



BILL RICHARDSON
GOVERNOR

State of New Mexico
ENVIRONMENT DEPARTMENT
DOE Oversight Bureau
Carlsbad Field Office

604B N. Canal, Carlsbad, New Mexico 88220
Tel: (575)-887-6851, Fax (575)-887-6862



RON CURRY
SECRETARY

JON GOLDSTEIN
DEPUTY SECRETARY

**Station A Exhaust Air Monitoring at the Waste Isolation Pilot Plant/ New Mexico conducted
by NMED/DOE OB, May 2007 – June 2008**

The New Mexico Environment Department (NMED) DOE Oversight Bureau has compiled and assessed data collected from Station A for May 2007 through June 2008. The following data report shows results for selected analytes as determined by ALS / Paragon Analytical Services.

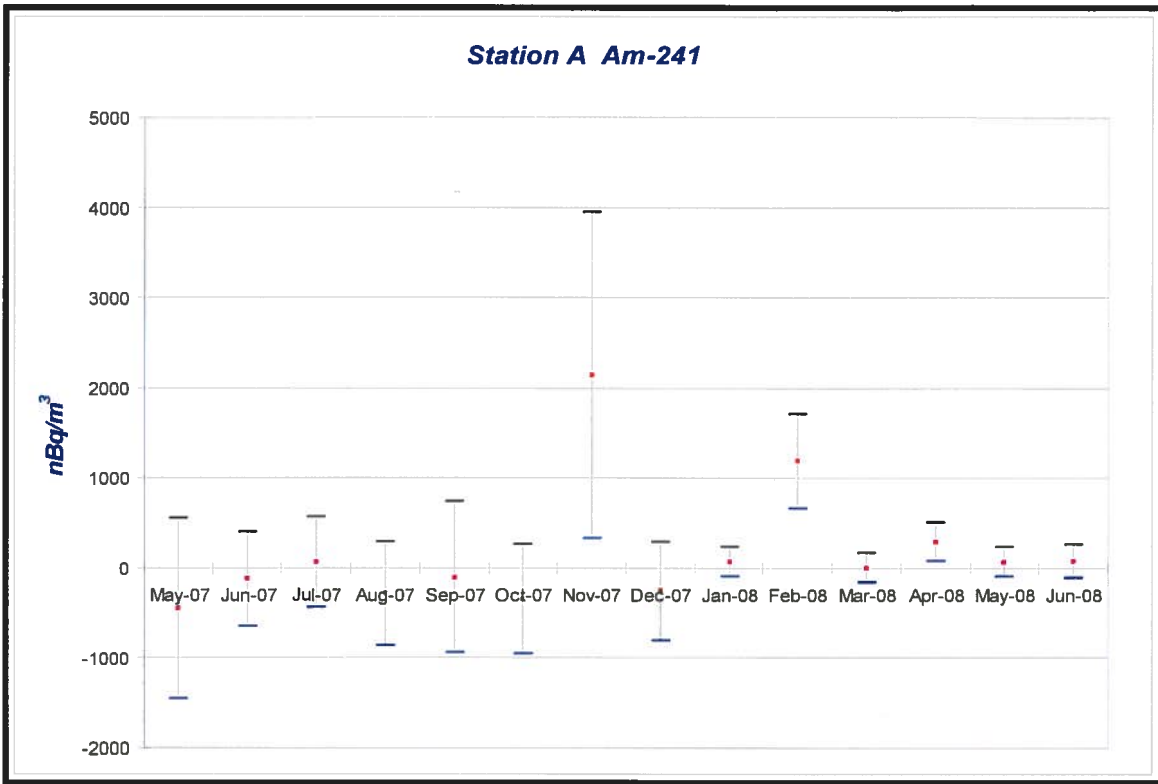
The accompanying graphs for each analyte indicate the results in nBq/m^3 , $\pm 2\text{TPU}$.

Response

Questions and or comments may be addressed to Thomas Kesterson by phone at (575)-887-6851, by e-mail at thomasl.kesterson@state.nm.us, or to the address in the above letterhead.

