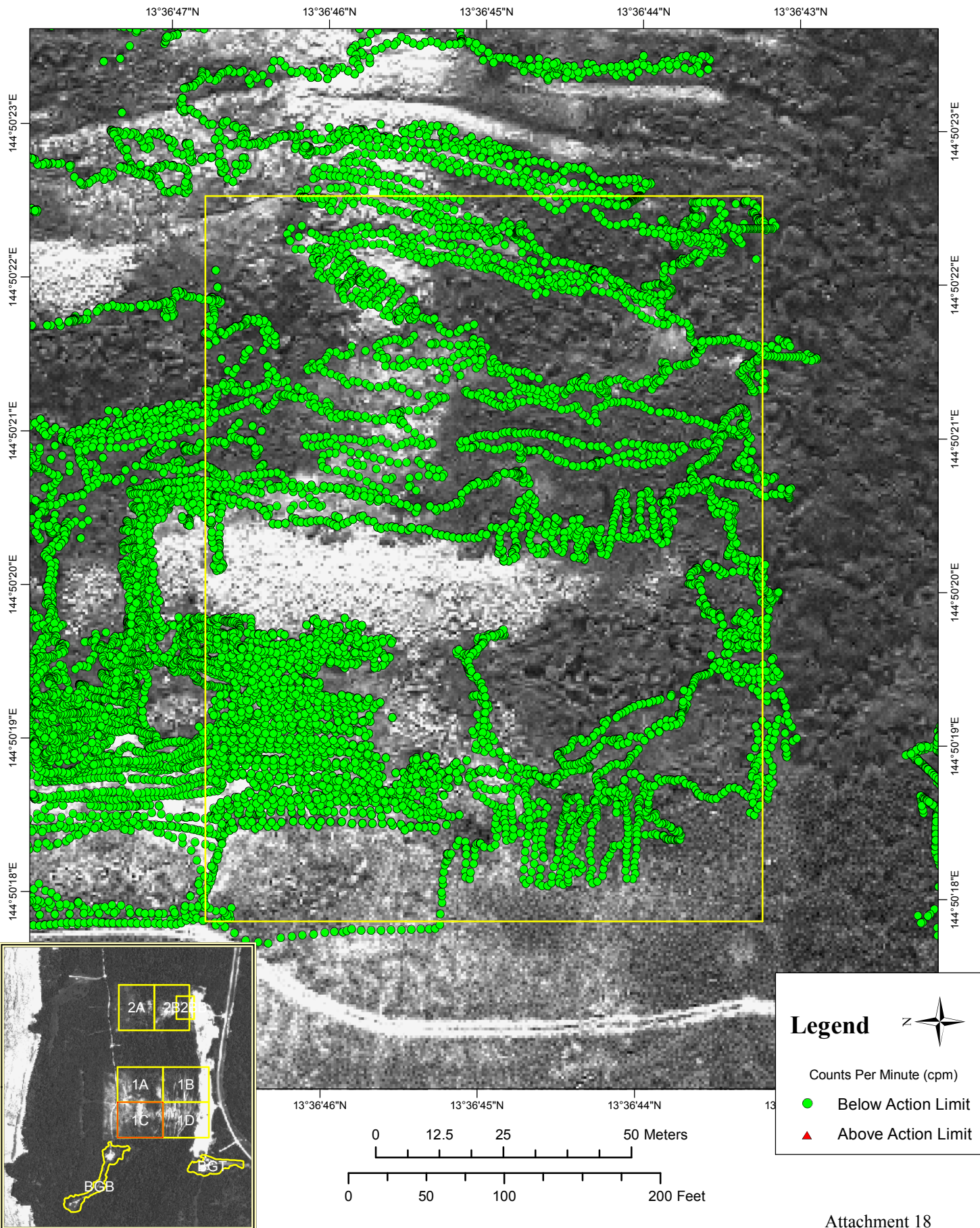
Survey Unit 1B

Walkover Scanning Survey Results



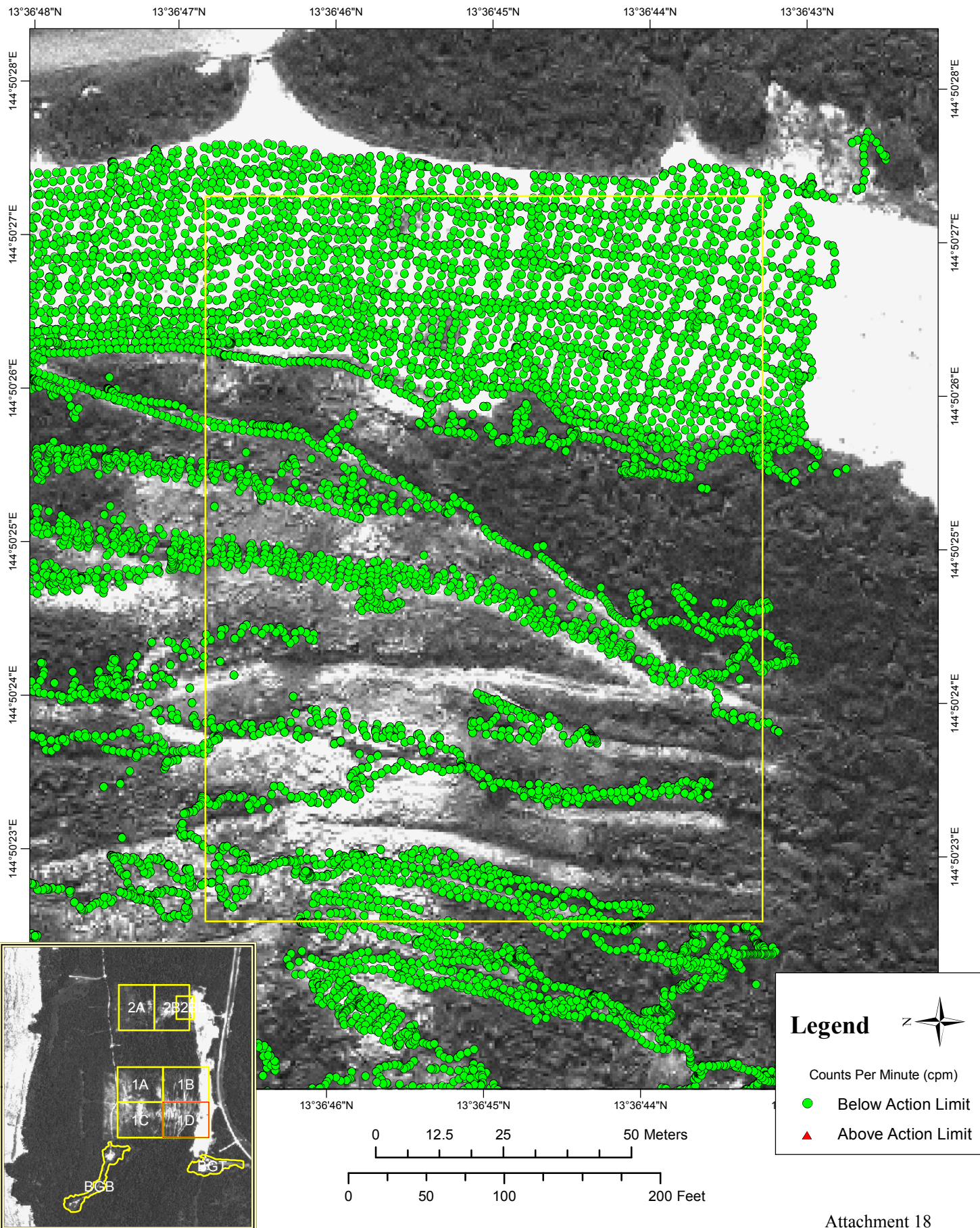
Survey Unit 1C

