



**Department of Energy**

Carlsbad Field Office

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AUG 08 2014

Mr. John E. Kieling, Bureau Chief  
Hazardous Waste Bureau  
New Mexico Environment Department  
2905 Rodeo Park Drive East, Building 1  
Santa Fe, NM 87508-6303

Mr. Tom Blaine, Division Director  
Environmental Health Division  
Harold Runnels Building  
1190 Saint Francis Drive, Room 4050  
Santa Fe, NM 87502-5469

Subject: Bi-Weekly Report for the reporting period ending July 27, 2014, as requested per Item 18 of the May 12, 2014, NMED Administrative Order

Dear Mr. Kieling and Mr. Blaine:

The purpose of this letter is to transmit the bi-weekly report for the reporting period ending July 27, 2014, as required by Item 18 of the May 12, 2014, Administrative Order issued under the authority of the New Mexico Hazardous Waste Act § 74-4-13 from Ryan Flynn to Messrs. Hellstrom, Franco, Cook, and McQuinn. This report is enclosed along with a compact disc containing data requested by the Administrative Order.

We certify under penalty of law that this document and all attachments were prepared under our direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on our inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of our knowledge and belief, true, accurate, and complete. We are aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions, please contact Mr. George T. Basabilvazo at (575) 234-7488.

Sincerely,

Original Signatures on File

Jose R. Franco, Manager  
Carlsbad Field Office

Robert L. McQuinn, Project Manager  
Nuclear Waste Partnership LLC

Enclosure

cc: w/enclosure  
T. Kliphuis, NMED \*ED  
J. Sales, EPA ED  
CBFO M&RC  
\*ED denotes electronic distribution

**Bi-Weekly Status Report for the New Mexico Environment Department  
February 27, 2014, and May 12, 2014, Administrative Orders  
Reporting Period July 14, 2014, through July 27, 2014**

**Introduction**

On February 5, 2014, a vehicle fire occurred in the Waste Isolation Pilot Plant (WIPP) underground, resulting in normal operations and waste shipments from generator sites being temporarily suspended. On February 14, 2014, while the fire investigation was still underway, a Continuous Air Monitor detected airborne radiation in the WIPP underground facility, causing the ventilation exhaust to automatically shift to high efficiency particulate air (HEPA) filtration mode. The ventilation system has been operating in filtration mode since that time. Recent entries into Panel 7 in the underground have confirmed that at least one container from a nitrate salt bearing waste stream from Los Alamos National Laboratory has been breached and is most likely the source of the release. Further investigations are currently ongoing as part of the re-entry process to collect additional information regarding the release. All shipments of waste to the WIPP facility have been suspended.

The New Mexico Environment Department (NMED) has issued two Administrative Orders (AOs) to address certain activities relative to the WIPP Hazardous Waste Facility Permit (Permit) that cannot be performed because the underground is inaccessible for normal activities. The AOs provide requirements for monitoring and reporting to the NMED concerning the status of recovery from the two events. The first administrative order (AO1) was issued on February 27, 2014, and addressed above-ground compliance issues, and required a weekly report to be submitted with regard to surface-related requirements of the Permit. On May 12, 2014, a second administrative order (AO2) was issued to address, in part, Permit-required activities that cannot currently be performed due to the inaccessibility of the underground. AO2 changes the reporting period from weekly to bi-weekly, with additional information required to supplement the information required by AO1. This report serves to fulfill the reporting requirements set forth by both AO1 and AO2. Paragraph 18(a) of AO2 states that informational requirements of both orders may be combined. The following sections combine the information required by both orders, as appropriate, and provide references to the applicable paragraphs from AO1 and AO2.

The Permittees are in the process of developing a WIPP Recovery Plan, which will provide the safe and environmentally sound approach for bringing the WIPP facility back to a fully operational state. In accordance with Paragraph 17(a) of AO2, the Permittees were required to submit a draft *Underground Compliance Plan* (UCP) to the NMED by June 26, 2014. Pertinent elements of the WIPP Recovery Plan will be integrated into the UCP as these elements pertain to the Permit-related requirements addressed by the AOs. The bi-weekly reports will provide a status of recovery-related activities, as outlined in AO1 and AO2, aimed at bringing the WIPP facility into full compliance with the terms and conditions of the Permit. The initial bi-weekly report was submitted to the NMED on June 13, 2014. In accordance with Paragraph 18(a) of AO2, subsequent reports will identify new information since the previous reporting period.

**1.0 Status of Permit-related surface and underground inspections for this reporting period, as requested per Paragraph 14(a) of AO1 and Paragraphs 18(c) and 18(e)(iii) of AO2, including the accessibility for personnel performing these Permit-required activities per Paragraph 18(e)(i) of AO2 and the status of recovery activities per Paragraph 18(e)(ii) of AO2:**

See Attachment 1, *Surface and Underground Inspections*, for the current status of each Permit-required inspection, including accessibility of underground equipment for personnel performing the inspections. This list is taken from Permit Attachment E, Table E-1. The surface and underground inspections required by Table E-1a related to remote-handled (RH) transuranic (TRU) waste are pre-operational. Because the WIPP facility has not been handling RH TRU waste, and there is no RH TRU waste being stored at the WIPP facility at this time, these pre-operational inspections do not currently apply. Inspections and preventative maintenance (PMs) are not required for equipment that is out of service. Prior to commencing RH TRU waste handling operations, PMs and/or inspections will be brought into a current/compliant status.

As indicated in Attachment 1, underground inspections cannot currently be performed due to the inaccessibility of the underground to personnel responsible for conducting the inspections. In accordance with Paragraph 17(a) of AO2, the Permittees were required to submit the draft UCP to the NMED by June 26, 2014. The order requires that the UCP shall include a detailed compliance schedule for those requirements described in Paragraph 13 of AO2. The compliance schedule includes a proposed timeline, including dates, for achieving underground recovery and attaining compliance with these Permit-required activities. Before these activities can resume, however, certain activities must be performed in order to establish the safety and habitability of the work areas in the underground. The UCP will be updated as information becomes available, and these updates will be provided to the NMED for review and comment prior to being incorporated. Updates to the UCP will be reflected in the bi-weekly reports, as required by Paragraph 18(c) of AO2.

**2.0 Status of Permit-related monitoring activities for this reporting period, as requested per Paragraph 14(a) of AO1 and Paragraph 18(c) of AO2, including the accessibility for personnel performing these Permit-required activities per Paragraph 18(e)(i) of AO2 and the status of recovery activities per Paragraph 18(e)(ii) of AO2:**

In accordance with Paragraph 17(a) of AO2, the draft UCP to the NMED was submitted to the NMED by June 26, 2014. The Permittees are awaiting NMED comments. Updates to the UCP will be reflected in the bi-weekly reports, as required by Paragraph 18(c) of AO2.

Volatile Organic Compound (VOC) Monitoring

Repository VOC monitoring activities (required by Permit Part 4, Section 4.6.2., including Table 4.6.2.3., and associated requirements in Attachment N) are not currently being performed due to the inaccessibility of the underground to personnel who perform these activities. Additionally, room-based VOC monitoring activities (required by Permit Part 4, Sections 4.4.3. and 4.6.3., Tables 4.4.1. and 4.6.3.2., and associated requirements in Attachment N) cannot currently be performed due to the inaccessibility of the underground to personnel who perform these activities.

Surface VOC monitoring is being conducted in lieu of underground monitoring during re-entry and recovery operations. Surface monitoring is being performed to determine its feasibility while the facility is in recovery operations and to assure that the Permit environmental performance standards (i.e., carcinogenic and non-carcinogenic risk due to VOC emissions from the disposed waste) for surface-based non-waste workers are met. Samples have been collected twice each week at two locations since February 25, 2014. These samples are 24-hour VOC samples collected on the surface near the Training Building and at the south fence line just behind the Waste Handling Building (WHB). These samples are intended to quantify VOC exposure to a receptor in the Training Building. The samples at the south fence line are intended to quantify background VOC concentrations in the ambient air. In accordance with Paragraph 19 of AO2, the Permittees began monitoring for trichloroethylene as a target analyte on May 12, 2014.

#### Geomechanical Monitoring

The purpose of geomechanical monitoring is to confirm the structural integrity of the underground repository. Geomechanical monitoring data are currently being transmitted electronically via remote equipment located in Rooms 6 and 7 of Panel 7 in accordance with Permit Part 4, Section 4.6.1., associated requirements in Attachment A2-5b(2), and Attachment E, Table E-2. Geomechanical monitoring activities that require the manual reading of underground equipment cannot currently be performed due to the inaccessibility of the underground to personnel who perform these activities. However, visual inspections of the underground areas during recent re-entries have shown that the ground is stable and is in sound condition.

#### Hydrogen and Methane Monitoring

Hydrogen and methane monitoring activities (required by Permit Part 4, Section 4.6.5. and associated requirements in Attachment N1) cannot currently be performed due to the inaccessibility of the underground to personnel who perform these activities.

#### Mine Ventilation Rate Monitoring

Mine ventilation rate monitoring activities (required by Permit Part 4, Section 4.6.4. and associated requirements of Attachment O) are currently being performed. However, due to reduced air flow in the underground because of filtration mode, the ventilation rate set forth by the Permit cannot be maintained. Because the ventilation system has been operating in filtration mode since February 14, 2014, with a flow rate of approximately 60,000 standard cubic feet per minute (SCFM), the Permittees will not be able to maintain the minimum running annual average ventilation flow rate of 260,000 SCFM required by Permit Part 4, Section 4.5.3.2. During this reporting period, the calculated running annual average ventilation flow rate was approximately 267,000 SCFM. It was anticipated that the running average annual flow rate would fall below the Permit-required minimum flow rate of 260,000 SCFM by the end of July 2014.

### **3.0 Actions taken with regard to TRU waste shipments that were en-route since February 5, 2014, as requested per Paragraph 14(b) of AO1:**

Response was provided in the initial March 17, 2014, weekly submittal to the NMED per AO1.

**4.0 Summary of waste shipment information and any other relevant records that document the site of origin, volumes and receipt dates of TRU waste that is currently located at the Facility WHB and Parking Area Unit, as requested per Paragraph 14(c) of AO1, and information specifying the deadlines for each individual waste assembly as it relates to AO1, as requested per Paragraph 14(d) of AO1:**

All waste is currently being stored in the WHB. Since the submittal of the last bi-weekly report, there has been no additional waste placed in storage in the WHB. Attachment 2, *TRU Mixed Waste Currently in Storage at the WIPP Facility*, has been updated to reflect the new storage deadline pursuant to the NMED July 14, 2014, letter granting an additional 60-day storage extension for the CH TRU mixed waste in the WHB.

**5.0 Records of inspection and maintenance of the ventilation and filtration system of the Facility WHB after the February 5, 2014, salt truck engine fire and the radiological event of February 14, 2014, as requested per Paragraph 14(e) of AO1:**

See Attachment 3, *Ventilation Fans Inspection Round Sheets* (best available copies).

**6.0 Location of any environmental monitoring equipment, including the identification of whether they are stationary, mobile, or permanent. This includes, but is not limited to VOC monitoring stations, radiological monitoring stations, meteorological monitoring, surface water monitoring, vegetation sampling. The reports shall include dates of deployment and sampling, and all data that has been produced by these monitoring stations for this reporting period, as requested per Paragraph 14(f) of AO1:**

See Attachment 4, *Environmental Monitoring*, which includes tables with the locations of environmental monitoring equipment (including identification whether they are stationary, mobile, or permanent) and data for this reporting period. Aerial photos and diagrams displaying monitoring locations are included. The following briefly describes the monitoring information that is being provided in Attachment 4.

- VOC monitoring stations – Portable surface monitoring equipment has been deployed since February 25, 2014. Samples are being collected twice each week at two locations, as indicated in Attachment 4. The results of sample analyses are provided in Attachment 4.
- Meteorological monitoring data are being provided in Attachment 4 and on the enclosed compact disc.
- Radiological monitoring
  - Environmental air samples – Stationary low volume air samplers continuously sample air at the locations shown in Attachment 4.
  - Soil samples – Soil samples were obtained on the dates and locations shown in Attachment 4.
  - Surface water samples – Surface water samples were obtained on the dates and at the locations shown in Attachment 4.

- Sediment samples – Sediment samples were obtained on the dates and at the locations shown in Attachment 4.
- Biota (vegetation) samples – Vegetation samples were obtained on the dates and locations shown in Attachment 4.
- Biota (fauna) samples – A biotic sample was obtained on the date shown in Attachment 4.
- Salt samples – Salt samples were obtained on the dates and locations shown in Attachment 4.

**7.0 The status of surface ventilation fans and timeline of operation since January 1, 2014, as requested per Paragraph 14(g) of AO1 and as specified by Paragraph 22 of AO2:**

See Attachment 3, *Ventilation Fans Inspection Round Sheets* (best available copies).

**8.0 Exhaust Filter Building HEPA filter differential pressure data beginning February 14, 2014, as requested per Paragraph 14(h) of AO1:**

See Attachment 5, *Filter Differential Pressures*, and the Excel spreadsheet provided on the enclosed compact disc. The differential pressure values have been rounded to two decimal places to enhance usability.

On July 14, 2014, Zone 4 routine maintenance was performed on Filter Train 41-B-856 DP transmitters and local indicators between 10:15 AM and 14:08 PM. Readings during this time are not valid. On July 27, 2014 at 5:30 PM, while performing scheduled maintenance, local processing units (LPUs) were reconfigured to switch from plant power to portable diesel generators. While the reconfiguration was being accomplished, no data was being transmitted to the CMR on HEPA filtration units. This data transmission outage is represented by zeroes in Attachment 5, *Filter Differential Pressures*.

**9.0 Updates on activities performed pursuant to the Underground Derived Waste Storage Plan, including a description of any surface and underground derived waste produced, whether the derived waste is mixed or non-mixed, the contents, container type, container location, total container count, and approximate volume of derived waste per container, as requested per Paragraph 14(i) of AO1 and Paragraph 18(d) of AO2:**

In accordance with Paragraph 17(b) of AO2, the draft *Underground Derived Waste Storage Plan* was required to be submitted to the NMED by June 26, 2014 for review and comment. Furthermore, the NMED will review and provide comments on any revisions to the *Underground Derived Waste Storage Plan*. However, during this reporting period, no additional derived waste was generated. As recovery efforts progress, any derived waste produced will be reported in Attachment 6, *Surface and Underground Derived Waste Currently in Storage at the WIPP Facility*.

**10.0 The current status of activities required by the RCRA Contingency Plan, Permit Attachment D, including identification of applicable sections of the Contingency Plan, the schedule for actions required under the Contingency Plan, and any deviations from any Contingency Plan requirements, as requested per Paragraph 18(b) of AO2. Non-applicable sections shall also be identified and explanations shall be provided as to why such sections do not apply:**

There has been no change in the status of the RCRA Contingency Plan implementation since the submittal of the last bi-weekly report. Accordingly, Attachment 7, *Status of RCRA Contingency Plan Activities*, is currently reserved.

**11.0 The bi-weekly report shall include the submission of a list containing all additional requirements placed upon the WIPP by any state or federal agency relating to corrective actions or recovery and as a result of the incidents referenced in Paragraphs 8 and 9 of the May 12, 2014 Administrative Order, including requirements by other segments of DOE, as requested by Paragraph 18(f) of AO2:**

During this reporting period, no additional requirements were placed upon the Permittees by any other state or federal agency relating to corrective actions or recovery and as a result of the incidents referenced in Paragraphs 8 and 9 of AO2, including requirements by other segments of the DOE. As additional JONs are identified as a result of the completion of subsequent phases of the AIB radiological release event investigation, they will be provided in Attachment 8, which is currently reserved.

**12.0 The Permittees shall provide a paper copy of the Panel 7, Room 7 waste placement layout map or diagram, as required by Permit Section 4.8.2, as required by Paragraph 18(g) of AO2:**

Attachment 9, *Waste Placement Layout Map*, was provided in the initial bi-weekly report submitted to the NMED on June 13, 2014. There have been no changes to this information since the initial submittal. This attachment is currently reserved.

**13.0 The Permittees shall provide the most recent Weekly Map Update that shows waste disposal and mining activities for Panels 7 and 8, as requested per Paragraph 18(h) of AO2:**

Attachment 10, *Weekly Map Update*, was provided in the initial bi-weekly report submitted to the NMED on June 13, 2014. There have been no changes to this information since the initial submittal. This attachment is currently reserved.

**14.0 The Permittees shall provide documentation of the “as found” condition of Panel 7, including relevant photographs of the waste, as requested per Paragraph 18(i) of AO2:**

Attachment 11, *As-Found Condition of Panel 7*, was provided in the initial bi-weekly report submitted to the NMED on June 13, 2014. There were no re-entries to Panel 7 during this reporting period. Therefore, there have been no changes to information provided in the initial submittal of this report. This attachment is currently reserved.

**15.0 The Permittees shall provide documentation of the “as found” condition of Panel 6 partial closure system, including relevant photographs, as requested per Paragraph 18(j) of AO2:**

Response was provided in the initial bi-weekly report submitted to the NMED on June 13, 2014. There were no re-entries to Panel 6 during this reporting period. Therefore, there have been no changes to information provided in the initial submittal of this report.

**16.0 The Permittees shall provide a status of recovery-related activities relative to the underground per Paragraph 18(e)(ii) of AO2 and a summary of recovery-related work performed in Panel 7, including relevant photographs, as requested per Paragraph 18(k) of AO2:**

On July 18, 2014, an entry was made to the underground to check the Waste Shaft Sump water level and to check some equipment. Communications had been lost with Local Processing Unit (LPU) 807 that transmits indications from ventilation air flow regulator 308; indications were not being received in the Central Monitoring Room (CMR). The breaker at Substation 5 was also checked.

On July 24, 2014, an entry was made to retrieve the equipment used during the July 18, 2014, entry.

On July 25, 2014, an entry was made to reset the controller multiplier card for LPU 807/Regulator 308, which provides communications back to the Central Monitoring Room, and to reset a 480 volt breaker. Both items were successfully completed. Communications with Regulator 308 have been restored. These entries were necessary to support Recovery activities. As the Permittees continue to conduct recovery activities, additional descriptions will be provided in subsequent reports. Relevant photographs will be included in Attachment 12, *Panel 7 Recovery-Related Work* (currently reserved).

**17.0 The Permittees shall provide the status and description of the Waste Handling Building Unit (“WHB”) and the Waste Shaft soot clean-up activities, as requested per Paragraph 18(l) of AO2:**

As a result of the underground vehicle fire event on February 5, 2014, clean-up activities have been required to address the accumulation of soot in the Waste Handling Building and the Waste Hoist Tower.

Clean-up efforts in the following areas have been completed:

- All floors in the WHB, including 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, and 5<sup>th</sup> floors of the Waste Hoist Tower
- Waste Hoist Control Room ventilation system and air intake ventilation ductwork
- Waste Hoist motor cooling duct, cooling coil, and filter housing
- Waste Hoist master control station and power convertor
- Waste Hoist electrical panels

A walk down was conducted on all areas affected by soot accumulation, and each area that has been cleaned was deemed satisfactory. Soot clean-up activities are now complete.

## **Attachment 1**

# **Surface and Underground Inspections**

NMED Bi-Weekly Report for July 14, 2014, through July 27, 2014

System/Equipment Name	Responsible Organization	Inspection Frequency	Procedure Number and Inspection Criteria	Inspection Status (Current/Not Current)	Date of Last Inspection	Proposed Start Date (if Not Current or Equipment Not in Use) <sup>1</sup>	Comments
Air Intake Shaft Hoist	Underground Operations	Preoperational	WP 04-HO1004 Inspecting for Deterioration, Safety Equipment, Communication Systems, and Mechanical Operability in accordance with Mine Safety and Health Administration (MSHA) requirements	Current	7/25/14	N/A	Inspection performed daily before Hoist is declared in service.
Exhaust Shaft	Underground Operations	Quarterly	PM041099 Inspecting for Deterioration and Leaks/Spills	Not Current	12/31/13 (Due 3/31/14)	TBD	Shaft is not accessible due to the fire and radiological events, and inspections cannot be performed.
Salt Handling Shaft Hoist	Underground Operations	Preoperational	WP 04-HO1002 Inspecting for Deterioration, Safety Equipment, Communication Systems, and Mechanical Operability in accordance with MSHA requirements	Current	7/25/14	N/A	Inspection performed daily before Hoist is declared in service.
Self-Rescuers	Underground Operations	Quarterly	WP 04-AU1026 Inspecting for Deterioration and Functionality in accordance with MSHA requirements	Current	6/27/14	N/A	
Underground Openings—Roof Bolts and Travelways	Underground Operations	Weekly	WP 04-AU1007 Inspecting for Deterioration	Not Current	1/29/14	1/31/16	Underground is not accessible due to the fire and radiological events, and inspections cannot be performed. Note that partial underground openings inspections are being performed by re-entry teams, but not the full weekly underground openings inspection.
Waste Hoist	Underground Operations	Preoperational	WP 04-HO1003 Inspecting for Deterioration, Safety Equipment, Communication Systems, and Mechanical Operability, Leaks/Spills, in accordance with MSHA requirements	Current	2/5/14	8/31/14	Hoist is not accessible due to the fire and radiological events, and inspections cannot be performed.

NMED Bi-Weekly Report for July 14, 2014, through July 27, 2014

System/Equipment Name	Responsible Organization	Inspection Frequency	Procedure Number and Inspection Criteria	Inspection Status (Current/ Not Current)	Date of Last Inspection	Proposed Start Date (if Not Current or Equipment Not in Use) <sup>1</sup>	Comments
Explosion-Isolation Walls	Underground Operations	Quarterly	Integrity and Deterioration of Accessible Areas	Not Current	2/3/14 (Panel 1 and Panel 2)  11/4/13 (Panel 5)	1/31/16	Structures are not accessible due to the fire and radiological events, and inspections cannot be performed.
Bulkhead in Filled Panels	Underground Operations	Monthly	Integrity and Deterioration of Accessible Areas	Not Current	N/A	1/31/16	Area is not accessible due to the fire and radiological events, and inspections cannot be performed. Inspection records are located in the underground and are, therefore, not accessible.
MSHA Air Quality Monitor	Maintenance/ Underground Operations	Daily	WP 12-IH1828 Inspecting for Air Quality Monitoring Equipment Functional Check	Current	7/25/14	N/A	
Ambulances (Surface) and related emergency supplies and equipment	Emergency Services	Weekly	12-FP0030 Inspecting for Mechanical Operability, Deterioration, and Required Equipment	Current	7/27/14	N/A	
Ambulances (Underground) and related emergency supplies and equipment	Emergency Services	Weekly	12-FP0030 Inspecting for Mechanical Operability, Deterioration, and Required Equipment	Not Current	2/8/14	1/31/16	Equipment is not accessible due to the fire and radiological events, and inspections cannot be performed.
Fire Detection and Alarm System (Underground)	Emergency Services	Semiannually	12-FP0027 Inspecting for Deterioration, Operability of indicator lights and, underground fuel station dry chemical suppression system. Inspection is per NFPA 17	Not Current	2/8/14	1/31/16	Equipment is not accessible due to the fire and radiological events, and inspections cannot be performed.
Fire Extinguishers (Surface)	Emergency Services	Monthly	12-FP0036 Inspecting for Deterioration, Leaks/Spills, Expiration, seals, fullness, and pressure	Current	6/30/14 (Due 7/31/14)	N/A	

NMED Bi-Weekly Report for July 14, 2014, through July 27, 2014

System/Equipment Name	Responsible Organization	Inspection Frequency	Procedure Number and Inspection Criteria	Inspection Status (Current/Not Current)	Date of Last Inspection	Proposed Start Date (if Not Current or Equipment Not in Use) <sup>1</sup>	Comments
Fire Extinguishers (Underground)	Emergency Services	Monthly	12-FP0036 Inspecting for Deterioration, Leaks/Spills, Expiration, seals, fullness, and pressure	Not Current	2/8/14	1/31/16	Equipment is not accessible due to the fire and radiological events, and inspections cannot be performed.
Fire Hoses	Emergency Services	Annually (minimum)	12-FP0031 Inspecting for Deterioration and Leaks/Spills	Current	3/26/14	N/A	
Fire Hydrants	Emergency Services	Semi-annual/annually	12-FP0034 Inspecting for Deterioration and Leaks/Spills	Current	11/23/13 (Annual) 3/28/14 (Semi-annual)	N/A	
Fire Pumps	Emergency Services	Weekly/annually	WP 12-FP0026 Inspecting for Deterioration, Leaks/Spills, valves, and panel lights	Current	7/21/14	N/A	
Fire Sprinkler Systems	Emergency Services	Monthly/quarterly	WP 12-FP0025 Inspecting for Deterioration, Leaks/Spills, static pressures, and removable strainers	Current	7/21/14, 7/22/14, 7/23/14	N/A	
Fire and Emergency Response Trucks (Seagrave Fire Apparatus, Emergency One Apparatus)	Emergency Services	Weekly	12-FP0033 Inspecting for Mechanical Operability, Deterioration, Leaks/Spills, and Required Equipment	Current	7/25/14	N/A	
Fire and Emergency Response Trucks (Underground Rescue Truck)	Emergency Services	Weekly	12-FP0033 Inspecting for Mechanical Operability, Deterioration, Leaks/Spills, and Required Equipment	Not Current	2/8/14	1/31/16	Equipment is not accessible due to the fire and radiological events, and inspections cannot be performed.
Hazardous Material Response Equipment	Emergency Services	Weekly	12-FP0033 Inspecting for Mechanical Operability, Deterioration, and Required Equipment	Current	7/22/14	N/A	

NMED Bi-Weekly Report for July 14, 2014, through July 27, 2014

System/Equipment Name	Responsible Organization	Inspection Frequency	Procedure Number and Inspection Criteria	Inspection Status (Current/ Not Current)	Date of Last Inspection	Proposed Start Date (if Not Current or Equipment Not in Use) <sup>1</sup>	Comments
Miners First Aid Station	Emergency Services	Quarterly	12-FP0035 Inspecting for Required Equipment	Not Current	2/8/14	1/31/16	Equipment is not accessible due to the fire and radiological events, and inspections cannot be performed.
Personal Protective Equipment (not otherwise contained in emergency vehicles or issued to individuals): —Self-Contained Breathing Apparatus	Emergency Services	Weekly	12-FP0029 Inspecting for Deterioration and Pressure	Current	7/26/14	N/A	
Rescue Truck (Surface)	Emergency Services	Weekly	12-FP0030 and 12-FP0033 Inspecting for Mechanical Operability, Deterioration, Leaks/Spills, and Required Equipment	Current	7/24/14	N/A	
Rescue Truck (Underground)	Emergency Services	Weekly	12-FP0030 and 12-FP0033 Inspecting for Mechanical Operability, Deterioration, Leaks/Spills, and Required Equipment	Not Current	2/8/14	1/31/16	Equipment is not accessible due to the fire and radiological events, and inspections cannot be performed.
Vehicle Siren (Surface Vehicles)	Emergency Services	Weekly	Functional Test included with inspection of the Ambulances, Fire Trucks, and Rescue Trucks	Current	7/24/14, 7/25/14, 7/27/14	N/A	
Vehicle Siren (Underground Vehicles)	Emergency Services	Weekly	Functional Test included with inspection of the Ambulances, Fire Trucks, and Rescue Trucks	Not Current	2/8/14	1/31/16	Equipment is not accessible due to the fire and radiological events, and inspections cannot be performed.
Adjustable Center of Gravity Lift Fixture	Waste Handling	Preoperational	WP 05-WH1410 Inspecting for Mechanical Operability and Deterioration	Current	7/22/14 (41-T-035)	N/A	There are four ACGLFs, but the pre-operational inspection was only performed on the one fixture listed. The other ACGLFs will be inspected prior to use.

NMED Bi-Weekly Report for July 14, 2014, through July 27, 2014

System/Equipment Name	Responsible Organization	Inspection Frequency	Procedure Number and Inspection Criteria	Inspection Status (Current/Not Current)	Date of Last Inspection	Proposed Start Date (if Not Current or Equipment Not in Use) <sup>1</sup>	Comments
Contact-Handled (CH) TRU Underground Transporter	Waste Handling	Preoperational	WP 05-WH1603 Inspecting for Mechanical Operability, Deterioration, and area around transporter clear of obstacles	Current	2/5/14	When waste disposal operations resume	Equipment not in use due to the fire and radiological events. The underground is not accessible, and inspections cannot be performed.
Conveyance Loading Car	Waste Handling	Preoperational	WP 05-1406 Inspecting for Mechanical Operability, Deterioration, path clear of obstacles and guards in the proper place	Current	2/5/14	When waste disposal operations resume	Equipment not in use due to the fire and radiological events. The underground is not accessible, and inspections cannot be performed.
Facility Transfer Vehicle	Waste Handling	Preoperational	WP 05-WH1204 Inspecting for Mechanical Operability, Deterioration, path clear of obstacles, and guards in the proper place	Current	7/22/14 (41-H-020A)	N/A	There are two transfer vehicles, but the pre-operational inspection was only performed on the one fixture listed. The other fixtures will be inspected prior to use.
Forklifts Used for Waste Handling (Electric and Diesel forklifts, Push-Pull Attachment) on Surface	Waste Handling	Preoperational	WP 05-WH1201, WP 05-WH1207, WP 05-WH1401, WP 05-WH1402, WP 05-WH1403, and WP 05-WH1412 Inspecting for Mechanical Operability, Deterioration, and On board fire suppression system	Current	7/15/14 (41-H-012C)  7/22/14(41-H-051) (41-H-013)  7/23/14 (41-H-012D)  7/25-14 (41-H-012E)	N/A	
Forklifts Used for Waste Handling (Electric and Diesel forklifts, Push-Pull Attachment) in Underground	Waste Handling	Preoperational	WP 05-WH1201, WP 05-WH1207, WP 05-WH1401, WP 05-WH1402, WP 05-WH1403, and WP 05-WH1412 Inspecting for Mechanical Operability, Deterioration, and On board fire suppression system	Current	2/5/14	When waste disposal operations resume	Equipment not in use due to the fire and radiological events. The underground is not accessible, and inspections cannot be performed.