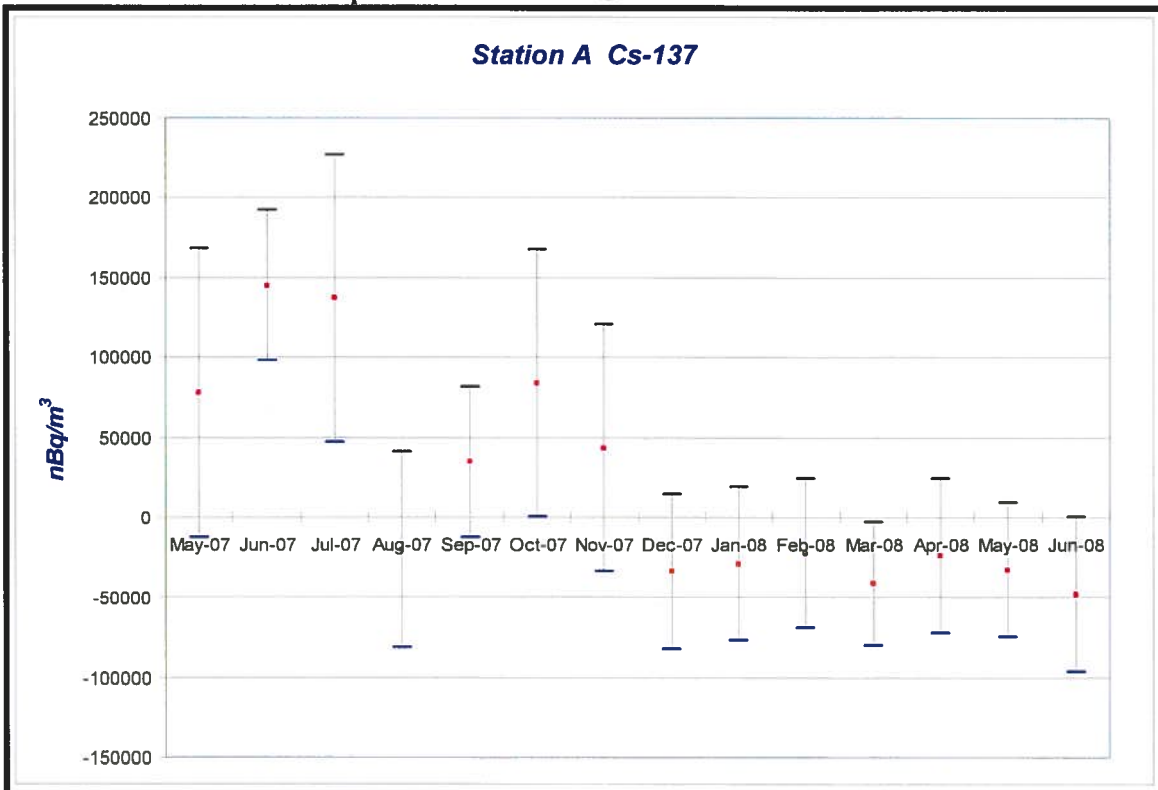
- Enclosures:
- (1) Graph 1 – Lab Results for Am-241 from Station A.
 - (2) Graph 2 – Lab Results for Cs-137 from Station A.
 - (3) Graph 3 - Lab Results for Gross α from Station A.
 - (4) Graph 4 - Lab Results for Gross β from Station A.
 - (5) Graph 5 – Lab Results for Pu-238 from Station A.
 - (6) Graph 6 – Lab Results for Pu-239/240 from Station A.
 - (7) Graph 7 – Lab Results for Sr-90 from Station A.
 - (8) Graph 8 – Lab Results for U-234 from Station A.
 - (9) Graph 9 – Lab Results for U-235 from Station A.
 - (10) Graph 10 - Lab Results for U-238 from Station A.
 - (11) Table 1 – Laboratory Results for Selected Analytes from Station A January – June 2008.