Walkover Scanning Survey Results



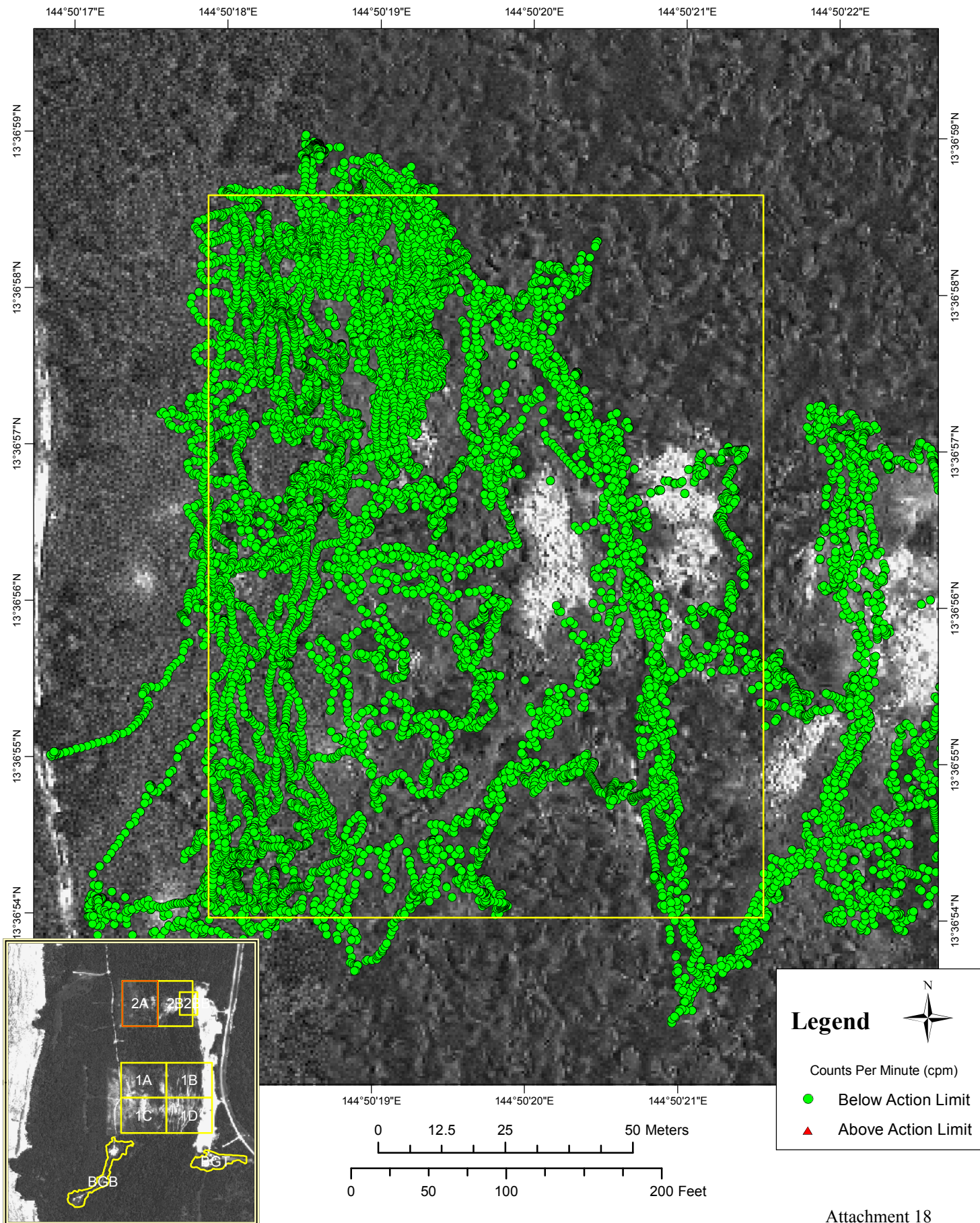
Survey Unit 1D

Walkover Scanning Survey Results



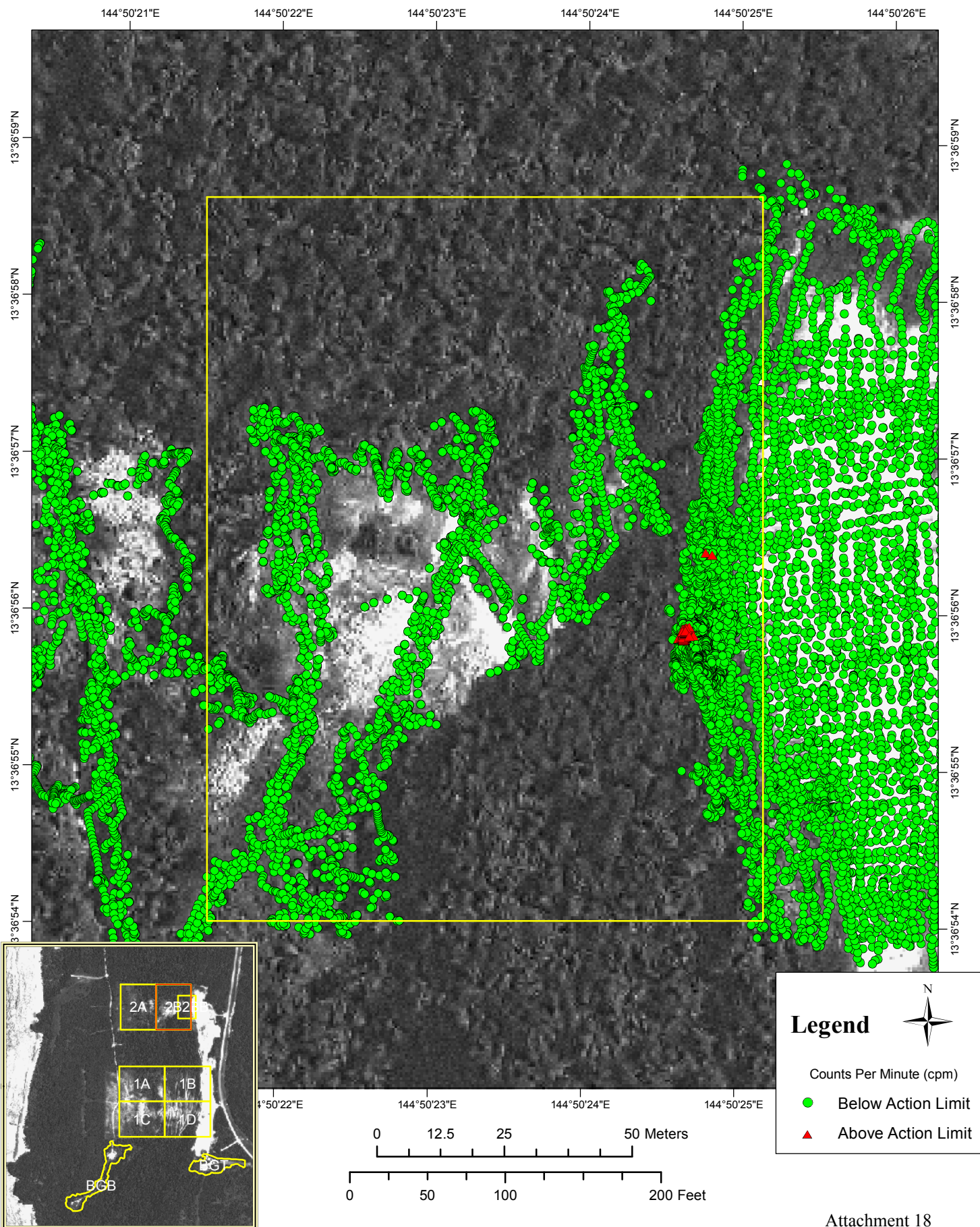