NMED Bi-Weekly Report for July 14, 2014, through July 27, 2014

System/Equipment Name	Responsible Organization	Inspection Frequency	Procedure Number and Inspection Criteria	Inspection Status (Current/Not Current)	Date of Last Inspection	Proposed Start Date (if Not Current or Equipment Not in Use) <sup>1</sup>	Comments
Surface TRU Mixed Waste Handling Area	Waste Handling	Preoperational or Weekly	WP 05-WH1101 Inspecting for Deterioration, Leaks/Spills, Required Aisle Space, Posted Warnings, Communication Systems, Container Condition, and Floor coating integrity	Current	7/21/14 (Weekly)  7/27/14 (Daily)	N/A	
TRU Mixed Waste Decontamination Equipment	Waste Handling	Annually	WP 05-WH1101 Inspecting for Required Equipment	Current	12/31/13	N/A	
Underground TRU Mixed Waste Disposal Area	Waste Handling	Preoperational	WP 05-WH1810 Inspecting for Deterioration, Leaks/Spills, mine pager phones, equipment, unobstructed access, signs, debris, and ventilation	Current	2/5/14	When waste disposal operations resume	Equipment not in use due to the fire and radiological events. The underground is not accessible, and inspections cannot be performed.
TDOP Upender	Waste Handling	Preoperational	WP 05-WH1010 Inspecting for Mechanical Operability and Deterioration	Current	10/9/13	When waste disposal operations resume	Equipment not in use due to the fire and radiological events. The underground is not accessible, and inspections cannot be performed.
Waste Handling Cranes	Waste Handling	Preoperational	WP 05-WH1407 Inspecting for Mechanical Operability, Deterioration, and Leaks/Spills	Current	7/23/14 (41-T-151D)	N/A	There are four cranes, but the pre-operational inspection was only performed on the one crane listed. The other cranes will be inspected prior to use.
Push-Pull Attachment (Surface)	Waste Handling	Preoperational	WP 05-WH1401 Inspecting for Damage and Deterioration	Current	7/22/14 (41-T-160A)	N/A	
Push-Pull Attachment (Underground)	Waste Handling	Preoperational	WP 05-WH1401 Inspecting for Damage and Deterioration	Current	2/5/14	When waste disposal operations resume	Equipment not in use due to the fire and radiological events. The underground is not accessible, and inspections cannot be performed.

NMED Bi-Weekly Report for July 14, 2014, through July 27, 2014

System/Equipment Name	Responsible Organization	Inspection Frequency	Procedure Number and Inspection Criteria	Inspection Status (Current/ Not Current)	Date of Last Inspection	Proposed Start Date (if Not Current or Equipment Not in Use) <sup>1</sup>	Comments
Trailer Jockey	Waste Handling	Preoperational	WP 05-WH1405 Inspecting for Mechanical Operability and Deterioration	Current	7/25/14 (41-H-151B)	N/A	There are three Trailer Jockeys, but the pre-operational inspection was only performed on the one listed. The other Trailer Jockeys will be inspected prior to use.
Bolting Robot	Waste Handling	Preoperational	WP 05-WH1203 Mechanical Operability	Current	6/29/12	When waste disposal operations resume	Equipment is currently out of service.
Yard Transfer Vehicle	Waste Handling	Preoperational	WP 05-WH1205 Mechanical Operability, clear of obstacles and Guards in proper place	Current	6/26/14 (41-Z-021B)	N/A	There are two yard transfer vehicles (YTVs), but the pre-operational inspection was only performed on the one YTV listed. The other YTV will be inspected prior to use.
Payload Transfer Station	Waste Handling	Preoperational	WP 05-WH1208 Mechanical Operability, Deterioration, and Guards in proper place	Current	6/26/14 (41-Z-041)	N/A	
Monorail Hoist	Waste Handling	Preoperational	WP 05-WH1202 Mechanical Operability, and leaks/spills	Current	6/26/14 (41-H-027)	N/A	
Bolting Station	Waste Handling	Preoperational	WP 05-WH1203 Mechanical Operability, Deterioration, and Guards in proper place	Current	6/26/14 (41-T-053A) (41-T-054A)	N/A	
Backup Power Supply Diesel Generators	Facility Operations	Monthly	WP 04-ED1301 Inspecting for Mechanical Operability and Leaks/Spills by starting and operating both generators. Results of this inspection are logged in accordance with WP 04-AD3008.	Current	7/26/14 (#1) 7/27/14 (#2)	N/A	
Central Monitoring System (CMS)	Facility Operations	Continuous	Automatic Self-Checking	Current	7/27/14	N/A	

NMED Bi-Weekly Report for July 14, 2014, through July 27, 2014

System/Equipment Name	Responsible Organization	Inspection Frequency	Procedure Number and Inspection Criteria	Inspection Status (Current/ Not Current)	Date of Last Inspection	Proposed Start Date (if Not Current or Equipment Not in Use) <sup>1</sup>	Comments
Mine Pager Phones (between surface and underground)	Facility Operations	Monthly	WP 04-PC3017 Testing of PA and Underground Alarms and Mine Page Phones at essential locations	Not Current	1/30/14	1/31/16	Equipment is not accessible due to the fire and radiological events, and inspections cannot be performed.
Public Address (and Intercom System) on Surface	Facility Operations	Monthly	WP 04-PC3017 Testing of PA and Underground Alarms and Mine Page Phones at essential locations Systems operated in test mode	Current	6/30/14	N/A	
Public Address (and Intercom System) in Underground	Facility Operations	Monthly	WP 04-PC3017 Testing of PA and Underground Alarms and Mine Page Phones at essential locations Systems operated in test mode	Not Current	1/30/14	1/31/16	Equipment is not accessible due to the fire and radiological events, and inspections cannot be performed.
Radio Equipment	Facility Operations	Daily	Radios are operated daily and are repaired upon failure	Current	7/27/14	N/A	
Uninterruptible Power Supply (Central UPS)	Facility Operations	Daily	WP 04-ED1542 Inspecting for Mechanical Operability and Deterioration with no malfunction alarms. Results of this inspection are logged in accordance with WP 04-AD3008.	Current	7/27/14	N/A	
Water Tank Level	Facility Operations	Daily	SDD-WD00 Inspecting for Deterioration, and water levels. Results of this inspection are logged in accordance with WP 04-AD3008.	Current	7/27/14	N/A	
Facility Inspections (Water Diversion Berms)	Facility Engineering	Annually	WP 10-WC3008 Inspecting for Damage, Impediments to water flow, and Deterioration	Current	9/25/13	N/A	

NMED Bi-Weekly Report for July 14, 2014, through July 27, 2014

System/Equipment Name	Responsible Organization	Inspection Frequency	Procedure Number and Inspection Criteria	Inspection Status (Current/Not Current)	Date of Last Inspection	Proposed Start Date (if Not Current or Equipment Not in Use) <sup>1</sup>	Comments
Eye Wash and Shower Equipment (Surface)	Equipment Custodian	Weekly	WP 12-IS1832 Inspecting for Deterioration	Current	7/21/14, 7/22/14, 7/23/14, 7/24/14	N/A	
Eye Wash and Shower Equipment (Underground)	Equipment Custodian	Weekly	WP 12-IS1832 Inspecting for Deterioration	Not Current	N/A	1/31/16	Equipment is not accessible due to the fire and radiological events, and inspections cannot be performed. Inspection records are located in the underground and are, therefore, not accessible.
Perimeter Fence, Gates, Signs	Security	Daily	PF0-010 Inspecting for Deterioration and Posted Warnings	Current	7/27/14	N/A	
Underground—Geomechanical Instrumentation System (GIS)	Geotechnical Engineering	Monthly	WP 07-EU1301 Inspecting for Deterioration	Current	7/22/14	N/A	Complete at accessible areas.
Ventilation Exhaust	Maintenance Operations	Quarterly	IC041098 Check for Deterioration and Calibration of Mine Ventilation Rate Monitoring Equipment	Not Current	41F30703 Fan A (11/9/13) 41F30704 Fan B (5/20/13) 41F30702 Fan C (12/18/13)	1/31/16	Equipment not in use due to the fire and radiological events. The underground is not accessible, and inspections cannot be performed.

<sup>1</sup>Inspection proposed start date of 1/31/16 is an estimate from the WIPP Recovery Plan. Inspections may be initiated prior to 1/31/16 as work zones are released in the underground. Therefore, 1/31/16 is a "placeholder," and proposed start dates may be revised as recovery work progresses.

**Attachment 2**  
**TRU Mixed Waste Currently in Storage**  
**at the WIPP Facility**

NMED Bi-Weekly Report for July 14, 2014, through July 27, 2014

<b>Site of Origin</b>	<b>Shipment</b>	<b>Receipt Date/Time</b>	<b>ICV Closure Date/Time</b>	<b>Venting Deadline</b>	<b>Venting Date</b>	<b>WHB Deadline</b>	<b>Assembly</b>	<b>Unemplaced Contents</b>	<b>Waste Volume<sup>1</sup> (ft<sup>3</sup>)</b>
SRS	SR140003	1/24/2014 12:40	1/16/2014 8:45	3/16/2014 8:45	2/1/2014 8:15	9/12/2014	SR139200	6-55G Drums	44.4
SRS	SR140003	1/24/2014 12:40	1/16/2014 8:45	3/16/2014 8:45	2/1/2014 8:15	9/12/2014	SR139201	7-55G Drums	51.8
SRS	SR140003	1/24/2014 12:40	1/16/2014 8:40	3/16/2014 8:40	2/1/2014 8:32	9/12/2014	SR139206	4-55G Drums	29.6
SRS	SR140003	1/24/2014 12:40	1/16/2014 8:40	3/16/2014 8:40	2/1/2014 8:34	9/12/2014	SR139207	7-55G Drums	51.8
LANL	LA140018	2/1/2014 1:30	1/29/2014 14:25	3/29/2014 14:25	2/1/2014 12:40	9/12/2014	LA139903	1 SWB	66.3
LANL	LA140019	2/1/2014 1:50	1/30/2014 15:20	3/30/2014 15:20	2/1/2014 14:25	9/12/2014	LA139927	1 SWB	66.3
LANL	LA140019	2/1/2014 1:50	1/30/2014 15:20	3/30/2014 15:20	2/1/2014 14:26	9/12/2014	LA139928	1 SWB	66.3
INL	IN140037	2/1/2014 21:11	1/30/2014 14:00	3/30/2014 14:00	2/2/2014 10:17	9/12/2014	IN139806	1 TDOP	160
INL	IN140037	2/1/2014 21:11	1/30/2014 14:03	3/30/2014 14:03	2/2/2014 10:24	9/12/2014	IN139814	1 TDOP	160
SRS	SR314011	1/28/2014 14:10	1/22/2014 8:30	3/22/2014 8:30	2/3/2014 12:14	9/12/2014	SR139781	1 SLB2	261
INL	IN140036	2/1/2014 22:40	1/25/2014 13:35	3/25/2014 13:35	2/3/2014 13:15	9/12/2014	IN139540	1 SWB	66.3
INL	IN140036	2/1/2014 22:40	1/25/2014 13:35	3/25/2014 13:35	2/3/2014 13:15	9/12/2014	IN139541	1 SWB	66.3
INL	IN140041	2/3/2014 7:13	1/31/2014 13:30	3/31/2014 13:30	2/3/2014 14:37	9/12/2014	IN140062	1 SWB	66.3
INL	IN140040	2/3/2014 0:17	1/31/2014 13:21	3/31/2014 13:21	2/4/2014 9:04	9/12/2014	IN140133	1 TDOP	160
INL	IN140041	2/3/2014 7:13	1/31/2014 13:40	3/31/2014 13:40	2/4/2014 9:31	9/12/2014	IN140129	1 TDOP	160
INL	IN140041	2/3/2014 7:13	1/31/2014 13:35	3/31/2014 13:35	2/4/2014 9:37	9/12/2014	IN139266	1 TDOP	160
INL	IN140040	2/3/2014 0:17	1/31/2014 13:13	3/31/2014 13:13	2/4/2014 12:22	9/12/2014	IN139593	1 SWB	66.3
INL	IN140040	2/3/2014 0:17	1/31/2014 13:16	3/31/2014 13:16	2/4/2014 12:55	9/12/2014	IN140144	1 TDOP	160
SRS	SR140004	2/1/2014 15:45	1/23/2014 10:40	3/23/2014 10:40	2/4/2014 13:51	9/12/2014	SR139755	6-55G Drums	44.4
SRS	SR140004	2/1/2014 15:45	1/23/2014 10:40	3/23/2014 10:40	2/4/2014 13:52	9/12/2014	SR139756	7-55G Drums	51.8
LANL	LA140020	2/3/2014 22:34	2/3/2014 10:00	4/3/2014 10:00	2/4/2014 16:38	9/12/2014	LA139983	1 SWB	66.3
LANL	LA140020	2/3/2014 22:34	2/3/2014 10:05	4/3/2014 10:05	2/4/2014 16:44	9/12/2014	LA139972	1 SWB	66.3
SRS	SR140004	2/1/2014 15:45	1/23/2014 10:30	3/23/2014 10:30	2/4/2014 17:50	9/12/2014	SR139767	7-55G Drums	51.8
SRS	SR140004	2/1/2014 15:45	1/23/2014 10:35	3/23/2014 10:35	2/4/2014 17:51	9/12/2014	SR139760	6-55G Drums	44.4
SRS	SR140004	2/1/2014 15:45	1/23/2014 10:30	3/23/2014 10:30	2/4/2014 17:51	9/12/2014	SR139766	4-55G Drums	29.6

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<b>Site of Origin</b>	<b>Shipment</b>	<b>Receipt Date/Time</b>	<b>ICV Closure Date/Time</b>	<b>Venting Deadline</b>	<b>Venting Date</b>	<b>WHB Deadline</b>	<b>Assembly</b>	<b>Unemplaced Contents</b>	<b>Waste Volume<sup>1</sup> (ft<sup>3</sup>)</b>
SRS	SR140004	2/1/2014 15:45	1/23/2014 10:35	3/23/2014 10:35	2/4/2014 17:52	9/12/2014	SR139761	7-55G Drums	51.8
LANL	LA140020	2/3/2014 22:34	2/3/2014 10:15	4/3/2014 10:15	2/5/2014 8:34	9/12/2014	LA139965	1 SWB	66.3
LANL	LA140020	2/3/2014 22:34	2/3/2014 10:15	4/3/2014 10:15	2/5/2014 8:36	9/12/2014	LA139966	1 SWB	66.3
LANL	LA140021	2/4/2014 22:40	2/4/2014 9:35	4/4/2014 9:35	2/5/2014 9:12	9/12/2014	LA139990	1 SWB	66.3
LANL	LA140021	2/4/2014 22:40	2/4/2014 9:35	4/4/2014 9:35	2/5/2014 9:13	9/12/2014	LA139991	1 SWB	66.3
LANL	LA140021	2/4/2014 22:40	2/4/2014 9:25	4/4/2014 9:25	2/5/2014 9:32	9/12/2014	LA140008	1 SWB	66.3
INL	IN140043	2/5/2014 0:30	2/1/2014 11:30	4/1/2014 11:30	2/11/2014 9:12	9/12/2014	IN140096	1 SWB	66.3
INL	IN140043	2/5/2014 0:30	2/1/2014 11:30	4/1/2014 11:30	2/11/2014 9:13	9/12/2014	IN140097	1 SWB	66.3
LANL	LA140021	2/4/2014 22:40	2/4/2014 9:30	4/4/2014 9:30	2/11/2014 9:13	9/12/2014	LA140002	1 SWB	66.3
INL	IN140044	2/6/2014 1:09	2/3/2014 13:55	4/3/2014 13:55	2/11/2014 10:00	9/12/2014	IN139670	1 TDOP	160
INL	IN140044	2/6/2014 1:09	2/3/2014 13:52	4/3/2014 13:52	2/11/2014 10:43	9/12/2014	IN139666	1 TDOP	160
INL	IN140045	2/6/2014 1:27	2/3/2014 13:44	4/3/2014 13:44	2/11/2014 11:00	9/12/2014	IN140205	1 TDOP	160
INL	IN140045	2/6/2014 1:27	2/3/2014 13:40	4/3/2014 13:40	2/11/2014 11:02	9/12/2014	IN139923	1 TDOP	160
SRS	SR314012	1/31/2014 16:10	1/27/2014 10:48	3/27/2014 10:48	3/26/2014 9:33	9/12/2014	SR139785	1 SLB2	261
SRS	SR140005	2/5/2014 13:00	1/31/2014 12:34	3/31/2014 12:34	3/26/2014 13:19	9/12/2014	SR139977	5-55G Drums	37
SRS	SR140005	2/5/2014 13:00	1/31/2014 12:34	3/31/2014 12:34	3/26/2014 13:20	9/12/2014	SR139978	7-55G Drums	51.8
SRS	SR140005	2/5/2014 13:00	1/31/2014 12:29	3/31/2014 12:29	3/26/2014 17:04	9/12/2014	SR139996	5-55G Drums	37
SRS	SR140005	2/5/2014 13:00	1/31/2014 12:29	3/31/2014 12:29	3/26/2014 17:05	9/12/2014	SR139997	7-55G Drums	51.8
SRS	SR314013	2/1/2014 15:15	1/28/2014 10:40	3/28/2014 10:40	3/26/2014 18:30	9/12/2014	SR139789	1 SLB2	261
SRS	SR140005	2/5/2014 13:00	1/31/2014 12:23	3/31/2014 12:23	3/26/2014 18:40	9/12/2014	SR140015	5-55G Drums	37
SRS	SR140005	2/5/2014 13:00	1/31/2014 12:23	3/31/2014 12:23	3/26/2014 18:43	9/12/2014	SR140016	7-55G Drums	51.8
INL	IN140044	2/6/2014 1:09	2/3/2014 13:49	4/3/2014 13:49	3/27/2014 10:31	9/12/2014	IN136332	7-55G Drums	51.8
INL	IN140043	2/5/2014 0:30	2/1/2014 11:35	4/1/2014 11:35	3/27/2014 12:48	9/12/2014	IN140078	1 SWB	66.3
INL	IN140043	2/5/2014 0:30	2/1/2014 11:35	4/1/2014 11:35	3/27/2014 12:50	9/12/2014	IN140079	1 SWB	66.3
SRS	SR314014	2/4/2014 13:15	1/30/2014 10:30	3/30/2014 10:30	3/27/2014 14:04	9/12/2014	SR139793	1 SLB2	261

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<b>Site of Origin</b>	<b>Shipment</b>	<b>Receipt Date/Time</b>	<b>ICV Closure Date/Time</b>	<b>Venting Deadline</b>	<b>Venting Date</b>	<b>WHB Deadline</b>	<b>Assembly</b>	<b>Unemplaced Contents</b>	<b>Waste Volume<sup>1</sup> (ft<sup>3</sup>)</b>
INL	IN140043	2/5/2014 0:30	2/1/2014 11:40	4/1/2014 11:40	3/27/2014 14:51	9/12/2014	IN140074	1 SWB	66.3
INL	IN140042	2/5/2014 0:34	2/1/2014 11:50	4/1/2014 11:50	3/27/2014 15:34	9/12/2014	IN140090	1 SWB	66.3
INL	IN140042	2/5/2014 0:34	2/1/2014 11:50	4/1/2014 11:50	3/27/2014 15:37	9/12/2014	IN140091	1 SWB	66.3
INL	IN140042	2/5/2014 0:34	2/1/2014 11:45	4/1/2014 11:45	3/27/2014 18:08	9/12/2014	IN140070	1 SWB	66.3
INL	IN140042	2/5/2014 0:34	2/1/2014 11:55	4/1/2014 11:55	3/27/2014 18:30	9/12/2014	IN140084	1 SWB	66.3
INL	IN140042	2/5/2014 0:34	2/1/2014 11:55	4/1/2014 11:55	3/27/2014 18:36	9/12/2014	IN140085	1 SWB	66.3
INL	IN140045	2/6/2014 1:27	2/3/2014 13:48	4/3/2014 13:48	3/27/2014 19:24	9/12/2014	IN140066	1 SWB	66.3
WIPP <sup>2</sup>	--	6/13/2014	--	--	--	9/12/2014	WISD002 <sup>3</sup>	1 SWB	66.3
WIPP <sup>2</sup>	--	6/13/2014	--	--	--	9/12/2014	WISD003 <sup>3</sup>	1 SWB	66.3
WIPP <sup>2</sup>	--	6/13/2014	--	--	--	9/12/2014	WISD004 <sup>3</sup>	1 SWB	66.3
WIPP <sup>2</sup>	--	6/13/2014	--	--	--	9/12/2014	WISD005 <sup>3</sup>	1 SWB	66.3
WIPP <sup>2</sup>	--	6/21/2014	--	--	--	9/12/2014	WISD006 <sup>3</sup>	1 SWB	66.3
WIPP <sup>2</sup>	--	6/21/2014	--	--	--	9/12/2014	WISD007 <sup>3</sup>	1 SWB	66.3
WIPP <sup>2</sup>	--	6/24/2014	--	--	--	9/12/2014	WISD008 <sup>3</sup>	1 SWB	66.3
WIPP <sup>2</sup>	--	6/24/2014	--	--	--	9/12/2014	WISD009 <sup>3</sup>	1 SWB	66.3
WIPP <sup>2</sup>	--	6/24/2014	--	--	--	9/12/2014	WISD010 <sup>3</sup>	1 SWB	66.3
WIPP <sup>2</sup>	--	6/24/2014	--	--	--	9/12/2014	WISD011 <sup>3</sup>	1 SWB	66.3
--	--	--	--	--	--	--	--	154 Containers	5,800.4 ft <sup>3</sup>

<sup>1</sup>55G Drum=7.4 ft<sup>3</sup>, SWB=66.3 ft<sup>3</sup>, TDOP=160 ft<sup>3</sup>, 85G Drum=11.4 ft<sup>3</sup>, 100G Drum=13.4 ft<sup>3</sup>, SLB2=261 ft<sup>3</sup> (Permit Part 3, Section 3.3.1)

<sup>2</sup>Waste generated at the WIPP facility as a result of decontamination activities and characterized as derived waste (Permit Part 2, Section 2.3.5)

<sup>3</sup>Derived-waste container number

INL – Idaho National Laboratory

LANL – Los Alamos National Laboratory

SRS – Savannah River Site

SWB – standard waste box

SLB – standard large box

TDOP – ten-drum overpack

WHB – Waste Handling Building

## **Attachment 3**

# **Ventilation Fans Inspection Round Sheets**

**Round Sheet Legend**

<b>Circled Numbers ②</b>	<b>Note numbers on the Comment Section of the Round Sheet</b>
AR	Action Request
EFB	Exhaust Filter Building
I/S	In Service
MBP	Maintenance Bypass
Sec	Secured
STBY	Standby
Tag	Tagged Out
DP	Differential Pressure
"wc	Inches Water Column

## NMED Bi-Weekly Report for July 14, 2014, through July 27, 2014

## Facility Site Operations and Infrastructure Ventilation Fans Round Sheet

DATE: 7-14-14 - 7-20-14

Location: 413, EXHAUST FILTER BLDG. UVFS FANS	DAY		SUN	MON	TUES	WED	THURS	FRI	SAT	SUN	
	SHIFT		2	1	2	1	2	1	2	1	
	REVIEWER										
	FOT		C/O								
ITEM	MIN	NORM	MAX								
413-CP-056-01											
CONTROL PANEL 860 FANS [A]		SAT [B]		(1)	(1)	(0)	(1)	(0)	(1)	(1)	
413-CP-307-01B				(2)	(2)	(2)	(2)	(0)	(2)	(2)	
CONTROL PANEL 700 FANS [A]		SAT [B]									
35P-PBJ/1 @ Bldg. 365											
860A U/G FILTRATION FAN (KSCFM)	[D]	[C]	[D]	Tag	Tag	Tag	Tag	Tag	Tag	Tag	
35P-PBJ/1 @ Bldg. 365											
860B U/G FILTRATION FAN (KSCFM)	[D]	[C]	[D]	SEC	sec	sec	sec	sec	sec	sec	
35P-PBJ/1 @ Bldg. 365											
860C U/G FILTRATION FAN (KSCFM)	[D]	[C]	[D]	62.78	62.3	62.02	61.55	61.7	62.2	62.7	
413-CP-307-01J											
700A U/G VENTILATION FAN (KSCFM)	[D]	[D]	[D]	Tag	Tag	Tag	Tag	Tag	Tag	Tag	
413-CP-307-01K											
700B U/G VENTILATION FAN (KSCFM)	[D]	[D]	[D]	Tag	Tag	Tag	Tag	Tag	Tag	Tag	
413-CP-307-01H											
700C U/G VENTILATION FAN (KSCFM)	[D]	[D]	[D]	Tag	Tag	Tag	Tag	Tag	Tag	Tag	
NOTES: [A] - CHECK THAT THE AUDIBLE ALARM SOUNDS AND THE ALARM LIGHTS ILLUMINATE. [B] - IF NORMAL CONDITIONS EXIST, ENTER A CHECK MARK; OTHERWISE NOTE EXISTING CONDITION. [C] - FLOW READINGS TAKEN AT STA. B, (NOTE: EFB HVAC FLOW INCLUDED IN STA. B READING). [D] - VENTILATION MODES (chart below)											
NORMAL MODE (flow per fan I/S) -			MIN = 202	NORM = 212	MAX = 223	MBP MODE w/ 1-860/1-700 FANS (combined flow of all fans I/S) -			MIN = 200	MAX = 275	
ALTERNATE MODE (flow per fan I/S) -			MIN = 247	NORM = 260	MAX = 273	MBP MODE w/ 1-860/2-700 FANS (combined flow of all fans I/S) -			MIN = 395	MAX = 425	
MINIMUM MODE (flow per fan I/S) -			MIN = 57	NORM = 60	MAX = 63	MBP MODE w/ 2-860/1-700 FANS (combined flow of all fans I/S) -			MIN = 200	MAX = 275	
REDUCED MODE (flow per fan I/S) -			MIN = 57	NORM = 60	MAX = 63	MBP MODE w/ 2-860/2-700 FANS (combined flow of all fans I/S) -			MIN = 395	MAX = 425	
FILTRATION MODE (flow per fan I/S) -			MIN = 57	NORM = 60	MAX = 63						
COMMENTS: (1) AR 1404607 low flow alarm (2) AR 1307584 ALARM OOS											
APPROVED FOR USE/DATE: Original Signature on File											

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## NMED Bi-Weekly Report for July 14, 2014, through July 27, 2014

Facility Site Operations and Infrastructure Ventilation Fans Round Sheet

DATE: 07/21/14 - ס'ב'ת'ה

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## Facility Site Operations and Infrastructure WHB CH Room D/P / HVAC / Air Dryer Round Sheet

Date: 7-14-14 - 7-20-14

Location:  COMPUTER STATIONS CMR, FSM DESK, LOCAL 411, WHB MECH EQUIP RM 200 & 208	DAY		SUN	MON	TUES	WED	THURS	FRI	SAT	SUN	
	SHIFT		2	1	2	1	2	1	2	1	
	REVIEWER										
	FOT		C/O								
ITEM	MIN	NORM	MAX								
WHB CH ROOM DPs											
SHIELDED STORAGE RM PDD-026A "wc				-14	-13	-13	-10	-12	-13	-13	-12
CH AREA ROOM 103 PDD-026B "wc	-0.02			-10	-11	-11	-08	-1	-10	-10	-10
SITE GEN WASTE RM. PDD-026C "wc				.01	-03	-04	-08	-02	-03	-01	-03
EQUIP DECON RM. PDD-026D "wc				-13	-13	-12	-14	-15	-16	-08	-14
OVERPACK & REPAIR RM PDD-026E "wc	-0.04			-11	-13	-14	-13	-13	-15	-12	-14
CAGE LOADING ROOM PDD-006 "wc				104	.06	.05	.04	.06	.06	.05	.07
AIRLOCK ROOM 107 PDD-007 "wc				-10	-09	-07	-07	-08	-07	-08	-08
HVAC CONTROL PANEL CHECKS											
411-CP-052-15 (835/836 EXH FANS)		SAT [A]		✓	✓	✓	✓	✓	✓	✓	✓
411-CP-063-16 (861/863 AHUS)		SAT [A]		✓	✓	✓	✓	✓	✓	✓	✓
411-CP-052-14 (813/817 CH TRAIN)		SAT [A]		✓	✓	✓	✓	✓	✓	✓	✓
411-CP-052-13 (812/816 CH TRAIN)		SAT [A]		✓	✓	✓	✓	✓	✓	✓	✓
WASTE HANDLING BUILDING AIR DRYER											
K-015 OUTLET (PSI)	95		135	116	116	120	119	122	130	118	118
K-015 AQUADEX INDICATOR		BLUE [A]		①	①	①	②	①	①	①	①
K-015 AUTO BLOWDOWNS /TEST		SAT [A]		✓	✓	✓	✓	/	/	/	/
K-015 DRYER MODE		AMLOC [A]		✓	✓	✓	✓	✓	✓	✓	✓
NOTES: [A] - IF NORMAL CONDITIONS EXIST, ENTER A CHECK MARK; OTHERWISE NOTE EXISTING CONDITION.											
COMMENTS: ① AR 1405709 Pink											
APPROVED FOR USE/DATE: Original Signature on File											

NMED Bi-Weekly Report for July 14, 2014, through July 27, 2014

Facility Site Operations and Infrastructure WHB CH Room D/P / HVAC / Air Dryer Round Sheet

Date: 07/21/14 - 07/27/14

Location:  COMPUTER STATIONS  CMR, FSM DESK, LOCAL  411, WHB MECH EQUIP RM 200 & 208	DAY		SUN	MON	TUES	WED	THURS	FRI	SAT	SUN	
	SHIFT	2	1	2	1	2	1	2	1	2	
	REVIEWER										
	FOT	C/O									
ITEM	MIN	NORM	MAX	Original Signatures on File							
WHB CH ROOM DPs											
SHIELDED STORAGE RM PDD-026A "wc				-12	-0.19	.13	-13	.14	-13	.13	.11
CH AREA ROOM 103 PDD-026B "wc	-0.02			-10	-0.11	.11	-11	.11	-11	.11	.10
SITE GEN WASTE RM. PDD-026C "wc				-08	-0.04	.04	-0.03	.03	.03	.03	.02
EQUIP DECON RM. PDD-026D "wc				-14	-0.15	.14	-15	.15	.15	.15	.13
OVERPACK & REPAIR RM PDD-026E "wc	-0.04			-14	-0.12	.14	-13	.13	.14	.14	.12
CAGE LOADING ROOM PDD-006 "wc				.07	0.09	.08	0	0.09	.08	.08	.08
AIRLOCK ROOM 107 PDD-007 "wc				.08	-0.08	.07	-0.08	.08	.09	.08	.08
HVAC CONTROL PANEL CHECKS											
411-CP-052-15 (835/835 EXH FANS)		SAT [A]		✓	/	/	✓	/	✓	/	✓
411-CP-063-16 (861/863 AHUS)		SAT [A]		✓	/	/	✓	/	✓	/	✓
411-CP-052-14 (813/817 CH TRAIN)		SAT [A]		✓	/	/	✓	/	✓	/	✓
411-CP-052-13 (812/816 CH TRAIN)		SAT [A]		✓	/	/	✓	/	✓	/	✓
WASTE HANDLING BUILDING AIR DRYER											
K-015 OUTLET (PSI)	95		135	117	116	115	116	115	116	116	118
K-015 AQUADEX INDICATOR		BLUE [A]		①	①	①	①	①	①	①	①
K-015 AUTO BLOWDOWNS /TEST		SAT [A]		✓	✓	✓	✓	✓	✓	✓	✓
K-015 DRYER MODE		AMLOC [A]		✓	✓	✓	✓	✓	✓	✓	✓
NOTES: [A] - IF NORMAL CONDITIONS EXIST, ENTER A CHECK MARK; OTHERWISE NOTE EXISTING CONDITION.											
COMMENTS: ① Indicator Pink - AR 105709											
								APPROVED FOR USE/DATE:	Original Signature on File		