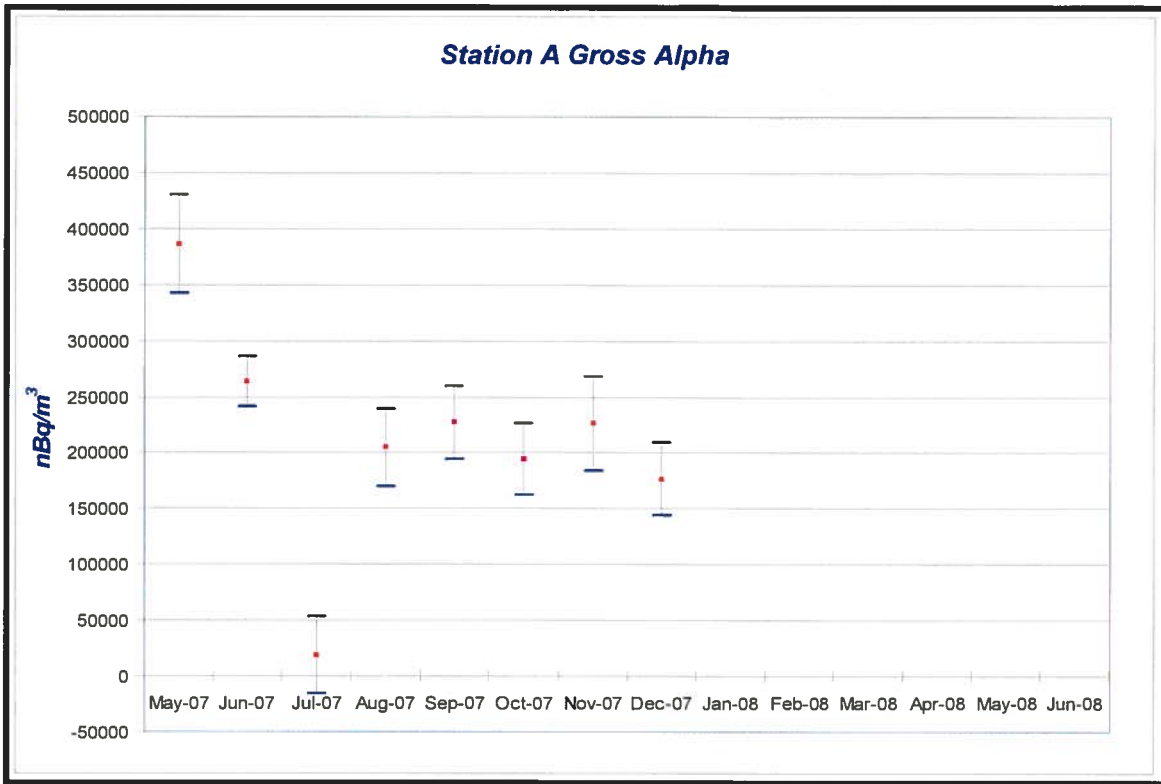
Distribution: Jody Plum, DOE
Dan Ferguson, DOE
Tom Skibitski, Chief, DOE-OB
Barry Birch, NMED DOE-OB, SOS



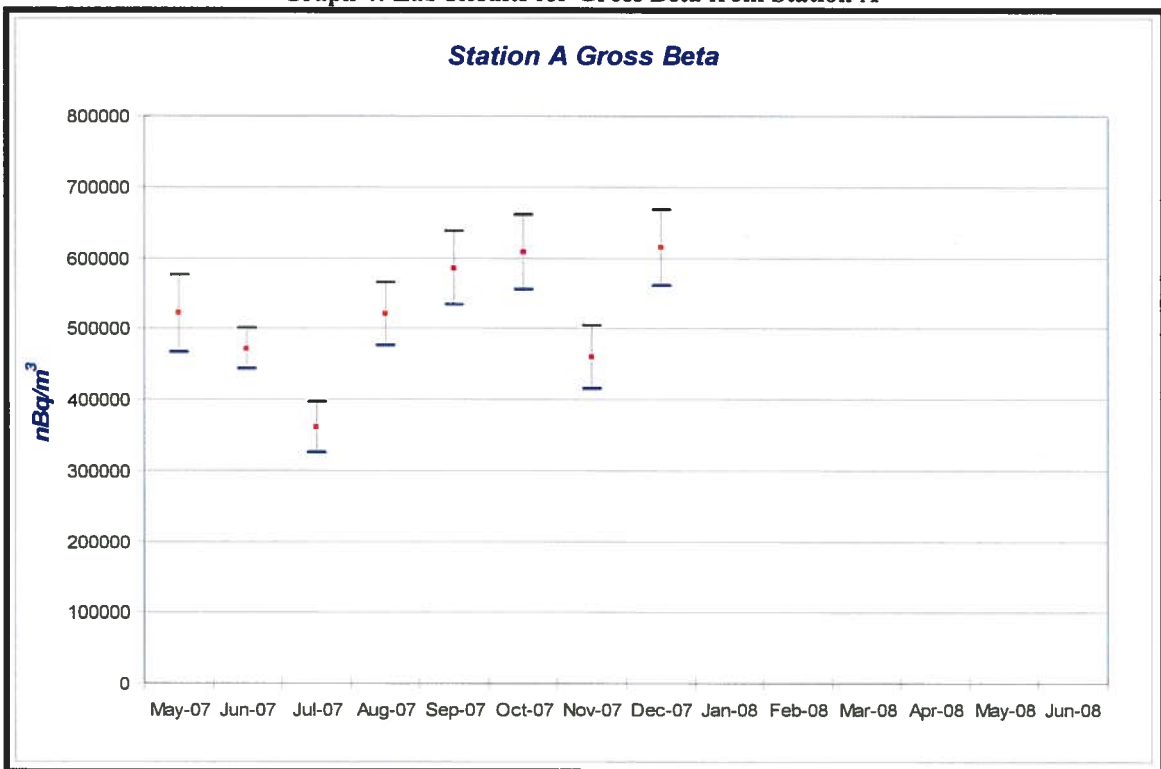
Graph 1: Lab Results for Am-241 from Station A