Survey Unit 2A

Walkover Scanning Survey Results



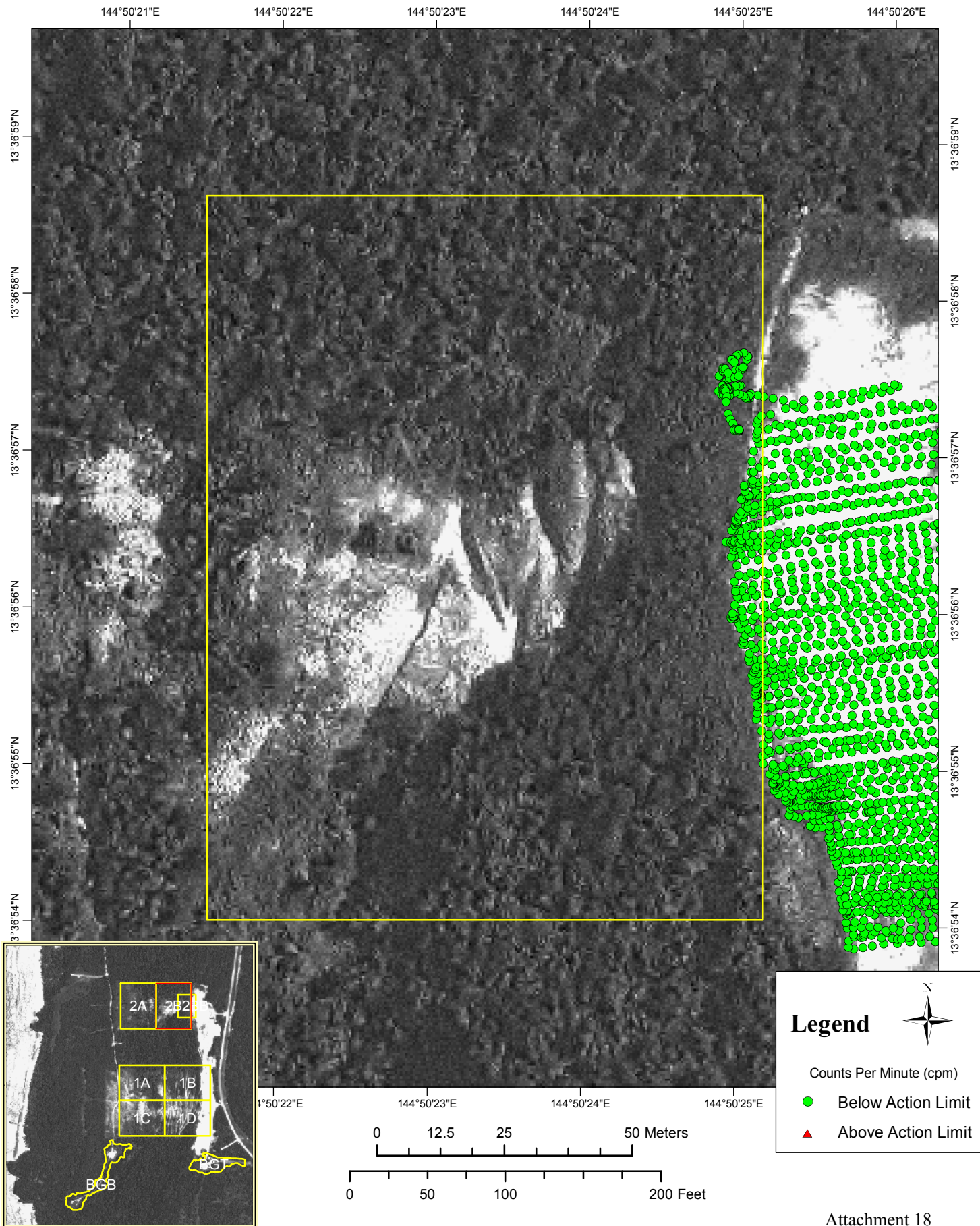
Survey Unit 2B

Walkover Scanning Survey Results