## Facility Site Operations and Infrastructure RH Room D/P and HVAC Panel Round Sheet

Date: 7-14-14 - 7-20-14

Location:		DAY		SUN	MON	TUES	WED	THURS	FRI	SAT	SUN					
COMPUTER STATIONS		SHIFT		2	1	2	1	2	1	2	1					
CMR, FSM DESK, LOCAL		REVIEWER														
411, WHB MECH EQUIP RM 200 & 208		FOT		C/O	Original Signatures on File											
ITEM		MIN	NORM	MAX												
RH ROOM DPs																
OPERATING GALLERY	PDD-01	"wc			1	1	1	1	1	1	1	1	1			
MANIP, REPAIR RM.	PDD-21A	"wc														
FILTER GALLERY	PDD-21B	"wc														
CASK LOADING RM.	PDD-21C	"wc														
CASK TRANSFER CELL	PDD-21D	"wc														
WASTE HOIST OPER RM	PDD-21G	"wc														
SERVICE ROOM	PDD-21H	"wc	-0.00	-0.15												
RH BAY	PDD-21F	"wc	0.02	0.7												
HOT CELL	PDT-52	"wc	-0.04	-1.1	✓	✓	✓	✓	✓	✓	✓	✓	✓			
HVAC CONTROL PANEL CHECKS																
411-CP-051-10	(803/805 AHU/EXH FANS)		SAT [A]		✓	✓	✓	✓	✓	✓	✓	✓	✓			
411-CP-051-11	(804/806 AHU/EXH FANS)		SAT [A]		✓	✓	✓	✓	✓	✓	✓	✓	✓			
411-CP-051-12	(878 A/B EXH FANS)		SAT [A]		✓	✓	✓	✓	✓	✓	✓	✓	✓			
411-CP-058-17	(807 AHU FAN)		SAT [A]		✓	✓	✓	✓	✓	✓	✓	✓	✓			
NOTES: [A] - IF NORMAL CONDITIONS EXIST, ENTER A CHECK MARK; OTHERWISE NOTE EXISTING CONDITION.																
COMMENTS: <i>① RH Bay HVAC Secured</i>																
												APPROVED FOR USE/DATE: Original Signatures on File				

NMED Bi-Weekly Report for July 14, 2014, through July 27, 2014

Facility Site Operations and Infrastructure RH Room D/P and HVAC Panel Round Sheet

Date: 072114 - 072714

Location:			DAY		SUN	MON	TUES	WED	THURS	FRI	SAT	SUN	
COMPUTER STATIONS			SHIFT		2	1	2	1	2	1	2	1	
CMR, FSM DESK, LOCAL			REVIEWER										
411, WHB MECH EQUIP RM 200 & 208			FOT		C/O								
ITEM	MIN	NORM	MAX										
RH ROOM DPs													
OPERATING GALLERY	PDD-01	"wc											
MANIP. REPAIR RM.	PDD-21A	"wc											
FILTER GALLERY	PDD-21B	"wc											
CASK LOADING RM.	PDD-21C	"wc											
CASK TRANSFER CELL	PDD-21D	"wc											
WASTE HOIST OPER RM	PDD-21G	"wc											
SERVICE ROOM	PDD-21H	"wc	-0.00		-0.15								
RH BAY	PDD-21F	"wc	0.02		0.7								
HOT CELL	PDT-52	"wc	-0.04		-1.1								
HVAC CONTROL PANEL CHECKS													
411-CP-051-10 (803/805 AHU/EXH FANS)		SAT [A]											
411-CP-051-11 (804/806 AHU/EXH FANS)		SAT [A]											
411-CP-051-12 (878 A/B EXH FANS)		SAT [A]											
411-CP-058-17 (807 AHU FAN)		SAT [A]											
NOTES: [A] - IF NORMAL CONDITIONS EXIST, ENTER A CHECK MARK; OTHERWISE NOTE EXISTING CONDITION.													
COMMENTS: ① RH HVAC SECURED													
APPROVED FOR USE/DATE: Original Signature on File													

## **Attachment 4**

# **Environmental Monitoring**

- VOC Monitoring Meteorological Monitoring
- Meteorological Monitoring
- Radiological Monitoring
  - Environmental Air Sampling
  - Soil Sampling
  - Surface Water Sampling
  - Sediment Sampling
  - Biota (Vegetation) Sampling
  - Biota (Fauna) Sampling
  - Salt Sampling



VOC Sampling Locations

**Validated VOC Monitoring Data – Surface Sampling at the WIPP**

analytical services by Carlsbad Environmental Monitoring &amp; Research Center (CEMRC)

<b>Lab</b>	<b>Sample Date</b>	<b>Analysis Date</b>	<b>Sample ID</b>	<b>Location</b>	<b>Compound</b>	<b>CAS</b>	<b>MRL (ppbv)*</b>	<b>Concentration (ppbv)</b>
CEMRC	6/18/2014	6/25/2014	9006	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	6/18/2014	6/25/2014	9006	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.1 J
CEMRC	6/18/2014	6/25/2014	9006	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	6/18/2014	6/25/2014	9006	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	6/18/2014	6/25/2014	9006	Training Building	Toluene	108-88-3	0.4	0.14 J
CEMRC	6/18/2014	6/25/2014	9006	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	6/18/2014	6/25/2014	9006	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	6/18/2014	6/25/2014	9006	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	6/18/2014	6/25/2014	9006	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	6/18/2014	6/25/2014	9006	Training Building	Trichloroethylene (1)	79-01-6	0.4	0.12 J
CEMRC	6/18/2014	6/25/2014	9006	Training Building	Acetone	67-64-1		1.36 NJ
CEMRC	6/18/2014	6/25/2014	9006	Training Building	Butane	106-97-8		1.36 NJ
CEMRC	6/18/2014	6/25/2014	9006	Training Building	Isobutane	75-28-5		0.98 NJ
CEMRC	6/18/2014	6/25/2014	9006	Training Building	Nonanal	124-19-6		0.92 NJ
CEMRC	6/18/2014	6/25/2014	9006	Training Building	Pentane	109-66-0		0.66 NJ
CEMRC	6/18/2014	6/25/2014	9007	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	6/18/2014	6/25/2014	9007	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.1 J
CEMRC	6/18/2014	6/25/2014	9007	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	6/18/2014	6/25/2014	9007	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	6/18/2014	6/25/2014	9007	Training Building	Toluene	108-88-3	0.4	0.22 J
CEMRC	6/18/2014	6/25/2014	9007	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	6/18/2014	6/25/2014	9007	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	6/18/2014	6/25/2014	9007	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U

**Qualifiers:**

J = Estimated value; below laboratory's method reporting limit (MRL), but above method detection limit (MDL).

U = Compound not detected above the MDL.

NJ = Presumptive evidence of the presence of the compound at an estimated quantity; only used for tentatively identified compounds (TICs).

**Notes:**

(1) Starting with samples collected on or after May 12, 2014, trichloroethylene (TCE) is a target analyte in compliance with Administrative Order dated 5/12/2014. For samples collected before 5/12/2014, TCE is an additional requested analyte; not a Permit-prescribed target analyte but included in the laboratory quantitative analysis.

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\* A value will not appear in the MRL column for TICs.

**Validated VOC Monitoring Data – Surface Sampling at the WIPP**

analytical services by Carlsbad Environmental Monitoring &amp; Research Center (CEMRC)

<b>Lab</b>	<b>Sample Date</b>	<b>Analysis Date</b>	<b>Sample ID</b>	<b>Location</b>	<b>Compound</b>	<b>CAS</b>	<b>MRL (ppbv)*</b>	<b>Concentration (ppbv)</b>
CEMRC	6/18/2014	6/25/2014	9007	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	6/18/2014	6/25/2014	9007	Training Building	Trichloroethylene (1)	79-01-6	0.4	U
CEMRC	6/18/2014	6/25/2014	9007	Training Building	Acetone	67-64-1		1.74 NJ
CEMRC	6/18/2014	6/25/2014	9007	Training Building	Butane	106-97-8		1.38 NJ
CEMRC	6/18/2014	6/25/2014	9007	Training Building	Hexanal	66-25-1		0.46 NJ
CEMRC	6/18/2014	6/25/2014	9007	Training Building	Isobutane	75-28-5		1.16 NJ
CEMRC	6/18/2014	6/25/2014	9007	Training Building	Nonanal	124-19-6		1.64 NJ
CEMRC	6/18/2014	6/25/2014	9007	Training Building	Octanal	124-13-0		0.98 NJ
CEMRC	6/18/2014	6/25/2014	9007	Training Building	Pentane	109-66-0		0.68 NJ
CEMRC	6/18/2014	6/25/2014	9008	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	6/18/2014	6/25/2014	9008	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	0.1 J
CEMRC	6/18/2014	6/25/2014	9008	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	6/18/2014	6/25/2014	9008	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	6/18/2014	6/25/2014	9008	Southeast Fenceline	Toluene	108-88-3	0.4	0.12 J
CEMRC	6/18/2014	6/25/2014	9008	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	6/18/2014	6/25/2014	9008	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	6/18/2014	6/25/2014	9008	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	6/18/2014	6/25/2014	9008	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	6/18/2014	6/25/2014	9008	Southeast Fenceline	Trichloroethylene (1)	79-01-6	0.4	U
CEMRC	6/18/2014	6/25/2014	9008	Southeast Fenceline	Butane	106-97-8		1.38 NJ
CEMRC	6/18/2014	6/25/2014	9008	Southeast Fenceline	Cyclotetrasiloxane, octamethyl-	556-67-2		0.5 NJ
CEMRC	6/18/2014	6/25/2014	9008	Southeast Fenceline	Isobutane	75-28-5		0.9 NJ
CEMRC	6/18/2014	6/25/2014	9008	Southeast Fenceline	Pentane	109-66-0		0.66 NJ

**Qualifiers:**

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U = Compound not detected above the MDL.

NJ = Presumptive evidence of the presence of the compound at an estimated quantity; only used for tentatively identified compounds (TICs).

**Notes:**

(1) Starting with samples collected on or after May 12, 2014, trichloroethylene (TCE) is a target analyte in compliance with Administrative Order dated 5/12/2014. For samples collected before 5/12/2014, TCE is an additional requested analyte; not a Permit-prescribed target analyte but included in the laboratory quantitative analysis.

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\* A value will not appear in the MRL column for TICs.

**Validated VOC Monitoring Data – Surface Sampling at the WIPP**

analytical services by Carlsbad Environmental Monitoring &amp; Research Center (CEMRC)

<b>Lab</b>	<b>Sample Date</b>	<b>Analysis Date</b>	<b>Sample ID</b>	<b>Location</b>	<b>Compound</b>	<b>CAS</b>	<b>MRL (ppbv)*</b>	<b>Concentration (ppbv)</b>
CEMRC	6/18/2014	6/25/2014	9009	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	6/18/2014	6/25/2014	9009	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	U
CEMRC	6/18/2014	6/25/2014	9009	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	6/18/2014	6/25/2014	9009	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	6/18/2014	6/25/2014	9009	Southeast Fenceline	Toluene	108-88-3	0.4	0.2 J
CEMRC	6/18/2014	6/25/2014	9009	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	6/18/2014	6/25/2014	9009	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	6/18/2014	6/25/2014	9009	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	6/18/2014	6/25/2014	9009	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	6/18/2014	6/25/2014	9009	Southeast Fenceline	Trichloroethylene (1)	79-01-6	0.4	U
CEMRC	6/18/2014	6/25/2014	9009	Southeast Fenceline	Butane	106-97-8		1.34 NJ
CEMRC	6/18/2014	6/25/2014	9009	Southeast Fenceline	Isobutane	75-28-5		0.98 NJ
CEMRC	6/18/2014	6/25/2014	9009	Southeast Fenceline	Nonanal	124-19-6		0.66 NJ
CEMRC	6/18/2014	6/25/2014	9009	Southeast Fenceline	Pentane	109-66-0		0.64 NJ
CEMRC	6/19/2014	6/25/2014	9010	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	6/19/2014	6/25/2014	9010	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.1 J
CEMRC	6/19/2014	6/25/2014	9010	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	6/19/2014	6/25/2014	9010	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	6/19/2014	6/25/2014	9010	Training Building	Toluene	108-88-3	0.4	0.3 J
CEMRC	6/19/2014	6/25/2014	9010	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	6/19/2014	6/25/2014	9010	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	6/19/2014	6/25/2014	9010	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	6/19/2014	6/25/2014	9010	Training Building	1,2-Dichloroethane	107-06-2	0.4	U

**Qualifiers:**

J = Estimated value; below laboratory's method reporting limit (MRL), but above method detection limit (MDL).

U = Compound not detected above the MDL.

NJ = Presumptive evidence of the presence of the compound at an estimated quantity; only used for tentatively identified compounds (TICs).

**Notes:**

(1) Starting with samples collected on or after May 12, 2014, trichloroethylene (TCE) is a target analyte in compliance with Administrative Order dated 5/12/2014. For samples collected before 5/12/2014, TCE is an additional requested analyte; not a Permit-prescribed target analyte but included in the laboratory quantitative analysis.

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\* A value will not appear in the MRL column for TICs.

**Validated VOC Monitoring Data – Surface Sampling at the WIPP**

analytical services by Carlsbad Environmental Monitoring &amp; Research Center (CEMRC)

<b>Lab</b>	<b>Sample Date</b>	<b>Analysis Date</b>	<b>Sample ID</b>	<b>Location</b>	<b>Compound</b>	<b>CAS</b>	<b>MRL (ppbv)*</b>	<b>Concentration (ppbv)</b>
CEMRC	6/19/2014	6/25/2014	9010	Training Building	Trichloroethylene (1)	79-01-6	0.4	U
CEMRC	6/19/2014	6/25/2014	9010	Training Building	Acetophenone	98-86-2		0.48 NJ
CEMRC	6/19/2014	6/25/2014	9010	Training Building	Butane	106-97-8		1.3 NJ
CEMRC	6/19/2014	6/25/2014	9010	Training Building	Cyclotetrasiloxane, octamethyl-	556-67-2		1.12 NJ
CEMRC	6/19/2014	6/25/2014	9010	Training Building	Cyclotrisiloxane, hexamethyl-	541-05-9		1.58 NJ
CEMRC	6/19/2014	6/25/2014	9010	Training Building	Isobutane	75-28-5		1.16 NJ
CEMRC	6/19/2014	6/25/2014	9010	Training Building	Nonanal	124-19-6		1.76 NJ
CEMRC	6/19/2014	6/25/2014	9010	Training Building	Octanal	124-13-0		0.98 NJ
CEMRC	6/19/2014	6/25/2014	9010	Training Building	Pentane	109-66-0		0.76 NJ
CEMRC	6/19/2014	6/25/2014	9010	Training Building	Silanol, trimethyl-	1066-40-6		0.46 NJ
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	U
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	Toluene	108-88-3	0.4	0.22 J
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	Trichloroethylene (1)	79-01-6	0.4	U
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	Acetone	67-64-1		1.24 NJ
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	Acetophenone	98-86-2		0.48 NJ
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	Butane	106-97-8		1.36 NJ

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U = Compound not detected above the MDL.

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**Notes:**

(1) Starting with samples collected on or after May 12, 2014, trichloroethylene (TCE) is a target analyte in compliance with Administrative Order dated 5/12/2014. For samples collected before 5/12/2014, TCE is an additional requested analyte; not a Permit-prescribed target analyte but included in the laboratory quantitative analysis.

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\* A value will not appear in the MRL column for TICs.

**Validated VOC Monitoring Data – Surface Sampling at the WIPP**

analytical services by Carlsbad Environmental Monitoring &amp; Research Center (CEMRC)

<b>Lab</b>	<b>Sample Date</b>	<b>Analysis Date</b>	<b>Sample ID</b>	<b>Location</b>	<b>Compound</b>	<b>CAS</b>	<b>MRL (ppbv)*</b>	<b>Concentration (ppbv)</b>
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	Cyclotetrasiloxane, octamethyl-	556-67-2		1.72 NJ
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	Cyclotrisiloxane, hexamethyl-	541-05-9		2.12 NJ
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	Isobutane	75-28-5		1.08 NJ
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	Nonanal	124-19-6		1.32 NJ
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	Octanal	124-13-0		0.62 NJ
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	Pentane	109-66-0		0.68 NJ
CEMRC	6/25/2014	7/2/2014	9012	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	6/25/2014	7/2/2014	9012	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.1 J
CEMRC	6/25/2014	7/2/2014	9012	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	6/25/2014	7/2/2014	9012	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	6/25/2014	7/2/2014	9012	Training Building	Toluene	108-88-3	0.4	0.14 J
CEMRC	6/25/2014	7/2/2014	9012	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	6/25/2014	7/2/2014	9012	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	6/25/2014	7/2/2014	9012	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	6/25/2014	7/2/2014	9012	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	6/25/2014	7/2/2014	9012	Training Building	Trichloroethylene (1)	79-01-6	0.4	U
CEMRC	6/25/2014	7/2/2014	9012	Training Building	Acetone	67-64-1		0.62 NJ
CEMRC	6/25/2014	7/2/2014	9012	Training Building	Butane	106-97-8		1.42 NJ
CEMRC	6/25/2014	7/2/2014	9012	Training Building	Isobutane	75-28-5		1 NJ
CEMRC	6/25/2014	7/2/2014	9012	Training Building	Nonanal	124-19-6		1.02 NJ
CEMRC	6/25/2014	7/2/2014	9012	Training Building	Pentane	109-66-0		0.8 NJ
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	U

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**Validated VOC Monitoring Data – Surface Sampling at the WIPP**

analytical services by Carlsbad Environmental Monitoring &amp; Research Center (CEMRC)

<b>Lab</b>	<b>Sample Date</b>	<b>Analysis Date</b>	<b>Sample ID</b>	<b>Location</b>	<b>Compound</b>	<b>CAS</b>	<b>MRL (ppbv)*</b>	<b>Concentration (ppbv)</b>
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	U
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	Toluene	108-88-3	0.4	0.16 J
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	Trichloroethylene (1)	79-01-6	0.4	U
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	Acetone	67-64-1		0.54 NJ
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	Butane	106-97-8		1.5 NJ
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	Cyclotetrasiloxane, octamethyl-	556-67-2		0.54 NJ
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	Isobutane	75-28-5		1.06 NJ
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	Nonanal	124-19-6		0.58 NJ
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	Pentane	109-66-0		0.82 NJ
CEMRC	6/26/2014	7/2/2014	9014	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	6/26/2014	7/2/2014	9014	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.12 J
CEMRC	6/26/2014	7/2/2014	9014	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	6/26/2014	7/2/2014	9014	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	6/26/2014	7/2/2014	9014	Training Building	Toluene	108-88-3	0.4	0.32 J
CEMRC	6/26/2014	7/2/2014	9014	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	6/26/2014	7/2/2014	9014	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	6/26/2014	7/2/2014	9014	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U

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# Validated VOC Monitoring Data – Surface Sampling at the WIPP

analytical services by Carlsbad Environmental Monitoring &amp; Research Center (CEMRC)

Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	MRL (ppbv)*	Concentration (ppbv)
CEMRC	6/26/2014	7/2/2014	9014	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	6/26/2014	7/2/2014	9014	Training Building	Trichloroethylene (1)	79-01-6	0.4	U
CEMRC	6/26/2014	7/2/2014	9014	Training Building	Acetone	67-64-1		0.6 NJ
CEMRC	6/26/2014	7/2/2014	9014	Training Building	Butane	106-97-8		2.38 NJ
CEMRC	6/26/2014	7/2/2014	9014	Training Building	Cyclotetrasiloxane, octamethyl-	556-67-2		0.68 NJ
CEMRC	6/26/2014	7/2/2014	9014	Training Building	Cyclotrisiloxane, hexamethyl-	541-05-9		0.9 NJ
CEMRC	6/26/2014	7/2/2014	9014	Training Building	Isobutane	75-28-5		1.46 NJ
CEMRC	6/26/2014	7/2/2014	9014	Training Building	Nonanal	124-19-6		2.1 NJ
CEMRC	6/26/2014	7/2/2014	9014	Training Building	Octanal	124-13-0		0.8 NJ
CEMRC	6/26/2014	7/2/2014	9014	Training Building	Pentane	109-66-0		1.36 NJ
CEMRC	6/26/2014	7/2/2014	9014	Training Building	Pentane, 2-methyl-	107-83-5		0.42 NJ
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	U
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Toluene	108-88-3	0.4	0.32 J
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Trichloroethylene (1)	79-01-6	0.4	U
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Acetone	67-64-1		0.44 NJ
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Acetophenone	98-86-2		0.46 NJ

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**Validated VOC Monitoring Data – Surface Sampling at the WIPP**

analytical services by Carlsbad Environmental Monitoring &amp; Research Center (CEMRC)

<b>Lab</b>	<b>Sample Date</b>	<b>Analysis Date</b>	<b>Sample ID</b>	<b>Location</b>	<b>Compound</b>	<b>CAS</b>	<b>MRL (ppbv)*</b>	<b>Concentration (ppbv)</b>
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Butane	106-97-8		2.52 NJ
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Cyclotetrasiloxane, octamethyl-	556-67-2		1.3 NJ
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Cyclotrisiloxane, hexamethyl-	541-05-9		1.4 NJ
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Isobutane	75-28-5		1.5 NJ
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Nonanal	124-19-6		2.2 NJ
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Octanal	124-13-0		0.68 NJ
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Pentane	109-66-0		1.36 NJ
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Pentane, 2-methyl-	107-83-5		0.46 NJ

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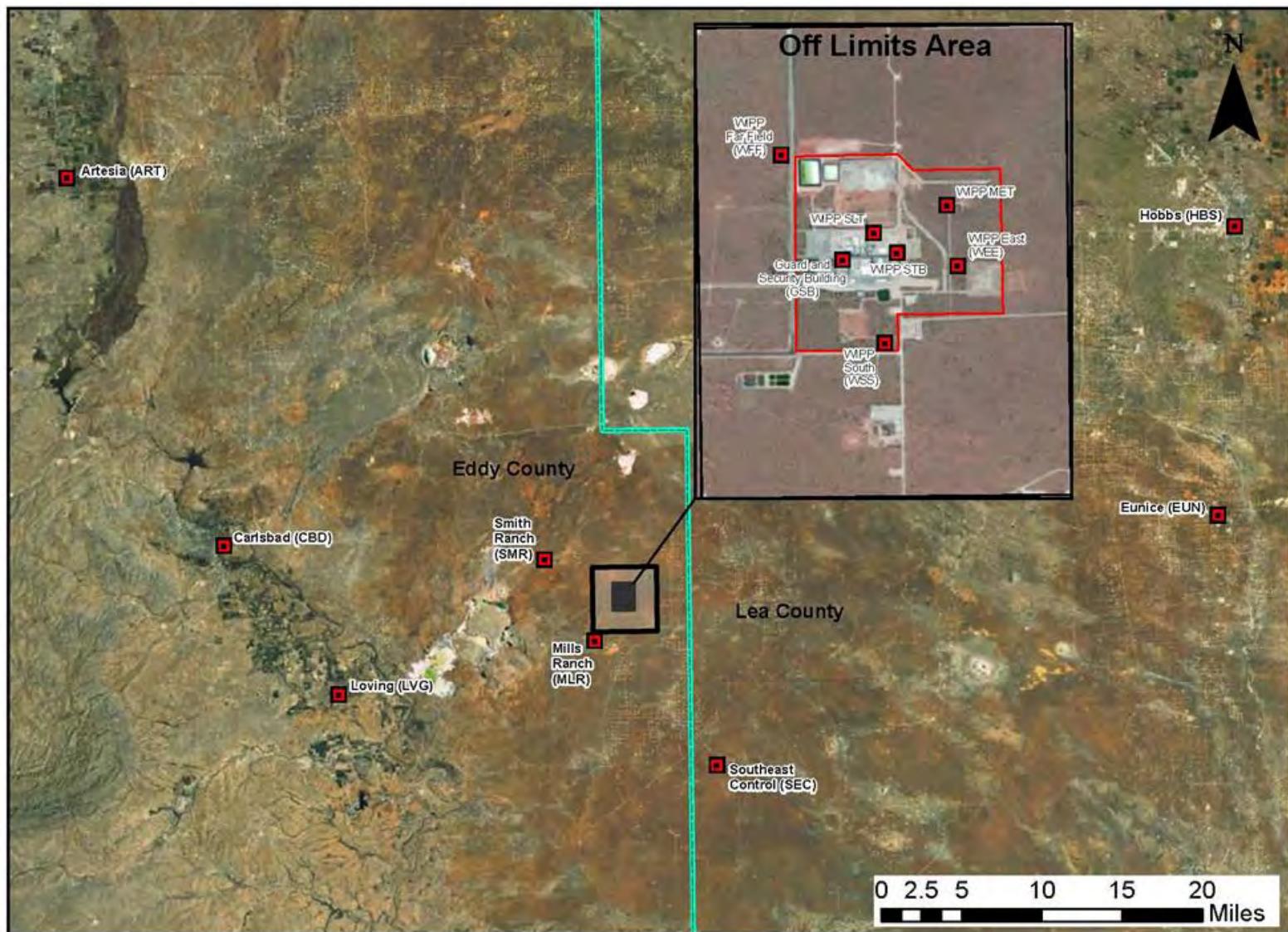
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Location of Sampling Sites for Low Volume Air Sampling, Soil Sampling, Biota, and Meteorological Monitoring

## Meteorological Data Acronyms and Definitions

<b>Date &amp; Time</b>	Self-explanatory
<b>Day</b>	Numeric identifier
<b>15 min</b>	Time interval of data
<b>Juli date</b>	Julian date (day-of-year number)
<b>2WS m/s</b>	2-meter wind speed in meters per second
<b>2WD Deg</b>	2-meter wind direction in degrees
<b>2SD</b>	2-meter standard deviation
<b>10WS m/s</b>	10-meter wind speed in meters per second
<b>10WD Deg</b>	10-meter wind direction in degrees
<b>10SD</b>	10-meter standard deviation
<b>50WS m/s</b>	50-meter wind speed in meters per second
<b>50WD Deg</b>	50-meter wind direction in degrees
<b>50SD</b>	50-meter standard deviation

<b>2M T Deg C</b>	2-meter temperature in degrees Celsius
<b>10M T Deg C</b>	10-meter temperature in degrees Celsius
<b>50M T Deg C</b>	50-meter temperature in degrees Celsius
<b>10 DT</b>	10-meter differential temperature (2M T minus 10M T)
<b>50 DT</b>	50-meter differential temperature (2M T minus 50M T)
<b>RH %</b>	Relative humidity as percentage
<b>DPT Deg C</b>	Dew point in degrees Celsius
<b>SR</b>	Solar Radiation
<b>BP mB</b>	Barometric pressure in millibars
<b>prcp mm</b>	Precipitation in millimeters

**Note 1:** The differential temperature columns (10DT and 50DT) are 10-meter or 50-meter temperatures subtracted from the 2-meter temperature reading. Negative values indicate the 10- or 50-meter temperatures are greater than the corresponding 2-meter temperature.

