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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, April – June 2012**

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

Results

Results indicate no activities above the sample Minimum Detectable Concentration (MDC) for americium-241, cesium-137, isotopic plutonium, or strontium-90. The contract lab reported that uranium analysis failed due to low tracer yields. Due to the matrix type, isotopic uranium was run sequentially with the plutonium and americium. While the tracer yield for these analytes was within acceptance criteria, the uranium tracer yield was lost due to an unidentified chemistry failure. Therefore, no uranium results were reported, and no additional sample volume was available for re-analysis.

Response

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

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

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

Table 1 – Laboratory Results for Selected Analytes from Station A, April - June 2012

<i>Apr-12</i> <i>Station A</i> Analyte	Analytical Results Monthly Composite Sample				<i>Data Summaries</i>	
	Result	2s TPU	Sample	Lab	Result	2s TPU
	pCi/composite		MDC	Flag	nBq/m ³	
Sr-90	1.07E-01	4.4E-01	9.23E-01	U	1.70E+03	7.00E+03
Pu-239/40	7.27E-03	2.0E-02	4.46E-02	U	1.16E+02	3.18E+02
Pu-238	1.15E-02	2.6E-02	5.47E-02	U	1.83E+02	4.14E+02
Am-241	-3.73E-04	2.0E-03	5.26E-03	U	-5.94E+00	3.18E+01
Cs-137	1.22E-02	6.1E-01	1.05E+00	U	1.94E+02	9.71E+03
U-234						
U-235						
U-238						
Total Air Flow	(m ³) 2324	(ft ³) 82108				

<i>May-12</i> <i>Station A</i> Analyte	Analytical Results Monthly Composite Sample				<i>Data Summaries</i>	
	Result	2s TPU	Sample	Lab	Result	2s TPU
	pCi/composite		MDC	Flag	nBq/m ³	
Sr-90	2.47E-01	4.3E-01	8.59E-01	U	4.27E+03	7.43E+03
Pu-239/40	-2.33E-03	2.0E-02	5.76E-02	U	-4.02E+01	3.45E+02
Pu-238	-1.17E-03	1.4E-02	4.54E-02	U	-2.02E+01	2.42E+02
Am-241	-3.46E-07	1.7E-02	4.82E-02	U	-5.98E-03	2.94E+02
Cs-137	-6.76E-01	8.9E-01	1.47E+00	U	-1.17E+04	1.54E+04
U-234						
U-235						
U-238						
Total Air Flow	(m ³) 2142	(ft ³) 75667				

<i>Jun-12</i> <i>Station A</i> Analyte	Analytical Results Monthly Composite Sample				<i>Data Summaries</i>	
	Result	2s TPU	Sample	Lab	Result	2s TPU
	pCi/composite		MDC	Flag	nBq/m ³	
Sr-90	4.05E-02	4.1E-01	8.66E-01	U	6.46E+02	6.54E+03
Pu-239/40	-2.84E-02	2.4E-02	7.71E-02	U	-4.53E+02	3.83E+02
Pu-238	1.93E-02	2.1E-02	3.16E-02	U	3.08E+02	3.35E+02
Am-241	3.21E-03	1.2E-02	3.02E-02	U	5.12E+01	1.91E+02
Cs-137	4.72E-01	1.3E+00	2.22E+00	U	7.53E+03	2.07E+04
U-234						
U-235						
U-238						
Total Air Flow	(m ³) 2320	(ft ³) 81960				