Department of Energy
Carlsbad Field Office
P. O. Box 3090
Carlsbad, New Mexico 88221

OCT 30 2015

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

Ms. Kathryn Roberts, Director
Resource Protection Division
New Mexico Environment Department
Harold Runnels Building
1190 Saint Francis Drive, Room 4050
Santa Fe, NM 87502-5469

Subject: Monthly Report for the Reporting Period ending September 30, 2015, as required by NMED Administrative Orders dated February 27, 2014 and May 12, 2014, as amended by NMED Directives dated August 29, 2014, December 9, 2014, and July 15, 2015

Dear Mr. Kieling and Ms. Roberts:

The purpose of this letter is to transmit the monthly report for the reporting period ending September 30, 2015, as required by the February 27, 2014, and May 12, 2014, Administrative Orders, issued under the authority of the New Mexico Hazardous Waste Act § 74-4-13 from Ryan Flynn to Messrs. Hellstrom, Franco, Cook, and McQuinn, and as amended by the August 29, 2014 and December 9, 2014, directives from Ryan Flynn to Messrs. Franco and McQuinn and the July 15, 2015 directive from Ms. Kathryn Roberts to Messrs. Bryson and Breidenbach. This paper copy of the report is enclosed along with a compact disc containing the electronic version of the report.

We certify under penalty of law that this document and all attachments were prepared under our direction or supervision according to 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

Todd Shrader, Manager
Carlsbad Field Office

Philip J. Breidenbach, Project Manager
Nuclear Waste Partnership LLC

Enclosure

cc: w/enclosure
R. Maestas, NMED * ED
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Monthly Status Report for the New Mexico Environment Department Administrative Orders

Reporting Period September 1, 2015, through September 30, 2015

Introduction

The New Mexico Environment Department (NMED) issued two Administrative Orders (AOs) to provide requirements for monitoring and reporting to the NMED concerning the status of recovery from two events. On February 5, 2014, a vehicle fire occurred in the Waste Isolation Pilot Plant (WIPP) underground, resulting in temporary suspension of normal operations and waste shipments from generator sites. On February 14, 2014, while the fire investigation was still underway, a radiological event occurred in the WIPP underground facility.

The first administrative order (AO1) issued on February 27, 2014, addressed above-ground compliance, 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 restriction on access to the underground. The second administrative order changed the reporting period from weekly to biweekly, with additional information required to supplement the information required by AO1. A directive from the Secretary of the NMED was issued on August 29, 2014, which amended the reporting frequency from biweekly to monthly for reporting required under AO1 and AO2 with the submittal being due to NMED no later than the 15th of the month for activities conducted during the previous month. A new directive from the Secretary of the NMED was issued on December 9, 2014, which amended the submittal frequency for this report. The new due date for the monthly submittal shall be the last day of the subsequent month for activities conducted during the previous month.

On May 20, 2014, NMED issued a third administrative order (AO3) requiring the submittal of a WIPP Nitrate Salt Bearing Waste Container Isolation Plan. The order prescribed that updates be provided on the plan's implementation via technical calls and written updates. On July 15, 2015, NMED issued a letter describing modification to the May 20, 2014, administrative order and amendment to the reporting requirements pertaining to all CY 2014 administrative orders. Initial closure of Panel 6 and closure of Panel 7, Room 7 were completed in accordance with the plan; therefore, the technical calls and written updates memorializing those calls have ceased pursuant to the July 15, 2015, letter from the NMED.

This report serves to fulfill the monitoring and reporting requirements set forth by AO1, AO2, and AO3 as amended by the NMED directives dated August 29, 2014, December 9, 2014, and July 15, 2015. In accordance with Paragraph 18(a) of AO2, subsequent reports will identify new information since the previous reporting period. The following sections combine the information required by the three orders and provide references to the respective paragraphs from AO1, AO2, and AO3.

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:

Attachment 1, *Surface and Underground Inspections*, shows the current status of each Permit-required inspection, including accessibility of underground equipment for personnel performing the inspections. The Permit-related inspection list was taken from Permit Attachment E, Table E-1. Inspections and preventive maintenance (PM) are not required for equipment that is out of service. 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. Prior to commencing RH TRU waste handling operations, PMs and/or inspections will be brought into current/compliant status.