**Note 2:** The dew point is a number generated by the Met station based on the recorded relative humidity and temperature readings. Dew point is the temperature at which the water in the air will condense to liquid. This temperature can be very low at times, including a negative temperature. The Met system is programmed to display a temperature as low as -30 degrees Celsius.













































# NMED Bi-Weekly Report for July 14, 2014, through July 27, 2014

WIPP Validated Metdata 7/14/14 - 7/27/14																								
Date & Time	Day	15 min	Juli date	2WS m/s	2WD Deg	2SD	10WS m/s	10WD Deg	10SD	50WS m/s	50WD Deg	50SD	2M T Deg C	10M T Deg C	50M T Deg C	10 DT	50 DT	RH %	DPT Deg C	SR	BP mB	prcp mm		
7/27/2014 12:30	72400	15	208	2.603	33.66	33.1	3.48	34.18	27.1	3.639	47.17	23.4	36.15	34.43	33.43	-1.724	-2.727	21.04	10.4	1216	890	0		
7/27/2014 12:45	72401	15	208	2.652	98.3	32.02	3.205	92	26.79	3.757	87.3	28.1	36.26	34.92	34.01	-1.348	-2.253	20.31	9.97	1208	890	0		
7/27/2014 13:00	72402	15	208	3.508	106.8	34.99	4.556	103.9	32.31	5.114	101.9	29.25	36.98	35.24	34.07	-1.742	-2.911	19.09	9.63	1205	890	0		
7/27/2014 13:15	72403	15	208	3.203	69.73	29.12	4.197	66.1	27.99	4.734	64.98	24.49	36.74	35.01	34.04	-1.738	-2.705	19.36	9.65	1190	890	0		
7/27/2014 13:30	72404	15	208	2.767	120.3	40.53	3.623	104.5	36.33	4.091	96.1	31.4	37.43	35.62	34.58	-1.814	-2.852	18.08	9.18	1176	890	0		
7/27/2014 13:45	72405	15	208	2.843	121.2	53.94	3.895	116.8	41.96	4.506	113.5	29.13	37.35	35.64	34.61	-1.717	-2.743	17.41	8.54	1154	890	0		
7/27/2014 14:00	72406	15	208	2.883	76.74	40.92	3.855	74.32	33.01	4.525	73.22	30.34	37.16	35.73	34.75	-1.43	-2.405	16.21	7.341	1120	889	0		
7/27/2014 14:15	72407	15	208	2.893	89.2	48.46	3.88	86.5	40.53	4.783	87.4	29.04	37.39	35.7	34.8	-1.682	-2.581	17.5	8.67	1077	889	0		
7/27/2014 14:30	72408	15	208	2.189	78.14	40.26	2.724	82	38.51	3.11	90.6	46.28	36.94	35.71	35	-1.229	-1.935	18.01	8.73	1055	889	0		
7/27/2014 14:45	72409	15	208	3.545	93	24.88	4.844	87.8	19.71	5.87	88.9	17.21	37.61	35.99	35.01	-1.624	-2.598	18.41	9.6	1003	889	0		
7/27/2014 15:00	72410	15	208	3.84	79.59	20.47	5.136	75.79	17.01	6.044	76.18	14.39	37.75	36.16	35.19	-1.587	-2.558	17.6	9.04	958	889	0		
7/27/2014 15:15	72411	15	208	3.385	89	30.81	4.619	81.9	24.98	5.765	78.29	18.95	37.68	36.22	35.19	-1.46	-2.491	18.61	9.81	898	888	0		
7/27/2014 15:30	72412	15	208	4.099	89.8	21.22	5.381	87	16.7	6.475	83.4	15.94	37.83	36.24	35.25	-1.586	-2.577	18.55	9.88	852	888	0		
7/27/2014 15:45	72413	15	208	4.036	102	20.11	5.379	96.5	15.6	6.68	91.8	13.68	37.85	36.36	35.3	-1.488	-2.552	19.13	10.36	837	888	0		
7/27/2014 16:00	72414	15	208	4.46	88.7	25.53	6.123	85.4	23.28	7.36	86	17.48	37.27	36.04	35.08	-1.232	-2.19	19.94	10.52	587	888	0		
7/27/2014 16:15	72415	15	208	4.561	103.5	18.01	6.366	98.9	13.98	7.618	94	11.59	37.54	36.27	35.26	-1.272	-2.283	19.74	10.59	636.4	888	0		
7/27/2014 16:30	72416	15	208	4.79	99.9	16.07	6.693	93.6	13.56	7.972	88.7	11.77	37.49	36.33	35.45	-1.157	-2.043	20.14	10.85	612.8	888	0		
7/27/2014 16:45	72417	15	208	4.547	110.3	24.87	6.322	103.9	20.63	7.594	98.9	17.05	37.15	36.07	35.25	-1.074	-1.896	20.39	10.75	509.1	888	0		
7/27/2014 17:00	72418	15	208	4.569	93.1	18.84	6.22	89.6	15.44	7.454	88.4	12.3	37.14	36.19	35.27	-0.956	-1.874	20.25	10.65	493.6	888	0		
7/27/2014 17:15	72419	15	208	5.029	103.4	18.51	6.947	99	14.49	8.58	97.6	12.41	37.08	36.23	35.35	-0.847	-1.731	20.67	10.9	420.6	888	0		
7/27/2014 17:30	72420	15	208	4.098	102.1	20.03	5.958	96.5	15.16	7.488	94.1	12	36.57	35.89	35.12	-0.676	-1.45	21.29	10.93	318.3	888	0		
7/27/2014 17:45	72421	15	208	4.674	103.9	15.69	6.675	98.2	11.66	8.36	96.5	9.42	36.21	35.68	34.93	-0.528	-1.281	21.95	11.09	262.2	889	0		
7/27/2014 18:00	72422	15	208	4.672	109.5	15.21	6.856	104.1	10.26	8.57	100.2	7.7	35.83	35.46	34.83	-0.367	-0.999	22.46	11.12	186.2	889	0		
7/27/2014 18:15	72423	15	208	4.75	104.7	15.64	6.852	100.2	11.47	9.13	98	6.91	35.4	35.2	34.64	-0.206	-0.761	22.85	11.03	125.8	889	0		
7/27/2014 18:30	72424	15	208	4.34	101.6	13.44	6.37	96.9	8.49	8.42	94.8	5.749	35.03	34.97	34.52	-0.061	-0.509	23.33	11.03	74.44	889	0		
7/27/2014 18:45	72425	15	208	4.543	104.1	12.73	6.67	98.9	7.802	9.01	95.8	4.733	34.61	34.66	34.32	0.048	-0.292	23.89	11.04	27.62	889	0		
7/27/2014 19:00	72426	15	208	4.108	99.7	12.29	6.019	95	8.55	8.53	91.9	5.452	34.16	34.29	34.07	0.139	-0.082	24.27	10.9	7.424	889	0		
7/27/2014 19:15	72427	15	208	4.203	96.4	11.75	6.136	92	7.444	8.56	89.3	5.486	33.76	33.93	33.76	0.174	-0.001	24.91	10.95	2.094	889	0		
7/27/2014 19:30	72428	15	208	4.399	92.6	10.92	6.375	88.3	7.006	8.94	86.2	4.361	33.51	33.69	33.53	0.187	0.028	25.01	10.81	1.324	889	0		
7/27/2014 19:45	72429	15	208	3.51	93.7	11.39	5.247	89.4	7.133	8.01	87.7	4.018	33.03	33.28	33.27	0.258	0.239	25.64	10.78	1.229	890	0		
7/27/2014 20:00	72430	15	208	3.345	96.3	11.73	5.097	91.1	7.495	7.854	89.9	4.2	32.64	32.94	32.98	0.299	0.335	26.35	10.86	1.318	890	0		
7/27/2014 20:15	72431	15	208	3.667	98.4	11.4	5.409	94.6	7.455	8.47	93.9	3.987	32.41	32.67	32.71	0.267	0.307	27.45	11.28	1.126	890	0		
7/27/2014 20:30	72432	15	208	3.68	100.6	12.63	5.538	97.2	7.782	8.62	95.7	4.325	32.16	32.41	32.42	0.247	0.255	28.66	11.72	1.206	890	0		
7/27/2014 20:45	72433	15	208	3.636	102.9	11.56	5.452	99.6	7.225	8.33	97.5	4.186	31.84	32.1	32.1	0.258	0.26	29.8	12.04	1.461	891	0		
7/27/2014 21:00	72434	15	208	3.334	106.1	11.19	5.172	100.7	7.141	8.21	100.2	4.255	31.58	31.85	31.89	0.268	0.311	30.66	12.25	1.227	891	0		
7/27/2014 21:15	72435	15	208	3.359	107.6	12.02	5.041	103.4	7.573	7.925	102.5	4.441	31.36	31.63	31.7	0.266	0.332	31.33	12.39	1.165	891	0		
7/27/2014 21:30	72436	15	208	3.189	109.3	12.3	5.034	106	6.908	7.843	105.5	4.399	31.23	31.52	31.58	0.29	0.349	31.85	12.53	1.403	891	0		
7/27/2014 21:45	72437	15	208	3.144	107.7	12.09	4.762	103.2	7.389	7.562	104.2	4.457	31.11	31.38	31.46	0.275	0.353	32.41	12.68	1.218	891	0		
7/27/2014 22:00	72438	15	208	2.817	111.3	12.24	4.444	107.8	7.398	7.051	106.7	4.439	30.92	31.21	31.26	0.287	0.34	33.11	12.85	1.228	891	0		
7/27/2014 22:15	72439	15	208	2.969	114.9	11.48	4.711	111.6	6.812	7.276	111.3	5.014	30.75	31.04	31.07	0.288	0.32	33.85	13.04	1.012	891	0		
7/27/2014 22:30	72440	15	208	4.106	147.9	16.11	6.285	142.2	12.52	8.7	141.8	10.26	30.65	30.82	30.62	0.17	-0.031	36.84	14.23	1.396	891	0		
7/27/2014 22:45	72441	15	208	4.421	151.8	13.29	6.809	145	8.08	9.6	143.2	5.242	30.21	30.32	30.06	0.11	-0.148	40.05	15.15	1.638	891	0		
7/27/2014 23:00	72442	15	208	3.872	152.2	12.54	5.918	145.5	7.948	8.23	143.1	5.5	29.93	30.07	29.84	0.145	-0.089	40.43	15.05	1.44	892	0		
7/27/2014 23:15	72443	15	208	3.529	153.9	12.14	5.319	147.1	7.507	7.543	145.8	5.772	29.7	29.87	29.68	0.169	-0.018	40.73	14.96	1.324	892	0		
7/27/2014 23:30	72444	15	208	3.032	158.4	12.03	4.704	151.7	7.138	6.876	148	4.909	29.37	29.61	29.47	0.233	0.098	41.18	14.84	1.388	892	0		
7/27/2014 23:45	72445	15	208	2.484	150.7	12.77	4.031	144.8	7.598	6.069	144.4	4.646	28.92	29.23</td										

## Environmental Monitoring & Hydrology Airborne Particulates Sampling

July 27, 2014

Location	Sample ID Number	Sample Date	ISOLO Spectrum Analyzer Gross α β Preliminary/ Final DPM	WIPP Labs Gross α DPM	WIPP Labs Radiochemistry			Air Flow Volume (m³)	WIPP Labs Radiochemistry		
					Am-241 (dpm/sample)	Pu-238 (dpm/sample)	Pu-239/240 (dpm/sample)		Am-241 (Bq/m³)	Pu-238 (Bq/m³)	Pu-239/240 (Bq/m³)
WIPP Far Field (WFF)*	AL-WFF-20140212-1.1	02/15/2014	36	---	4.88E+01	Below MDC	3.67E+00	51.44	1.58E-02	N/A	1.19E-03
WIPP Far Field (WFF)	AL-WFF-20140219-1.1	02/18/2014	2.4	---	2.70E-01	Below MDC	Below MDC	242.65	1.85E-05	N/A	N/A
WIPP East (WEE)*	AL-WEE-20140212-1.1	02/17/2014	7.29/4.4	---	5.73E-01	Below MDC	Below MDC	208.89	4.57E-05	N/A	N/A
WIPP South (WSS)*	AL-WSS-20140212-1.1	02/17/2014	7.47/3.7	---	1.41E-01	Below MDC	Below MDC	207.82	1.13E-05	N/A	N/A
Mills Ranch (MLR)*	AL-MLR-20140212-1.1	02/18/2014	2.7	---	Below MDC	Below MDC	Below MDC	269.12	N/A	N/A	N/A
Smith Ranch (SMR)*	AL-SMR-20140212-1.1	02/18/2014	4.2	---	2.44E-01	Below MDC	Below MDC	270.95	1.50E-05	N/A	N/A
Carlsbad (CBD)*	AL-CBD-20140212-1.1	02/18/2014	1.6	---	Below MDC	Below MDC	Below MDC	263.07	N/A	N/A	N/A
Southeast Control (SEC)*	AL-SEC-20140212-1.2	02/18/2014	1.3	---	Below MDC	Below MDC	Below MDC	266.42	N/A	N/A	N/A
Southeast Control (SEC) co-located sample*	AL-SEC-20140212-2.2	02/18/2014	1.5	---	Below MDC	Below MDC	Below MDC	271.13	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140219-1.1	02/26/2014	---	1.89	Below MDC	Below MDC	Below MDC	653.09	N/A	N/A	N/A
WIPP East (WEE)	AL-WEE-20140219-1.1	02/26/2014	---	2.48	Below MDC	Below MDC	Below MDC	738.49	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140219-1.1	02/26/2014	---	2.23	Below MDC	Below MDC	Below MDC	730.49	N/A	N/A	N/A
Mills Ranch (MLR)	AL-MLR-20140219-1.1	02/26/2014	---	2.57	Below MDC	Below MDC	Below MDC	675.95	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140219-1.1	02/26/2014	---	2.23	Below MDC	Below MDC	Below MDC	634.00	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140219-1.1	02/26/2014	---	1.12	Below MDC	Below MDC	Below MDC	663.97	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140219-1.2	02/26/2014	---	2.66	Below MDC	Below MDC	Below MDC	675.60	N/A	N/A	N/A
Southeast Control (SEC) co-located sample	AL-SEC-20140219-2.2	02/26/2014	---	1.38	Below MDC	Below MDC	Below MDC	642.96	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140226-1.1	03/04/2014	---	4.21	Below MDC	Below MDC	Below MDC	476.53	N/A	N/A	N/A
WIPP East (WEE)	AL-WEE-20140226-1.1	03/04/2014	---	4.90	Below MDC	Below MDC	Below MDC	478.96	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140226-1.1	03/04/2014	---	3.26	Below MDC	Below MDC	Below MDC	474.43	N/A	N/A	N/A
Mills Ranch (MLR)	AL-MLR-20140226-1.1	03/04/2014	---	5.50	Below MDC	Below MDC	Below MDC	476.20	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140226-1.1	03/04/2014	---	7.13	Below MDC	Below MDC	Below MDC	470.20	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140226-1.1	03/04/2014	---	5.50	Below MDC	Below MDC	Below MDC	482.31	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140226-1.2	03/04/2014	---	4.72	Below MDC	Below MDC	Below MDC	476.53	N/A	N/A	N/A
Southeast Control (SEC) co-located sample	AL-SEC-20140226-2.2	03/04/2014	---	6.70	Below MDC	Below MDC	Below MDC	481.39	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140304-1.1	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	549.12	N/A	N/A	N/A
WIPP East (WEE)	AL-WEE-20140304-1.1	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	559.62	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140304-1.1	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	556.12	N/A	N/A	N/A
Mills Ranch (MLR)	AL-MLR-20140304-1.1	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	556.78	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140304-1.1	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	543.88	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140304-1.1	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	561.30	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140304-1.2	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	557.78	N/A	N/A	N/A

## Environmental Monitoring & Hydrology Airborne Particulates Sampling

July 27, 2014

Location	Sample ID Number	Sample Date	ISOLO Spectrum Analyzer	WIPP Labs Gross α DPM	WIPP Labs Radiochemistry			Air Flow Volume (m <sup>3</sup> )	WIPP Labs Radiochemistry		
			Gross α β Preliminary/ Final DPM		Am-241 (dpm/sample)	Pu-238 (dpm/sample)	Pu-239/240 (dpm/sample)		Am-241 (Bq/m <sup>3</sup> )	Pu-238 (Bq/m <sup>3</sup> )	Pu-239/240 (Bq/m <sup>3</sup> )
Southeast Control (SEC) co-located sample	AL-SEC-20140304-2.2	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	552.09	N/A	N/A	N/A
Meteorology Tower Building (MET) <sup>†</sup>	AL-MET-20140304-1.1	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	447.76	N/A	N/A	N/A
Salt Hoist (SLT) <sup>†</sup>	AL-SLT-20140304-1.1	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	535.87	N/A	N/A	N/A
Southeast of Training Building (STB) <sup>†</sup>	AL-STB-20140304-1.1	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	538.77	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140311-1.1	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	521.72	N/A	N/A	N/A
WIPP East (WEE)	AL-WEE-20140311-1.1	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	583.39	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140311-1.1	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	563.14	N/A	N/A	N/A
Mills Ranch (MLR)	AL-MLR-20140311-1.1	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	557.45	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140311-1.1	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	581.65	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140311-1.1	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	496.70	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140311-1.2	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	545.09	N/A	N/A	N/A
Southeast Control (SEC) co-located sample	AL-SEC-20140311-2.2	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	522.38	N/A	N/A	N/A
Meteorology Tower Building (MET) <sup>†</sup>	AL-MET-20140311-1.1	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	569.51	N/A	N/A	N/A
Salt Hoist (SLT) <sup>†</sup>	AL-SLT-20140311-1.1	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	557.26	N/A	N/A	N/A
Southeast of Training Building (STB) <sup>†</sup>	AL-STB-20140311-1.1	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	560.11	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140318-1.1	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	551.04	N/A	N/A	N/A
WIPP East (WEE)	AL-WEE-20140318-1.1	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	583.62	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140318-1.1	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	598.84	N/A	N/A	N/A
Mills Ranch (MLR)	AL-MLR-20140318-1.1	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	595.58	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140318-1.1	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	580.38	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140318-1.1	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	580.55	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140318-1.2	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	586.87	N/A	N/A	N/A
Southeast Control (SEC) co-located sample	AL-SEC-20140318-2.2	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	563.63	N/A	N/A	N/A
Meteorology Tower Building (MET) <sup>†</sup>	AL-MET-20140318-1.1	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	591.75	N/A	N/A	N/A
Salt Hoist (SLT) <sup>†</sup>	AL-SLT-20140318-1.1	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	585.15	N/A	N/A	N/A
Southeast of Training Building (STB) <sup>†</sup>	AL-STB-20140318-1.1	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	582.60	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140325-1.2	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	546.07	N/A	N/A	N/A
WIPP Far Field (WFF) co-located	AL-WFF-20140325-2.2	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	554.61	N/A	N/A	N/A

## Environmental Monitoring & Hydrology Airborne Particulates Sampling

July 27, 2014

Location	Sample ID Number	Sample Date	ISOLO Spectrum Analyzer	WIPP Labs Gross α DPM	WIPP Labs Radiochemistry			Air Flow Volume (m <sup>3</sup> )	WIPP Labs Radiochemistry		
			Gross α β Preliminary/ Final DPM		Am-241 (dpm/sample)	Pu-238 (dpm/sample)	Pu-239/240 (dpm/sample)		Am-241 (Bq/m <sup>3</sup> )	Pu-238 (Bq/m <sup>3</sup> )	Pu-239/240 (Bq/m <sup>3</sup> )
WIPP East (WEE)	AL-WEE-20140325-1.1	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	542.58	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140325-1.1	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	518.92	N/A	N/A	N/A
Mills Ranch (MLR)	AL-MLR-20140325-1.1	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	533.42	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140325-1.1	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	528.06	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140325-1.1	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	507.26	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140325-1.2	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	536.26	N/A	N/A	N/A
Southeast Control (SEC) co-located sample	AL-SEC-20140325-2.2	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	539.09	N/A	N/A	N/A
Meteorology Tower Building (MET) <sup>†</sup>	AL-MET-20140325-1.1	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	545.42	N/A	N/A	N/A
Salt Hoist (SLT) <sup>†</sup>	AL-SLT-20140325-1.1	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	533.10	N/A	N/A	N/A
Southeast of Training Building (STB) <sup>†</sup>	AL-STB-20140325-1.1	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	556.78	N/A	N/A	N/A
Guard and Security Building (GSB) <sup>‡</sup>	AL-GSB-20140325-1.1	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	531.54	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140401-1.2	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	562.46	N/A	N/A	N/A
WIPP Far Field (WFF) co-located	AL-WFF-20140401-2.2	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	579.51	N/A	N/A	N/A
WIPP East (WEE)	AL-WEE-20140401-1.1	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	580.20	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140401-1.1	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	580.20	N/A	N/A	N/A
Mills Ranch (MLR)	AL-MLR-20140401-1.1	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	574.86	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140401-1.2	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	581.57	N/A	N/A	N/A
Carlsbad (CBD) co-located sample	AL-CBD-20140401-2.2	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	559.08	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140401-1.1	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	577.01	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140401-1.1	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	583.39	N/A	N/A	N/A
Meteorology Tower Building (MET) <sup>†</sup>	AL-MET-20140401-1.1	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	577.01	N/A	N/A	N/A
Salt Hoist (SLT) <sup>†</sup>	AL-SLT-20140401-1.1	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	575.98	N/A	N/A	N/A
Southeast of Training Building (STB) <sup>†</sup>	AL-STB-20140401-1.1	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	586.62	N/A	N/A	N/A
Guard and Security Building (GSB) <sup>‡</sup>	AL-GSB-20140401-1.1	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	584.84	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140408-1.2	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	571.20	N/A	N/A	N/A
WIPP Far Field (WFF) co-located	AL-WFF-20140408-2.2	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	574.06	N/A	N/A	N/A
WIPP East (WEE)	AL-WEE-20140408-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	568.60	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140408-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	570.74	N/A	N/A	N/A

## Environmental Monitoring & Hydrology Airborne Particulates Sampling

July 27, 2014

Location	Sample ID Number	Sample Date	ISOLO Spectrum Analyzer	WIPP Labs Gross α Preliminary/ Final DPM	WIPP Labs Radiochemistry			Air Flow Volume (m <sup>3</sup> )	WIPP Labs Radiochemistry		
			Gross α β DPM		Am-241 (dpm/sample)	Pu-238 (dpm/sample)	Pu-239/240 (dpm/sample)		Am-241 (Bq/m <sup>3</sup> )	Pu-238 (Bq/m <sup>3</sup> )	Pu-239/240 (Bq/m <sup>3</sup> )
Mills Ranch (MLR)	AL-MLR-20140408-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	555.62	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140408-1.2	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	562.71	N/A	N/A	N/A
Carlsbad (CBD) co-located sample	AL-CBD-20140408-2.2	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	558.63	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140408-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	569.36	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140408-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	575.62	N/A	N/A	N/A
Meteorology Tower Building (MET) <sup>†</sup>	AL-MET-20140408-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	546.29	N/A	N/A	N/A
Salt Hoist (SLT) <sup>†</sup>	AL-SLT-20140408-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	573.83	N/A	N/A	N/A
Southeast of Training Building (STB) <sup>†</sup>	AL-STB-20140408-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	555.78	N/A	N/A	N/A
Guard and Security Building (GSB) <sup>‡</sup>	AL-GSB-20140408-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	574.94	N/A	N/A	N/A
Artesia (ART) <sup>§</sup>	AL-ART-20140410-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	397.41	N/A	N/A	N/A
Eunice (EUN) <sup>§</sup>	AL-EUN-20140410-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	406.71	N/A	N/A	N/A
Hobbs (HBS) <sup>§</sup>	AL-HBS-20140410-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	403.69	N/A	N/A	N/A
Loving (LVG) <sup>§</sup>	AL-LVG-20140410-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	426.89	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140415-1.2	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	551.76	N/A	N/A	N/A
WIPP Far Field (WFF) co-located	AL-WFF-20140415-2.2	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	555.76	N/A	N/A	N/A
WIPP East (WEE)	AL-WEE-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	557.36	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	543.32	N/A	N/A	N/A
Mills Ranch (MLR)	AL-MLR-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	544.58	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140415-1.2	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	539.80	N/A	N/A	N/A
Carlsbad (CBD) co-located sample	AL-CBD-20140415-2.2	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	551.16	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	544.84	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	554.07	N/A	N/A	N/A
Meteorology Tower Building (MET) <sup>†</sup>	AL-MET-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	553.51	N/A	N/A	N/A
Salt Hoist (SLT) <sup>†</sup>	AL-SLT-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	565.83	N/A	N/A	N/A
Southeast of Training Building (STB) <sup>†</sup>	AL-STB-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	562.97	N/A	N/A	N/A
Guard and Security Building (GSB) <sup>‡</sup>	AL-GSB-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	555.39	N/A	N/A	N/A
Artesia (ART) <sup>§</sup>	AL-ART-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	551.87	N/A	N/A	N/A
Eunice (EUN) <sup>§</sup>	AL-EUN-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	570.52	N/A	N/A	N/A

## Environmental Monitoring & Hydrology Airborne Particulates Sampling

July 27, 2014

Location	Sample ID Number	Sample Date	ISOLO Spectrum Analyzer	WIPP Labs Gross α Preliminary/ Final DPM	WIPP Labs Radiochemistry			Air Flow Volume (m <sup>3</sup> )	WIPP Labs Radiochemistry		
			Gross α β DPM		Am-241 (dpm/sample)	Pu-238 (dpm/sample)	Pu-239/240 (dpm/sample)		Am-241 (Bq/m <sup>3</sup> )	Pu-238 (Bq/m <sup>3</sup> )	Pu-239/240 (Bq/m <sup>3</sup> )
Hobbs (HBS) <sup>§</sup>	AL-HBS-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	556.26	N/A	N/A	N/A
Loving (LVG) <sup>§</sup>	AL-LVG-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	545.64	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140422-1.2	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	562.80	N/A	N/A	N/A
WIPP Far Field (WFF) co-located	AL-WFF-20140422-2.2	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	577.01	N/A	N/A	N/A
WIPP East (WEE)	AL-WEE-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	568.83	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	579.86	N/A	N/A	N/A
Mills Ranch (MLR)	AL-MLR-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	579.51	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140422-1.2	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	553.41	N/A	N/A	N/A
Carlsbad (CBD) co-located sample	AL-CBD-20140422-2.2	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	561.97	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	563.91	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	585.19	N/A	N/A	N/A
Meteorology Tower Building (MET) <sup>†</sup>	AL-MET-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	568.49	N/A	N/A	N/A
Salt Hoist (SLT) <sup>†</sup>	AL-SLT-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	568.66	N/A	N/A	N/A
Southeast of Training Building (STB) <sup>†</sup>	AL-STB-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	578.00	N/A	N/A	N/A
Guard and Security Building (GSB) <sup>‡</sup>	AL-GSB-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	568.66	N/A	N/A	N/A
Artesia (ART) <sup>§</sup>	AL-ART-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	565.16	N/A	N/A	N/A
Eunice (EUN) <sup>§</sup>	AL-EUN-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	575.54	N/A	N/A	N/A
Hobbs (HBS) <sup>§</sup>	AL-HBS-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	546.07	N/A	N/A	N/A
Loving (LVG) <sup>§</sup>	AL-LVG-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	568.76	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140429-1.2	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	529.31	N/A	N/A	N/A
WIPP Far Field (WFF) co-located	AL-WFF-20140429-2.2	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	558.25	N/A	N/A	N/A
WIPP East (WEE)	AL-WEE-20140429-1.1	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	545.23	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140429-1.1	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	550.04	N/A	N/A	N/A
Mills Ranch (MLR)	AL-MLR-20140429-1.1	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	547.16	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140429-1.2	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	545.18	N/A	N/A	N/A
Carlsbad (CBD) co-located sample	AL-CBD-20140429-2.2	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	553.74	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140429-1.1	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	562.01	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140429-1.1	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	551.54	N/A	N/A	N/A
Meteorology Tower Building (MET) <sup>†</sup>	AL-MET-20140429-1.1	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	531.22	N/A	N/A	N/A

## Environmental Monitoring & Hydrology Airborne Particulates Sampling

July 27, 2014

Location	Sample ID Number	Sample Date	ISOLO Spectrum Analyzer	WIPP Labs Gross α DPM	WIPP Labs Radiochemistry			Air Flow Volume (m <sup>3</sup> )	WIPP Labs Radiochemistry		
			Gross α β Preliminary/ Final DPM		Am-241 (dpm/sample)	Pu-238 (dpm/sample)	Pu-239/240 (dpm/sample)		Am-241 (Bq/m <sup>3</sup> )	Pu-238 (Bq/m <sup>3</sup> )	Pu-239/240 (Bq/m <sup>3</sup> )
Salt Hoist (SLT) <sup>†</sup>	AL-SLT-20140429-1.1	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	552.79	N/A	N/A	N/A
Southeast of Training Building (STB) <sup>†</sup>	AL-STB-20140429-1.1	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	538.36	N/A	N/A	N/A
Guard and Security Building (GSB) <sup>‡</sup>	AL-GSB-20140429-1.1	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	547.15	N/A	N/A	N/A
Artesia (ART) <sup>§</sup>	AL-ART-20140429-1.1	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	556.59	N/A	N/A	N/A
Eunice (EUN) <sup>§</sup>	AL-EUN-20140429-1.1	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	130.92	N/A	N/A	N/A
Hobbs (HBS) <sup>§</sup>	AL-HBS-20140429-1.1	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	542.32	N/A	N/A	N/A
Loving (LVG) <sup>§</sup>	AL-LVG-20140429-1.1	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	563.69	N/A	N/A	N/A
Eunice (EUN) <sup>§</sup>	EE-EUN-20140429-1.1	05/07/2014	---	---	Below MDC	Below MDC	Below MDC	67.02	N/A	N/A	N/A
WIPP Far Field (WFF)	EE-WFF-20140506-1.2	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	572.89	N/A	N/A	N/A
WIPP Far Field (WFF) co-located	EE-WFF-20140506-2.2	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	584.12	N/A	N/A	N/A
WIPP East (WEE)	EE-WEE-20140506-1.2	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	545.56	N/A	N/A	N/A
WIPP East (WEE) co-located	EE-WEE-20140506-2.2	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	589.08	N/A	N/A	N/A
WIPP South (WSS)	EE-WSS-20140506-1.1	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	602.53	N/A	N/A	N/A
Mills Ranch (MLR)	EE-MLR-20140506-1.1	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	597.79	N/A	N/A	N/A
Carlsbad (CBD)	EE-CBD-20140506-1.1	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	561.97	N/A	N/A	N/A
Smith Ranch (SMR)	EE-SMR-20140506-1.1	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	592.87	N/A	N/A	N/A
Southeast Control (SEC)	EE-SEC-20140506-1.1	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	584.44	N/A	N/A	N/A
Meteorology Tower Building (MET) <sup>†</sup>	EE-MET-20140506-1.1	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	595.11	N/A	N/A	N/A
Salt Hoist (SLT) <sup>†</sup>	EE-SLT-20140506-1.1	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	607.24	N/A	N/A	N/A
Southeast of Training Building (STB) <sup>†</sup>	EE-STB-20140506-1.1	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	603.57	N/A	N/A	N/A
Guard and Security Building (GSB) <sup>‡</sup>	EE-GSB-20140506-1.1	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	630.33	N/A	N/A	N/A
Artesia (ART) <sup>§</sup>	EE-ART-20140506-1.1	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	581.94	N/A	N/A	N/A
Eunice (EUN) <sup>§</sup>	EE-EUN-20140507-1.1	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	465.17	N/A	N/A	N/A
Hobbs (HBS) <sup>§</sup>	EE-HBS-20140506-1.1	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	576.92	N/A	N/A	N/A
Loving (LVG) <sup>§</sup>	EE-LVG-20140506-1.1	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	586.21	N/A	N/A	N/A
WIPP Far Field (WFF)	EE-WFF-20140513-1.2	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	35.66	N/A	N/A	N/A
WIPP Far Field (WFF) co-located	EE-WFF-20140513-2.2	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	34.94	N/A	N/A	N/A
WIPP East (WEE)	EE-WEE-20140513-1.2	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	549.92	N/A	N/A	N/A

## Environmental Monitoring & Hydrology Airborne Particulates Sampling

July 27, 2014

Location	Sample ID Number	Sample Date	ISOLO Spectrum Analyzer	WIPP Labs Gross α DPM	WIPP Labs Radiochemistry			Air Flow Volume (m <sup>3</sup> )	WIPP Labs Radiochemistry		
			Gross α β Preliminary/ Final DPM		Am-241 (dpm/sample)	Pu-238 (dpm/sample)	Pu-239/240 (dpm/sample)		Am-241 (Bq/m <sup>3</sup> )	Pu-238 (Bq/m <sup>3</sup> )	Pu-239/240 (Bq/m <sup>3</sup> )
WIPP East (WEE) co-located	EE-WEE-20140513-2.2	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	538.75	N/A	N/A	N/A
WIPP South (WSS)	EE-WSS-20140513-1.1	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	533.61	N/A	N/A	N/A
Mills Ranch (MLR)	EE-MLR-20140513-1.1	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	531.12	N/A	N/A	N/A
Carlsbad (CBD)	EE-CBD-20140513-1.1	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	536.61	N/A	N/A	N/A
Smith Ranch (SMR)	EE-SMR-20140513-1.1	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	538.04	N/A	N/A	N/A
Southeast Control (SEC)	EE-SEC-20140513-1.1	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	538.80	N/A	N/A	N/A
Meteorology Tower Building (MET) <sup>†</sup>	EE-MET-20140513-1.1	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	535.96	N/A	N/A	N/A
Salt Hoist (SLT) <sup>†</sup>	EE-SLT-20140513-1.1	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	534.47	N/A	N/A	N/A
Southeast of Training Building (STB) <sup>†</sup>	EE-STB-20140513-1.1	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	523.59	N/A	N/A	N/A
Guard and Security Building (GSB) <sup>‡</sup>	EE-GSB-20140513-1.1	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	615.99	N/A	N/A	N/A
Artesia (ART) <sup>§</sup>	EE-ART-20140513-1.1	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	550.88	N/A	N/A	N/A
Eunice (EUN) <sup>§</sup>	EE-EUN-20140513-1.1	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	543.96	N/A	N/A	N/A
Hobbs (HBS) <sup>§</sup>	EE-HBS-20140513-1.1	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	543.32	N/A	N/A	N/A
Loving (LVG) <sup>§</sup>	EE-LVG-20140513-1.1	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	551.43	N/A	N/A	N/A
WIPP Far Field (WFF)	EE-WFF-20140520-1.2	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	561.11	N/A	N/A	N/A
WIPP Far Field (WFF) co-located	EE-WFF-20140520-2.2	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	563.98	N/A	N/A	N/A
WIPP East (WEE)	EE-WEE-20140520-1.2	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	554.27	N/A	N/A	N/A
WIPP East (WEE) co-located	EE-WEE-20140520-2.2	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	574.17	N/A	N/A	N/A
WIPP South (WSS)	EE-WSS-20140520-1.1	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	581.24	N/A	N/A	N/A
Mills Ranch (MLR)	EE-MLR-20140520-1.1	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	588.39	N/A	N/A	N/A
Carlsbad (CBD)	EE-CBD-20140520-1.1	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	567.33	N/A	N/A	N/A
Smith Ranch (SMR)	EE-SMR-20140520-1.1	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	591.14	N/A	N/A	N/A
Southeast Control (SEC)	EE-SEC-20140520-1.1	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	572.23	N/A	N/A	N/A
Meteorology Tower Building (MET) <sup>†</sup>	EE-MET-20140520-1.1	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	581.84	N/A	N/A	N/A
Salt Hoist (SLT) <sup>†</sup>	EE-SLT-20140520-1.1	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	585.19	N/A	N/A	N/A
Southeast of Training Building (STB) <sup>†</sup>	EE-STB-20140520-1.1	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	574.34	N/A	N/A	N/A
Guard and Security Building (GSB) <sup>‡</sup>	EE-GSB-20140520-1.1	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	571.54	N/A	N/A	N/A
Artesia (ART) <sup>§</sup>	EE-ART-20140520-1.1	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	561.46	N/A	N/A	N/A