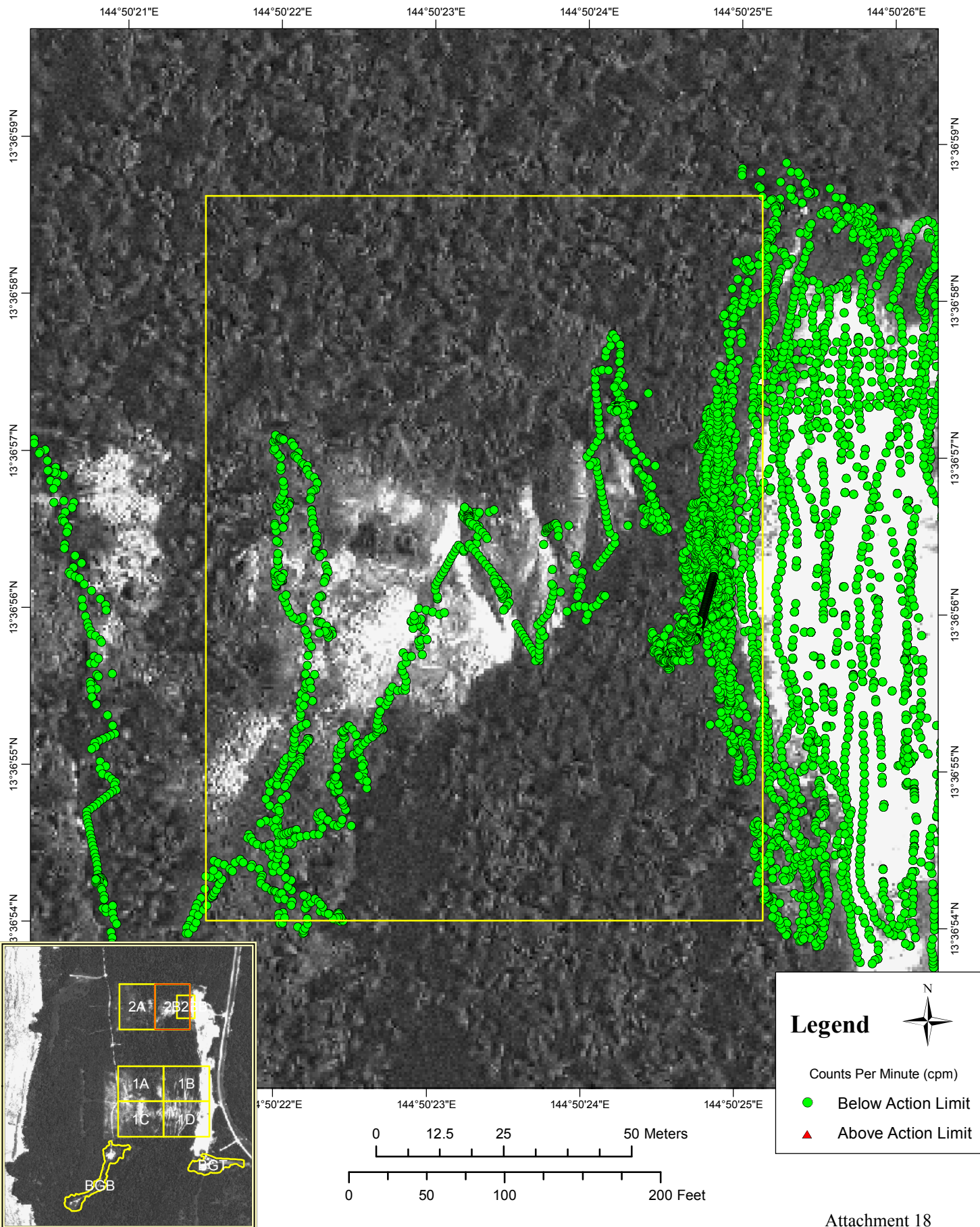
Survey Unit 2B

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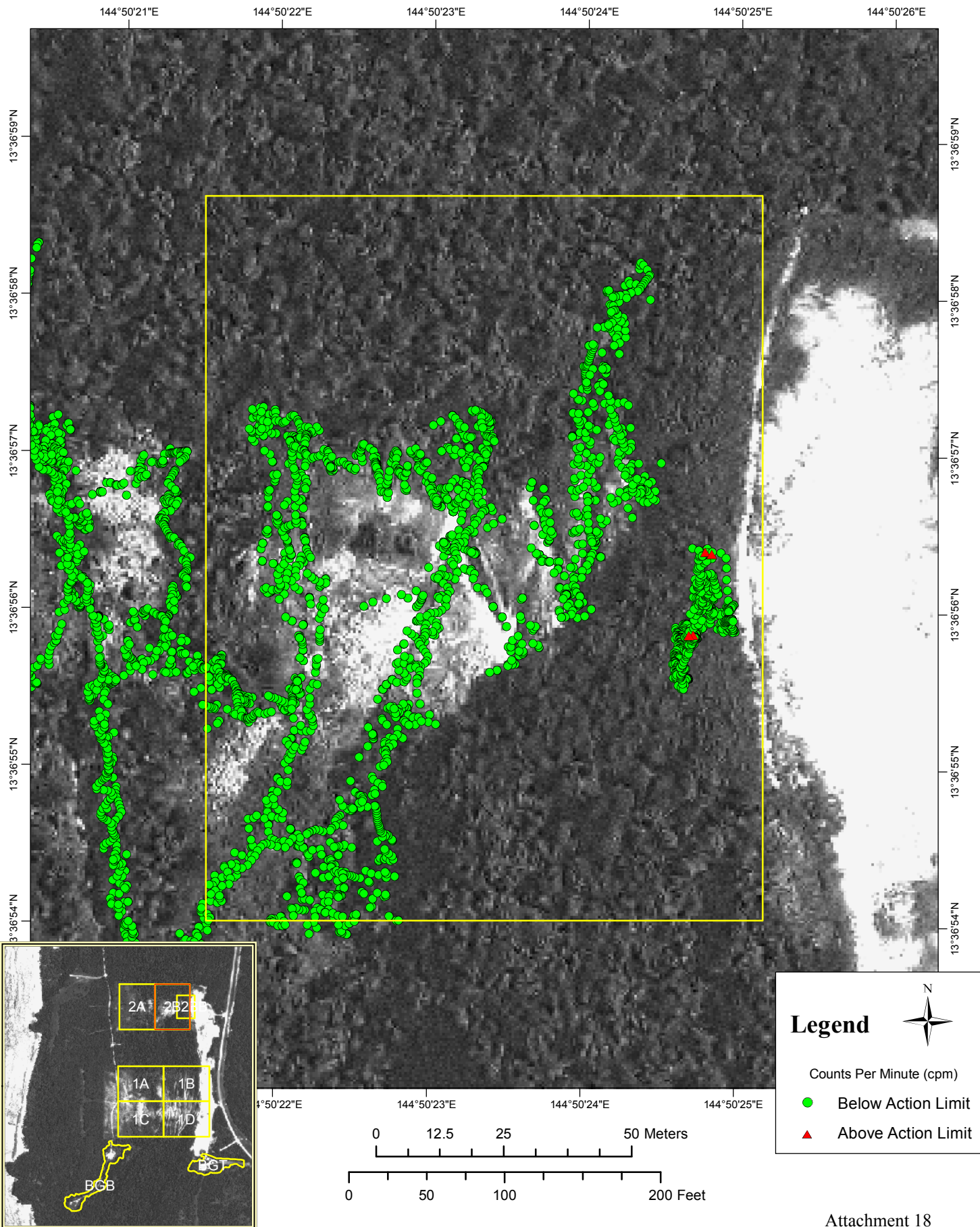
Survey Unit 2B