During this reporting period, there have been changes made to Attachment E, Table E-1, Inspection Schedule/Procedures in the Permit. A Class 1 Permit Modification was submitted to the NMED on September 30, 2015, describing the change. The modification added "Leaks/Spills" criterion to the "Procedure Number and Inspection Criteria" column to Table E-1 for the following equipment: Contact-Handled (CH) TRU Underground Transporter, Forklifts Used for Waste Handling (Electric and Diesel forklifts, Push-Pull Attachment), and the Trailer Jockey. The modification also added a footnote for "Mine Pager Phones (between surface and underground)" line item. The new footnote reads: Mine pager phones in non-essential locations are not routinely inspected. Many are used in day-today operations. They are used until they fail, at which time they are repaired. Mine pager phones are used routinely by Underground Operations. Additional inspection changes to Table E-1 includes upgrades from manual fire suppression systems on certain vehicles, such as waste handling equipment in the underground and on the surface, with automatic on-board fire suppression systems. These changes are reflected in Attachment 1, *Surface and Underground Inspections*, to this document.

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, and a subsequent letter from the NMED dated September 24, 2014, the Permittees submitted a revised draft of the underground compliance plan (UCP) on October 30, 2014, for NMED's review and comment. Pertinent elements of the WIPP Recovery Plan were integrated into the UCP as these elements pertain to the Permit-related requirements addressed by the AOs. Currently, certain monitoring activities cannot be performed due to restrictions on the access to those portions of the underground where monitoring activities occur. The UCP contains a compliance schedule including a proposed timeline, including dates, for achieving underground recovery and attaining compliance with these Permit-required activities. A status of these activities, as described in future updates to the UCP, will be reflected in the monthly 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) including 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) are not currently being performed due to radioactive contamination.

Surface VOC monitoring is being conducted in lieu of underground monitoring during recovery operations utilizing portable passive air sampling kits. Surface monitoring is being performed 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 non-waste workers are satisfied. Samples are being collected twice each week at one location on-site and one location off-site. The two monitoring locations, which are 24-hour VOC samples, are collected on the surface near the Training Building and at an off-site location (WQSP-4) approximately a mile southeast of the Training Building. These samples are used to quantify VOC exposure to a receptor (surface worker) in the Training Building. The sample on-site and the sample at location WQSP-4 are used to quantify 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.

Disposal room VOC monitoring is not being conducted in the underground as stated above. This does not pose a threat to underground waste workers because waste handling is not underway in the underground. Disposal room monitoring will be restarted prior to resuming waste emplacement activities.

Geomechanical Monitoring

The purpose of geomechanical monitoring is to confirm the structural integrity of the underground repository. Geomechanical monitoring data are transmitted electronically via remote instruments located in Room 6 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. More than 4,400 bolts have been installed in the underground since bolting activities resumed in November 2014, and catchup bolting is approximately 85 percent complete. Catchup bolting in the E-140 drift is complete, and bolting in the E-300 exhaust drift is ongoing.

Hydrogen and Methane Monitoring

Hydrogen and methane monitoring activities (required by Permit Part 4, Section 4.6.5 and associated requirements in Attachment N1) are not currently being performed due to radioactive contamination. This does not pose a threat to underground waste workers because underground activities are not underway in the vicinity of Panels 3 and 4. Hydrogen and methane monitoring will be addressed during recovery.

Mine Ventilation Rate Monitoring

Mine ventilation rate monitoring activities (required by Permit Part 4, Section 4.6.4 and associated requirements of Permit Attachment O) are currently being performed. However, due to reduced air flow in the underground because of operating in filtration mode, the minimum running annual average ventilation rate set forth by the Permit cannot be maintained. Pursuant to the Nitrate Salt Bearing Waste Container Isolation Plan,

Revision 2, Section 3, high-efficiency particulate air (HEPA) filtration of underground exhaust air is continuing. 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 calculated running annual average ventilation flow rate as of September 30, 2015, was 59,861 SCFM. Surface VOC monitoring is being used to ensure the reduced flow rate does not pose a threat to the surface non-waste worker.

3.0 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:

Waste is currently being stored in the Waste Handling Building (WHB). Since the submittal of the last monthly report, there has been no additional waste placed in storage in the WHB, and there were no changes to the storage deadlines during this reporting period. Therefore, Attachment 2, *TRU Mixed Waste Currently in Storage at the WIPP Facility*, is currently reserved. Attachment 2 was last updated June 30, 2015.