## Environmental Monitoring & Hydrology Airborne Particulates Sampling

July 27, 2014

Location	Sample ID Number	Sample Date	ISOLO Spectrum Analyzer	WIPP Labs Gross α Preliminary/ Final DPM	WIPP Labs Radiochemistry			Air Flow Volume (m <sup>3</sup> )	WIPP Labs Radiochemistry		
			Gross α β DPM		Am-241 (dpm/sample)	Pu-238 (dpm/sample)	Pu-239/240 (dpm/sample)		Am-241 (Bq/m <sup>3</sup> )	Pu-238 (Bq/m <sup>3</sup> )	Pu-239/240 (Bq/m <sup>3</sup> )
Eunice (EUN) <sup>§</sup>	EE-EUN-20140520-1.1	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	554.73	N/A	N/A	N/A
Hobbs (HBS) <sup>§</sup>	EE-HBS-20140520-1.1	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	559.10	N/A	N/A	N/A
Loving (LVG) <sup>§</sup>	EE-LVG-20140520-1.1	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	572.10	N/A	N/A	N/A
WIPP Far Field (WFF)	EE-WFF-20140527-1.2	06/03/2014	---	---	Below MDC	Below MDC	Below MDC	571.67	N/A	N/A	N/A
WIPP Far Field (WFF) co-located	EE-WFF-20140527-2.2	06/03/2014	---	---	Below MDC	Below MDC	Below MDC	568.83	N/A	N/A	N/A
WIPP East (WEE)	EE-WEE-20140527-1.2	06/03/2014	---	---	Below MDC	Below MDC	Below MDC	562.46	N/A	N/A	N/A
WIPP East (WEE) co-located	EE-WEE-20140527-2.2	06/03/2014	---	---	Below MDC	Below MDC	Below MDC	573.83	N/A	N/A	N/A
WIPP South (WSS)	EE-WSS-20140527-1.1	06/03/2014	---	---	Below MDC	Below MDC	Below MDC	557.92	N/A	N/A	N/A
Mills Ranch (MLR)	EE-MLR-20140527-1.1	06/03/2014	---	---	Below MDC	Below MDC	Below MDC	558.88	N/A	N/A	N/A
Carlsbad (CBD)	EE-CBD-20140527-1.1	06/03/2014	---	---	Below MDC	Below MDC	Below MDC	560.11	N/A	N/A	N/A
Smith Ranch (SMR)	EE-SMR-20140527-1.1	06/03/2014	---	---	Below MDC	Below MDC	Below MDC	563.95	N/A	N/A	N/A
Southeast Control (SEC)	EE-SEC-20140527-1.1	06/03/2014	---	---	Below MDC	Below MDC	Below MDC	552.64	N/A	N/A	N/A
Meteorology Tower Building (MET) <sup>†</sup>	EE-MET-20140527-1.1	06/03/2014	---	---	Below MDC	Below MDC	Below MDC	559.78	N/A	N/A	N/A
Salt Hoist (SLT) <sup>†</sup>	EE-SLT-20140527-1.1	06/03/2014	---	---	Below MDC	Below MDC	Below MDC	583.74	N/A	N/A	N/A
Southeast of Training Building (STB) <sup>†</sup>	EE-STB-20140527-1.1	06/03/2014	---	---	Below MDC	Below MDC	Below MDC	577.70	N/A	N/A	N/A
Guard and Security Building (GSB) <sup>‡</sup>	EE-GSB-20140527-1.1	06/03/2014	---	---	Below MDC	Below MDC	Below MDC	569.51	N/A	N/A	N/A
Artesia (ART) <sup>§</sup>	EE-ART-20140527-1.1	06/03/2014	---	---	Below MDC	Below MDC	Below MDC	551.99	N/A	N/A	N/A
Eunice (EUN) <sup>§</sup>	EE-EUN-20140527-1.1	06/03/2014	---	---	Below MDC	Below MDC	Below MDC	568.11	N/A	N/A	N/A
Hobbs (HBS) <sup>§</sup>	EE-HBS-20140527-1.1	06/03/2014	---	---	Below MDC	Below MDC	Below MDC	571.88	N/A	N/A	N/A
Loving (LVG) <sup>§</sup>	EE-LVG-20140527-1.1	06/03/2014	---	---	Below MDC	Below MDC	Below MDC	573.64	N/A	N/A	N/A
WIPP Far Field (WFF)**	EE-WFF-20140603-1.2	06/10/2014	---	---	Below MDC	Below MDC	Below MDC	563.28	N/A	N/A	N/A
WIPP Far Field (WFF) co-located**	EE-WFF-20140603-2.2	06/10/2014	---	---	Below MDC	Below MDC	Below MDC	566.11	N/A	N/A	N/A
WIPP East (WEE)**	EE-WEE-20140603-1.2	06/10/2014	---	---	Below MDC	Below MDC	Below MDC	567.57	N/A	N/A	N/A
WIPP East (WEE) co-located**	EE-WEE-20140603-2.2	06/10/2014	---	---	Below MDC	Below MDC	Below MDC	559.10	N/A	N/A	N/A
WIPP South (WSS)**	EE-WSS-20140603-1.1	06/10/2014	---	---	Below MDC	Below MDC	Below MDC	569.62	N/A	N/A	N/A
Mills Ranch (MLR)**	EE-MLR-20140603-1.1	06/10/2014	---	---	Below MDC	Below MDC	Below MDC	569.62	N/A	N/A	N/A
Carlsbad (CBD)**	EE-CBD-20140603-1.1	06/10/2014	---	---	Below MDC	Below MDC	Below MDC	576.92	N/A	N/A	N/A
Smith Ranch (SMR)**	EE-SMR-20140603-1.1	06/10/2014	---	---	Below MDC	Below MDC	Below MDC	584.01	N/A	N/A	N/A
Southeast Control (SEC)**	EE-SEC-20140603-1.1	06/10/2014	---	---	Below MDC	Below MDC	Below MDC	573.62	N/A	N/A	N/A

## Environmental Monitoring & Hydrology Airborne Particulates Sampling

July 27, 2014

Location	Sample ID Number	Sample Date	ISOLO Spectrum Analyzer	WIPP Labs Gross α DPM	WIPP Labs Radiochemistry			Air Flow Volume (m <sup>3</sup> )	WIPP Labs Radiochemistry		
			Gross α β Preliminary/ Final DPM		Am-241 (dpm/sample)	Pu-238 (dpm/sample)	Pu-239/240 (dpm/sample)		Am-241 (Bq/m <sup>3</sup> )	Pu-238 (Bq/m <sup>3</sup> )	Pu-239/240 (Bq/m <sup>3</sup> )
Meteorology Tower Building (MET) <sup>† **</sup>	EE-MET-20140603-1.1	06/10/2014	---	---	Below MDC	Below MDC	Below MDC	565.77	N/A	N/A	N/A
Salt Hoist (SLT) <sup>† **</sup>	EE-SLT-20140603-1.1	06/10/2014	---	---	Below MDC	Below MDC	Below MDC	576.32	N/A	N/A	N/A
Southeast of Training Building (STB) <sup>† **</sup>	EE-STB-20140603-1.1	06/10/2014	---	---	Below MDC	Below MDC	Below MDC	562.46	N/A	N/A	N/A
Guard and Security Building (GSB) <sup>‡ **</sup>	EE-GSB-20140603-1.1	06/10/2014	---	---	Below MDC	Below MDC	Below MDC	575.98	N/A	N/A	N/A
Artesia (ART) <sup>§ **</sup>	EE-ART-20140603-1.1	06/10/2014	---	---	Below MDC	Below MDC	Below MDC	561.59	N/A	N/A	N/A
Eunice (EUN) <sup>§ **</sup>	EE-EUN-20140603-1.1	06/10/2014	---	---	Below MDC	Below MDC	Below MDC	561.92	N/A	N/A	N/A
Hobbs (HBS) <sup>§ **</sup>	EE-HBS-20140603-1.1	06/10/2014	---	---	Below MDC	Below MDC	Below MDC	567.57	N/A	N/A	N/A
Loving (LVG) <sup>§ **</sup>	EE-LVG-20140603-1.1	06/10/2014	---	---	Below MDC	Below MDC	Below MDC	344.69	N/A	N/A	N/A

\* Filter volumes based on an adjusted filter installation date. This date was changed from the actual filter installation date to the date of the release which occurred at 23:30 hours on February 14, 2014.

<sup>†</sup>This sampling location was initiated on March 4, 2014.

<sup>‡</sup>This sampling location was initiated on March 25, 2014.

<sup>§</sup>This sampling location was initiated on April 10, 2014.

\*\* This was an archived sample requested for analysis.

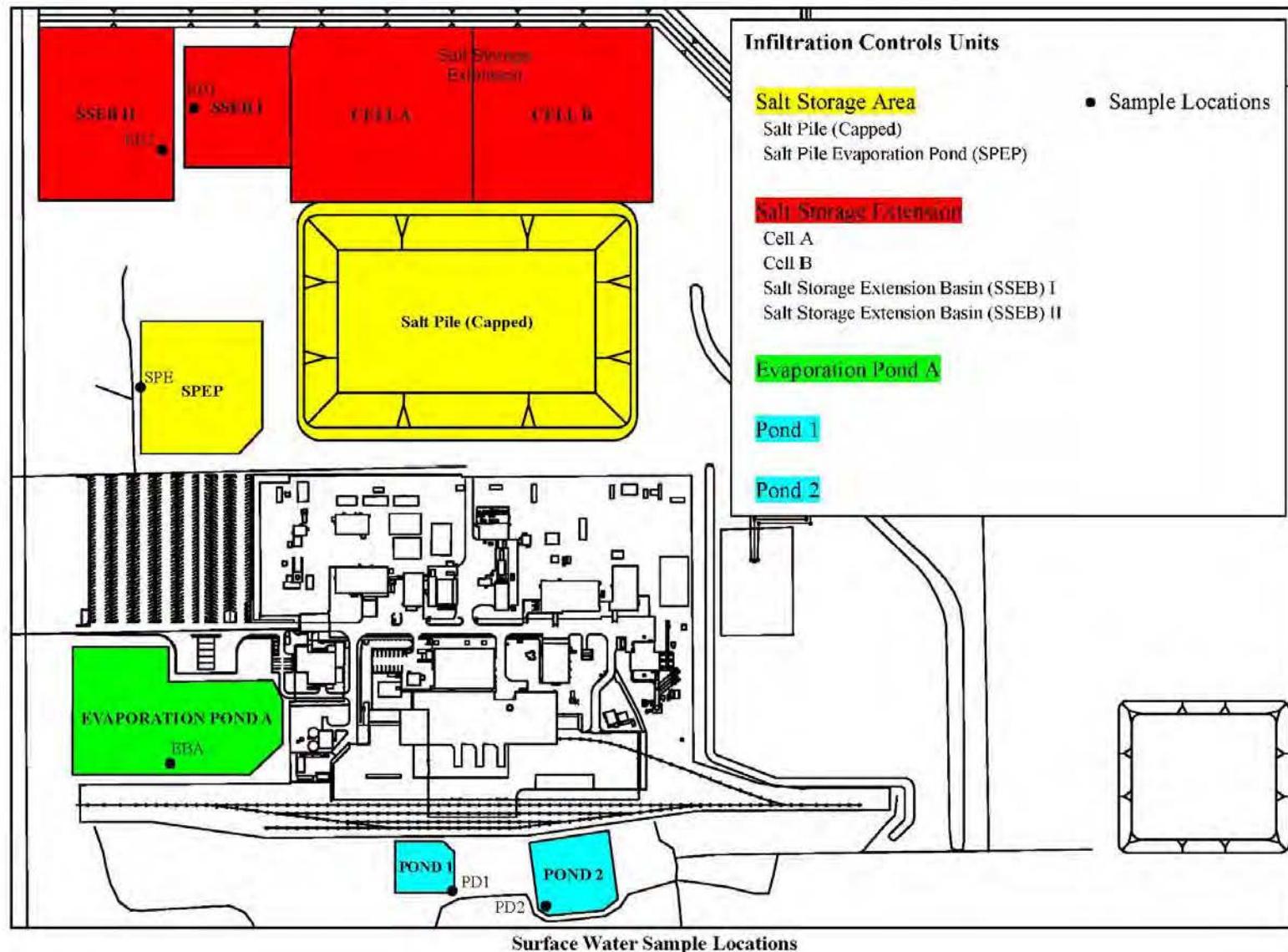
Note: Shaded cells in the table represent samples identified as a detectable concentration. Minimum detectable concentration (MDC) corresponds to the lowest concentration measurement that can be detected by the laboratory instrumentation.

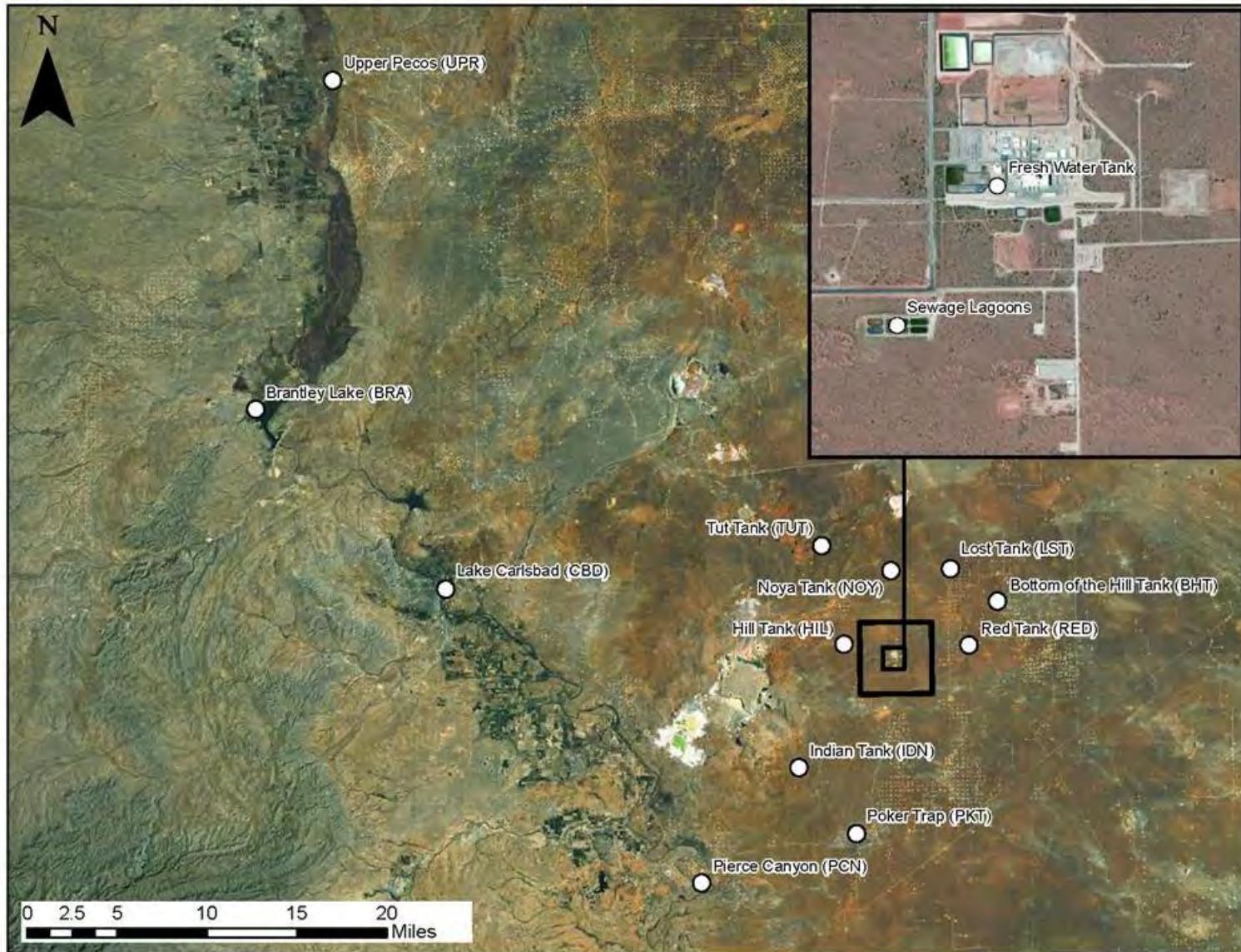
**MDC ranges are:**

MDC Am-241 (dpm/sample): 1.89E-02 to 5.05E-01

MDC Pu-238 (dpm/sample): 1.89E-02 to 1.57E+01

MDC Pu-239/240 (dpm/sample): 1.70E-02 to 5.94E-01



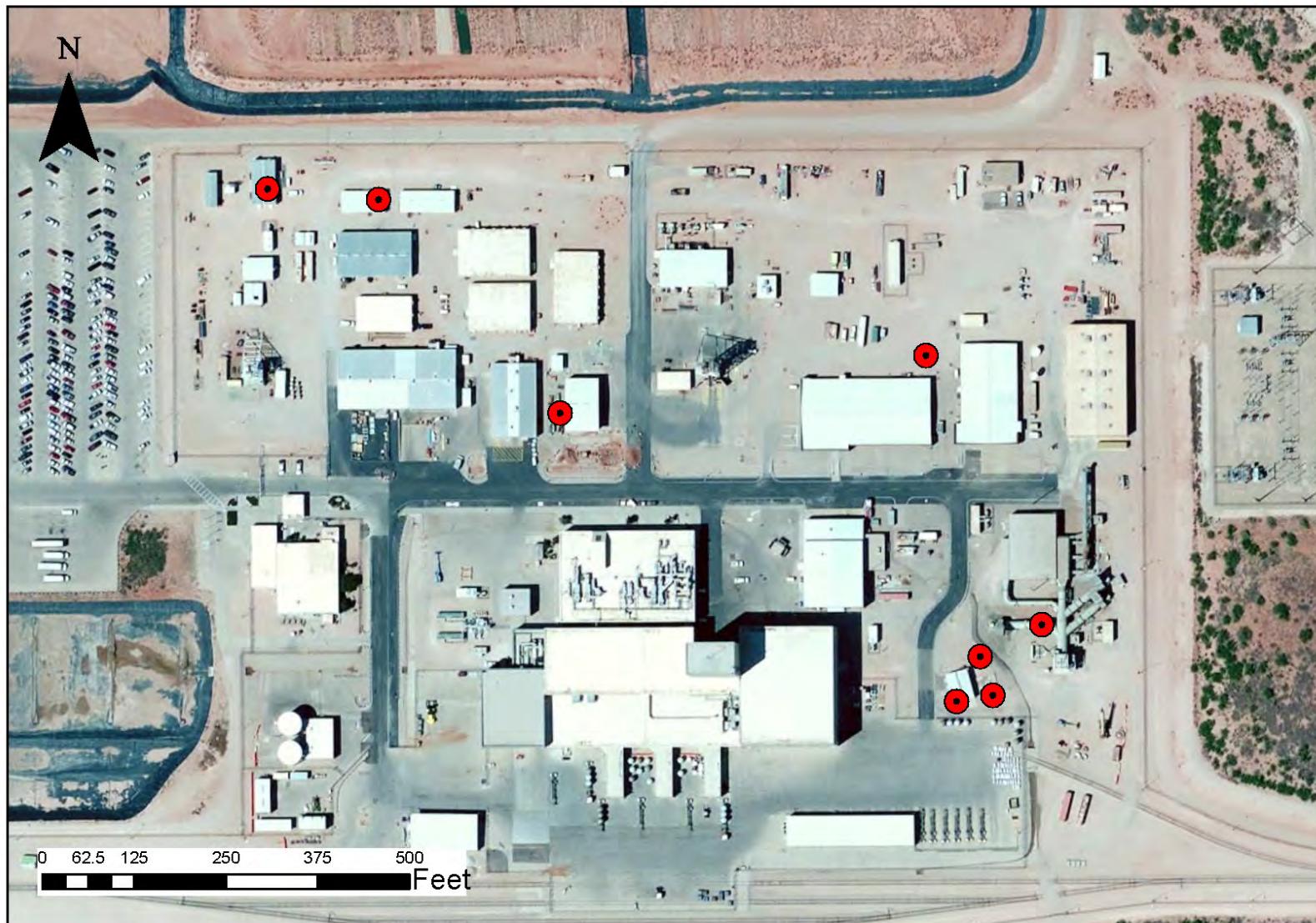


**Surface Water Sample Locations (continued)**



**Surface Water Sample Locations (continued)**

**Sample of Opportunity, July 2, 2014**



**Surface Water Sample Locations (continued)**

**Sample of Opportunity, July 3, 2014**

# Environmental Monitoring & Hydrology Surface Water Sampling

July 27, 2014

Location	Sample ID Number	Sample Date	WIPP Labs Radiochemistry		
			Am-241 (dpm/L)	Pu-238 (dpm/L)	Pu-239/240 (dpm/L)
SWIC Evaporation Basin A	WS-EBA-20140219-1.2	2/19/2014	Below MDC	Below MDC	Below MDC
SWIC Evaporation Basin A	WS-EBA-20140219-2.2	2/19/2014	Below MDC	Below MDC	Below MDC
Salt Pile Evaporation Pond	WS-SPE-20140219-1.1	2/19/2014	Below MDC	Below MDC	Below MDC
Salt Storage Extension Basin I	WS-EB1-20140219-1.1	2/19/2014	Below MDC	Below MDC	Below MDC
Salt Storage Extension Basin II	WS-EB2-20140219-1.1	2/19/2014	Below MDC	Below MDC	Below MDC
SWIC Pond 1	WS-PD1-20140219-1.1	2/19/2014	Below MDC	Below MDC	Below MDC
SWIC Pond 2	WS-PD2-20140219-1.1	2/19/2014	Below MDC	Below MDC	Below MDC
Blank	WS-BLK-20140219-1.1	2/19/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity*	WS-SOO-20140302-1.2	3/2/2014	<b>9.69E-01</b>	Below MDC	<b>7.48E-02</b>
Sample of Opportunity (Dupe)*	WS-SOO-20140302-2.2	3/2/2014	<b>3.93E-01</b>	Below MDC	Below MDC
Blank	WS-BLK-20140302-1.1	3/2/2014	Below MDC	Below MDC	Below MDC
Hill Tank	WS-HIL-20140312-1.2	3/12/2014	Below MDC	Below MDC	Below MDC
Hill Tank	WS-HIL-20140312-2.2	3/12/2014	Below MDC	Below MDC	Below MDC
Fresh Water Tank	WS-FWT-20140312-1.1	3/12/2014	Below MDC	Below MDC	Below MDC
Tut Tank	WS-TUT-20140313-1.1	3/13/2014	Below MDC	Below MDC	Below MDC
Pierce Canyon	WS-PCN-20140313-1.1	3/13/2014	Below MDC	Below MDC	Below MDC
Carlsbad	WS-CBD-20140313-1.2	3/13/2014	Below MDC	Below MDC	Below MDC
Carlsbad (Dupe)	WS-CBD-20140313-2.2	3/13/2014	Below MDC	Below MDC	Below MDC
Brantley Lake	WS-BRA-20140314-1.1	3/14/2014	Below MDC	Below MDC	Below MDC
Upper Pecos River	WS-UPR-20140314-1.1	3/14/2014	Below MDC	Below MDC	Below MDC
Coyote Well	WS-COW-20140314-1.1	3/14/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity†	WS-SOO-20140316-1.5	3/16/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity (Dupe)†	WS-SOO-20140316-2.5	3/16/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity†	WS-SOO-20140316-3.5	3/16/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity†	WS-SOO-20140316-4.5	3/16/2014	Below MDC	Below MDC	Below MDC
Blank	WS-SOO-20140316-5.5	3/16/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity*	WS-SOO-20140326-1.2	3/26/2014	<b>1.60E-01</b>	Below MDC	Below MDC
Sample of Opportunity (Dupe)*	WS-SOO-20140326-2.2	3/26/2014	<b>9.07E-02</b>	Below MDC	Below MDC
Blank	WS-BLK-20140326-1.1	3/26/2014	Below MDC	Below MDC	Below MDC
Sewage Lagoons	WS-SWL-20140416-1.1	4/16/2014	Below MDC	Below MDC	Below MDC
SWIC Pond 1	WS-PD1-20140423-1.1	4/23/2014	Below MDC	Below MDC	Below MDC
SWIC Pond 2	WS-PD2-20140423-1.2	4/23/2014	Below MDC	Below MDC	Below MDC
SWIC Pond 2	WS-PD2-20140423-2.2	4/23/2014	Below MDC	Below MDC	Below MDC
SWIC Evaporation Basin A	WS-EBA-20140423-1.1	4/23/2014	Below MDC	Below MDC	Below MDC
Blank	WS-BLK-20140423-1.1	4/23/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity†	WS-SOO-20140524-1.2	5/24/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity (Dupe)†	WS-SOO-20140524-2.2	5/24/2014	Below MDC	Below MDC	Below MDC
Blank	WS-BLK-20140528-1.1	5/28/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity†	WS-SOO-20140609-1.6	6/9/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity†	WS-SOO-20140609-2.6	6/9/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity†	WS-SOO-20140609-3.6	6/9/2014	Below MDC	Below MDC	Below MDC

# Environmental Monitoring & Hydrology Surface Water Sampling

July 27, 2014

Location	Sample ID Number	Sample Date	WIPP Labs Radiochemistry		
			Am-241 (dpm/L)	Pu-238 (dpm/L)	Pu-239/240 (dpm/L)
Sample of Opportunity (Dupe) <sup>†</sup>	WS-SOO-20140609-4.6	6/9/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity <sup>†</sup>	WS-SOO-20140609-5.6	6/9/2014	Below MDC	Below MDC	Below MDC
Blank	WS-SOO-20140609-6.6	6/9/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity <sup>†</sup>	WS-SOO-20140702-1.6	7/2/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity (Dupe) <sup>†</sup>	WS-SOO-20140702-2.6	7/2/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity <sup>†</sup>	WS-SOO-20140702-3.6	7/2/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity <sup>†</sup>	WS-SOO-20140702-4.6	7/2/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity <sup>†</sup>	WS-SOO-20140702-5.6	7/2/2014	Below MDC	Below MDC	Below MDC
Blank	WS-BLK-20140702-6.6	7/2/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity <sup>†</sup>	WS-SOO-20140703-1.8	7/3/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity <sup>†</sup>	WS-SOO-20140703-2.8	7/3/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity <sup>†</sup>	WS-SOO-20140703-3.8	7/3/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity <sup>†</sup>	WS-SOO-20140703-4.8	7/3/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity <sup>†</sup>	WS-SOO-20140703-5.8	7/3/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity <sup>†</sup>	WS-SOO-20140703-6.8	7/3/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity (Dupe) <sup>†</sup>	WS-SOO-20140703-7.8	7/3/2014	Below MDC	Below MDC	Below MDC
Blank	WS-BLK-20140703-8.8	7/3/2014	Below MDC	Below MDC	Below MDC

\* These samples were collected during a rain event. The samples were taken from the 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.

<sup>†</sup> These samples were collected during an opportunistic rain event. The samples were taken from the WIPP site building roof top and roadway drainage.

Note: Shaded cells in the table represent samples identified as a detectable concentration. Sediment sample locations are co-located with off-site surface water sample locations. Surface water samples are collected when water is available.