Graph 2: Lab Results for Cs-137 from Station A

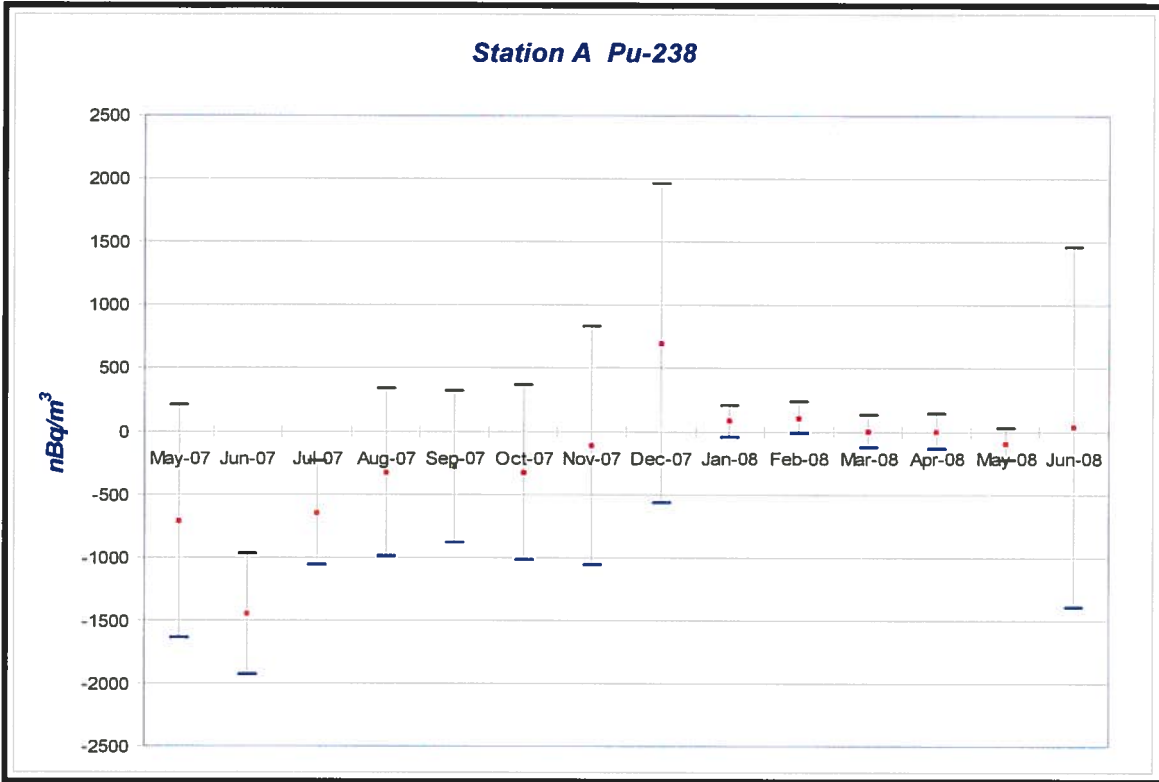




Graph 3: Lab Results for Gross Alpha from Station A