Walkover Scanning Survey Results for Scanning Meter: 218591/276613



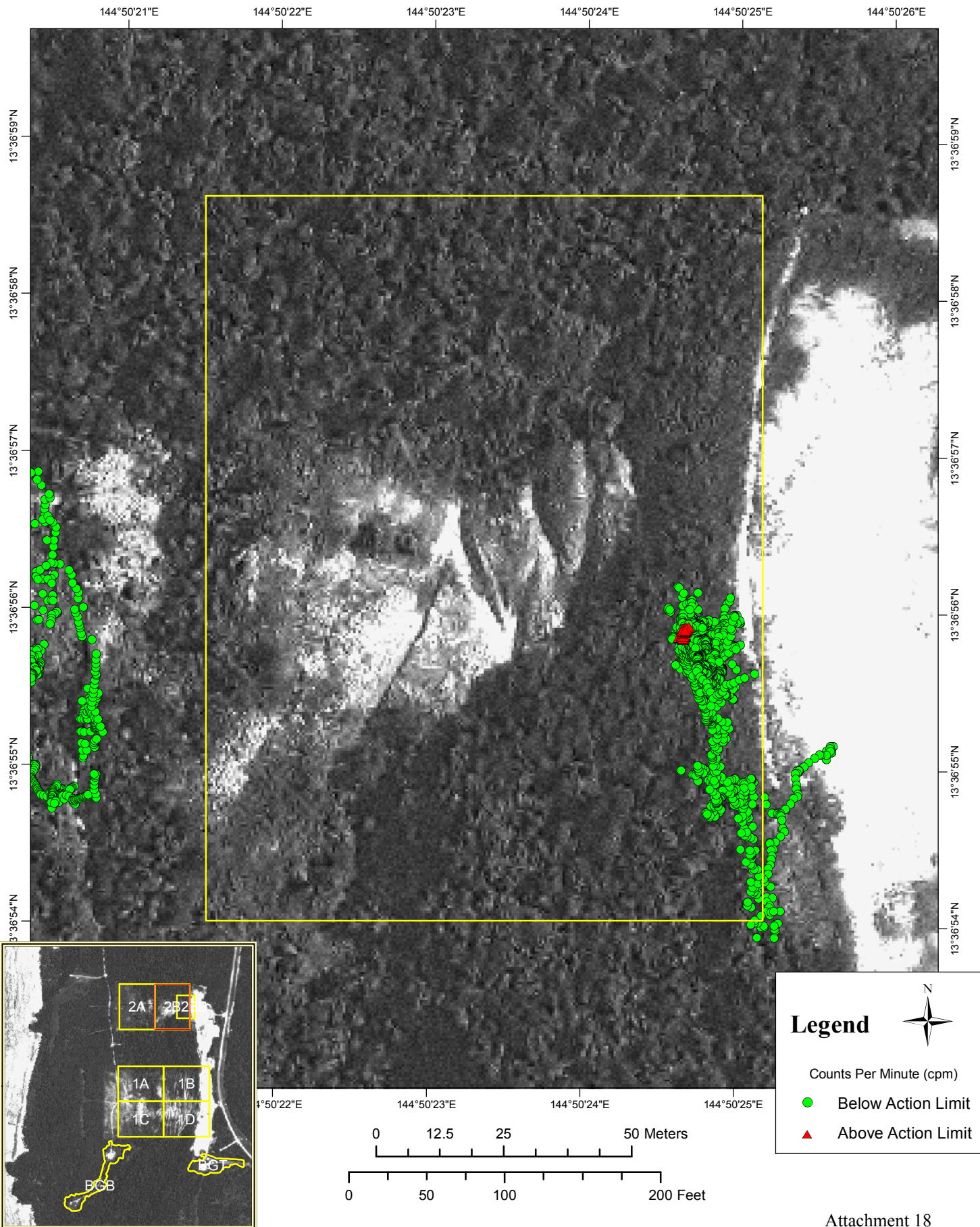
Survey Unit 2B

Walkover Scanning Survey Results for Scanning Meter: 218606/276614



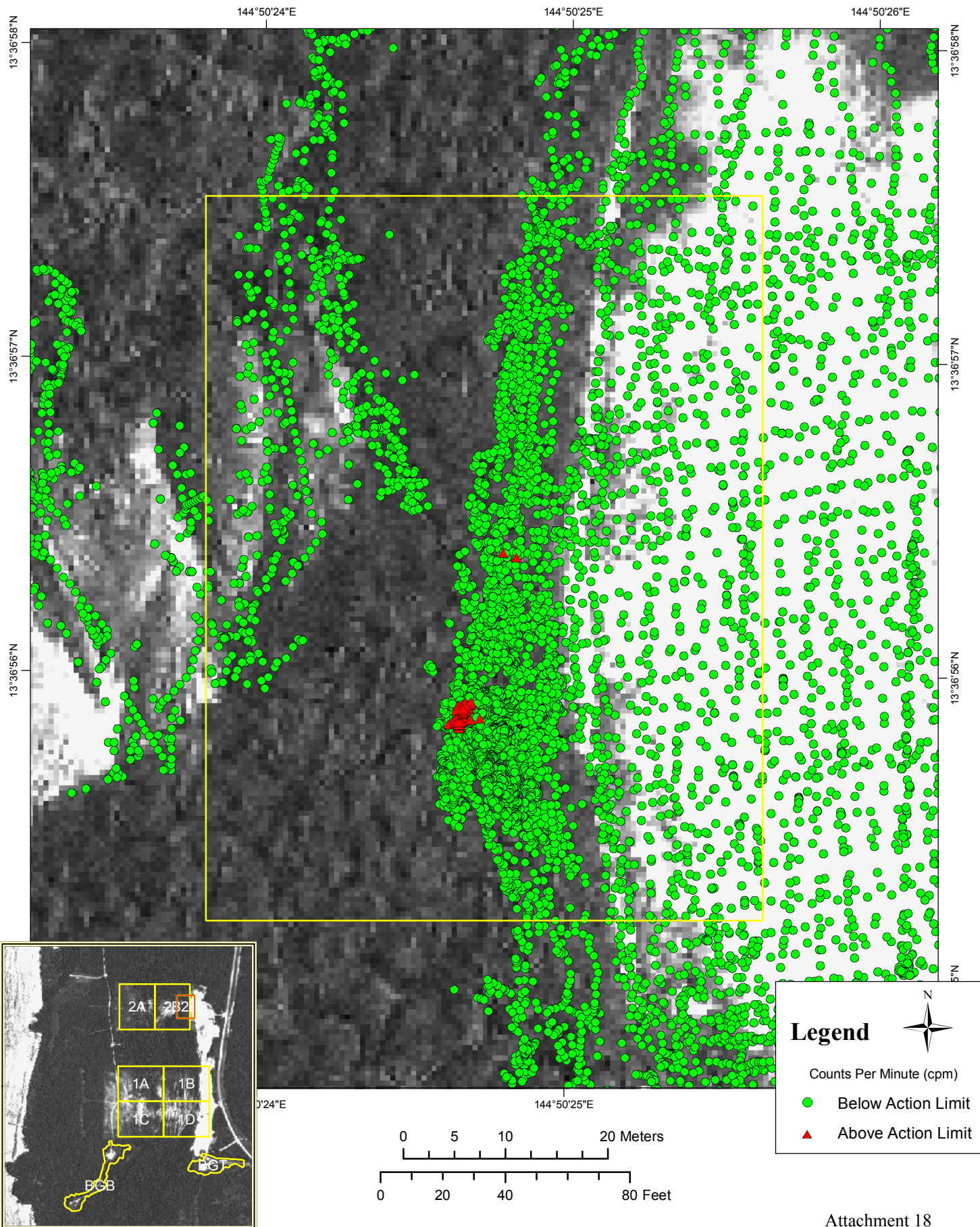
Survey Unit 2B

Walkover Scanning Survey Results for Scanning Meter: 218565/276615



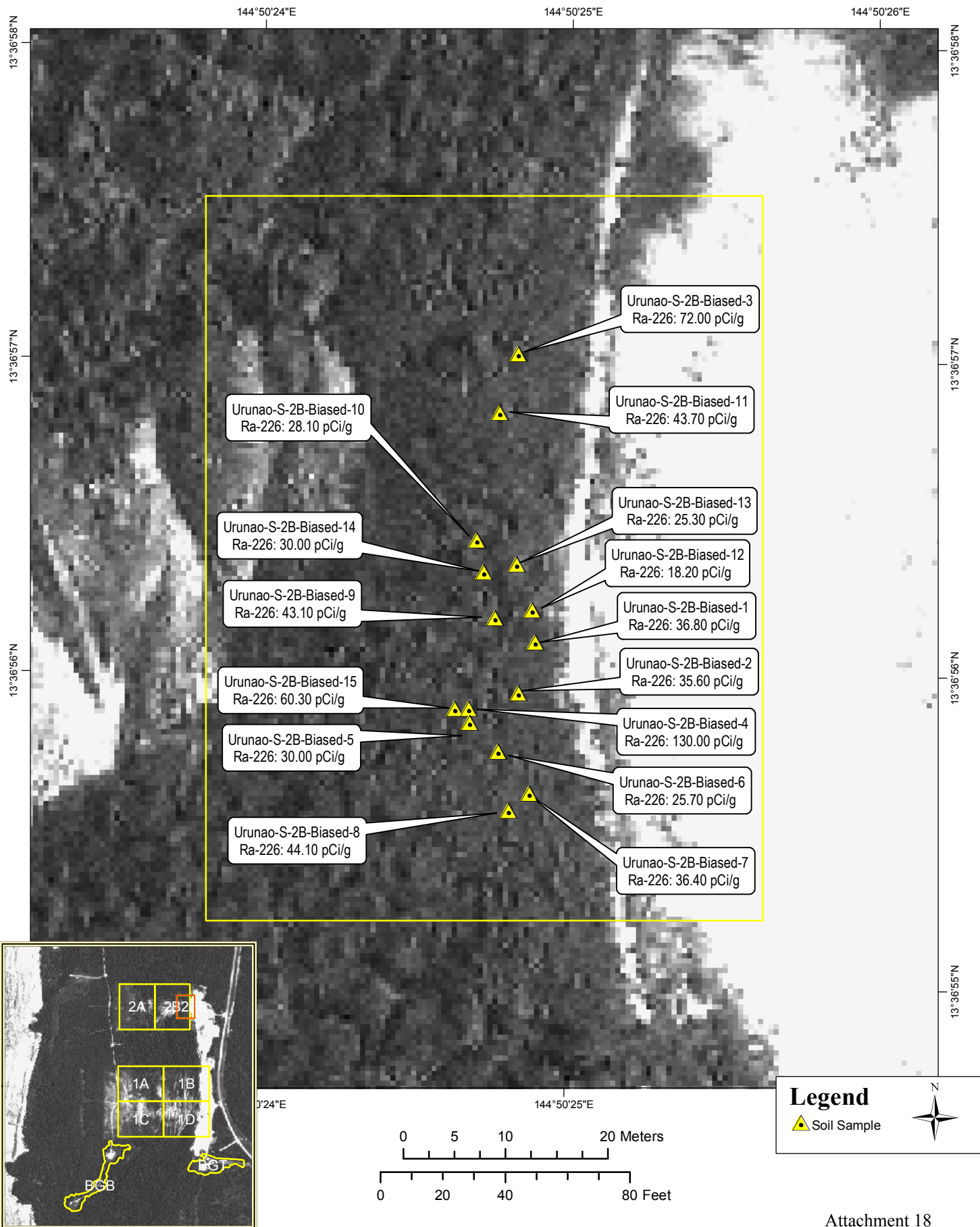