**MDC ranges are:**

MDC Am-241 (dpm/L): 4.34E-02 to 7.78E-02

MDC Pu-238 (dpm/L): 3.28E-02 to 6.69E-02

MDC Pu-239/240 (dpm/L): 3.01E-02 to 5.92E-02

# Environmental Monitoring & Hydrology Sediment Sampling

July 27, 2014

Location	Sample ID Number	Sample Date	WIPP Labs Radiochemistry		
			Am-241 (dpm/g)	Pu-238 (dpm/g)	Pu-239/240 (dpm/g)
Red Tank	SB-RED-20140312-1.1	3/12/2014	Below MDC	Below MDC	Below MDC
Bottom of the Hill Tank	SB-BHT-20140312-1.1	3/12/2014	Below MDC	Below MDC	Below MDC
Noya Tank	SB-NOY-20140312-1.1	3/12/2014	Below MDC	Below MDC	Below MDC
Hill Tank	SB-HIL-20140312-1.2	3/12/2014	Below MDC	Below MDC	Below MDC
Hill Tank	SB-HIL-20140312-2.2	3/12/2014	Below MDC	Below MDC	Below MDC
Lost Tank	SB-LST-20140312-1.1	3/12/2014	Below MDC	Below MDC	Below MDC
Tut Tank	SB-TUT-20140313-1.1	3/13/2014	Below MDC	Below MDC	Below MDC
Pierce Canyon	SB-PCN-20140313-1.1	3/13/2014	Below MDC	Below MDC	Below MDC
Carlsbad	SB-CBD-20140313-1.2	3/13/2014	Below MDC	Below MDC	Below MDC
Carlsbad	SB-CBD-20140313-2.2	3/13/2014	Below MDC	Below MDC	Below MDC
Poker Trap	SB-PKT-20140313-1.1	3/13/2014	Below MDC	Below MDC	Below MDC
Indian Tank	SB-IND-20140313-1.1	3/13/2014	Below MDC	Below MDC	Below MDC
Brantley	SB-BRA-20140314-1.1	3/14/2014	Below MDC	Below MDC	Below MDC
Upper Pecos River	SB-UPR-20140314-1.1	3/14/2014	Below MDC	Below MDC	Below MDC

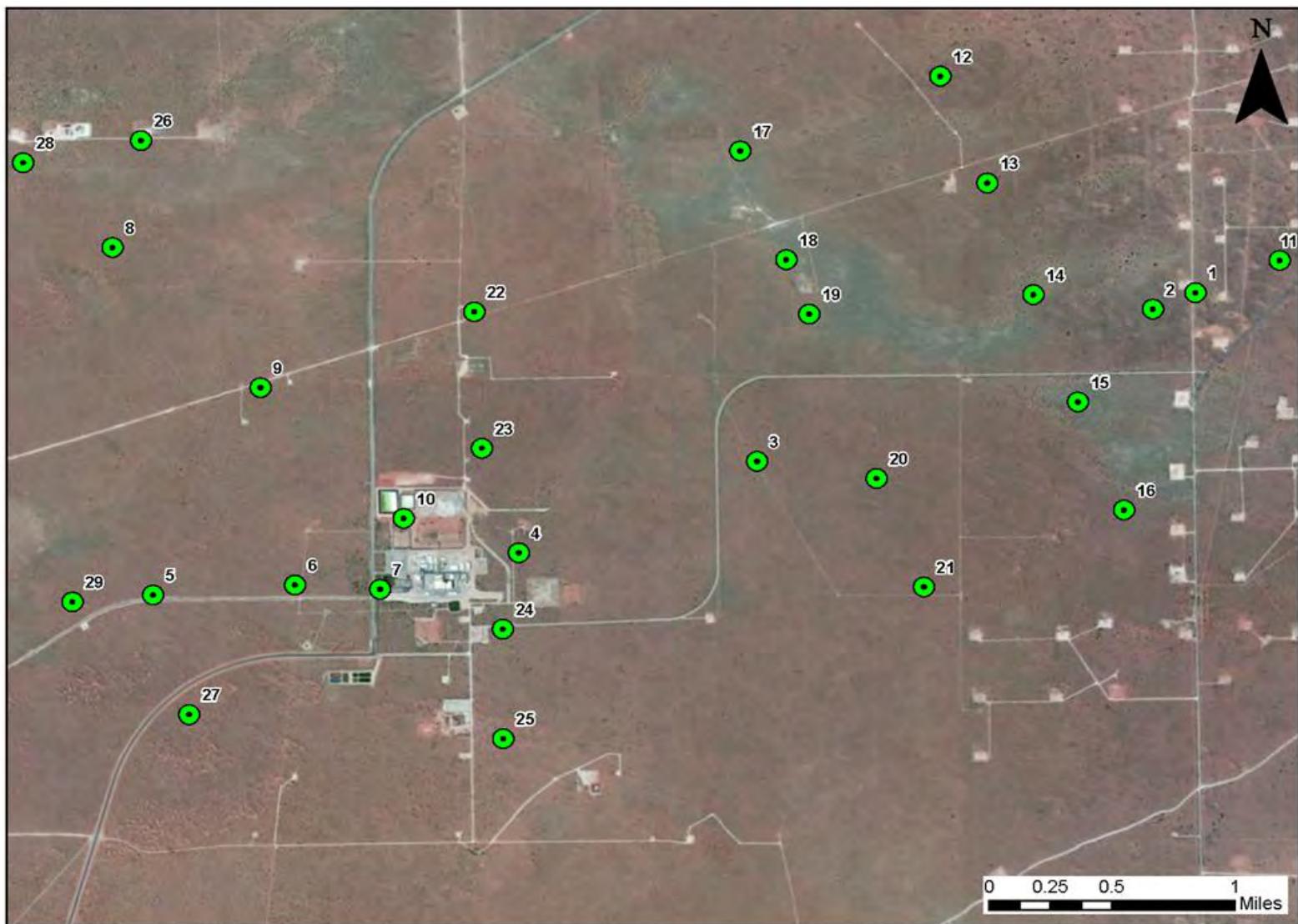
Note: Sediment sample locations are co-located with off-site surface water sample locations. Surface water samples are collected when water is available.

**MDC ranges are:**

MDC Am-241 (dpm/g): 3.11E-02 to 4.42E-02

MDC Pu-238 (dpm/g): 1.63E-02 to 3.26E-02

MDC Pu-239/240 (dpm/g): 3.12E-02 to 3.66E-02



Soil and Biota - Vegetation GPS Sample Locations

# Environmental Monitoring & Hydrology Biota Sampling - Fauna

July 27, 2014

Tissue Type/Location	Sample ID Number	Sample Date	WIPP Labs Radiochemistry		
			Am-241 (dpm/g)	Pu-238 (dpm/g)	Pu-239/240 (dpm/g)
Biotic Quail/WIPP East	BQ-WEE-20140325-1.1	3/25/2014	Below MDC	Below MDC	Below MDC

**MDCs are:**

MDC Am-241 (dpm/g): 2.41E-02

MDC Pu-238 (dpm/g): 1.68E-02

MDC Pu-239/240 (dpm/g): 8.63E-03

# Environmental Monitoring & Hydrology Biota Sampling - Vegetation

July 27, 2014

Location	Sample ID Number	Sample Date	WIPP Labs Radiochemistry		
			Am-241 (dpm/g)	Pu-238 (dpm/g)	Pu-239/240 (dpm/g)
WIPP Far Field	BV-WFF-20140221-1.2	2/21/2014	Below MDC	Below MDC	Below MDC
WIPP Far Field (Duplicate)	BV-WFF-20140221-2.2	2/21/2014	Below MDC	Below MDC	Below MDC
WIPP East	BV-WEE-20140221-1.1	2/21/2014	Below MDC	Below MDC	Below MDC
WIPP South	BV-WSS-20140222-1.1	2/22/2014	Below MDC	Below MDC	Below MDC
Smith Ranch	BV-SMR-20140222-1.1	2/22/2014	Below MDC	Below MDC	Below MDC
Mills Ranch	BV-MLR-20140222-1.1	2/22/2014	Below MDC	Below MDC	Below MDC
Southeast Control	BV-SEC-20140222-1.1	2/22/2014	Below MDC	Below MDC	Below MDC
GPS Location 1*	BV-SOO-20140319-1.1	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 2*	BV-SOO-20140319-1.2	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 3*	BV-SOO-20140319-1.3	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 4*	BV-SOO-20140319-1.4	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 5*	BV-SOO-20140321-1.5	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 6*	BV-SOO-20140321-1.6	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 7*	BV-SOO-20140320-1.7	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 8*	BV-SOO-20140321-1.8	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 9*	BV-SOO-20140320-1.9	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 10*	BV-SOO-20140319-1.10	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 11*	BV-SOO-20140319-1.11	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 12*	BV-SOO-20140319-1.12	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 13*	BV-SOO-20140319-1.13	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 14*	BV-SOO-20140319-1.14	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 15*	BV-SOO-20140319-1.15	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 16*	BV-SOO-20140319-1.16	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 17*	BV-SOO-20140320-1.17	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 18*	BV-SOO-20140320-1.18	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 19*	BV-SOO-20140320-1.19	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 20*	BV-SOO-20140319-1.20	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 21*	BV-SOO-20140319-1.21	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 22*	BV-SOO-20140320-1.22	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 23*	BV-SOO-20140320-1.23	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 24*	BV-SOO-20140319-1.24	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 25*	BV-SOO-20140319-1.25	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 26*	BV-SOO-20140321-1.26	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 27*	BV-SOO-20140320-1.27	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 28*	BV-SOO-20140321-1.28	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 29*	BV-SOO-20140321-1.29	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 10 (Duplicate)*	BV-SOO-20140319-2.10	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 18 (Duplicate)*	BV-SOO-20140320-2.18	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 6 (Duplicate)*	BV-SOO-20140321-2.6	3/21/2014	Below MDC	Below MDC	Below MDC

\* These sampling sites are being accounted for via GPS location identifiers and field stakes.

## Environmental Monitoring & Hydrology Biota Sampling - Vegetation

July 27, 2014

Location	Sample ID Number	Sample Date	WIPP Labs Radiochemistry		
			Am-241 (dpm/g)	Pu-238 (dpm/g)	Pu-239/240 (dpm/g)

Note: Vegetation samples were collected adjacent to air sampling locations.

**MDC ranges are:**

MDC Am-241 (dpm/g): 2.32E-02 to 3.38E-02

MDC Pu-238 (dpm/g): 1.68E-02 to 2.17E-02

MDC Pu-239/240 (dpm/g): 1.04E-02 to 2.88E-02

# Environmental Monitoring & Hydrology Soil Sampling

July 27, 2014

Location/Depth	Sample ID Number	Sample Date	WIPP Labs Radiochemistry		
			Am-241 (dpm/g)	Pu-238 (dpm/g)	Pu-239/240 (dpm/g)
WIPP Far Field Surface Sample (0-2 cm)	SS-WFF-20140213-1.1	2/13/2014	Below MDC	Below MDC	Below MDC
WIPP Far Field Intermediate Sample (2-5 cm)	SI-WFF-20140213-1.1	2/13/2014	Below MDC	Below MDC	Below MDC
WIPP Far Field Deep Sample (5-10 cm)	SD-WFF-20140213-1.1	2/13/2014	Below MDC	Below MDC	Below MDC
WIPP East Surface Sample (0-2 cm)	SS-WEE-20140213-1.1	2/13/2014	Below MDC	Below MDC	Below MDC
WIPP East Intermediate Sample (2-5 cm)	SI-WEE-20140213-1.1	2/13/2014	Below MDC	Below MDC	Below MDC
WIPP East Deep Sample (5-10 cm)	SD-WEE-20140213-1.1	2/13/2014	Below MDC	Below MDC	Below MDC
WIPP South Surface Sample (0-2 cm)	SS-WSS-20140214-1.1	2/14/2014	Below MDC	Below MDC	Below MDC
WIPP South Intermediate Sample (2-5 cm)	SI-WSS-20140214-1.1	2/14/2014	Below MDC	Below MDC	Below MDC
WIPP South Deep Sample (5-10 cm)	SD-WSS-20140214-1.1	2/14/2014	Below MDC	Below MDC	Below MDC
WIPP Far Field Surface Sample (0-2 cm)	SS-WFF-20140217-1.2	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP Far Field Intermediate Sample (2-5 cm)	SI-WFF-20140217-1.2	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP Far Field Deep Sample (5-10 cm)	SD-WFF-20140217-1.2	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP Far Field Surface Sample (0-2 cm)	SS-WFF-20140217-2.2	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP Far Field Intermediate Sample (2-5 cm)	SI-WFF-20140217-2.2	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP Far Field Deep Sample (5-10 cm)	SD-WFF-20140217-2.2	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP East Surface Sample (0-2 cm)	SS-WEE-20140217-1.1	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP East Intermediate Sample (2-5 cm)	SI-WEE-20140217-1.1	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP East Deep Sample (5-10 cm)	SD-WEE-20140217-1.1	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP South Surface Sample (0-2 cm)	SS-WSS-20140217-1.1	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP South Intermediate Sample (2-5 cm)	SI-WSS-20140217-1.1	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP South Deep Sample (5-10 cm)	SD-WSS-20140217-1.1	2/17/2014	Below MDC	Below MDC	Below MDC
Mills Ranch Surface Sample (0-2 cm)*	SS-MLR-20140220-1.1	2/20/2014	Below MDC	Below MDC	<b>4.06E-02</b>
Mills Ranch Intermediate Sample (2-5 cm)	SI-MLR-20140220-1.1	2/20/2014	Below MDC	Below MDC	Below MDC
Mills Ranch Deep Sample (5-10 cm)	SD-MLR-20140220-1.1	2/20/2014	Below MDC	Below MDC	Below MDC
Smith Ranch Surface Sample (0-2 cm)	SS-SMR-20140220-1.1	2/20/2014	Below MDC	Below MDC	Below MDC
Smith Ranch Intermediate Sample (2-5 cm)	SI-SMR-20140220-1.1	2/20/2014	Below MDC	Below MDC	Below MDC
Smith Ranch Deep Sample (5-10 cm)	SD-SMR-20140220-1.1	2/20/2014	Below MDC	Below MDC	Below MDC
Southeast Control Surface Sample (0-2 cm)	SS-SEC-20140220-1.2	2/20/2014	Below MDC	Below MDC	Below MDC
Southeast Control Intermediate Sample (2-5 cm)	SI-SEC-20140220-1.2	2/20/2014	Below MDC	Below MDC	Below MDC
Southeast Control Deep Sample (5-10 cm)	SD-SEC-20140220-1.2	2/20/2014	Below MDC	Below MDC	Below MDC
Southeast Control Surface Sample (0-2 cm)	SS-SEC-20140220-2.2	2/20/2014	Below MDC	Below MDC	Below MDC
Southeast Control Intermediate Sample (2-5 cm)	SI-SEC-20140220-2.2	2/20/2014	Below MDC	Below MDC	Below MDC
Southeast Control Deep Sample (5-10 cm)	SD-SEC-20140220-2.2	2/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 1 (0-2 cm) <sup>†</sup>	SS-SOO-20140319-1.1	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 2 (0-2 cm) <sup>†</sup>	SS-SOO-20140319-1.2	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 3 (0-2 cm) <sup>†</sup>	SS-SOO-20140319-1.3	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 4 (0-2 cm) <sup>†</sup>	SS-SOO-20140319-1.4	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 5 (0-2 cm) <sup>†</sup>	SS-SOO-20140321-1.5	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 6 (0-2 cm) <sup>†</sup>	SS-SOO-20140321-1.6	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 7 (0-2 cm) <sup>†</sup>	SS-SOO-20140320-1.7	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 8 (0-2 cm) <sup>†</sup>	SS-SOO-20140321-1.8	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 9 (0-2 cm) <sup>†</sup>	SS-SOO-20140320-1.9	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 10 (0-2 cm) <sup>†</sup>	SS-SOO-20140319-1.10	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 11 (0-2 cm) <sup>†</sup>	SS-SOO-20140319-1.11	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 12 (0-2 cm) <sup>†</sup>	SS-SOO-20140319-1.12	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 13 (0-2 cm) <sup>†</sup>	SS-SOO-20140319-1.13	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 14 (0-2 cm) <sup>†</sup>	SS-SOO-20140319-1.14	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 15 (0-2 cm) <sup>†</sup>	SS-SOO-20140319-1.15	3/19/2014	Below MDC	Below MDC	Below MDC

## Environmental Monitoring & Hydrology Soil Sampling

July 27, 2014

Location/Depth	Sample ID Number	Sample Date	WIPP Labs Radiochemistry		
			Am-241 (dpm/g)	Pu-238 (dpm/g)	Pu-239/240 (dpm/g)
GPS Location 16 (0-2 cm) <sup>†</sup>	SS-SOO-20140319-1.16	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 17 (0-2 cm) <sup>†</sup>	SS-SOO-20140320-1.17	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 18 (0-2 cm) <sup>†</sup>	SS-SOO-20140320-1.18	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 19 (0-2 cm) <sup>†</sup>	SS-SOO-20140320-1.19	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 20 (0-2 cm) <sup>†</sup>	SS-SOO-20140319-1.20	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 21 (0-2 cm) <sup>†</sup>	SS-SOO-20140319-1.21	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 22 (0-2 cm) <sup>†</sup>	SS-SOO-20140320-1.22	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 23 (0-2 cm) <sup>†</sup>	SS-SOO-20140320-1.23	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 24 (0-2 cm) <sup>†</sup>	SS-SOO-20140319-1.24	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 25 (0-2 cm) <sup>†</sup>	SS-SOO-20140319-1.25	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 26 (0-2 cm) <sup>†</sup>	SS-SOO-20140321-1.26	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 27 (0-2 cm) <sup>†</sup>	SS-SOO-20140320-1.27	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 28 (0-2 cm) <sup>†</sup>	SS-SOO-20140321-1.28	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 29 (0-2 cm) <sup>†</sup>	SS-SOO-20140321-1.29	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 10 (0-2 cm) (Duplicate) <sup>†</sup>	SS-SOO-20140319-2.10	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 18 (0-2 cm) (Duplicate) <sup>†</sup>	SS-SOO-20140320-2.18	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 6 (0-2 cm) (Duplicate) <sup>†</sup>	SS-SOO-20140321-2.6	3/21/2014	Below MDC	Below MDC	Below MDC
Mills Ranch Surface Sample (0-2 cm)	SS-MLR-20140515-1.2	5/15/2014	Below MDC	Below MDC	Below MDC
Mills Ranch Surface Sample (0-2 cm) (Duplicate) <sup>‡</sup>	SS-MLR-20140515-2.2	5/15/2014	Below MDC	Below MDC	<b>2.38E-02</b>
GPS Location 27 (0-2 cm) <sup>†</sup>	SS-SOO-20140613-1.4	6/13/2014	Below MDC	Below MDC	Below MDC
GPS Location 29 (0-2 cm) <sup>†</sup>	SS-SOO-20140613-2.4	6/13/2014	Below MDC	Below MDC	Below MDC
H-7 Pad (0-2 cm)	SS-SOO-20140613-3.4	6/13/2014	Below MDC	Below MDC	Below MDC
H-7 Pad (0-2 cm) (Duplicate)	SS-SOO-20140613-4.4	6/13/2014	Below MDC	Below MDC	Below MDC

\* The detection in this sample is within the range of historical results for this location. Value updated as a result of reanalysis by the analytical laboratory.

<sup>†</sup> These sampling sites are being accounted for via GPS location identifiers and field stakes.

<sup>‡</sup> The detection in this sample is within the range of historical results for this location.

Note: Shaded cells in the table represent samples identified as a detectable concentration. Radionuclides are considered detected in an environmental sample if the measured concentration or activity is greater than the MDC and greater than the total propagated uncertainty (TPU) at the 2 sigma ( $\sigma$ ) TPU level. To show a non-detect, "Below MDC" is used in the Table. The MDC is the lowest concentration measurement that can be detected by laboratory instrumentation; the TPU is an estimate of uncertainty in the measurement from all sources.

**MDC ranges are:**

MDC Am-241 (dpm/g): 2.62E-02 to 4.12E-02

MDC Pu-238 (dpm/g): 1.61E-02 to 2.71E-02

MDC Pu-239/240 (dpm/g): 3.17E-03 to 3.56E-02

## Site Environmental Compliance Salt Pile Sampling

July 27, 2014

Location	Sample ID Number	Sample Date	WIPP Labs Radiochemistry		
			Am-241 (dpm/g)	Pu-238 (dpm/g)	Pu-239/240 (dpm/g)
South Face of Salt Pile	WST-14-012	3/13/2014	Below MDC	Below MDC	Below MDC
East Face of Salt Pile	WST-14-013	3/13/2014	Below MDC	Below MDC	Below MDC
West Face of Salt Pile	WST-14-014	3/13/2014	Below MDC	Below MDC	Below MDC
South Ridge of Salt Pile, South of Salt Pile	WST-14-015	3/13/2014	Below MDC	Below MDC	Below MDC
North Ridge of Salt Pile, North of Salt Pile	WST-14-016	3/13/2014	Below MDC	Below MDC	Below MDC
South Face of Salt Pile (Duplicate)	WST-14-017	3/13/2014	Below MDC	Below MDC	Below MDC

Samples collected at the salt pile per procedure WP 02-EC1001.

**MDC ranges are:**

MDC Am-241 (dpm/g): 4.17E-02 to 5.03E-02

MDC Pu-238 (dpm/g): 2.84E-02 to 4.38E-02

MDC Pu-239/240 (dpm/g): 2.18E-02 to 2.43E-02

## **Attachment 5**

## **Filter Differential Pressures**

## Preliminary Data from Central Monitoring System

Date and Time	Filter Bank 41-B-856 (in wg*)				Filter Bank 41-B-857 (in wg*)			
	MOD	HIGH	HEPA 1	HEPA 2	MOD	HIGH	HEPA 1	HEPA 2
7/14/2014 0:00	0.26	0.43	1.21	1.20	0.22	0.36	1.31	1.24
7/14/2014 0:30	0.25	0.43	1.19	1.19	0.22	0.36	1.30	1.23
7/14/2014 1:00	0.25	0.43	1.21	1.20	0.22	0.36	1.31	1.23
7/14/2014 1:30	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/14/2014 2:00	0.26	0.43	1.22	1.20	0.22	0.36	1.31	1.23
7/14/2014 2:30	0.26	0.43	1.21	1.21	0.22	0.36	1.31	1.24
7/14/2014 3:00	0.26	0.43	1.21	1.20	0.22	0.36	1.31	1.24
7/14/2014 3:30	0.26	0.43	1.20	1.19	0.23	0.36	1.31	1.24
7/14/2014 4:00	0.26	0.43	1.21	1.21	0.22	0.36	1.31	1.24
7/14/2014 4:30	0.26	0.43	1.21	1.21	0.22	0.36	1.31	1.25
7/14/2014 5:00	0.26	0.43	1.21	1.21	0.22	0.36	1.31	1.24
7/14/2014 5:30	0.26	0.43	1.21	1.20	0.22	0.36	1.31	1.25
7/14/2014 6:00	0.26	0.43	1.22	1.21	0.22	0.36	1.32	1.25
7/14/2014 6:30	0.26	0.43	1.22	1.21	0.22	0.36	1.32	1.25
7/14/2014 7:00	0.26	0.43	1.22	1.21	0.22	0.36	1.32	1.25
7/14/2014 7:30	0.26	0.43	1.21	1.19	0.23	0.36	1.31	1.24
7/14/2014 8:00	0.25	0.43	1.20	1.19	0.22	0.36	1.31	1.23
7/14/2014 8:30	0.25	0.43	1.20	1.19	0.22	0.36	1.30	1.23
7/14/2014 9:00	0.25	0.43	1.20	1.19	0.22	0.36	1.30	1.22
7/14/2014 9:30	0.25	0.43	1.20	1.18	0.22	0.36	1.30	1.22
7/14/2014 10:00	0.25	0.43	1.19	1.18	0.22	0.36	1.29	1.23
7/14/2014 10:30	0.12	0.42	1.19	1.18	0.22	0.36	1.29	1.22
7/14/2014 11:00	0.00	0.42	1.19	1.17	0.22	0.36	1.29	1.22
7/14/2014 11:30	0.00	0.42	1.19	1.18	0.21	0.36	1.28	1.22
7/14/2014 12:00	0.00	0.42	1.19	1.18	0.21	0.36	1.28	1.21
7/14/2014 12:30	0.74	0.41	1.19	1.18	0.21	0.36	1.28	1.21
7/14/2014 13:00	0.26	0.81	1.32	1.95	0.22	0.36	1.28	1.22
7/14/2014 13:30	0.26	0.41	1.19	2.56	0.22	0.36	1.29	1.22
7/14/2014 14:00	0.26	0.41	1.18	2.51	0.21	0.36	1.29	1.22
7/14/2014 14:30	0.26	0.41	1.18	1.15	0.21	0.36	1.28	1.21
7/14/2014 15:00	0.26	0.41	1.18	1.17	0.21	0.36	1.28	1.22
7/14/2014 15:30	0.26	0.41	1.18	1.17	0.21	0.36	1.28	1.22
7/14/2014 16:00	0.26	0.41	1.18	1.17	0.22	0.36	1.28	1.21
7/14/2014 16:30	0.25	0.41	1.18	1.17	0.21	0.36	1.28	1.21
7/14/2014 17:00	0.26	0.41	1.18	1.17	0.21	0.36	1.28	1.22
7/14/2014 17:30	0.26	0.41	1.18	1.17	0.21	0.36	1.28	1.21
7/14/2014 18:00	0.26	0.41	1.18	1.17	0.22	0.36	1.29	1.22
7/14/2014 18:30	0.26	0.41	1.18	1.18	0.21	0.36	1.28	1.22
7/14/2014 19:00	0.26	0.41	1.18	1.18	0.21	0.36	1.28	1.21
7/14/2014 19:30	0.26	0.41	1.19	1.17	0.21	0.36	1.28	1.22
7/14/2014 20:00	0.26	0.41	1.19	1.17	0.21	0.36	1.28	1.22
7/14/2014 20:30	0.26	0.41	1.18	1.18	0.22	0.36	1.28	1.22
7/14/2014 21:00	0.26	0.41	1.18	1.18	0.22	0.36	1.28	1.22
7/14/2014 21:30	0.26	0.41	1.18	1.18	0.21	0.36	1.28	1.22
7/14/2014 22:00	0.26	0.41	1.18	1.17	0.21	0.36	1.28	1.22
7/14/2014 22:30	0.26	0.41	1.19	1.18	0.21	0.36	1.28	1.21
7/14/2014 23:00	0.25	0.42	1.18	1.18	0.21	0.36	1.28	1.21
7/14/2014 23:30	0.26	0.42	1.19	1.18	0.21	0.36	1.29	1.22
7/15/2014 0:00	0.27	0.42	1.20	1.18	0.22	0.36	1.30	1.23
7/15/2014 0:30	0.26	0.42	1.20	1.19	0.22	0.36	1.30	1.23
7/15/2014 1:00	0.27	0.42	1.20	1.19	0.22	0.36	1.30	1.23
7/15/2014 1:30	0.27	0.42	1.20	1.19	0.22	0.36	1.31	1.23
7/15/2014 2:00	0.26	0.42	1.20	1.19	0.22	0.36	1.30	1.23
7/15/2014 2:30	0.26	0.42	1.20	1.19	0.22	0.36	1.30	1.23
7/15/2014 3:00	0.26	0.42	1.21	1.19	0.22	0.36	1.30	1.24
7/15/2014 3:30	0.26	0.42	1.20	1.18	0.22	0.36	1.30	1.23

## Preliminary Data from Central Monitoring System

Date and Time	Filter Bank 41-B-856 (in wg*)				Filter Bank 41-B-857 (in wg*)			
	MOD	HIGH	HEPA 1	HEPA 2	MOD	HIGH	HEPA 1	HEPA 2
7/15/2014 4:00	0.26	0.42	1.20	1.19	0.23	0.36	1.30	1.23
7/15/2014 4:30	0.26	0.42	1.20	1.19	0.22	0.36	1.30	1.23
7/15/2014 5:00	0.26	0.42	1.20	1.18	0.22	0.36	1.30	1.23
7/15/2014 5:30	0.26	0.42	1.21	1.19	0.22	0.36	1.30	1.24
7/15/2014 6:00	0.27	0.42	1.21	1.19	0.22	0.36	1.31	1.24
7/15/2014 6:30	0.26	0.42	1.21	1.19	0.22	0.36	1.30	1.24
7/15/2014 7:00	0.26	0.42	1.20	1.19	0.23	0.36	1.30	1.23
7/15/2014 7:30	0.27	0.42	1.21	1.19	0.22	0.36	1.30	1.23
7/15/2014 8:00	0.26	0.42	1.20	1.19	0.22	0.36	1.30	1.23
7/15/2014 8:30	0.26	0.42	1.21	1.19	0.22	0.36	1.31	1.24
7/15/2014 9:00	0.27	0.42	1.20	1.19	0.22	0.36	1.31	1.24
7/15/2014 9:30	0.26	0.42	1.20	1.19	0.22	0.36	1.30	1.23
7/15/2014 10:00	0.26	0.42	1.20	1.19	0.22	0.36	1.30	1.23
7/15/2014 10:30	0.26	0.42	1.20	1.19	0.22	0.36	1.30	1.23
7/15/2014 11:00	0.26	0.42	1.20	1.18	0.22	0.36	1.30	1.23
7/15/2014 11:30	0.27	0.42	1.20	1.18	0.22	0.36	1.30	1.23
7/15/2014 12:00	0.26	0.43	1.20	1.18	0.22	0.36	1.29	1.23
7/15/2014 12:30	0.25	0.43	1.19	1.18	0.22	0.36	1.29	1.23
7/15/2014 13:00	0.26	0.43	1.19	1.18	0.22	0.36	1.29	1.23
7/15/2014 13:30	0.26	0.43	1.18	1.18	0.21	0.36	1.29	1.23
7/15/2014 14:00	0.26	0.43	1.19	1.18	0.22	0.36	1.29	1.22
7/15/2014 14:30	0.25	0.43	1.18	1.17	0.22	0.36	1.29	1.22
7/15/2014 15:00	0.26	0.43	1.19	1.18	0.21	0.36	1.28	1.22
7/15/2014 15:30	0.26	0.43	1.19	1.18	0.22	0.36	1.28	1.22
7/15/2014 16:00	0.26	0.43	1.19	1.18	0.21	0.36	1.29	1.22
7/15/2014 16:30	0.26	0.43	1.19	1.18	0.21	0.36	1.29	1.22
7/15/2014 17:00	0.26	0.43	1.19	1.18	0.21	0.36	1.29	1.22
7/15/2014 17:30	0.26	0.43	1.19	1.18	0.21	0.36	1.29	1.22
7/15/2014 18:00	0.26	0.43	1.20	1.17	0.21	0.36	1.29	1.22
7/15/2014 18:30	0.26	0.43	1.19	1.18	0.22	0.36	1.29	1.22
7/15/2014 19:00	0.26	0.43	1.19	1.18	0.22	0.36	1.29	1.22
7/15/2014 19:30	0.26	0.43	1.19	1.18	0.22	0.36	1.29	1.22
7/15/2014 20:00	0.26	0.43	1.19	1.18	0.22	0.36	1.29	1.23
7/15/2014 20:30	0.26	0.43	1.19	1.18	0.22	0.36	1.29	1.22
7/15/2014 21:00	0.26	0.43	1.19	1.18	0.22	0.36	1.29	1.23
7/15/2014 21:30	0.26	0.43	1.20	1.19	0.22	0.36	1.29	1.23
7/15/2014 22:00	0.26	0.43	1.20	1.18	0.22	0.36	1.30	1.23
7/15/2014 22:30	0.26	0.43	1.20	1.18	0.22	0.36	1.30	1.23
7/15/2014 23:00	0.27	0.43	1.20	1.18	0.22	0.36	1.30	1.23
7/15/2014 23:30	0.26	0.43	1.20	1.18	0.22	0.36	1.30	1.23
7/16/2014 0:00	0.26	0.43	1.20	1.18	0.22	0.36	1.30	1.23
7/16/2014 0:30	0.26	0.43	1.20	1.18	0.22	0.36	1.30	1.23
7/16/2014 1:00	0.26	0.43	1.20	1.19	0.22	0.36	1.29	1.23
7/16/2014 1:30	0.26	0.43	1.20	1.19	0.22	0.36	1.30	1.23
7/16/2014 2:00	0.26	0.43	1.20	1.18	0.22	0.36	1.30	1.23
7/16/2014 2:30	0.27	0.43	1.20	1.18	0.22	0.36	1.30	1.23
7/16/2014 3:00	0.26	0.43	1.20	1.18	0.22	0.36	1.30	1.23
7/16/2014 3:30	0.27	0.43	1.20	1.19	0.22	0.36	1.30	1.23
7/16/2014 4:00	0.26	0.43	1.20	1.18	0.22	0.36	1.30	1.23
7/16/2014 4:30	0.27	0.43	1.20	1.18	0.22	0.36	1.30	1.24
7/16/2014 5:00	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.23
7/16/2014 5:30	0.26	0.43	1.21	1.18	0.22	0.36	1.30	1.23
7/16/2014 6:00	0.26	0.43	1.20	1.18	0.22	0.36	1.30	1.23
7/16/2014 6:30	0.27	0.43	1.20	1.19	0.22	0.36	1.30	1.23
7/16/2014 7:00	0.27	0.43	1.21	1.19	0.22	0.36	1.30	1.23
7/16/2014 7:30	0.26	0.43	1.21	1.19	0.22	0.36	1.30	1.24