4.0 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 his reporting period, as requested per Paragraph 14(f) of AO1:

See Attachment 3, *Environmental Monitoring,* which includes tables with the locations of environmental monitoring equipment (including identification whether they are stationary, mobile, or permanent) and new data for this reporting period. Aerial photos and diagrams displaying monitoring locations are included. The following briefly describes the monitoring information in Attachment 3, *Environmental Monitoring*.

- VOC monitoring stations – Portable surface monitoring equipment has been deployed since February 25, 2014. Samples are being collected twice each week at the locations indicated in Attachment 3. The results are included in Attachment 3, *Environmental Monitoring*.
- Radiological monitoring – During this reporting period, monitoring results were below minimum detectable concentrations. The results are included in Attachment 3, *Environmental Monitoring*.
    - Air samples – Air samples were obtained on the dates shown in Attachment 3.
    - Biota/Vegetation samples – Vegetation samples were obtained on the dates shown in Attachment 3.
    - Surface water samples – Surface water samples were obtained on the date shown in Attachment 3.

5.0 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 (UDWSP)* was submitted to the NMED by June 26, 2014 for review and comment. On December 2, 2014, NMED provided comments on the UDWSP and notified the Permittees that the draft UDWSP had been approved. The Permittees addressed the comments, incorporated changes and resubmitted the UDWSP to NMED on January 6, 2015. Since the submittal of the last monthly report, no additional derived waste was generated; therefore, Attachment 4, *Surface and Underground Derived Waste Currently in Storage at the WIPP Facility,* is currently reserved. Attachment 4 was last updated June 30, 2015.

6.0 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:

During this reporting period, there have been changes in the status of the RCRA Contingency Plan. A new equipment line item was added to Attachment D, Table D-6 in the Permit that describes the automatic fire suppression system on liquid fueled vehicles. This change is an upgrade to existing fire suppression systems, and it satisfies specific concerns identified by the Accident Investigation Board for the Haul-Truck Fire Incident on February 5, 2014. A Class 1 Permit Modification was submitted to the NMED on September 30, 2015, describing this change. Attachment 5, *Status of RCRA Contingency Plan Required Activities*, shows the change made to Table D-6 in the Permit.

Additionally, the *Fifth Supplement to the Report of Implementation of the Waste Isolation Pilot Plan Facility Resource Conservation and Recovery Act Contingency Plan on April 11, 2014*, was submitted to the NMED on September 16, 2015, as a result of the provisional applications of EPA Hazardous Waste Numbers (HWNs) D001 and D002 to one hundred ninety-two waste containers that have been disposed at the WIPP facility, as described in Section 11.0 of this report.

7.0 The monthly 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 U.S. Department of Energy (DOE). Attachment 6, *Corrective Actions Required for Recovery*, was last updated April 30, 2015.

8.0 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:

On May 20, 2015, isolation of nitrate salt bearing waste containers was completed with the closure of Panel 7, Room 7. This action item is complete; therefore, status updates are no longer required.

9.0 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:

WIPP personnel completed the initial closure of Panel 6 in May 2015. This action item is complete; therefore, status updates are no longer required.

10.0 The Permittees shall provide a status of recovery-related activities relative to the underground per Paragraph 18I(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:

The independent Technical Assistance Team (TAT) confirmed that one drum in Panel 7, Room 7, from LANL was responsible for the 2014 radiological release. The report concluded that the drum contained chemically incompatible materials, ultimately leading to the release. The *overarching conclusion* is that chemically incompatible contents of Drum 68660 from LANL in combination with physical conditions (e.g., the configuration of the materials in the drum) supported exothermic chemical reactions leading to a thermal runaway; the consequent build-up of gases within the drum displaced the drum lid, venting radioactive materials and hot matter that further reacted with air or other materials outside the drum to cause the damage observed in WIPP Panel 7, Room 7.

In April 2015, the Department of Energy Office of Environmental Management (EM) released the Accident Investigation Board (AIB) Phase 2 Report related to the February 14, 2014 radiological event. The AIB concluded that the release was caused by an exothermic reaction involving the mixture of organic materials and nitrate salts in one drum that was processed at LANL in December 2013. The AIB also concluded that an underground salt haul truck fire that occurred at WIPP on February 5, 2014, did not cause or contribute to the radiological release event.

