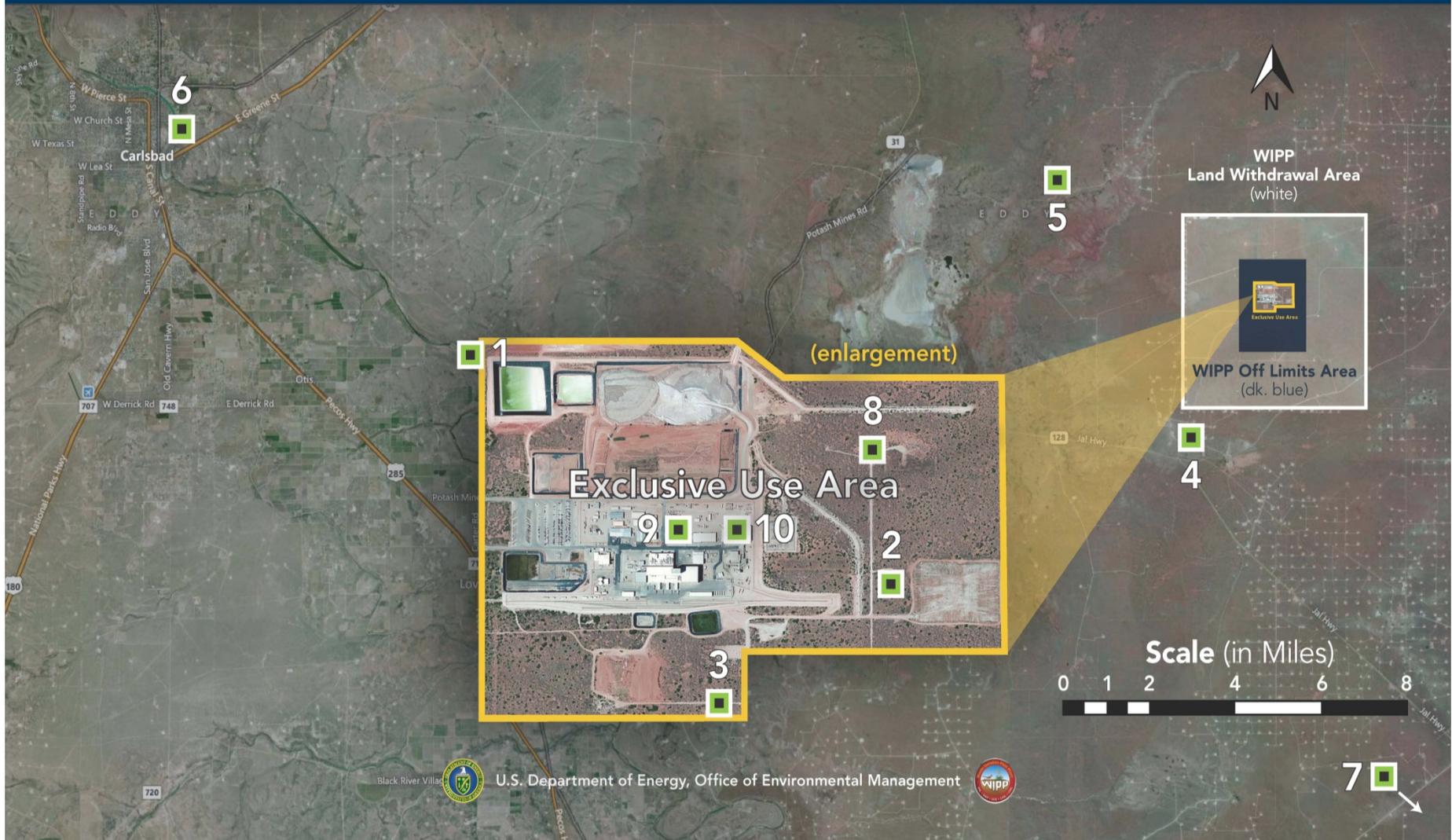


LOW-VOLUME AIR SAMPLING LOCATIONS



AIR SAMPLING RESULTS

Location	Filter Retrieval Date	Screening Analyses			WIPP Isotopic Analyses		
		Results		Dose Estimate (mrem)	Results		Dose Estimate (mrem)
		dpm/sample	Bq/sample		dpm/sample	Bq/sample	
1	2/15/2014	36	0.60	2	52	0.87	3
1	2/18/2014	2.4	0.040	0.1	0.28	0.0047	0.02
1	2/26/2014	1.9	0.032	0.1	Below MDC	Below MDC	N/C
1	3/4/2014	4.2	0.070	0.3	Below MDC	Below MDC	N/C
1	3/11/2014	---	---	---	Below MDC	Below MDC	N/C
2	2/17/2014	4.4	0.073	0.3	0.61	0.010	0.04
2	2/26/2014	2.5	0.041	0.2	Below MDC	Below MDC	N/C
2	3/4/2014	4.9	0.082	0.3	Below MDC	Below MDC	N/C
2	3/11/2014	---	---	---	Below MDC	Below MDC	N/C
3	2/17/2014	3.7	0.062	0.2	0.13	0.0021	0.009
3	2/26/2014	2.2	0.037	0.2	Below MDC	Below MDC	N/C
3	3/4/2014	3.3	0.054	0.2	Below MDC	Below MDC	N/C
3	3/11/2014	---	---	---	Below MDC	Below MDC	N/C
4	2/18/2014	2.7	0.045	0.2	Below MDC	Below MDC	N/C
4	2/26/2014	2.6	0.043	0.2	Below MDC	Below MDC	N/C
4	3/4/2014	5.5	0.092	0.4	Below MDC	Below MDC	N/C
4	3/11/2014	---	---	---	Below MDC	Below MDC	N/C
5	2/17/2014	4.2	0.070	0.3	0.26	0.0043	0.02
5	2/26/2014	1.1	0.019	0.07	Below MDC	Below MDC	N/C
5	3/4/2014	5.5	0.092	0.4	Below MDC	Below MDC	N/C
5	3/11/2014	---	---	---	Below MDC	Below MDC	N/C
6	2/18/2014	1.6	0.027	0.1	Below MDC	Below MDC	N/C
6	2/26/2014	2.2	0.037	0.2	Below MDC	Below MDC	N/C
6	3/4/2014	7.1	0.12	0.5	Below MDC	Below MDC	N/C
6	3/11/2014	---	---	---	Below MDC	Below MDC	N/C
7	2/18/2014	1.3	0.022	0.1	Below MDC	Below MDC	N/C