## Preliminary Data from Central Monitoring System

Date and Time	Filter Bank 41-B-856 (in wg*)				Filter Bank 41-B-857 (in wg*)			
	MOD	HIGH	HEPA 1	HEPA 2	MOD	HIGH	HEPA 1	HEPA 2
7/16/2014 8:00	0.27	0.43	1.20	1.19	0.21	0.36	1.31	1.23
7/16/2014 8:30	0.27	0.43	1.21	1.19	0.23	0.36	1.30	1.23
7/16/2014 9:00	0.27	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/16/2014 9:30	0.26	0.43	1.20	1.19	0.22	0.36	1.30	1.23
7/16/2014 10:00	0.26	0.43	1.21	1.19	0.22	0.36	1.30	1.23
7/16/2014 10:30	0.27	0.43	1.20	1.18	0.22	0.36	1.30	1.23
7/16/2014 11:00	0.26	0.43	1.20	1.18	0.22	0.36	1.29	1.22
7/16/2014 11:30	0.26	0.43	1.20	1.18	0.22	0.36	1.29	1.22
7/16/2014 12:00	0.26	0.43	1.20	1.18	0.22	0.36	1.29	1.23
7/16/2014 12:30	0.26	0.43	1.19	1.17	0.22	0.36	1.29	1.22
7/16/2014 13:00	0.26	0.43	1.20	1.18	0.22	0.36	1.29	1.22
7/16/2014 13:30	0.26	0.43	1.19	1.17	0.22	0.36	1.29	1.22
7/16/2014 14:00	0.25	0.43	1.19	1.17	0.21	0.36	1.29	1.22
7/16/2014 14:30	0.25	0.43	1.17	1.16	0.21	0.36	1.28	1.22
7/16/2014 15:00	0.25	0.43	1.18	1.17	0.21	0.36	1.29	1.22
7/16/2014 15:30	0.26	0.43	1.19	1.17	0.21	0.36	1.29	1.23
7/16/2014 16:00	0.25	0.43	1.19	1.18	0.21	0.36	1.29	1.22
7/16/2014 16:30	0.26	0.43	1.18	1.18	0.21	0.36	1.29	1.22
7/16/2014 17:00	0.26	0.43	1.18	1.17	0.21	0.36	1.28	1.22
7/16/2014 17:30	0.26	0.43	1.19	1.17	0.21	0.36	1.28	1.22
7/16/2014 18:00	0.26	0.43	1.19	1.17	0.21	0.36	1.28	1.22
7/16/2014 18:30	0.25	0.43	1.19	1.17	0.21	0.36	1.29	1.22
7/16/2014 19:00	0.26	0.43	1.19	1.17	0.21	0.36	1.29	1.22
7/16/2014 19:30	0.26	0.43	1.19	1.18	0.22	0.36	1.29	1.22
7/16/2014 20:00	0.26	0.43	1.19	1.17	0.21	0.36	1.29	1.22
7/16/2014 20:30	0.26	0.43	1.19	1.17	0.21	0.36	1.29	1.22
7/16/2014 21:00	0.26	0.42	1.19	1.18	0.22	0.36	1.29	1.22
7/16/2014 21:30	0.26	0.42	1.19	1.18	0.22	0.36	1.29	1.23
7/16/2014 22:00	0.26	0.42	1.19	1.18	0.22	0.36	1.29	1.22
7/16/2014 22:30	0.26	0.42	1.19	1.18	0.22	0.36	1.29	1.22
7/16/2014 23:00	0.26	0.42	1.19	1.18	0.22	0.36	1.29	1.23
7/16/2014 23:30	0.26	0.42	1.20	1.18	0.21	0.36	1.29	1.23
7/17/2014 0:00	0.26	0.42	1.20	1.18	0.22	0.36	1.29	1.22
7/17/2014 0:30	0.26	0.42	1.20	1.18	0.21	0.36	1.30	1.23
7/17/2014 1:00	0.27	0.42	1.19	1.18	0.22	0.36	1.29	1.23
7/17/2014 1:30	0.26	0.42	1.20	1.18	0.22	0.36	1.30	1.23
7/17/2014 2:00	0.26	0.42	1.19	1.18	0.22	0.36	1.29	1.23
7/17/2014 2:30	0.27	0.42	1.20	1.18	0.22	0.36	1.30	1.23
7/17/2014 3:00	0.26	0.42	1.20	1.18	0.22	0.36	1.30	1.22
7/17/2014 3:30	0.26	0.42	1.20	1.18	0.22	0.36	1.30	1.23
7/17/2014 4:00	0.26	0.42	1.20	1.18	0.21	0.36	1.29	1.23
7/17/2014 4:30	0.26	0.42	1.20	1.18	0.22	0.36	1.30	1.23
7/17/2014 5:00	0.26	0.42	1.20	1.19	0.21	0.36	1.30	1.22
7/17/2014 5:30	0.26	0.42	1.20	1.18	0.22	0.36	1.30	1.23
7/17/2014 6:00	0.26	0.42	1.20	1.18	0.22	0.36	1.30	1.23
7/17/2014 6:30	0.26	0.42	1.20	1.19	0.21	0.36	1.30	1.24
7/17/2014 7:00	0.26	0.42	1.20	1.19	0.22	0.36	1.30	1.23
7/17/2014 7:30	0.26	0.42	1.21	1.19	0.22	0.36	1.30	1.23
7/17/2014 8:00	0.26	0.42	1.20	1.18	0.22	0.36	1.30	1.23
7/17/2014 8:30	0.26	0.42	1.20	1.19	0.21	0.36	1.30	1.23
7/17/2014 9:00	0.26	0.42	1.20	1.18	0.22	0.36	1.30	1.23
7/17/2014 9:30	0.26	0.42	1.20	1.19	0.21	0.36	1.30	1.24
7/17/2014 10:00	0.26	0.42	1.20	1.19	0.22	0.36	1.31	1.24
7/17/2014 10:30	0.26	0.42	1.20	1.18	0.22	0.36	1.30	1.23
7/17/2014 11:00	0.26	0.42	1.20	1.18	0.22	0.36	1.30	1.23
7/17/2014 11:30	0.27	0.42	1.19	1.18	0.22	0.36	1.30	1.24

## Preliminary Data from Central Monitoring System

Date and Time	Filter Bank 41-B-856 (in wg*)				Filter Bank 41-B-857 (in wg*)			
	MOD	HIGH	HEPA 1	HEPA 2	MOD	HIGH	HEPA 1	HEPA 2
7/17/2014 12:00	0.26	0.42	1.20	1.18	0.22	0.36	1.30	1.23
7/17/2014 12:30	0.26	0.42	1.19	1.17	0.21	0.36	1.29	1.23
7/17/2014 13:00	0.26	0.42	1.19	1.17	0.21	0.36	1.29	1.23
7/17/2014 13:30	0.26	0.42	1.19	1.18	0.21	0.36	1.29	1.22
7/17/2014 14:00	0.26	0.42	1.19	1.18	0.22	0.36	1.29	1.22
7/17/2014 14:30	0.26	0.42	1.19	1.17	0.22	0.36	1.28	1.22
7/17/2014 15:00	0.26	0.42	1.19	1.17	0.22	0.36	1.29	1.22
7/17/2014 15:30	0.25	0.42	1.19	1.18	0.21	0.36	1.29	1.22
7/17/2014 16:00	0.26	0.43	1.19	1.18	0.21	0.36	1.29	1.22
7/17/2014 16:30	0.26	0.43	1.19	1.18	0.21	0.36	1.29	1.22
7/17/2014 17:00	0.26	0.43	1.19	1.18	0.21	0.36	1.29	1.22
7/17/2014 17:30	0.26	0.43	1.19	1.18	0.22	0.36	1.29	1.22
7/17/2014 18:00	0.26	0.43	1.20	1.17	0.21	0.36	1.29	1.22
7/17/2014 18:30	0.26	0.43	1.19	1.18	0.22	0.36	1.29	1.22
7/17/2014 19:00	0.26	0.43	1.20	1.18	0.22	0.36	1.30	1.22
7/17/2014 19:30	0.26	0.43	1.20	1.18	0.21	0.36	1.30	1.23
7/17/2014 20:00	0.26	0.43	1.20	1.19	0.22	0.36	1.30	1.23
7/17/2014 20:30	0.26	0.43	1.20	1.19	0.22	0.36	1.30	1.23
7/17/2014 21:00	0.26	0.43	1.20	1.19	0.22	0.36	1.31	1.23
7/17/2014 21:30	0.26	0.43	1.21	1.19	0.22	0.36	1.30	1.23
7/17/2014 22:00	0.26	0.43	1.20	1.19	0.22	0.36	1.31	1.24
7/17/2014 22:30	0.26	0.43	1.20	1.19	0.22	0.36	1.31	1.24
7/17/2014 23:00	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/17/2014 23:30	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/18/2014 0:00	0.27	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/18/2014 0:30	0.26	0.43	1.21	1.20	0.22	0.36	1.31	1.24
7/18/2014 1:00	0.27	0.43	1.21	1.19	0.22	0.36	1.31	1.23
7/18/2014 1:30	0.27	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/18/2014 2:00	0.27	0.43	1.21	1.19	0.23	0.36	1.31	1.24
7/18/2014 2:30	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/18/2014 3:00	0.27	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/18/2014 3:30	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/18/2014 4:00	0.27	0.43	1.21	1.20	0.22	0.36	1.31	1.24
7/18/2014 4:30	0.27	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/18/2014 5:00	0.27	0.43	1.22	1.20	0.22	0.36	1.31	1.24
7/18/2014 5:30	0.26	0.43	1.21	1.20	0.22	0.36	1.31	1.24
7/18/2014 6:00	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/18/2014 6:30	0.26	0.43	1.22	1.20	0.23	0.36	1.31	1.24
7/18/2014 7:00	0.26	0.43	1.22	1.20	0.22	0.36	1.32	1.24
7/18/2014 7:30	0.27	0.43	1.22	1.20	0.22	0.36	1.32	1.24
7/18/2014 8:00	0.27	0.43	1.22	1.20	0.22	0.36	1.31	1.25
7/18/2014 8:30	0.26	0.43	1.22	1.20	0.22	0.36	1.32	1.25
7/18/2014 9:00	0.27	0.43	1.22	1.20	0.22	0.36	1.31	1.24
7/18/2014 9:30	0.27	0.43	1.22	1.20	0.22	0.36	1.32	1.25
7/18/2014 10:00	0.27	0.43	1.21	1.20	0.23	0.36	1.31	1.24
7/18/2014 10:30	0.27	0.43	1.22	1.19	0.22	0.36	1.32	1.24
7/18/2014 11:00	0.26	0.43	1.21	1.20	0.22	0.36	1.31	1.24
7/18/2014 11:30	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/18/2014 12:00	0.27	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/18/2014 12:30	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/18/2014 13:00	0.26	0.43	1.21	1.18	0.21	0.36	1.30	1.24
7/18/2014 13:30	0.26	0.43	1.20	1.19	0.22	0.36	1.30	1.23
7/18/2014 14:00	0.26	0.43	1.20	1.19	0.22	0.36	1.30	1.23
7/18/2014 14:30	0.25	0.43	1.20	1.19	0.22	0.36	1.30	1.23
7/18/2014 15:00	0.26	0.43	1.20	1.18	0.22	0.36	1.30	1.22
7/18/2014 15:30	0.26	0.43	1.20	1.18	0.22	0.36	1.30	1.23

## Preliminary Data from Central Monitoring System

Date and Time	Filter Bank 41-B-856 (in wg*)				Filter Bank 41-B-857 (in wg*)			
	MOD	HIGH	HEPA 1	HEPA 2	MOD	HIGH	HEPA 1	HEPA 2
7/18/2014 16:00	0.26	0.43	1.20	1.18	0.22	0.36	1.30	1.23
7/18/2014 16:30	0.26	0.43	1.20	1.18	0.22	0.36	1.29	1.23
7/18/2014 17:00	0.26	0.43	1.20	1.18	0.22	0.36	1.30	1.23
7/18/2014 17:30	0.25	0.43	1.19	1.18	0.22	0.36	1.29	1.23
7/18/2014 18:00	0.26	0.43	1.20	1.18	0.21	0.36	1.30	1.23
7/18/2014 18:30	0.26	0.43	1.20	1.18	0.22	0.36	1.29	1.23
7/18/2014 19:00	0.26	0.43	1.20	1.18	0.22	0.36	1.29	1.22
7/18/2014 19:30	0.25	0.43	1.20	1.18	0.21	0.36	1.30	1.23
7/18/2014 20:00	0.26	0.43	1.20	1.18	0.22	0.36	1.30	1.23
7/18/2014 20:30	0.26	0.43	1.20	1.19	0.22	0.36	1.30	1.23
7/18/2014 21:00	0.27	0.43	1.20	1.19	0.22	0.36	1.30	1.23
7/18/2014 21:30	0.26	0.43	1.20	1.19	0.22	0.36	1.30	1.23
7/18/2014 22:00	0.26	0.43	1.20	1.19	0.22	0.36	1.30	1.23
7/18/2014 22:30	0.26	0.43	1.20	1.19	0.22	0.36	1.31	1.23
7/18/2014 23:00	0.26	0.43	1.20	1.19	0.22	0.36	1.31	1.24
7/18/2014 23:30	0.26	0.43	1.20	1.19	0.22	0.36	1.31	1.24
7/19/2014 0:00	0.27	0.43	1.20	1.19	0.22	0.36	1.31	1.24
7/19/2014 0:30	0.26	0.43	1.20	1.19	0.22	0.36	1.31	1.24
7/19/2014 1:00	0.26	0.43	1.20	1.19	0.22	0.36	1.30	1.23
7/19/2014 1:30	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/19/2014 2:00	0.27	0.43	1.21	1.19	0.22	0.36	1.30	1.24
7/19/2014 2:30	0.27	0.43	1.21	1.20	0.22	0.36	1.31	1.24
7/19/2014 3:00	0.27	0.43	1.21	1.19	0.23	0.36	1.31	1.23
7/19/2014 3:30	0.27	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/19/2014 4:00	0.27	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/19/2014 4:30	0.27	0.43	1.21	1.19	0.23	0.36	1.31	1.24
7/19/2014 5:00	0.27	0.43	1.21	1.19	0.22	0.36	1.32	1.24
7/19/2014 5:30	0.27	0.43	1.21	1.20	0.22	0.36	1.31	1.24
7/19/2014 6:00	0.27	0.43	1.21	1.19	0.22	0.36	1.32	1.24
7/19/2014 6:30	0.27	0.43	1.22	1.20	0.22	0.36	1.32	1.24
7/19/2014 7:00	0.26	0.43	1.21	1.20	0.22	0.36	1.32	1.24
7/19/2014 7:30	0.27	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/19/2014 8:00	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/19/2014 8:30	0.27	0.43	1.21	1.19	0.22	0.36	1.30	1.23
7/19/2014 9:00	0.27	0.43	1.21	1.19	0.22	0.36	1.30	1.23
7/19/2014 9:30	0.26	0.43	1.20	1.19	0.21	0.36	1.30	1.23
7/19/2014 10:00	0.26	0.43	1.20	1.19	0.22	0.36	1.30	1.23
7/19/2014 10:30	0.26	0.43	1.20	1.19	0.22	0.36	1.30	1.23
7/19/2014 11:00	0.27	0.43	1.20	1.18	0.22	0.36	1.30	1.22
7/19/2014 11:30	0.26	0.42	1.20	1.18	0.21	0.36	1.30	1.23
7/19/2014 12:00	0.26	0.42	1.20	1.18	0.22	0.36	1.29	1.23
7/19/2014 12:30	0.26	0.42	1.19	1.17	0.22	0.36	1.29	1.23
7/19/2014 13:00	0.26	0.42	1.19	1.18	0.21	0.36	1.30	1.23
7/19/2014 13:30	0.26	0.42	1.19	1.18	0.21	0.36	1.29	1.23
7/19/2014 14:00	0.25	0.42	1.20	1.18	0.22	0.36	1.29	1.22
7/19/2014 14:30	0.25	0.42	1.19	1.18	0.21	0.36	1.29	1.23
7/19/2014 15:00	0.26	0.42	1.19	1.17	0.21	0.36	1.29	1.22
7/19/2014 15:30	0.25	0.42	1.19	1.18	0.21	0.36	1.29	1.22
7/19/2014 16:00	0.26	0.42	1.19	1.17	0.21	0.36	1.28	1.22
7/19/2014 16:30	0.26	0.42	1.19	1.17	0.21	0.36	1.29	1.22
7/19/2014 17:00	0.26	0.42	1.19	1.18	0.21	0.36	1.29	1.22
7/19/2014 17:30	0.25	0.42	1.19	1.18	0.21	0.36	1.28	1.22
7/19/2014 18:00	0.26	0.42	1.19	1.17	0.21	0.36	1.29	1.22
7/19/2014 18:30	0.26	0.42	1.19	1.17	0.21	0.36	1.29	1.22
7/19/2014 19:00	0.26	0.41	1.18	1.17	0.21	0.35	1.28	1.21
7/19/2014 19:30	0.26	0.42	1.19	1.18	0.21	0.34	1.29	1.22

## Preliminary Data from Central Monitoring System

Date and Time	Filter Bank 41-B-856 (in wg*)				Filter Bank 41-B-857 (in wg*)			
	MOD	HIGH	HEPA 1	HEPA 2	MOD	HIGH	HEPA 1	HEPA 2
7/19/2014 20:00	0.26	0.42	1.19	1.18	0.21	0.34	1.29	1.22
7/19/2014 20:30	0.26	0.42	1.19	1.18	0.21	0.34	1.30	1.23
7/19/2014 21:00	0.26	0.42	1.19	1.18	0.21	0.34	1.29	1.22
7/19/2014 21:30	0.25	0.42	1.20	1.18	0.21	0.34	1.30	1.23
7/19/2014 22:00	0.26	0.42	1.20	1.19	0.21	0.34	1.30	1.23
7/19/2014 22:30	0.26	0.42	1.20	1.19	0.21	0.34	1.30	1.23
7/19/2014 23:00	0.26	0.42	1.20	1.18	0.22	0.34	1.30	1.23
7/19/2014 23:30	0.26	0.42	1.20	1.19	0.21	0.34	1.30	1.23
7/20/2014 0:00	0.26	0.42	1.20	1.18	0.21	0.34	1.30	1.23
7/20/2014 0:30	0.26	0.42	1.21	1.20	0.22	0.34	1.31	1.24
7/20/2014 1:00	0.27	0.42	1.21	1.19	0.22	0.34	1.31	1.24
7/20/2014 1:30	0.26	0.42	1.21	1.19	0.22	0.34	1.31	1.24
7/20/2014 2:00	0.26	0.42	1.22	1.20	0.22	0.34	1.31	1.24
7/20/2014 2:30	0.27	0.42	1.21	1.19	0.22	0.34	1.31	1.24
7/20/2014 3:00	0.27	0.42	1.22	1.20	0.22	0.34	1.31	1.24
7/20/2014 3:30	0.26	0.42	1.21	1.20	0.22	0.34	1.31	1.24
7/20/2014 4:00	0.26	0.42	1.21	1.20	0.22	0.34	1.31	1.24
7/20/2014 4:30	0.27	0.42	1.21	1.20	0.22	0.34	1.31	1.24
7/20/2014 5:00	0.27	0.42	1.21	1.20	0.22	0.34	1.32	1.24
7/20/2014 5:30	0.27	0.42	1.21	1.20	0.22	0.34	1.31	1.24
7/20/2014 6:00	0.27	0.42	1.21	1.20	0.22	0.34	1.31	1.23
7/20/2014 6:30	0.26	0.42	1.21	1.19	0.22	0.34	1.32	1.24
7/20/2014 7:00	0.27	0.42	1.21	1.19	0.22	0.34	1.32	1.24
7/20/2014 7:30	0.26	0.42	1.21	1.19	0.22	0.34	1.31	1.24
7/20/2014 8:00	0.26	0.42	1.21	1.19	0.21	0.34	1.32	1.24
7/20/2014 8:30	0.27	0.42	1.21	1.19	0.22	0.34	1.31	1.24
7/20/2014 9:00	0.27	0.42	1.21	1.19	0.22	0.34	1.31	1.24
7/20/2014 9:30	0.26	0.42	1.21	1.18	0.21	0.34	1.31	1.24
7/20/2014 10:00	0.26	0.42	1.20	1.19	0.22	0.34	1.30	1.23
7/20/2014 10:30	0.26	0.42	1.21	1.19	0.22	0.34	1.30	1.23
7/20/2014 11:00	0.26	0.42	1.20	1.19	0.21	0.34	1.30	1.23
7/20/2014 11:30	0.26	0.42	1.19	1.18	0.22	0.34	1.29	1.22
7/20/2014 12:00	0.26	0.43	1.19	1.18	0.22	0.34	1.29	1.23
7/20/2014 12:30	0.26	0.43	1.20	1.18	0.21	0.34	1.29	1.23
7/20/2014 13:00	0.26	0.43	1.20	1.18	0.21	0.34	1.30	1.23
7/20/2014 13:30	0.26	0.43	1.19	1.18	0.21	0.34	1.29	1.22
7/20/2014 14:00	0.26	0.43	1.18	1.17	0.21	0.34	1.29	1.22
7/20/2014 14:30	0.26	0.43	1.19	1.18	0.21	0.34	1.29	1.22
7/20/2014 15:00	0.26	0.43	1.19	1.18	0.21	0.34	1.29	1.23
7/20/2014 15:30	0.26	0.43	1.19	1.18	0.21	0.34	1.29	1.22
7/20/2014 16:00	0.26	0.43	1.19	1.18	0.21	0.34	1.29	1.22
7/20/2014 16:30	0.25	0.43	1.19	1.17	0.21	0.34	1.29	1.22
7/20/2014 17:00	0.26	0.43	1.20	1.18	0.21	0.34	1.29	1.22
7/20/2014 17:30	0.26	0.43	1.19	1.18	0.21	0.34	1.29	1.22
7/20/2014 18:00	0.26	0.43	1.20	1.18	0.21	0.34	1.29	1.22
7/20/2014 18:30	0.26	0.43	1.20	1.19	0.21	0.34	1.29	1.22
7/20/2014 19:00	0.26	0.43	1.20	1.18	0.21	0.34	1.29	1.23
7/20/2014 19:30	0.26	0.43	1.19	1.17	0.21	0.34	1.29	1.22
7/20/2014 20:00	0.26	0.43	1.20	1.19	0.22	0.34	1.30	1.23
7/20/2014 20:30	0.26	0.43	1.20	1.18	0.21	0.34	1.30	1.23
7/20/2014 21:00	0.26	0.43	1.20	1.18	0.22	0.34	1.30	1.23
7/20/2014 21:30	0.26	0.43	1.20	1.19	0.21	0.34	1.30	1.23
7/20/2014 22:00	0.27	0.43	1.21	1.18	0.21	0.34	1.31	1.23
7/20/2014 22:30	0.26	0.43	1.20	1.19	0.22	0.34	1.30	1.23
7/20/2014 23:00	0.26	0.43	1.20	1.18	0.22	0.34	1.30	1.23
7/20/2014 23:30	0.26	0.43	1.20	1.19	0.21	0.34	1.30	1.23

## Preliminary Data from Central Monitoring System

Date and Time	Filter Bank 41-B-856 (in wg*)				Filter Bank 41-B-857 (in wg*)			
	MOD	HIGH	HEPA 1	HEPA 2	MOD	HIGH	HEPA 1	HEPA 2
7/21/2014 0:00	0.26	0.43	1.20	1.19	0.22	0.34	1.30	1.23
7/21/2014 0:30	0.26	0.42	1.20	1.18	0.22	0.36	1.30	1.23
7/21/2014 1:00	0.26	0.42	1.20	1.19	0.22	0.36	1.30	1.22
7/21/2014 1:30	0.26	0.42	1.20	1.19	0.22	0.36	1.30	1.23
7/21/2014 2:00	0.26	0.42	1.21	1.19	0.22	0.36	1.30	1.23
7/21/2014 2:30	0.26	0.42	1.20	1.19	0.21	0.36	1.30	1.23
7/21/2014 3:00	0.26	0.42	1.21	1.19	0.22	0.36	1.30	1.23
7/21/2014 3:30	0.26	0.42	1.20	1.19	0.22	0.36	1.31	1.24
7/21/2014 4:00	0.26	0.42	1.20	1.19	0.22	0.36	1.30	1.23
7/21/2014 4:30	0.26	0.42	1.21	1.19	0.21	0.36	1.31	1.24
7/21/2014 5:00	0.26	0.42	1.20	1.20	0.22	0.36	1.31	1.24
7/21/2014 5:30	0.27	0.42	1.21	1.19	0.22	0.36	1.31	1.24
7/21/2014 6:00	0.26	0.42	1.21	1.19	0.22	0.36	1.31	1.23
7/21/2014 6:30	0.27	0.42	1.20	1.18	0.22	0.36	1.30	1.22
7/21/2014 7:00	0.27	0.42	1.21	1.19	0.22	0.36	1.31	1.23
7/21/2014 7:30	0.27	0.42	1.21	1.19	0.22	0.36	1.31	1.24
7/21/2014 8:00	0.26	0.42	1.21	1.19	0.22	0.36	1.30	1.23
7/21/2014 8:30	0.27	0.42	1.21	1.19	0.22	0.36	1.30	1.23
7/21/2014 9:00	0.26	0.42	1.20	1.19	0.22	0.36	1.30	1.24
7/21/2014 9:30	0.26	0.42	1.20	1.19	0.21	0.36	1.30	1.23
7/21/2014 10:00	0.26	0.42	1.20	1.18	0.21	0.36	1.30	1.23
7/21/2014 10:30	0.26	0.42	1.20	1.19	0.21	0.36	1.30	1.23
7/21/2014 11:00	0.26	0.42	1.20	1.18	0.22	0.36	1.30	1.22
7/21/2014 11:30	0.26	0.42	1.20	1.18	0.21	0.36	1.30	1.22
7/21/2014 12:00	0.26	0.42	1.19	1.18	0.21	0.36	1.29	1.23
7/21/2014 12:30	0.25	0.42	1.20	1.18	0.21	0.36	1.29	1.22
7/21/2014 13:00	0.26	0.42	1.20	1.18	0.21	0.36	1.29	1.22
7/21/2014 13:30	0.26	0.42	1.19	1.18	0.21	0.36	1.29	1.22
7/21/2014 14:00	0.26	0.42	1.20	1.18	0.21	0.36	1.29	1.22
7/21/2014 14:30	0.26	0.42	1.19	1.18	0.21	0.36	1.29	1.23
7/21/2014 15:00	0.26	0.42	1.19	1.18	0.21	0.36	1.29	1.22
7/21/2014 15:30	0.26	0.42	1.19	1.18	0.21	0.36	1.29	1.22
7/21/2014 16:00	0.26	0.42	1.19	1.18	0.21	0.36	1.29	1.22
7/21/2014 16:30	0.26	0.42	1.20	1.17	0.21	0.36	1.29	1.22
7/21/2014 17:00	0.26	0.42	1.19	1.18	0.21	0.36	1.29	1.22
7/21/2014 17:30	0.26	0.42	1.19	1.18	0.21	0.36	1.29	1.22
7/21/2014 18:00	0.25	0.42	1.19	1.18	0.21	0.36	1.29	1.22
7/21/2014 18:30	0.26	0.42	1.20	1.19	0.21	0.36	1.30	1.23
7/21/2014 19:00	0.26	0.42	1.20	1.19	0.21	0.36	1.30	1.23
7/21/2014 19:30	0.26	0.42	1.21	1.19	0.21	0.36	1.31	1.23
7/21/2014 20:00	0.26	0.42	1.21	1.19	0.21	0.36	1.30	1.23
7/21/2014 20:30	0.26	0.42	1.21	1.19	0.22	0.36	1.31	1.23
7/21/2014 21:00	0.26	0.42	1.21	1.19	0.22	0.36	1.31	1.23
7/21/2014 21:30	0.27	0.42	1.20	1.19	0.22	0.36	1.30	1.23
7/21/2014 22:00	0.26	0.42	1.20	1.19	0.21	0.36	1.31	1.23
7/21/2014 22:30	0.26	0.42	1.21	1.19	0.22	0.36	1.30	1.23
7/21/2014 23:00	0.26	0.42	1.20	1.18	0.22	0.36	1.31	1.23
7/21/2014 23:30	0.26	0.42	1.21	1.19	0.22	0.36	1.31	1.24
7/22/2014 0:00	0.26	0.42	1.21	1.19	0.21	0.36	1.31	1.24
7/22/2014 0:30	0.26	0.42	1.21	1.19	0.22	0.36	1.30	1.24
7/22/2014 1:00	0.26	0.42	1.21	1.19	0.22	0.36	1.31	1.23
7/22/2014 1:30	0.26	0.42	1.21	1.19	0.22	0.36	1.31	1.23
7/22/2014 2:00	0.26	0.42	1.21	1.20	0.22	0.36	1.31	1.24
7/22/2014 2:30	0.27	0.42	1.21	1.19	0.22	0.36	1.32	1.23
7/22/2014 3:00	0.27	0.42	1.21	1.19	0.22	0.36	1.31	1.23
7/22/2014 3:30	0.27	0.42	1.21	1.19	0.22	0.36	1.31	1.23