During this reporting period, progress continued on contamination mitigation in Panel 7, Rooms 1-5, and the S-2520 drift. A pathway from the waste hoist to the opening of Panel 7 has been rolled back to a controlled area, which requires no additional personal protection equipment for radiological safety. Panel 7 will remain posted as a contamination area. An updated radiological rollback map is shown in Attachment 7*, Panel 7 & Other Recovery-Related Work.* Also, new emergency response vehicles are now stationed in the WIPP underground. A photograph of the new vehicles is shown in Attachment 7 as well.

As the Permittees continue to conduct recovery-related activities, additional descriptions will be provided in subsequent reports.

11.0 The Permittees shall submit a WIPP Nitrate Salt Bearing Waste Container Isolation Plan per Paragraph 22(a) of AO3. The plan shall contain a detailed proposal for the expedited closure of Panel 6 per Paragraph 22(a)(i) of AO3 and the expedited closure of Panel 7, Room 7 per Paragraph 22(a)(iii) of AO3:

On May 20, 2015, isolation of nitrate salt bearing waste containers was completed with the closure of Panel 7, Room 7. WIPP personnel also completed the initial closure of Panel 6 in May 2015. Initial closure of Panel 6, and closure of Panel 7, Room 7 were completed in accordance with the plan. Any written updates to information in the Plan will be provided with the existing monthly report in accordance with an NMED letter dated July 15, 2015.

During this reporting period, there has been a change to the status of TRU mixed waste currently stored at the WIPP facility. A letter dated September 16, 2015, was submitted to the NMED, which provisionally applied additional hazardous waste numbers to one hundred ninety-two containers at the WIPP facility. The letter also reported the provisional application of HWN D002 to eighty-eight of these containers. The hazardous waste numbers apply specifically to containers from Los Alamos National Laboratory (LANL) homogeneous solids waste stream LA-CIN01.001 and LANL debris waste stream LA-MHD01.001. One hundred eighty-nine (189) of these containers are located in Panel 6 and three (3) are located in Panel 7. Attachment 9, *WIPP Nitrate Salt Bearing Waste Container Isolation Plan Information Required by Administrative Order 3*, contains a listing by container number, of the containers to which the additional hazardous waste numbers provisionally apply including their disposal locations and respective shipment numbers.

Attachment 1
Surface and Underground Inspections

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)[1]	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	9/30/15	N/A	
Exhaust Shaft	Underground Operations	Quarterly	PM041099 Inspecting for Deterioration and Leaks/Spills	Current	9/14/15	N/A	
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	9/29/15	N/A	
Self-Rescuers	Underground Operations	Quarterly	WP 04-AU1026 Inspecting for Deterioration and Functionality in accordance with MSHA requirements	Current	9/30/15	N/A	
Underground Openings—Roof Bolts and Travelways	Underground Operations	Weekly	WP 04-AU1007 Inspecting for Deterioration	Current	9/29/15	N/A	
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	9/28/15	N/A	

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)[1]	Comments
Explosion-Isolation Walls	Underground Operations	Quarterly	Integrity and Deterioration of Accessible Areas	Not Current	8/3/15	11/30/15	Inspections for Panel 1 and Panel 2 are current for the quarter. Inspections in Panel 5 are not current due to access control.
Bulkhead in Filled Panels	Underground Operations	Monthly	Integrity and Deterioration of Accessible Areas	Not Current	9/14/15, 9/15/15, 9/17/15	11/30/15	Access prohibited to Panels 3 and 4. Inspections on Panel 6 and Panel 7 bulkheads are current for September.
MSHA Air Quality Monitor	Maintenance/ Underground Operations	Daily	WP 12-IH1828 Inspecting for Air Quality Monitoring Equipment Functional Check	Current	9/30/15		
Ambulances (Surface) and related emergency supplies and equipment	Emergency Services	Weekly	12-FP0030 Inspecting for Mechanical Operability, Deterioration, and Required Equipment	Current	9/27/15	N/A	
Ambulances (Underground) and related emergency supplies and equipment	Emergency Services	Weekly	12-FP0030 Inspecting for Mechanical Operability, Deterioration, and Required Equipment	Current For in-service ambulance #2	9/26/15	11/30/15	The underground ambulance #2 is in service. Underground ambulance #3 arrived at the WIPP site on August 20, 2015. It is expected to go into service in November 2015.