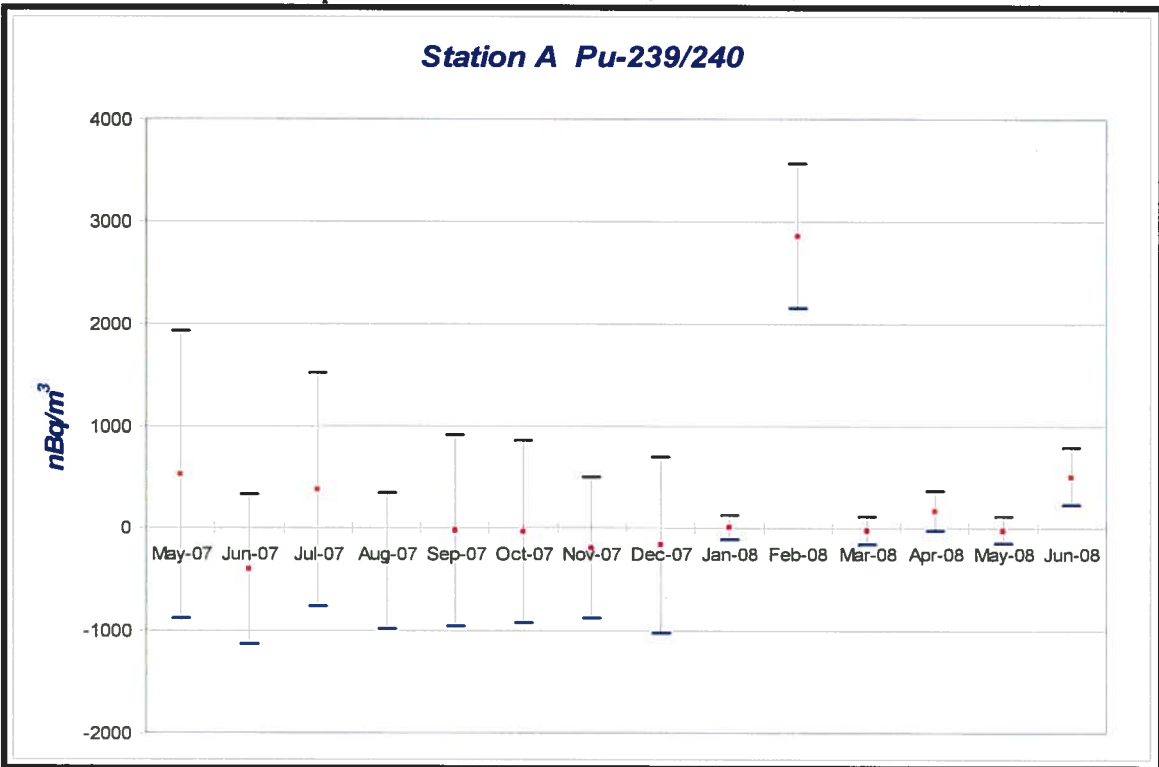


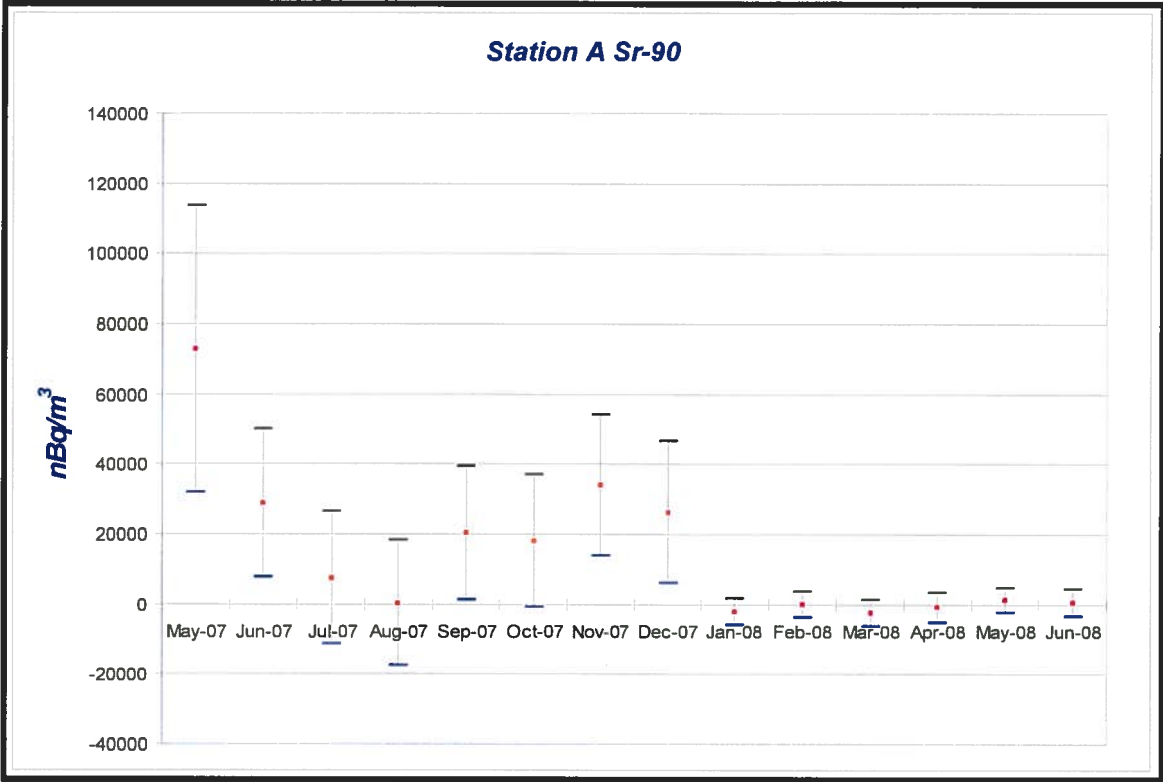
Graph 4: Lab Results for Gross Beta from Station A