## Preliminary Data from Central Monitoring System

Date and Time	Filter Bank 41-B-856 (in wg*)				Filter Bank 41-B-857 (in wg*)			
	MOD	HIGH	HEPA 1	HEPA 2	MOD	HIGH	HEPA 1	HEPA 2
7/22/2014 4:00	0.26	0.42	1.21	1.19	0.22	0.36	1.31	1.24
7/22/2014 4:30	0.27	0.42	1.21	1.19	0.22	0.36	1.31	1.23
7/22/2014 5:00	0.27	0.42	1.21	1.19	0.22	0.36	1.31	1.24
7/22/2014 5:30	0.27	0.42	1.21	1.19	0.22	0.36	1.31	1.25
7/22/2014 6:00	0.27	0.42	1.22	1.20	0.22	0.36	1.32	1.24
7/22/2014 6:30	0.27	0.42	1.21	1.20	0.22	0.36	1.32	1.24
7/22/2014 7:00	0.27	0.42	1.22	1.19	0.22	0.36	1.32	1.24
7/22/2014 7:30	0.27	0.42	1.22	1.19	0.22	0.36	1.31	1.24
7/22/2014 8:00	0.26	0.42	1.21	1.19	0.23	0.36	1.31	1.24
7/22/2014 8:30	0.26	0.42	1.21	1.19	0.22	0.36	1.31	1.24
7/22/2014 9:00	0.26	0.42	1.21	1.19	0.22	0.36	1.31	1.24
7/22/2014 9:30	0.26	0.42	1.21	1.19	0.22	0.36	1.31	1.24
7/22/2014 10:00	0.26	0.42	1.21	1.18	0.22	0.36	1.31	1.24
7/22/2014 10:30	0.26	0.42	1.20	1.19	0.22	0.36	1.31	1.23
7/22/2014 11:00	0.26	0.42	1.20	1.18	0.21	0.36	1.30	1.23
7/22/2014 11:30	0.26	0.42	1.20	1.19	0.21	0.36	1.30	1.23
7/22/2014 12:00	0.26	0.43	1.20	1.18	0.21	0.36	1.30	1.23
7/22/2014 12:30	0.26	0.43	1.20	1.18	0.21	0.36	1.30	1.23
7/22/2014 13:00	0.26	0.43	1.20	1.19	0.21	0.36	1.30	1.23
7/22/2014 13:30	0.26	0.43	1.20	1.18	0.21	0.36	1.30	1.23
7/22/2014 14:00	0.26	0.43	1.20	1.19	0.21	0.36	1.30	1.23
7/22/2014 14:30	0.26	0.43	1.20	1.19	0.21	0.36	1.30	1.23
7/22/2014 15:00	0.26	0.43	1.20	1.19	0.21	0.36	1.30	1.24
7/22/2014 15:30	0.26	0.43	1.20	1.19	0.21	0.36	1.30	1.23
7/22/2014 16:00	0.26	0.43	1.20	1.19	0.21	0.36	1.30	1.23
7/22/2014 16:30	0.26	0.43	1.20	1.19	0.21	0.36	1.30	1.23
7/22/2014 17:00	0.26	0.43	1.20	1.18	0.21	0.36	1.30	1.23
7/22/2014 17:30	0.26	0.43	1.20	1.19	0.22	0.36	1.30	1.23
7/22/2014 18:00	0.26	0.43	1.20	1.19	0.21	0.36	1.30	1.23
7/22/2014 18:30	0.26	0.43	1.20	1.19	0.22	0.36	1.30	1.23
7/22/2014 19:00	0.27	0.43	1.21	1.19	0.21	0.36	1.31	1.24
7/22/2014 19:30	0.26	0.43	1.21	1.19	0.22	0.36	1.30	1.24
7/22/2014 20:00	0.26	0.43	1.20	1.20	0.21	0.36	1.31	1.24
7/22/2014 20:30	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.23
7/22/2014 21:00	0.26	0.43	1.21	1.20	0.22	0.36	1.31	1.23
7/22/2014 21:30	0.26	0.43	1.21	1.19	0.22	0.36	1.32	1.24
7/22/2014 22:00	0.26	0.43	1.21	1.20	0.21	0.36	1.31	1.24
7/22/2014 22:30	0.26	0.43	1.22	1.20	0.21	0.36	1.31	1.25
7/22/2014 23:00	0.26	0.43	1.22	1.20	0.22	0.36	1.31	1.24
7/22/2014 23:30	0.26	0.43	1.22	1.19	0.22	0.36	1.32	1.24
7/23/2014 0:00	0.26	0.43	1.22	1.20	0.22	0.36	1.31	1.24
7/23/2014 0:30	0.26	0.43	1.22	1.20	0.22	0.36	1.31	1.24
7/23/2014 1:00	0.26	0.43	1.21	1.20	0.21	0.36	1.32	1.24
7/23/2014 1:30	0.27	0.43	1.22	1.20	0.21	0.36	1.31	1.24
7/23/2014 2:00	0.27	0.43	1.22	1.20	0.22	0.36	1.32	1.24
7/23/2014 2:30	0.27	0.43	1.22	1.20	0.22	0.36	1.32	1.24
7/23/2014 3:00	0.27	0.43	1.22	1.20	0.22	0.36	1.32	1.24
7/23/2014 3:30	0.27	0.43	1.22	1.20	0.22	0.36	1.32	1.24
7/23/2014 4:00	0.27	0.43	1.22	1.20	0.22	0.36	1.31	1.24
7/23/2014 4:30	0.27	0.43	1.22	1.20	0.22	0.36	1.32	1.25
7/23/2014 5:00	0.27	0.43	1.22	1.19	0.22	0.36	1.32	1.25
7/23/2014 5:30	0.27	0.43	1.22	1.20	0.22	0.36	1.32	1.25
7/23/2014 6:00	0.26	0.43	1.21	1.19	0.22	0.36	1.32	1.25
7/23/2014 6:30	0.26	0.43	1.22	1.20	0.21	0.36	1.32	1.24
7/23/2014 7:00	0.26	0.43	1.22	1.20	0.22	0.36	1.32	1.25
7/23/2014 7:30	0.27	0.43	1.21	1.19	0.22	0.36	1.32	1.25

## Preliminary Data from Central Monitoring System

Date and Time	Filter Bank 41-B-856 (in wg*)				Filter Bank 41-B-857 (in wg*)			
	MOD	HIGH	HEPA 1	HEPA 2	MOD	HIGH	HEPA 1	HEPA 2
7/23/2014 8:00	0.26	0.43	1.22	1.20	0.22	0.36	1.33	1.25
7/23/2014 8:30	0.27	0.43	1.22	1.20	0.22	0.36	1.32	1.24
7/23/2014 9:00	0.27	0.43	1.22	1.20	0.22	0.36	1.32	1.24
7/23/2014 9:30	0.27	0.43	1.22	1.20	0.22	0.36	1.31	1.24
7/23/2014 10:00	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/23/2014 10:30	0.26	0.43	1.20	1.18	0.22	0.36	1.31	1.24
7/23/2014 11:00	0.26	0.43	1.20	1.19	0.22	0.36	1.31	1.24
7/23/2014 11:30	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.23
7/23/2014 12:00	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.23
7/23/2014 12:30	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/23/2014 13:00	0.26	0.43	1.20	1.19	0.22	0.36	1.31	1.23
7/23/2014 13:30	0.26	0.43	1.21	1.19	0.21	0.36	1.30	1.23
7/23/2014 14:00	0.26	0.43	1.21	1.19	0.21	0.36	1.31	1.23
7/23/2014 14:30	0.26	0.43	1.20	1.19	0.21	0.36	1.30	1.23
7/23/2014 15:00	0.26	0.43	1.20	1.19	0.21	0.36	1.30	1.23
7/23/2014 15:30	0.26	0.43	1.21	1.19	0.21	0.36	1.31	1.24
7/23/2014 16:00	0.25	0.43	1.20	1.19	0.21	0.36	1.31	1.24
7/23/2014 16:30	0.26	0.43	1.20	1.19	0.21	0.36	1.31	1.24
7/23/2014 17:00	0.26	0.43	1.20	1.19	0.22	0.36	1.31	1.23
7/23/2014 17:30	0.26	0.43	1.20	1.19	0.22	0.36	1.31	1.23
7/23/2014 18:00	0.26	0.43	1.20	1.19	0.21	0.36	1.31	1.24
7/23/2014 18:30	0.26	0.43	1.20	1.19	0.21	0.36	1.30	1.24
7/23/2014 19:00	0.26	0.43	1.20	1.19	0.21	0.36	1.31	1.24
7/23/2014 19:30	0.26	0.43	1.20	1.19	0.21	0.36	1.31	1.24
7/23/2014 20:00	0.26	0.43	1.21	1.20	0.21	0.36	1.31	1.23
7/23/2014 20:30	0.26	0.43	1.21	1.20	0.21	0.36	1.31	1.24
7/23/2014 21:00	0.26	0.43	1.21	1.20	0.21	0.36	1.31	1.23
7/23/2014 21:30	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/23/2014 22:00	0.26	0.43	1.21	1.20	0.22	0.36	1.31	1.24
7/23/2014 22:30	0.26	0.43	1.22	1.20	0.22	0.36	1.31	1.23
7/23/2014 23:00	0.26	0.43	1.21	1.20	0.22	0.36	1.32	1.24
7/23/2014 23:30	0.27	0.43	1.21	1.20	0.22	0.36	1.31	1.24
7/24/2014 0:00	0.27	0.43	1.22	1.20	0.22	0.36	1.31	1.24
7/24/2014 0:30	0.26	0.43	1.22	1.20	0.22	0.36	1.32	1.24
7/24/2014 1:00	0.26	0.43	1.22	1.20	0.22	0.36	1.32	1.24
7/24/2014 1:30	0.27	0.43	1.22	1.20	0.22	0.36	1.32	1.24
7/24/2014 2:00	0.27	0.43	1.22	1.20	0.22	0.36	1.32	1.24
7/24/2014 2:30	0.26	0.43	1.22	1.20	0.22	0.36	1.32	1.24
7/24/2014 3:00	0.27	0.43	1.22	1.20	0.22	0.36	1.32	1.25
7/24/2014 3:30	0.26	0.43	1.22	1.20	0.22	0.36	1.31	1.24
7/24/2014 4:00	0.27	0.43	1.22	1.20	0.22	0.36	1.32	1.25
7/24/2014 4:30	0.26	0.43	1.22	1.20	0.21	0.36	1.32	1.24
7/24/2014 5:00	0.27	0.43	1.22	1.20	0.22	0.36	1.32	1.25
7/24/2014 5:30	0.26	0.43	1.22	1.20	0.22	0.36	1.32	1.25
7/24/2014 6:00	0.26	0.43	1.22	1.20	0.22	0.36	1.32	1.25
7/24/2014 6:30	0.27	0.43	1.22	1.20	0.22	0.36	1.32	1.25
7/24/2014 7:00	0.27	0.43	1.22	1.20	0.22	0.36	1.33	1.25
7/24/2014 7:30	0.26	0.43	1.22	1.20	0.23	0.36	1.32	1.24
7/24/2014 8:00	0.26	0.43	1.22	1.20	0.22	0.36	1.32	1.24
7/24/2014 8:30	0.26	0.43	1.22	1.19	0.22	0.36	1.32	1.24
7/24/2014 9:00	0.26	0.43	1.21	1.20	0.21	0.36	1.31	1.23
7/24/2014 9:30	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/24/2014 10:00	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/24/2014 10:30	0.26	0.43	1.21	1.19	0.21	0.36	1.31	1.24
7/24/2014 11:00	0.26	0.43	1.20	1.18	0.22	0.36	1.31	1.23
7/24/2014 11:30	0.26	0.42	1.21	1.19	0.22	0.36	1.30	1.23

## Preliminary Data from Central Monitoring System

Date and Time	Filter Bank 41-B-856 (in wg*)				Filter Bank 41-B-857 (in wg*)			
	MOD	HIGH	HEPA 1	HEPA 2	MOD	HIGH	HEPA 1	HEPA 2
7/24/2014 12:00	0.26	0.43	1.20	1.18	0.21	0.36	1.30	1.23
7/24/2014 12:30	0.26	0.43	1.20	1.19	0.22	0.36	1.30	1.23
7/24/2014 13:00	0.26	0.43	1.20	1.18	0.21	0.36	1.30	1.23
7/24/2014 13:30	0.26	0.43	1.20	1.18	0.21	0.36	1.30	1.23
7/24/2014 14:00	0.26	0.43	1.20	1.19	0.21	0.36	1.30	1.23
7/24/2014 14:30	0.26	0.43	1.20	1.18	0.21	0.36	1.30	1.23
7/24/2014 15:00	0.26	0.43	1.20	1.18	0.21	0.36	1.30	1.23
7/24/2014 15:30	0.26	0.43	1.20	1.19	0.21	0.36	1.31	1.23
7/24/2014 16:00	0.25	0.43	1.20	1.18	0.21	0.36	1.30	1.23
7/24/2014 16:30	0.26	0.43	1.20	1.18	0.21	0.36	1.30	1.22
7/24/2014 17:00	0.26	0.43	1.20	1.19	0.21	0.36	1.30	1.23
7/24/2014 17:30	0.26	0.43	1.20	1.19	0.21	0.36	1.30	1.23
7/24/2014 18:00	0.25	0.43	1.20	1.19	0.21	0.36	1.31	1.23
7/24/2014 18:30	0.26	0.43	1.20	1.18	0.21	0.36	1.30	1.22
7/24/2014 19:00	0.26	0.43	1.20	1.19	0.21	0.36	1.30	1.23
7/24/2014 19:30	0.26	0.43	1.21	1.19	0.21	0.36	1.31	1.23
7/24/2014 20:00	0.26	0.43	1.20	1.19	0.21	0.36	1.30	1.23
7/24/2014 20:30	0.26	0.43	1.21	1.18	0.22	0.36	1.31	1.23
7/24/2014 21:00	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.23
7/24/2014 21:30	0.26	0.43	1.21	1.20	0.21	0.36	1.31	1.24
7/24/2014 22:00	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/24/2014 22:30	0.26	0.43	1.21	1.19	0.21	0.36	1.31	1.24
7/24/2014 23:00	0.25	0.43	1.22	1.19	0.22	0.36	1.31	1.24
7/24/2014 23:30	0.25	0.43	1.22	1.19	0.22	0.36	1.31	1.24
7/25/2014 0:00	0.26	0.43	1.21	1.19	0.21	0.36	1.31	1.23
7/25/2014 0:30	0.27	0.43	1.21	1.19	0.22	0.36	1.31	1.23
7/25/2014 1:00	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/25/2014 1:30	0.26	0.43	1.21	1.19	0.22	0.36	1.32	1.24
7/25/2014 2:00	0.26	0.43	1.22	1.19	0.21	0.36	1.31	1.24
7/25/2014 2:30	0.26	0.43	1.21	1.20	0.22	0.36	1.31	1.24
7/25/2014 3:00	0.27	0.43	1.21	1.20	0.22	0.36	1.31	1.24
7/25/2014 3:30	0.26	0.43	1.22	1.20	0.22	0.36	1.32	1.24
7/25/2014 4:00	0.27	0.43	1.21	1.19	0.22	0.36	1.32	1.24
7/25/2014 4:30	0.26	0.43	1.21	1.19	0.22	0.36	1.32	1.24
7/25/2014 5:00	0.26	0.43	1.22	1.20	0.22	0.36	1.31	1.24
7/25/2014 5:30	0.26	0.43	1.22	1.20	0.22	0.36	1.32	1.24
7/25/2014 6:00	0.27	0.43	1.22	1.20	0.22	0.36	1.31	1.24
7/25/2014 6:30	0.26	0.43	1.22	1.20	0.22	0.36	1.32	1.25
7/25/2014 7:00	0.26	0.43	1.22	1.20	0.22	0.36	1.32	1.25
7/25/2014 7:30	0.27	0.43	1.22	1.20	0.22	0.36	1.32	1.25
7/25/2014 8:00	0.27	0.43	1.21	1.20	0.22	0.36	1.31	1.24
7/25/2014 8:30	0.26	0.43	1.22	1.19	0.22	0.36	1.32	1.24
7/25/2014 9:00	0.26	0.42	1.21	1.19	0.22	0.36	1.31	1.24
7/25/2014 9:30	0.26	0.42	1.21	1.19	0.22	0.36	1.31	1.24
7/25/2014 10:00	0.26	0.42	1.21	1.19	0.22	0.36	1.30	1.23
7/25/2014 10:30	0.25	0.42	1.21	1.19	0.22	0.36	1.30	1.23
7/25/2014 11:00	0.26	0.42	1.20	1.18	0.21	0.36	1.30	1.23
7/25/2014 11:30	0.26	0.42	1.20	1.18	0.21	0.36	1.30	1.23
7/25/2014 12:00	0.26	0.42	1.19	1.17	0.21	0.36	1.29	1.22
7/25/2014 12:30	0.26	0.42	1.19	1.18	0.21	0.36	1.29	1.22
7/25/2014 13:00	0.26	0.42	1.19	1.18	0.21	0.36	1.29	1.22
7/25/2014 13:30	0.25	0.42	1.19	1.17	0.21	0.36	1.29	1.22
7/25/2014 14:00	0.26	0.42	1.19	1.18	0.21	0.36	1.29	1.22
7/25/2014 14:30	0.26	0.42	1.19	1.17	0.21	0.36	1.29	1.22
7/25/2014 15:00	0.26	0.42	1.19	1.17	0.21	0.36	1.29	1.22
7/25/2014 15:30	0.25	0.42	1.19	1.17	0.21	0.36	1.29	1.22

## Preliminary Data from Central Monitoring System

Date and Time	Filter Bank 41-B-856 (in wg*)				Filter Bank 41-B-857 (in wg*)			
	MOD	HIGH	HEPA 1	HEPA 2	MOD	HIGH	HEPA 1	HEPA 2
7/25/2014 16:00	0.26	0.42	1.18	1.17	0.21	0.36	1.29	1.22
7/25/2014 16:30	0.25	0.42	1.19	1.17	0.21	0.36	1.29	1.22
7/25/2014 17:00	0.26	0.42	1.19	1.17	0.21	0.36	1.29	1.22
7/25/2014 17:30	0.26	0.42	1.19	1.17	0.21	0.36	1.29	1.22
7/25/2014 18:00	0.26	0.42	1.19	1.17	0.21	0.36	1.29	1.22
7/25/2014 18:30	0.26	0.42	1.19	1.18	0.21	0.36	1.29	1.22
7/25/2014 19:00	0.26	0.42	1.19	1.17	0.21	0.36	1.29	1.22
7/25/2014 19:30	0.26	0.42	1.19	1.17	0.21	0.36	1.29	1.22
7/25/2014 20:00	0.26	0.42	1.19	1.17	0.21	0.36	1.29	1.22
7/25/2014 20:30	0.26	0.42	1.19	1.18	0.21	0.36	1.29	1.22
7/25/2014 21:00	0.26	0.42	1.20	1.18	0.21	0.36	1.29	1.22
7/25/2014 21:30	0.25	0.38	1.12	1.13	0.20	0.31	1.25	1.18
7/25/2014 22:00	0.26	0.42	1.20	1.18	0.21	0.36	1.30	1.23
7/25/2014 22:30	0.26	0.42	1.20	1.18	0.21	0.36	1.30	1.22
7/25/2014 23:00	0.26	0.43	1.20	1.18	0.21	0.36	1.30	1.23
7/25/2014 23:30	0.26	0.43	1.20	1.18	0.21	0.36	1.30	1.23
7/26/2014 0:00	0.26	0.43	1.20	1.18	0.21	0.36	1.30	1.23
7/26/2014 0:30	0.26	0.43	1.20	1.18	0.21	0.36	1.30	1.23
7/26/2014 1:00	0.26	0.43	1.20	1.18	0.21	0.36	1.30	1.23
7/26/2014 1:30	0.26	0.41	1.19	1.17	0.21	0.35	1.29	1.22
7/26/2014 2:00	0.26	0.43	1.20	1.18	0.21	0.36	1.30	1.23
7/26/2014 2:30	0.26	0.43	1.20	1.19	0.22	0.36	1.30	1.23
7/26/2014 3:00	0.26	0.43	1.21	1.19	0.22	0.36	1.30	1.23
7/26/2014 3:30	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.23
7/26/2014 4:00	0.26	0.43	1.21	1.19	0.22	0.36	1.30	1.23
7/26/2014 4:30	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.23
7/26/2014 5:00	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/26/2014 5:30	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.23
7/26/2014 6:00	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/26/2014 6:30	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/26/2014 7:00	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/26/2014 7:30	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/26/2014 8:00	0.26	0.43	1.21	1.19	0.22	0.35	1.31	1.23
7/26/2014 8:30	0.26	0.43	1.21	1.18	0.22	0.35	1.31	1.23
7/26/2014 9:00	0.26	0.43	1.20	1.18	0.22	0.35	1.30	1.23
7/26/2014 9:30	0.26	0.43	1.20	1.18	0.22	0.35	1.30	1.22
7/26/2014 10:00	0.26	0.43	1.20	1.18	0.21	0.35	1.29	1.22
7/26/2014 10:30	0.26	0.43	1.19	1.17	0.21	0.35	1.29	1.22
7/26/2014 11:00	0.25	0.43	1.19	1.17	0.22	0.35	1.29	1.22
7/26/2014 11:30	0.26	0.43	1.19	1.17	0.21	0.35	1.29	1.22
7/26/2014 12:00	0.26	0.43	1.19	1.17	0.21	0.35	1.29	1.22
7/26/2014 12:30	0.25	0.43	1.19	1.17	0.21	0.35	1.29	1.22
7/26/2014 13:00	0.25	0.43	1.18	1.17	0.21	0.35	1.29	1.22
7/26/2014 13:30	0.25	0.42	1.19	1.17	0.21	0.35	1.29	1.22
7/26/2014 14:00	0.25	0.42	1.19	1.17	0.21	0.35	1.29	1.22
7/26/2014 14:30	0.25	0.42	1.19	1.17	0.21	0.35	1.29	1.22
7/26/2014 15:00	0.25	0.42	1.19	1.17	0.21	0.35	1.29	1.22
7/26/2014 15:30	0.26	0.42	1.19	1.17	0.21	0.35	1.29	1.22
7/26/2014 16:00	0.26	0.42	1.19	1.17	0.21	0.35	1.29	1.22
7/26/2014 16:30	0.25	0.42	1.19	1.17	0.21	0.35	1.29	1.22
7/26/2014 17:00	0.25	0.42	1.19	1.17	0.21	0.35	1.29	1.22
7/26/2014 17:30	0.25	0.42	1.19	1.17	0.21	0.35	1.29	1.22
7/26/2014 18:00	0.25	0.42	1.19	1.18	0.21	0.35	1.29	1.22
7/26/2014 18:30	0.26	0.42	1.19	1.17	0.21	0.35	1.29	1.22
7/26/2014 19:00	0.26	0.42	1.19	1.18	0.21	0.34	1.29	1.22
7/26/2014 19:30	0.25	0.42	1.19	1.17	0.21	0.34	1.29	1.22

## Preliminary Data from Central Monitoring System

Date and Time	Filter Bank 41-B-856 (in wg*)				Filter Bank 41-B-857 (in wg*)			
	MOD	HIGH	HEPA 1	HEPA 2	MOD	HIGH	HEPA 1	HEPA 2
7/26/2014 20:00	0.26	0.42	1.19	1.18	0.21	0.34	1.29	1.22
7/26/2014 20:30	0.26	0.42	1.19	1.18	0.21	0.34	1.29	1.22
7/26/2014 21:00	0.26	0.42	1.20	1.18	0.21	0.34	1.30	1.22
7/26/2014 21:30	0.26	0.42	1.20	1.18	0.21	0.34	1.30	1.23
7/26/2014 22:00	0.26	0.40	1.16	1.15	0.21	0.34	1.28	1.21
7/26/2014 22:30	0.26	0.42	1.20	1.18	0.21	0.36	1.30	1.23
7/26/2014 23:00	0.26	0.42	1.20	1.18	0.21	0.36	1.30	1.22
7/26/2014 23:30	0.26	0.42	1.20	1.18	0.21	0.36	1.30	1.22
7/27/2014 0:00	0.26	0.42	1.20	1.18	0.21	0.36	1.30	1.22
7/27/2014 0:30	0.26	0.42	1.20	1.18	0.21	0.36	1.30	1.23
7/27/2014 1:00	0.26	0.42	1.20	1.18	0.21	0.36	1.30	1.23
7/27/2014 1:30	0.26	0.43	1.20	1.19	0.21	0.36	1.30	1.23
7/27/2014 2:00	0.26	0.43	1.20	1.18	0.21	0.36	1.30	1.23
7/27/2014 2:30	0.26	0.43	1.20	1.19	0.22	0.36	1.30	1.23
7/27/2014 3:00	0.26	0.43	1.21	1.19	0.21	0.36	1.31	1.23
7/27/2014 3:30	0.26	0.43	1.21	1.19	0.21	0.36	1.31	1.23
7/27/2014 4:00	0.26	0.43	1.21	1.19	0.21	0.36	1.31	1.23
7/27/2014 4:30	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.23
7/27/2014 5:00	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/27/2014 5:30	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/27/2014 6:00	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/27/2014 6:30	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/27/2014 7:00	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/27/2014 7:30	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/27/2014 8:00	0.26	0.43	1.21	1.19	0.22	0.36	1.31	1.24
7/27/2014 8:30	0.26	0.43	1.21	1.19	0.21	0.36	1.31	1.24
7/27/2014 9:00	0.26	0.43	1.21	1.19	0.21	0.36	1.31	1.23
7/27/2014 9:30	0.26	0.43	1.20	1.19	0.21	0.36	1.30	1.23
7/27/2014 10:00	0.20	0.12	0.68	0.66	0.11	0.17	0.91	0.88
7/27/2014 10:30	0.28	0.31	1.10	1.14	0.23	0.26	1.21	1.07
7/27/2014 11:00	0.29	0.48	1.37	1.36	0.24	0.40	1.49	1.40
7/27/2014 11:30	0.29	0.48	1.38	1.36	0.24	0.40	1.49	1.40
7/27/2014 12:00	0.29	0.48	1.38	1.36	0.24	0.40	1.49	1.41
7/27/2014 12:30	0.29	0.48	1.38	1.36	0.24	0.40	1.49	1.41
7/27/2014 13:00	0.29	0.48	1.38	1.36	0.24	0.40	1.49	1.41
7/27/2014 13:30	0.29	0.48	1.38	1.36	0.24	0.40	1.49	1.41
7/27/2014 14:00	0.29	0.48	1.38	1.36	0.24	0.40	1.49	1.41
7/27/2014 14:30	0.29	0.48	1.37	1.36	0.24	0.40	1.49	1.41
7/27/2014 15:00	0.29	0.47	1.38	1.37	0.24	0.40	1.50	1.41
7/27/2014 15:30	0.29	0.47	1.38	1.37	0.24	0.40	1.50	1.41
7/27/2014 16:00	0.29	0.47	1.38	1.37	0.24	0.40	1.50	1.41
7/27/2014 16:30	0.29	0.47	1.38	1.37	0.24	0.40	1.50	1.41
7/27/2014 17:00	0.28	0.17	1.05	1.10	0.23	0.15	1.28	1.24
7/27/2014 17:30	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
7/27/2014 18:00	0.25	0.33	0.96	0.97	0.20	0.25	1.05	1.03
7/27/2014 18:30	0.23	0.42	1.07	1.06	0.19	0.37	1.16	1.10
7/27/2014 19:00	0.23	0.42	1.07	1.06	0.19	0.37	1.16	1.10
7/27/2014 19:30	0.23	0.42	1.07	1.06	0.19	0.37	1.16	1.10
7/27/2014 20:00	0.23	0.42	1.07	1.06	0.19	0.37	1.16	1.10
7/27/2014 20:30	0.24	0.42	1.07	1.06	0.19	0.37	1.16	1.10
7/27/2014 21:00	0.23	0.42	1.07	1.06	0.19	0.37	1.16	1.10
7/27/2014 21:30	0.24	0.42	1.07	1.06	0.19	0.37	1.16	1.10
7/27/2014 22:00	0.23	0.42	1.07	1.06	0.19	0.37	1.16	1.10
7/27/2014 22:30	0.23	0.42	1.07	1.06	0.19	0.37	1.16	1.10

**Preliminary Data from Central Monitoring System**

<b>Date and Time</b>	<b>Filter Bank 41-B-856 (in wg*)</b>				<b>Filter Bank 41-B-857 (in wg*)</b>			
	<b>MOD</b>	<b>HIGH</b>	<b>HEPA 1</b>	<b>HEPA 2</b>	<b>MOD</b>	<b>HIGH</b>	<b>HEPA 1</b>	<b>HEPA 2</b>
7/27/2014 23:00	0.23	0.42	1.08	1.06	0.19	0.37	1.16	1.10
7/27/2014 23:30	0.23	0.42	1.07	1.06	0.19	0.37	1.16	1.10

\*in wg - inches of water gauge

**Attachment 6**

**Surface and Underground Derived Waste Currently  
in Storage at the WIPP Facility**

NMED Bi-Weekly Report for July 14, 2014, through July 27, 2014

Container Number	Container Type	Date Stored	Derived Waste Description	Container Contents	Surface/Underground	Container Location	Storage Deadline	Mixed/Non-Mixed	Waste Volume <sup>1</sup> (ft <sup>3</sup> )
WISD002	SWB	6/13/2014	Mod and High-Efficiency filters from 41-B-856 filter unit change out	(5) filters, cardboard box and plastic bags (filter packaging material)	Surface	CH Bay	9/12/2014	Mixed	66.3
WISD003	SWB	6/13/2014	Mod and High-Efficiency filters from 41-B-856 filter unit change out	(5) filters, cardboard box and plastic bags (filter packaging material)	Surface	CH Bay	9/12/2014	Mixed	66.3
WISD004	SWB	6/13/2014	Mod and High-Efficiency filters from 41-B-856 filter unit change out	(5) filters, cardboard box and plastic bags (filter packaging material)	Surface	CH Bay	9/12/2014	Mixed	66.3
WISD005	SWB	6/13/2014	Mod and High-Efficiency filters from 41-B-856 filter unit change out	(5) filters, cardboard box and plastic bags (filter packaging material)	Surface	CH Bay	9/12/2014	Mixed	66.3
WISD006	SWB	6/21/2014	Mod and High-Efficiency filters from 41-B-857 filter unit change out	(5) filters, cardboard box and plastic bags (filter packaging material)	Surface	CH Bay	9/12/2014	Mixed	66.3
WISD007	SWB	6/21/2014	Mod and High-Efficiency filters from 41-B-857 filter unit change out	(5) filters, cardboard box and plastic bags (filter packaging material)	Surface	CH Bay	9/12/2014	Mixed	66.3
WISD008	SWB	6/24/2014	Mod and High-Efficiency filters from 41-B-857 filter unit change out	(5) filters, cardboard box and plastic bags (filter packaging material)	Surface	CH Bay	9/12/2014	Mixed	66.3

NMED Bi-Weekly Report for July 14, 2014, through July 27, 2014

Container Number	Container Type	Date Stored	Derived Waste Description	Container Contents	Surface/Underground	Container Location	Storage Deadline	Mixed/Non-Mixed	Waste Volume <sup>1</sup> (ft <sup>3</sup> )
WISD009	SWB	6/24/2014	Mod and High-Efficiency filters from 41-B-857 filter unit change out	(5) filters, cardboard box and plastic bags (filter packaging material)	Surface	CH Bay	9/12/2014	Mixed	66.3
WISD010	SWB	6/24/2014	Mod and High-Efficiency filters from 41-B-857 filter unit change out	(5) filters, cardboard box and plastic bags (filter packaging material)	Surface	CH Bay	9/12/2014	Mixed	66.3
WISD011	SWB	6/24/2014	Mod and High-Efficiency filters from 41-B-857 filter unit change out	(5) filters, cardboard box and plastic bags (filter packaging material)	Surface	CH Bay	9/12/2014	Mixed	66.3
See Footnote (2)	SWB	6/24/2014	Mod and High-Efficiency filters from 41-B-857 filter unit change out	(1) filter, cardboard box and plastic bags (filter packaging material)	Surface	DWSA	---	Mixed	---
10 Containers	---	---	---	---	---	---	---	---	663.0 ft <sup>3</sup>

<sup>1</sup>55G Drum=7.4 ft<sup>3</sup>, SWB=66.3 ft<sup>3</sup>, TDOP=160 ft<sup>3</sup>, 85G Drum=11.4 ft<sup>3</sup>, 100G Drum=13.4 ft<sup>3</sup>, SLB2=261 ft<sup>3</sup> (Permit Part 3, Section 3.3.1).

<sup>2</sup>Derived waste may be accumulated and stored in the DWSA until the container is full (Permit Part 3, Section 3.1.1.7)

SWB – standard waste box

DWSA – Derived Waste Storage Area

**Attachment 7**

**Status of RCRA Contingency Plan Required Activities (reserved)**

**Attachment 8**  
**Corrective Actions Required for Recovery**  
**(reserved)**

**Attachment 9**  
**Waste Placement Layout Maps, Panel 7, Room 7**  
**(reserved)**

**Attachment 10**  
**Weekly Map Update, Panels 7 and 8 (reserved)**

## **Attachment 11**

### **As-Found Condition of Panel 7 (reserved)**

## **Attachment 12**

### **Panel 7 Recovery-Related Work (reserved)**