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)[1]	Comments
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	Current	7/1/15	N/A	
Fire Extinguishers (Surface)	Emergency Services	Monthly	12-FP0036 Inspecting for Deterioration, Leaks/Spills, Expiration, seals, fullness, and pressure	Current	9/30/15	N/A	
Fire Extinguishers (Underground)	Emergency Services	Monthly	12-FP0036 Inspecting for Deterioration, Leaks/Spills, Expiration, seals, fullness, and pressure	Current	9/30/15	N/A	
Fire Hoses	Emergency Services	Annually (minimum)	12-FP0031 Inspecting for Deterioration and Leaks/Spills	Current	2/28/15	N/A	
Fire Hydrants	Emergency Services	Semiannual/ annually	12-FP0034 Inspecting for Deterioration and Leaks/Spills	Current	3/28/15: (Semiannual) 8/1/15 – 8/6/15: (Annual)	N/A	
Fire Pumps	Emergency Services	Weekly/ annually	WP 12-FP0026 Inspecting for Deterioration, Leaks/Spills, valves, and panel lights	Current	9/28/15	N/A	

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)[1]	Comments
Fire Sprinkler Systems	Emergency Services	Monthly/ quarterly	WP 12-FP0025 Inspecting for Deterioration, Leaks/Spills, static pressures, and removable strainers	Current	9/28/15, 9/30/15	N/A	
Fire and Emergency Response Trucks (Surface Fire Trucks)	Emergency Services	Weekly	12-FP0033 Inspecting for Mechanical Operability, Deterioration, Leaks/Spills, and Required Equipment	Current	9/25/15, 9/26/15	N/A	
Fire and Emergency Response Trucks (Underground Fire Suppression Vehicles)	Emergency Services	Weekly	12-FP0033 Inspecting for Mechanical Operability, Deterioration, Leaks/Spills, and Required Equipment	Current for vehicle on site.	9/27/15	10/31/15	There are 8 underground fire suppression vehicles on the equipment list. Weekly inspections have been performed on the single underground fire suppression vehicle that was previously on-site (prior to August 2015). The other seven underground fire suppression vehicles arrived on-site August 31, 2015. These vehicles are expected to go into service in October 2015.
Automatic on-board fire suppression systems	Emergency Services	Semiannual	WP 12-FP0060 Inspecting for Mechanical Operability, Deterioration	NEW	N/A	12/31/15	The manual fire suppression systems on certain vehicles, such as waste handling equipment in the underground and on the surface, have been replaced with automatic on-board fire suppression systems.

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)[1]	Comments
Hazardous Material Response Equipment	Emergency Services	Weekly	12-FP0033 Inspecting for Mechanical Operability, Deterioration, and Required Equipment	Current	9/29/15	N/A	
Miners First Aid Station	Emergency Services	Quarterly	12-FP0035 Inspecting for Required Equipment	Current	7/1/15	N/A	
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	9/25/15, 9/26/15	N/A	Self-Contained Breathing Apparatuses are currently located on the emergency vehicles and weekly inspections are being performed as related emergency supplies and equipment are updated.
Rescue Truck (Surface)	Emergency Services	Weekly	12-FP0030 and 12-FP0033 Inspecting for Mechanical Operability, Deterioration, Leaks/Spills, and Required Equipment	Current	9/24/15	N/A	Rescue Truck was off-site for repairs for part of August. The Rescue Truck was returned to service 9/15/15.
Rescue Trucks (Underground)	Emergency Services	Weekly	12-FP0030 and 12-FP0033 Inspecting for Mechanical Operability, Deterioration, Leaks/Spills, and Required Equipment	Not Current for truck on site.	2/8/14	11/30/15	There are two underground rescue trucks on the equipment list, but one is still awaiting arrival to the site. The arrival of the second rescue truck is anticipated for October 2015. Because the rescue truck is currently not operating, underground emergency response compensatory measures have been implemented including fire and medical.

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)[1]	Comments
Vehicle Siren (Surface Vehicles)	Emergency Services	Weekly	Functional Test included with inspection of the Ambulances, Fire Trucks, and Rescue Trucks	Current	9/24/15, 9/25/15, 9/26/15, 9/27/15	N/A	
Vehicle Siren (Underground Vehicles)	Emergency Services	Weekly	Functional Test included with inspection of the Ambulances, Fire Trucks, and Rescue Trucks	Current/	9/26/15, 9/27/15	N/A	
Adjustable Center of Gravity Lift Fixture	Waste Handling	Preoperational	WP 05-WH1410 Inspecting for Mechanical Operability and Deterioration	Current	9/24/15 (41-T-037) 10/23/14 (41-T-038) 7/10/15 (41-T-032) 4/13/15 (41-T-036)	N/A	
Contact-Handled (CH) TRU Underground Transporter	Waste Handling	Preoperational	WP 05-WH1603 Inspecting for Leaks/Spills, Mechanical Operability, Deterioration, and area around transporter clear of obstacles	Current	7/23/15 (52-H-008A)	N/A	One of three transporters is now in service. This is a pre-operational check needed only prior to use. This transporter is in the uncontaminated area of the mine.
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	7/13/15 (41-H-018)	N/A	This is a pre-operational inspection and is not needed for daily operations. Pre-operational inspection performed for training.