7	2/26/2014	2.7	0.044	0.2	Below MDC	Below MDC	N/C
7	3/4/2014	6.7	0.11	0.4	Below MDC	Below MDC	N/C
7	3/11/2014	---	---	---	Below MDC	Below MDC	N/C
8	3/11/2014	---	---	---	Below MDC	Below MDC	N/C
9	3/11/2014	---	---	---	Below MDC	Below MDC	N/C
10	3/11/2014	---	---	---	Below MDC	Below MDC	N/C

Note regarding screening results: Screening is no longer being routinely performed by DOE. Screening was important when the potential for contamination was high, immediately after the event. Screening results have returned to normal background levels so screening has been discontinued in order to facilitate timelier laboratory isotopic analysis. Laboratory isotopic analysis is the only reliable way of measuring airborne radioactivity at the low levels being encountered. Should the isotopic values increase, screening analyses may be resumed.

MDC = Minimum Detectable Concentration (An analytical laboratory limit below which any level present cannot be determined)

N/C = not calculated. It is not appropriate to calculate doses based on values that are below the instrument minimum detectable concentration. The dose at this location is expected to be the natural background dose.

UNDERSTANDING THE AIR SAMPLING DATA

The previous table provides screening analyses for the amount of alpha and beta activity that has been detected since the February 14 radiological event. Radioactive contamination at WIPP is measured and reported in a unit called disintegrations per minute (dpm) or in units of Becquerel (Bq).

