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Station A Exhaust Air Monitoring at the Waste Isolation Pilot Plant Conducted by the New Mexico Environment Department, DOE Oversight Bureau, January – March 2012

The New Mexico Environment Department DOE Oversight Bureau has compiled and assessed data collected from Station A for January through March 2012. The accompanying data report shows results for selected analytes and sample blanks as determined by an independent analytical laboratory.

Results

Am-241 was detected at activities exceeding the sample MDC for February. However, this analyte was also detected at activities exceeding the sample MDC in both the laboratory's method blank and the sample blank, so this result may be anomalous.

Response

Questions and or comments may be addressed to Thomas Kesterson by phone at 575-885-9023, by e-mail at thomasl.kesterson@state.nm.us, or to the address in the above letterhead.

Enclosure: (1) Table 1 – Laboratory Results for Selected Analytes from Station A, January - March, 2012

Cc: George Basabilvazo, DOE CBFO
Thomas Skibitski, Bureau Chief, NMED DOE OB

Table 1 – Laboratory Results for Selected Analytes from Station A, January - March, 2012

Jan-12 ***Station A*** Analyte	Analytical Results Monthly Composite Sample				***Data Summaries***	
	Result	2s TPU	Sample	Lab	Result	2s TPU
	pCi/composite		MDC	Flag	nBq/m^3	
Sr-90	6.25E-02	4.2E-01	7.06E-01	U	9.62E+02	6.47E+03
Pu-239/40	2.73E-02	3.5E-02	6.38E-02	U	4.20E+02	5.39E+02
Pu-238	0.00E+00	2.4E-02	6.40E-02	U	0.00E+00	3.69E+02
Am-241	-4.74E-03	2.6E-02	6.70E-02	U	-7.30E+01	4.00E+02
Cs-137	-9.20E-01	1.7E+00	2.74E+00	U	-1.42E+04	2.62E+04
U-234	2.80E-02	2.5E-02	3.10E-02	U	4.31E+02	3.85E+02
U-235	9.01E-04	1.0E-02	3.10E-02	U	1.39E+01	1.54E+02
U-238	1.44E-02	1.92E-02	3.10E-02	U	2.22E+02	2.96E+02
	(m^3)	(ft^3)				
Total Air Flow	2404	84904				

Feb-12 ***Station A*** Analyte	Analytical Results Monthly Composite Sample				***Data Summaries***	
	Result	2s TPU	Sample	Lab	Result	2s TPU
	pCi/composite		MDC	Flag	nBq/m^3	
Sr-90	-8.70E-03	3.9E-01	6.59E-01	U	-1.41E+02	6.32E+03
Pu-239/40	2.00E-02	3.6E-02	7.15E-02	U	3.24E+02	5.84E+02
Pu-238	5.00E-03	1.8E-02	4.71E-02	U	8.11E+01	2.92E+02
Am-241	1.05E-01	6.4E-02	5.13E-02		1.70E+03	1.04E+03
Cs-137	1.07E+00	2.1E+00	3.65E+00	U	1.74E+04	3.41E+04
U-234	1.47E-02	1.90E-02	3.16E-02	U	2.38E+02	3.08E+02
U-235	4.59E-03	9.9E-03	2.60E-02	U	7.44E+01	1.61E+02
U-238	9.18E-04	1.1E-02	3.16E-02	U	1.49E+01	1.78E+02
	(m^3)	(ft^3)				
Total Air Flow	2282	80595				

Mar-12 ***Station A*** Analyte	Analytical Results Monthly Composite Sample				***Data Summaries***	
	Result	2s TPU	Sample	Lab	Result	2s TPU
	pCi/composite		MDC	Flag	nBq/m^3	
Sr-90	-2.62E-01	3.7E-01	6.39E-01	U	-4.69E+03	6.62E+03
Pu-239/40	1.05E-02	2.7E-02	6.03E-02	U	1.88E+02	4.83E+02
Pu-238	5.27E-03	1.9E-02	4.97E-02	U	9.43E+01	3.40E+02
Am-241	1.76E-02	2.6E-02	4.97E-02	U	3.15E+02	4.65E+02
Cs-137	2.25E+00	3.3E+00	5.83E+00	U	4.03E+04	5.90E+04
U-234	2.52E-02	2.3E-02	2.54E-02	U	4.51E+02	4.12E+02
U-235	-1.80E-03	9.7E-03	2.54E-02	U	-3.22E+01	1.74E+02
U-238	9.01E-03	1.3E-01	2.54E-02	U	1.61E+02	2.33E+03
	(m^3)	(ft^3)				
Total Air Flow	2068	73049				