Survey Unit 2B Biased

Walkover Scanning Survey Results for Scanning Meter: ALL Pre-mitigation



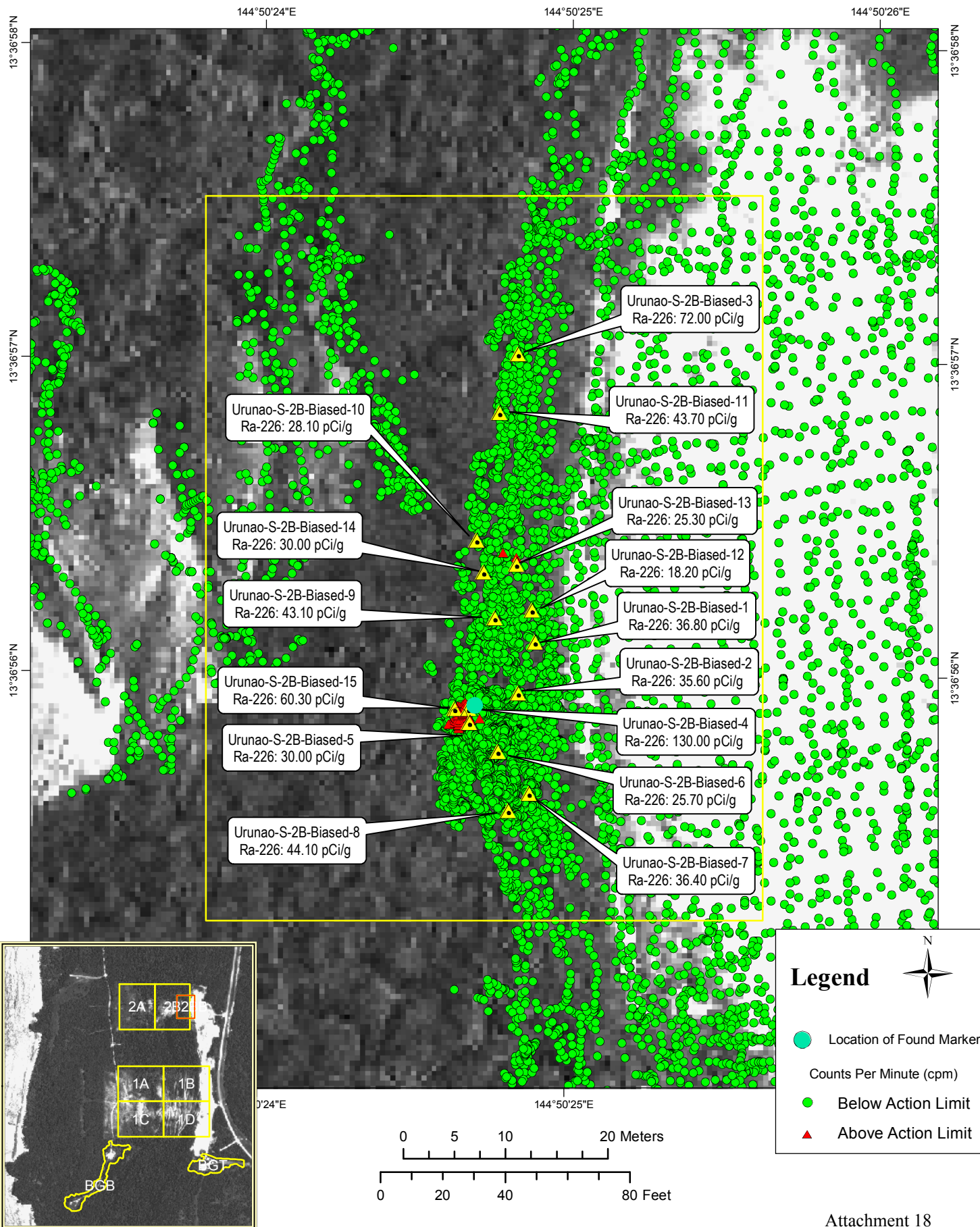
Survey Unit 2B Biased

Soil Sample Locations and Results



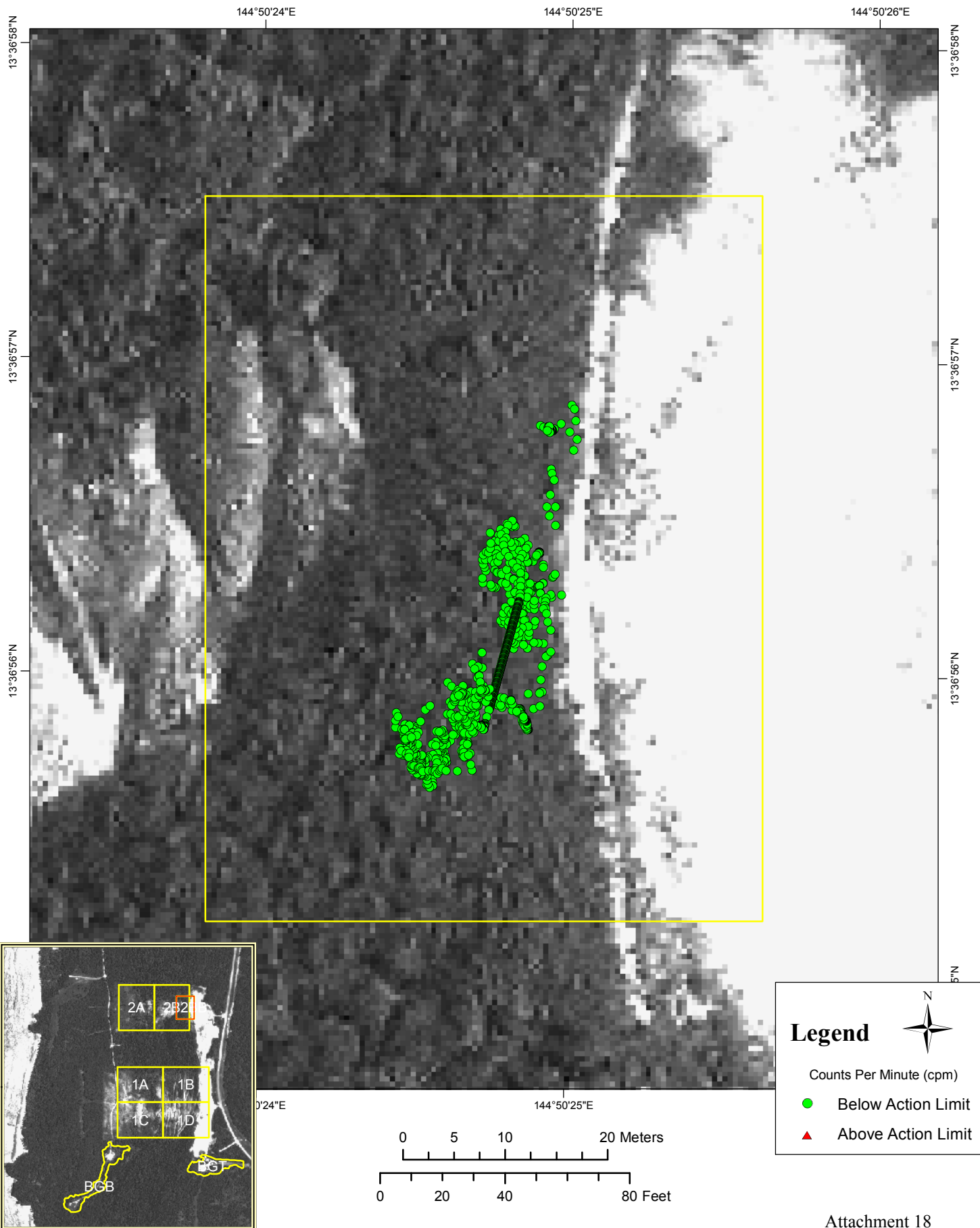
Survey Unit 2B Biased

Walkover Scanning Survey and Soil Sample Results



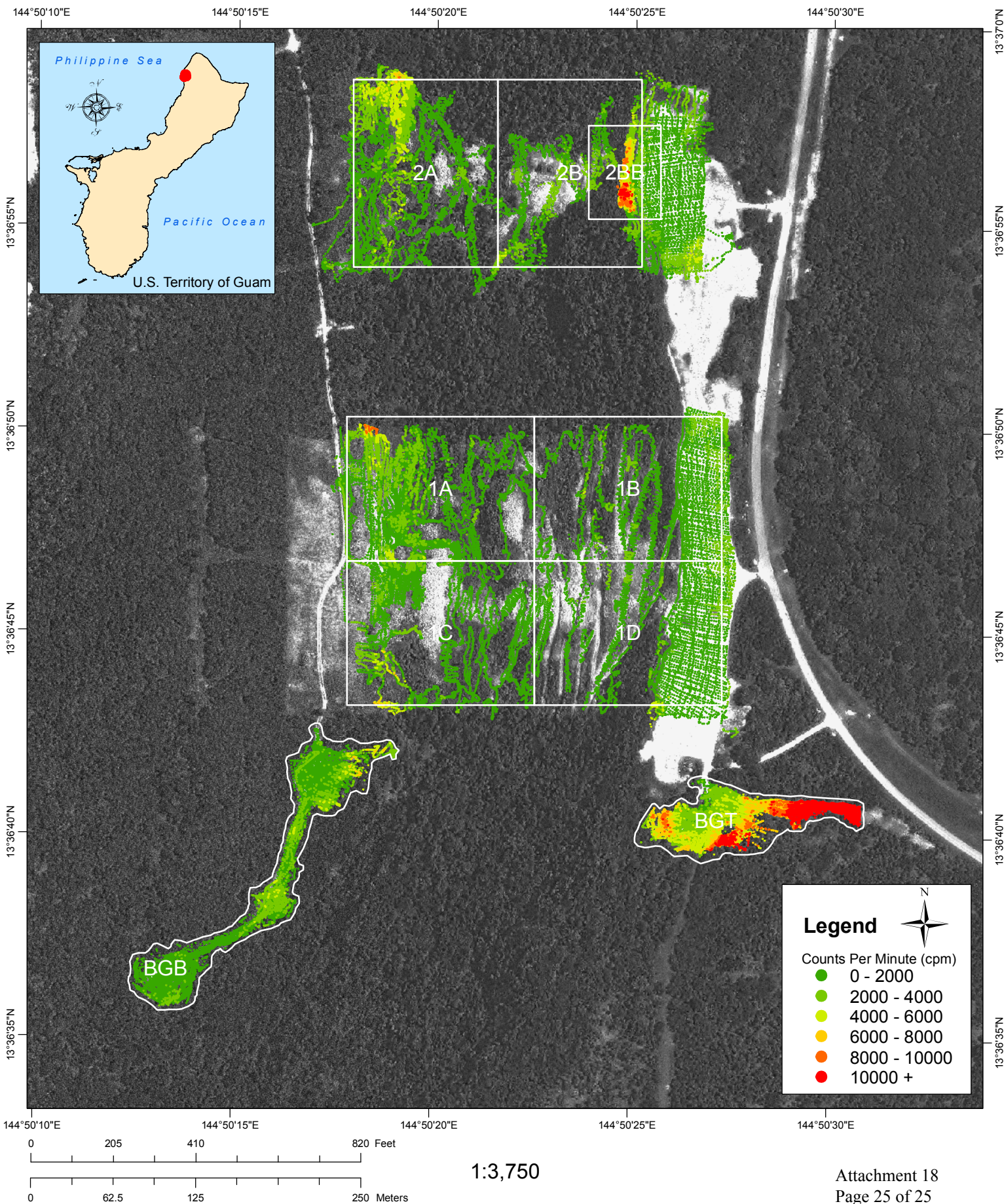
Survey Unit 2B Biased

Walkover Scanning Survey Results for Scanning Meter: ALL Post-mitigation



Survey Area Overview

Walkover Scanning Survey Results



Urunao FSS Effort: Survey Personnel

Name	Office
Maj Daniel Shaw	Det 3, USAFSAM/CDR
Maj Roberta Lenski	Det 3, USAFSAM/CD
SMSgt Benjamin Winslow	Det 3, USAFSAM/CS
SSgt Laquetta Wysong	Det 3, USAFSAM/CD
TSgt Jalayne Powers	USAFSAM/OEHHL
SSgt Jeremy Timmermeyer	USAFSAM/OEHHL
SrA Reuben Smith	USAFSAM/OEHHL
Maj Bruce Murren	36 MDG/SGOAB
MSgt Carmelito Sanga	36 MDG/SGOAB
TSgt William Mitchell	36 MDG/SGOAB
TSgt Wyll Yabut	36 MDG/SGOAB
SSgt Marcus Poulos	36 MDG/SGOAB
SSgt Joshua Suggs	36 MDG/SGOAB
SrA Mark Donahue	36 MDG/SGOAB
Mr. Joseph Vinch	36 CES/CEVR