Graph 5: Lab Results for Pu-238 from Station A

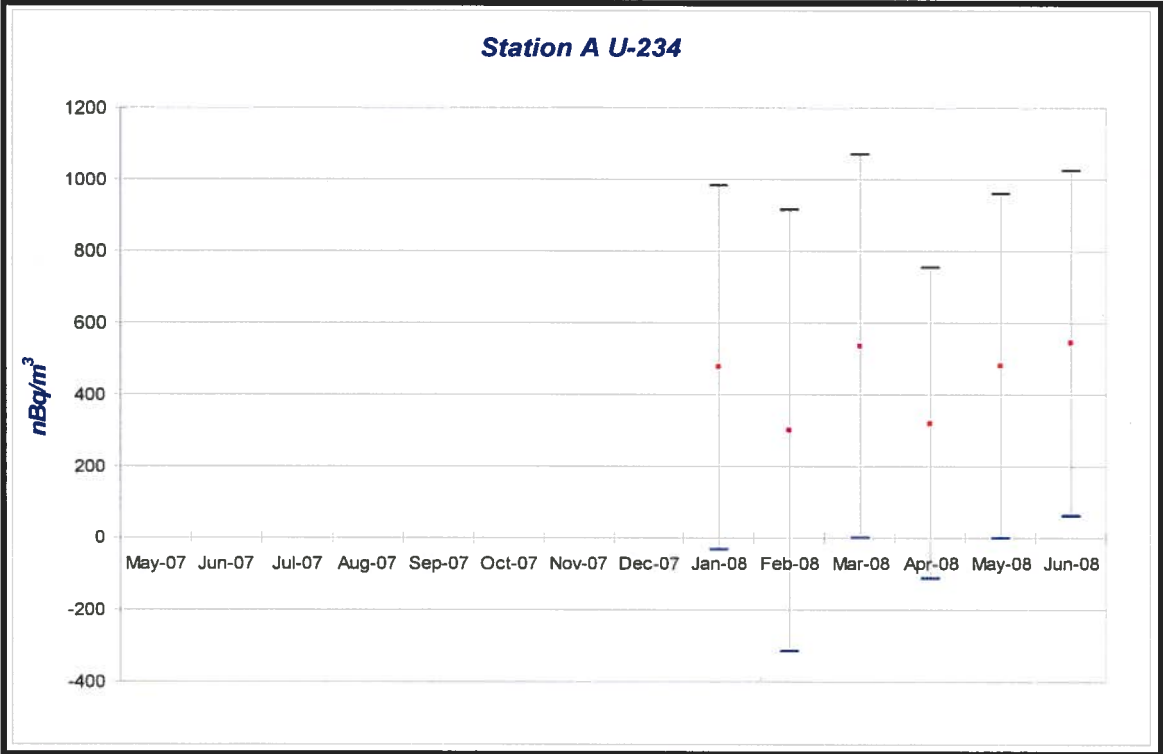
Graph 6: Lab Results for Pu-239/240 From Station A