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)[1]	Comments
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	7/14/15 (41-H-020A) 7/10/15 (41-H-020B)	N/A	
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 Leaks/Spills, Mechanical Operability, Deterioration, and On board fire suppression system	Current	7/09/15 (41-H-009) 7/8/15 (41-H-013) 6/10/15 (41-H-051) 9/7/15 (41-H-012D) 9/27/15 (41-H-012E) 5/23/15 (74-H-010B)	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 Leaks/Spills, Mechanical Operability, Deterioration, and On board fire suppression system	Current	5/20/15 (52-H-126)	N/A	One 6-ton forklift in the underground is now in service in Panel 7. The inspection was completed as shown as pre-operational. Other forklifts are not in use due to the fire and radiological event.

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)[1]	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	9/23/15 (Weekly) 9/27/15 (Daily)	N/A	
TRU Mixed Waste Decontamination Equipment	Waste Handling	Annually	WP 05-WH1101 Inspecting for Required Equipment	Current	12/30/14	N/A	Annual 2014 Inspection. This is an annual inspection and not needed for daily operation.
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	Waste handling operations are suspended therefore preoperational inspections are not being performed.
TDOP Upender	Waste Handling	Preoperational	WP 05-WH1010 Inspecting for Mechanical Operability and Deterioration	Current	10/9/13	When waste disposal operations resume	No change. This is a pre-operational inspection and is not needed for daily operations.
Waste Handling Cranes	Waste Handling	Preoperational	WP 05-WH1407 Inspecting for Mechanical Operability, Deterioration, and Leaks/Spills	Current	1/6/15 (41-T-151A) 7/7/15 (41-T-151B) 7/23/15 (41-T-151C) 9/21/15 (41-T-151D)	N/A	There are four cranes, but the pre-operational inspections were only performed on the cranes listed. The other crane will be inspected prior to use.

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)[1]	Comments
Push-Pull Attachment (Surface)	Waste Handling	Preoperational	WP 05-WH1401 Inspecting for Damage and Deterioration	Current	7/08/15 (41-T-160A) 9/1/15 (41-T-160B)	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 preoperational inspection was completed for training purposes and in support of preventive maintenance only. Inspection not intended for daily operations.
Trailer Jockey	Waste Handling	Preoperational	WP 05-WH1405 Inspecting for Leaks/Spills, Mechanical Operability and Deterioration	Current	9/27/15 (41-H-151A) 9/27/15 (41-H-151B) 9/27/15 (41-H-046)	N/A	There are three trailer jockeys. Inspections are only performed if the equipment is used on the shift.
Bolting Robot	Waste Handling	Preoperational	WP 05-WH1203 Mechanical Operability	Current	6/29/12	When waste disposal operations resume	Equipment not in use due to the fire and radiological events. The preoperational inspection was completed for training purposes and in support of preventive maintenance only. Inspection not intended for daily operations.
Yard Transfer Vehicle	Waste Handling	Preoperational	WP 05-WH1205 Mechanical Operability, clear of obstacles and Guards in proper place	Current	7/29/14 (41-H-021A) 7/21/15 (41-H-021B)	N/A	

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)[1]	Comments
Payload Transfer Station	Waste Handling	Preoperational	WP 05-WH1208 Mechanical Operability, Deterioration, and Guards in proper place	Current	12/16/14 (41-Z-041)	N/A	
Monorail Hoist	Waste Handling	Preoperational	WP 05-WH1202 Mechanical Operability, and Leaks/Spills	Current	8/07/15 (41-H-027)	N/A	
Bolting Station	Waste Handling	Preoperational	WP 05-WH1203 Mechanical Operability, Deterioration, and Guards in proper place	Current	3/23/15 (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	9/24/15 (#1) 9/24/15 (#2)	N/A	
Central Monitoring System (CMS)	Facility Operations	Continuous	Automatic Self-Checking	Current	9/30/15	N/A	
Mine Pager Phones (between surface and underground)	Facility Operations	Monthly (see comment)	WP 04-PC3017 Testing of PA and Underground Alarms and Mine Page Phones at essential locations	Current	9/24/15	N/A	Mine pager phones in non-essential locations are not routinely inspected. Many are used in day-to-day operations. They are used until they fail, at which time they are repaired. Mine pager phones are used routinely by Underground Operations.