Dose is calculated and reported in millirem. Dose varies based on factors such as length of exposure and distance from the source of the radiation. The average person living in the United States receives an annual dose from exposure to naturally occurring and other sources of radiation of about 620 millirem. A person receives about 10 millirems from a single chest x-ray procedure. For more comparisons, see the millirem comparisons poster.

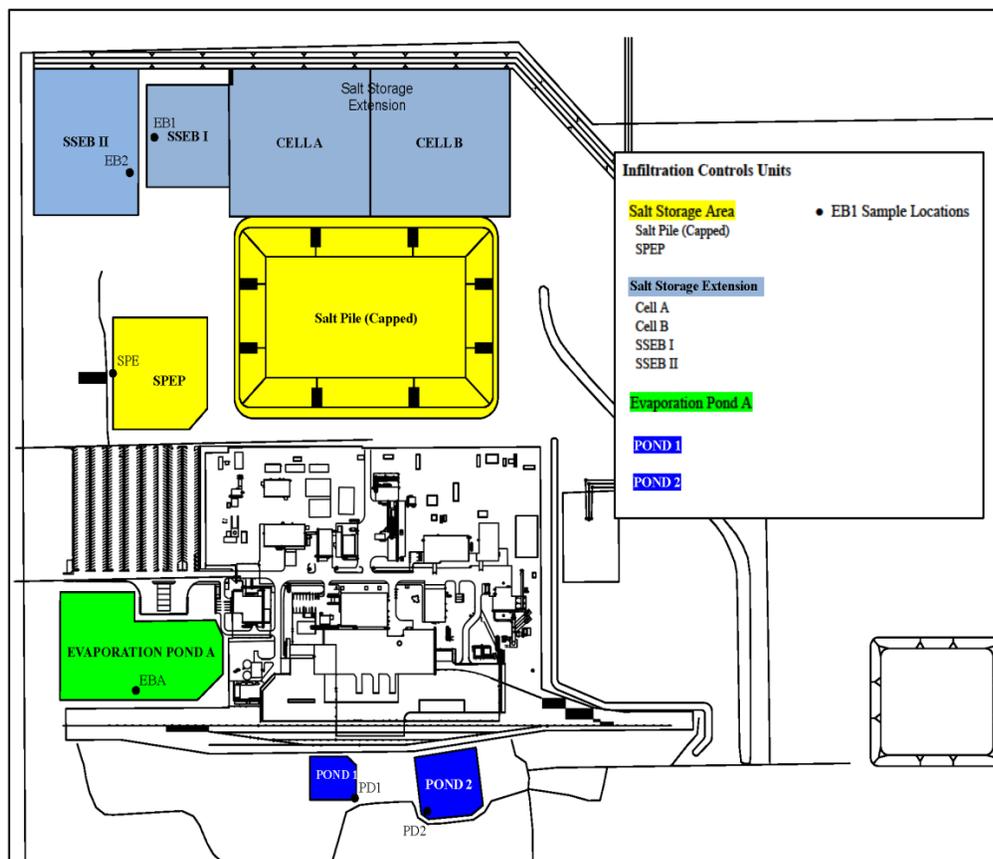
Dose estimates have been calculated based on the low-volume air sampler results. Low-volume air samplers collect samples at a rate of 2 cubic feet/minute to simulate a person's normal breathing rate.

The initial dose estimate assumes the person who might be exposed is standing next to the air sampler for 8.5 hours. The subsequent dose estimates assume the person who might be exposed is standing next to the air sampler throughout the sampling period.

Dose assessment modeling from the release data shows a potential dose of less than one millirem at the environmental sample locations outside the Land Withdrawal Area.

The analyses from an off-site radiological laboratory and additional results will be posted as they become available. Comprehensive protocols are followed to ensure the results are accurate.