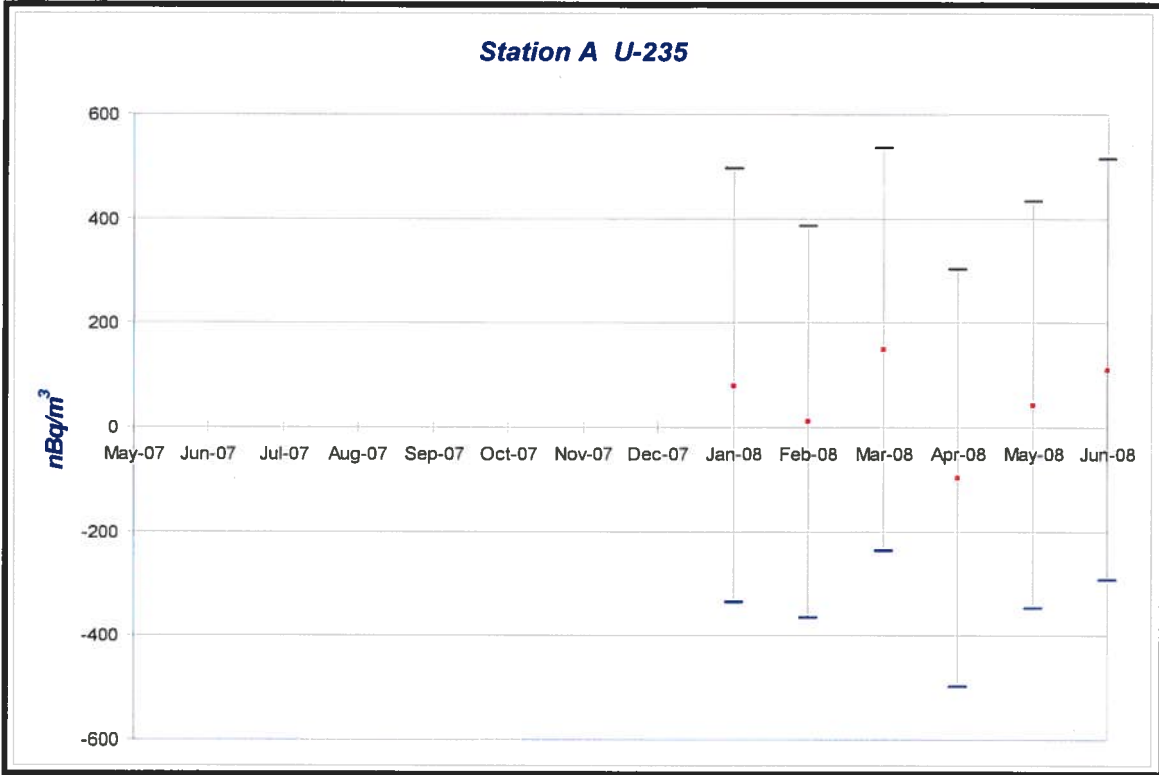




Graph 7: Lab Results for Sr-90 from Station A

Graph 8: Lab Results for U-234 from Station A





Graph 9: Lab Results for U-235 from Station A

Graph 10: Lab Results for U-238 from Station A

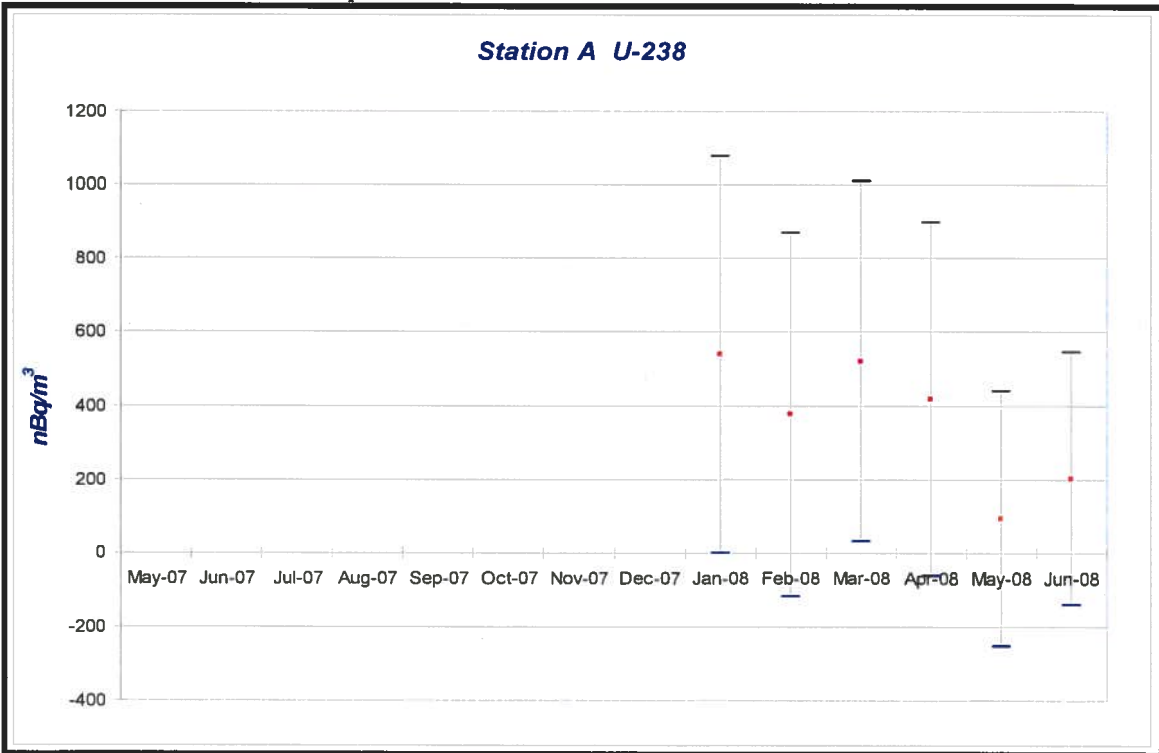


Table 1 – Laboratory Results for Selected Analytes from Station A January
– June 2008.