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)[1]	Comments
Mine Pager Phones (underground)	Facility Operations	Monthly (see comment)	WP 04-PC3017 Testing of PA and Underground Alarms and Mine Page Phones at essential locations	Current	9/24/15	N/A	Mine pager phones in non-essential locations are not routinely inspected. Many are used in day-to-day operations. They are used until they fail, at which time they are repaired. Mine pager phones are used routinely by Underground Operations.
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	9/24/15	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	Current	9/24/15	N/A	
Radio Equipment	Facility Operations	Daily	Radios are operated daily and are repaired upon failure	Current	9/30/15	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	9/30/15	N/A	

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)[1]	Comments
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	9/30/15	N/A	
Facility Inspections (Water Diversion Berms)	Facility Engineering	Annually	WP 10-WC3008 Inspecting for Damage, Impediments to water flow, and Deterioration	Current	9/7/14	N/A	
Eye Wash and Shower Equipment (Surface)	Equipment Custodian	Weekly	WP 12-IS1832 Inspecting for Deterioration	Current	9/28/15- 9/30/15	N/A	
Eye Wash and Shower Equipment (Underground)	Equipment Custodian	Weekly	WP 12-IS1832 Inspecting for Deterioration	Current	9/28/15, 9/30/15	N/A	
Perimeter Fence, Gates, Signs	Security	Daily	PF0-008 Inspecting for Deterioration and Posted Warnings	Current	9/27/15	N/A	
Underground—Geomechanical Instrumentation System (GIS)	Geotechnical Engineering	Monthly	WP 07-EU1301 Inspecting for Deterioration	Current	9/29/15	N/A	Complete at accessible areas.

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)[1]	Comments
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)	No date set because the 700 fans are not used while in filtration mode.	The 700 horsepower fans are not in use because underground ventilation system is operating in filtration mode.

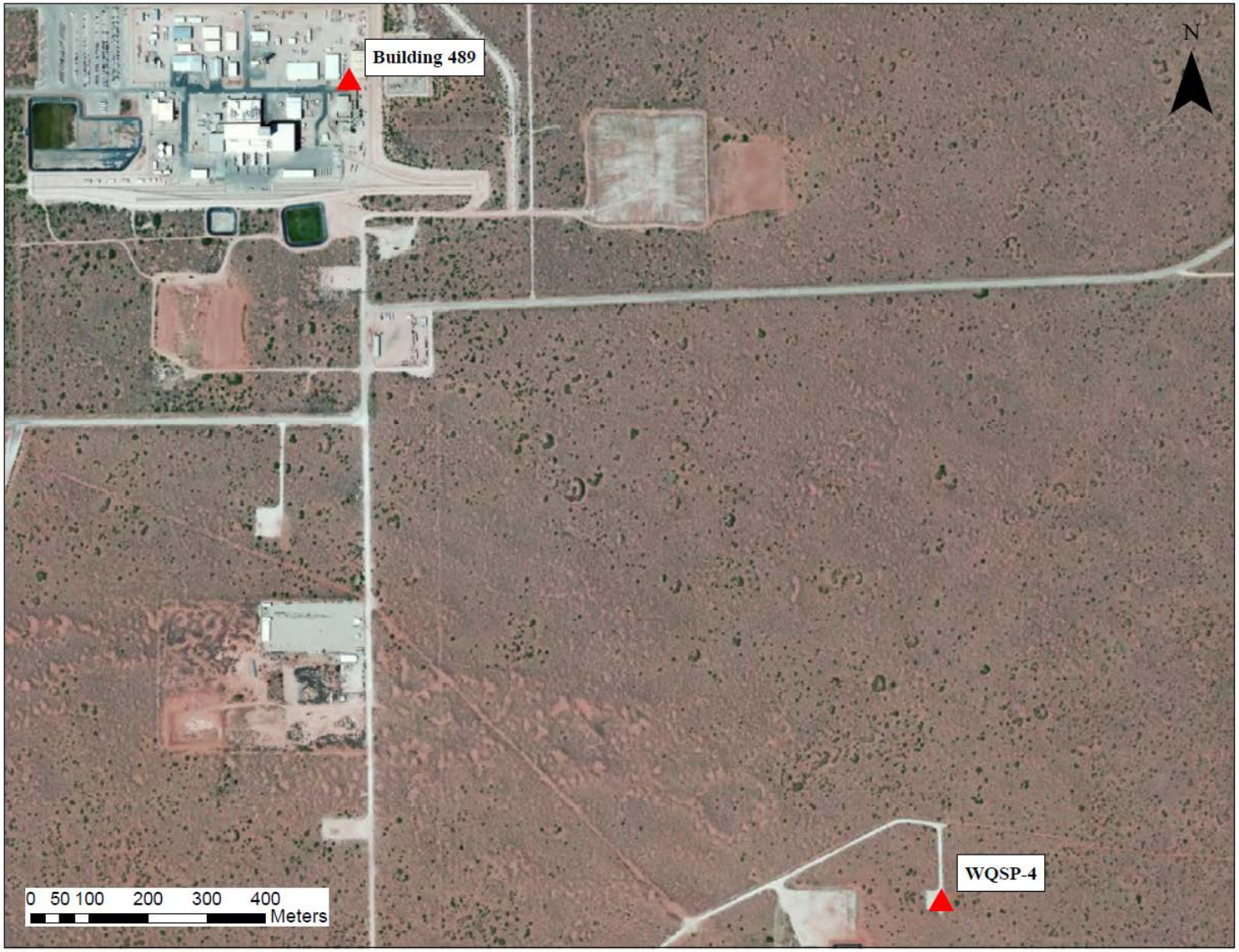
[1] Routine inspections are proposed to begin with resumption of normal operations.

