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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 2010**

The New Mexico Environment Department DOE Oversight Bureau has compiled and assessed data collected from Station A for April through June, 2010. The accompanying data report shows results for selected analytes as determined by an independent analytical laboratory.

For americium-241, results for May and June were above the sample Minimum Detectable Concentration (MDC), but below the requested MDC. The result for plutonium-238 for April was also above the sample MDC, while below the requested MDC. However, the results from the sample blank for both these two analytes were also above the sample MDC and below the requested MDC.

For the remaining requested analytes, results indicated no detections above the sample MDC.

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.

Enclosure: (1) Table 1 – Laboratory Results for Selected Analytes from Station A, April – June, 2010.
(2) Definitions

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Table 1 – Laboratory Results for Selected Analytes from Station A, April – June, 2010.

<i>Apr-10</i> <i>Station A</i>	Analytical Results Monthly Composite Sample					<i>Data Summaries</i>	
	Result	2 s	Sample	Requested	Lab	Result	2 s
	pCi/composite		MDC	MDC	Flag	nBq/m ³	
Sr-90	0.25	0.30	0.64	1	U	3842	4610
Pu-239/40	0.011	0.019	0.033	0.1	U	169	292
Pu-238	0.029	0.021	0.0098	0.1	LT	446	323
Am-241	0.020	0.019	0.024	0.1	U	307	292
Cs-137	-1.0	5.5	9.7	10	U	-15368	84523
U-234	0.020	0.042	0.060	0.2	U	307	645
U-235	-0.0081	0.049	0.085	0.2	U	-124	753
U-238	0.023	0.042	0.031	0.2	U	353	645
Total Air Flow	(m ³) 2408	(ft ³) 85044					

<i>May-10</i> <i>Station A</i>	Analytical Results Monthly Composite Sample					<i>Data Summaries</i>	
	Result	2 s	Sample	Requested	Lab	Result	2 s
	pCi/composite		MDC	MDC	Flag	nBq/m ³	
Sr-90	0.077	0.31	0.68	1	U	1161	4675
Pu-239/40	0	0.025	0.051	0.1	U	0	377
Pu-238	0.022	0.021	0.027	0.1	U	332	317
Am-241	0.014	0.018	0.0098	0.1	LT	211	271
Cs-137	-0.22	5.1	9.0	10	U	-3318	76913
U-234	0.026	0.052	0.11	0.2	U	392	784
U-235	0.0017	0.060	0.12	0.2	U	26	905
U-238	0.026	0.052	0.11	0.2	U	392	784
Total Air Flow	(m ³) 2453	(ft ³) 86662					

Table 1 – Laboratory Results for Selected Analytes from Station A, April – June, 2010.

<i>Jun-10 Station A</i>	Analytical Results Monthly Composite Sample					<i>Data Summaries</i>			
	Analyte	Result	2 s	Sample	Requested	Lab	Result	2 s	
		pCi/composite		MDC	MDC	Flag	nBq/m ³		
Sr-90	-0.14	0.32	0.72	1	U	-2153	4922		
Pu-239/40	0.011	0.019	0.033	0.1	U	169	292		
Pu-238	0.014	0.020	0.033	0.1	U	215	308		
Am-241	0.0099	0.016	0.0089	0.1	LT	152	246		
Cs-137	0.65	5.2	9.0	10	U	9998	79984		
U-234	0.0051	0.046	0.080	0.2	U	78	708		
U-235	0.010	0.054	0.078	0.2	U	154	831		
U-238	0.030	0.046	0.080	0.2	U	461	708		
Total Air Flow	(m ³) 2405	(ft ³) 84969							

<i>Blank filter April - June 2010 Station A</i>						<i>Data Summaries</i>	
Analyte	Result	2 s	MDC	Requested	Lab Flag	Result	2 s
	pCi/composite			MDC		nBq/composite	
Sr 90	0.44	0.32	0.64	1	U	6768	4922
Pu-239/40	0.035	0.026	0.028	0.1	LT	538	400
Pu-238	0.035	0.024	0.010	0.010	LT	538	369
Am 241	0.039	0.032	0.036	0.1	LT	600	492
Cs 137	0.058	4.5	7.8	10	U	892	69217
U-234	0	0.047	0.13	0.2	U	0	723
U-235	0.039	0.058	0.11	0.2	U	600	892
U-238	-0.0012	0.043	0.110	0.2	U	-18	661

Definitions:**Qualifiers / Flags**

U – Result is less than the sample specific MDC.

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

Abbreviations:

TPU – Total Propagated Uncertainty

MDC – Minimum Detectable Concentration