Analyte	Month	Result (pCi/composite)	2TPU	MDA	Flag	Result (nBq/m ³)	2 σ
Am-241	Jan-08	0.0045	0.011	0.0061	U	69.24	169.25
	Feb-08	0.079	0.035	0.033	LT	1185.61	525.27
	Mar-08	0.00	0.011	0.016	U	0.00	163.58
	Apr-08	0.018	0.013	0.0062	LT	288.58	208.42
	May-08	0.0045	0.011	0.016	U	67.48	164.96
	Jun-08	0.0051	0.012	0.024	U	79.21	186.37
Cs-137	Jan-08	-1.90	3.10	5.30	U, M	-29234.04	47697.65
	Feb-08	-1.50	3.10	5.30	U, M	-22511.53	46523.83
	Mar-08	-2.80	2.60	4.60	U, M	-41638.06	38663.92
	Apr-08	-1.50	3.00	5.20	U, M	-24048.07	48096.13
	May-08	-2.20	2.80	4.80	U, M	-32991.51	41989.20
	Jun-08	-3.10	3.10	5.50	U, M	-48146.39	48146.39
Pu-238	Jan-08	0.005	0.0081	0.0045	LT	76.93	124.63
	Feb-08	0.0068	0.0084	0.0046	LT	102.05	126.06
	Mar-08	0.00	0.0087	0.0048	U	0.00	129.38
	Apr-08	0.00	0.0086	0.013	U	0.00	137.88
	May-08	-0.0068	0.0083	0.02	U	-101.97	124.47
	Jun-08	0.0019	0.092	0.0051	U	29.51	1428.86
Pu-239/240	Jan-08	0.00	0.008	0.012	U	0.00	123.09
	Feb-08	0.19	0.047	0.012		2851.46	705.36
	Mar-08	-0.0018	0.0093	0.021	U	-26.77	138.30
	Apr-08	0.01	0.012	0.019	U	160.32	192.38
	May-08	-0.0017	0.0089	0.02	U	-25.49	133.47
	Jun-08	0.032	0.018	0.017	LT	496.99	279.56
Sr-90	Jan-08	-0.14	0.24	0.59	U	-2154.09	3692.72
	Feb-08	-0.0012	0.25	0.60	U	-18.01	3751.92
	Mar-08	-0.17	0.25	0.63	U	-2528.03	3717.68
	Apr-08	-0.059	0.27	0.66	U	-945.89	4328.65
	May-08	0.072	0.25	0.59	U	1079.72	3749.04
	Jun-08	0.028	0.25	0.58	U	434.87	3882.77
U-234	Jan-08	0.031	0.033	0.05	U	476.98	507.75
	Feb-08	0.02	0.041	0.087	U	300.15	615.32
	Mar-08	0.036	0.036	0.057	U	535.35	535.35
	Apr-08	0.02	0.027	0.049	U	320.64	432.87
	May-08	0.032	0.032	0.044	U	479.88	479.88
	Jun-08	0.035	0.031	0.032	LT	543.59	481.46

Analyte	Month	Result (pCi/composite)	2TPU	MDA	Flag	Result (nBq/m ³)	2σ
U-235	Jan-08	0.0052	0.027	0.039	U	80.01	415.43
	Feb-08	0.0007	0.025	0.05	U	10.51	375.19
	Mar-08	0.01	0.026	0.045	U	148.71	386.64
	Apr-08	-0.0061	0.025	0.049	U	-97.8	400.80
	May-08	0.0029	0.026	0.046	U	43.49	389.90
	Jun-08	0.0071	0.026	0.019	U	110.27	403.81
U-238	Jan-08	0.035	0.035	0.054	U	538.52	538.52
	Feb-08	0.025	0.033	0.061	U	375.19	495.25
	Mar-08	0.035	0.033	0.047	U	520.48	490.73
	Apr-08	0.026	0.03	0.049	U	416.83	480.96
	May-08	0.01	0.02	0.02	U	92.98	344.91
	Jun-08	0.013	0.022	0.043	U	201.9	341.68

Flags:

U – Result is less than the sample specific MDC

LT – Result is less than Requested MDC, greater than sample specific MDC.

M – The requested MDC was not met.