WATER SAMPLING RESULTS



Location	Sample Date	WIPP Isotopic Analyses	
		Results	
		(dpm/L)	(Bq/L)
Evaporation Basin A	2/19/2014	Below MDC	Below MDC
Evaporation Basin A	2/19/2014	Below MDC	Below MDC
Salt Pile Evaporation Pond	2/19/2014	Below MDC	Below MDC
Salt Storage Extension Basin I	2/19/2014	Below MDC	Below MDC
Salt Storage Extension II	2/19/2014	Below MDC	Below MDC
SWIC Pond 1	2/19/2014	Below MDC	Below MDC
SWIC Pond 2	2/19/2014	Below MDC	Below MDC
Blank	2/19/2014	Below MDC	Below MDC
Sample of Opportunity *	3/2/2014	1.0	0.017
Sample of Opportunity *	3/2/2014	0.43	0.0071
Quality Control Blank	3/2/2014	Below MDC	Below MDC

MDC = Minimum Detectable Concentration (An analytical laboratory limit below which any level present cannot be determined)

* Samples of opportunity collected during rain event from WIPP site building roof top and roadway drainage. Highest concentration is about 3% of the EPA drinking water standard for alpha radioactivity, and represents the only signature of deposition close to the release that has been identified to date.

SOIL SAMPLING RESULTS

Location	Sample Date	WIPP Isotopic Analyses	
		Results	
		(dpm/g)	(Bq/g)
Location 1 Surface Sample (0-2 cm)	2/13/2014	Below MDC	Below MDC
Location 1 Intermediate Sample (2-5 cm)	2/13/2014	Below MDC	Below MDC
Location 1 Deep Sample (5-10 cm)	2/13/2014	Below MDC	Below MDC
Location 2 Surface Sample (0-2 cm)	2/13/2014	Below MDC	Below MDC
Location 2 Intermediate Sample (2-5 cm)	2/13/2014	Below MDC	Below MDC
Location 2 Deep Sample (5-10 cm)	2/13/2014	Below MDC	Below MDC
Location 3 Surface Sample (0-2 cm)	2/14/2014	Below MDC	Below MDC
Location 3 Intermediate Sample (2-5 cm)	2/14/2014	Below MDC	Below MDC
Location 3 Deep Sample (5-10 cm)	2/14/2014	Below MDC	Below MDC
Location 1 Surface Sample (0-2 cm)	2/17/2014	Below MDC	Below MDC
Location 1 Surface Sample (0-2 cm)	2/17/2014	Below MDC	Below MDC
Location 2 Surface Sample (0-2 cm)	2/17/2014	Below MDC	Below MDC
Location 3 Surface Sample (0-2 cm)	2/17/2014	Below MDC	Below MDC
Location 4 Surface Sample (0-2 cm) *	2/20/2014	0.048	0.00081
Location 5 Surface Sample (0-2 cm)	2/20/2014	Below MDC	Below MDC
Location 7 Surface Sample (0-2 cm)	2/20/2014	Below MDC	Below MDC
Location 7 Surface Sample (0-2 cm)	2/20/2014	Below MDC	Below MDC

MDC = Minimum Detectable Concentration (An analytical laboratory limit below which any level present cannot be determined)

* TRU isotopes detected previously (most likely source: Gnome test 1961)

VEGETATION SAMPLING RESULTS

Location	Sample Date	WIPP Isotopic Analyses	
		Results	
		(dpm/g)	(Bq/g)
Location 1	2/21/2014	Below MDC	Below MDC
Location 1 (Duplicate)	2/21/2014	Below MDC	Below MDC
Location 2	2/21/2014	Below MDC	Below MDC
Location 3	2/22/2014	Below MDC	Below MDC
Location 4	2/22/2014	Below MDC	Below MDC
Location 5	2/22/2014	Below MDC	Below MDC
Location 7	2/22/2014	Below MDC	Below MDC

MDC = Minimum Detectable Concentration (An analytical laboratory limit below which any level present cannot be determined)

Results from the recent analyses of vegetation near the WIPP site show values below minimum detectable concentration levels. These results were expected since plant absorption occurs at various rates and depends on their growth.

WIPP will continue to sample and analyze vegetation around the WIPP site throughout the growing year to monitor for the presence of transuranic radioactive isotopes.