



Allen, Pam, NMENV

From: Maestas, Ricardo, NMENV
Sent: Thursday, June 19, 2014 2:36 PM
To: Allen, Pam, NMENV
Subject: FW: EPA Air Sampling Results are now on the EPA Website
Attachments: WIPP-Air-Sampling-Data-April2014.pdf

For June Record

From: Kliphuis, Trais, NMENV
Sent: Thursday, June 19, 2014 2:09 PM
To: Skibitski, Thomas, NMENV; Winchester, Jim, NMENV
Cc: Maestas, Ricardo, NMENV; Smith, Coleman, NMENV; Holmes, Steve, NMENV; Kieling, John, NMENV; Turner, Jill, NMENV; Nelson, Morgan, NMENV; LucasKamat, Susan, NMENV
Subject: FW: EPA Air Sampling Results are now on the EPA Website

Might be worth mentioning on the NMED site....

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From: Stone, Nick [mailto:stone.nick@epa.gov]
Sent: Thursday, June 19, 2014 2:06 PM
To: Kliphuis, Trais, NMENV; Skibitski, Thomas, NMENV
Cc: Brozowski, George; Spalding, Susan; Rush, Randall
Subject: EPA Air Sampling Results are now on the EPA Website

<http://www.epa.gov/radiation/news/wipp-news.html#wippradevent>

Under Updates, the air sampling data is posted for June 6, 2014.
The pdf is attached.
Thanks for your patience,
Nick

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**EPA's Response to the February 2014 Release of Radioactive Material
from the Waste Isolation Pilot Plant (WIPP)**

EPA's WIPP Air Sampling Data from April 2014

June 3, 2014

Background

In 1999 the U.S. Department of Energy (DOE) began waste disposal operations at the Waste Isolation Pilot Plant (WIPP) in New Mexico. WIPP is a deep geologic repository for permanent disposal of a specific type of waste—transuranic waste—that is the byproduct of the nation's nuclear defense program. Transuranic waste consists of clothing, tools, rags, residues, debris, soil and other items contaminated with small amounts of plutonium and other man-made radioactive elements.

On February 14, 2014, an underground continuous air monitor at WIPP measured airborne radioactivity close to the operating location where waste was being placed. The air exhaust switched to a filtered mode of operation. The next day an aboveground exhaust air monitor on the WIPP site detected very low levels of airborne americium and plutonium. It is believed that a small amount of radioactivity leaked through the air exhaust-duct dampers, bypassing the filtration system. DOE sealed the dampers with high-density expanding foam insulation and no aboveground radioactivity has been detected since.

Members of a U.S. Environmental Protection Agency (EPA) environmental monitoring and assessment team spent several weeks at the WIPP site in early April 2014. While at the WIPP facility, EPA reviewed DOE's air sampling plan for monitoring the area in and around the facility, visited DOE's air samplers to review their operations and placed air samplers on-site near existing DOE samplers to independently corroborate DOE's reported results (see EPA results on page 2). EPA's review of the data collected indicates that the radiation releases did not pose a public health concern.

Results Summary

From April 7, 2014, to April 29, 2014, EPA's WIPP assessment and monitoring team operated air samplers near three existing DOE WIPP air sampling sites. After a complete analysis of the air filters EPA collected from the WIPP site, all the results were considered "non-detect" for americium-241, plutonium-238 and plutonium-239/240; these are the radionuclides of concern with a release at the WIPP site.

"Non-detect" means that no radioactivity was detected or measurable beyond the analytical uncertainty range.

EPA will post the EPA/DOE data comparison to EPA's WIPP website when the analysis is complete.

**EPA's Response to the February 2014 Release of Radioactive Material
from the Waste Isolation Pilot Plant (WIPP)**

EPA WIPP Air Sampling Data from April 2014

Location Number*	Location Name	Collection Dates	Sample Type	Units	Americium-241	Plutonium-238	Plutonium-239/240
1	Far Field	4/7/2014 - 4/15/2014	Air Filter	Bq/m3	Non-Detect**	Non-Detect	Non-Detect
1 (duplicate)	Far Field	4/7/2014 - 4/15/2014	Air Filter	Bq/m3	Non-Detect	Non-Detect	Non-Detect
1	Far Field	4/15/2014 – 4/22/2014	Air Filter	Bq/m3	Non-Detect	Non-Detect	Non-Detect
1 (duplicate)	Far Field	4/15/2014 – 4/22/2014	Air Filter	Bq/m3	Non-Detect	Non-Detect	Non-Detect
1	Far Field	4/22/2014 – 4/29/2014	Air Filter	Bq/m3	Non-Detect	Non-Detect	Non-Detect
1 (duplicate)	Far Field	4/22/2014 – 4/29/2014	Air Filter	Bq/m3	Non-Detect	Non-Detect	Non-Detect
2	WIPP East	4/7/2014 - 4/15/2014	Air Filter	Bq/m3	Non-Detect	Non-Detect	Non-Detect
2	WIPP East	4/15/2014 – 4/22/2014	Air Filter	Bq/m3	Non-Detect	Non-Detect	Non-Detect
2	WIPP East	4/22/2014 – 4/29/2014	Air Filter	Bq/m3	Non-Detect	Non-Detect	Non-Detect
3	WIPP South	4/7/2014 - 4/15/2014	Air Filter	Bq/m3	Non-Detect	Non-Detect	Non-Detect
3	WIPP South	4/15/2014 – 4/22/2014	Air Filter	Bq/m3	Non-Detect	Non-Detect	Non-Detect
3	WIPP South	4/22/2014 – 4/29/2014	Air Filter	Bq/m3	Non-Detect	Non-Detect	Non-Detect

* See page 3 for DOE air sampling station map

** "Non-detect" means that no radioactivity was detected or measurable beyond the analytical uncertainty range.

DOE Active Air Sampling Sites