Attachment 2
TRU Mixed Waste Currently in Storage at the WIPP Facility (reserved)
[Last updated June 30, 2015]

Attachment 3
Environmental Monitoring

Attachment 3 contains the following environmental monitoring information:

- VOC Monitoring Map & Validated VOC Data
- Radiological Monitoring Maps & Data
    - Validated air sample data
    - Validated biota/vegetation sample data
    - Validated surface water sample data



VOC Sampling Locations

Validated VOC Monitoring Data – Surface Sampling at the WIPP

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

Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	UNITS	MRL*	Concentration
CEMRC	7/22/2015	8/4/2015	9306	WQSP-4	Methylene Chloride	75-09-2	PPBV	0.4	U
CEMRC	7/22/2015	8/4/2015	9306	WQSP-4	Carbon Tetrachloride	56-23-5	PPBV	0.4	U
CEMRC	7/22/2015	8/4/2015	9306	WQSP-4	1,1,1-Trichloroethane	71-55-6	PPBV	0.4	U
CEMRC	7/22/2015	8/4/2015	9306	WQSP-4	Chlorobenzene	108-90-7	PPBV	0.4	U
CEMRC	7/22/2015	8/4/2015	9306	WQSP-4	Toluene	108-88-3	PPBV	0.4	0.42
CEMRC	7/22/2015	8/4/2015	9306	WQSP-4	Chloroform	67-66-3	PPBV	0.4	U
CEMRC	7/22/2015	8/4/2015	9306	WQSP-4	1,1-Dichloroethylene	75-35-4	PPBV	0.4	U
CEMRC	7/22/2015	8/4/2015	9306	WQSP-4	1,1,2,2-Tetrachloroethane	79-34-5	PPBV	0.4	U
CEMRC	7/22/2015	8/4/2015	9306	WQSP-4	1,2-Dichloroethane	107-06-2	PPBV	0.4	U
CEMRC	7/22/2015	8/4/2015	9306	WQSP-4	Trichloroethylene (1)	79-01-6	PPBV	0.4	U
CEMRC	7/22/2015	8/4/2015	9306	WQSP-4	Acetone	67-64-1	PPBV		1.22 NJ
CEMRC	7/22/2015	8/4/2015	9306	WQSP-4	Butane	106-97-8	PPBV		5.26 NJ
CEMRC	7/22/2015	8/4/2015	9306	WQSP-4	Cyclohexane, methyl-	108-87-2	PPBV		0.48 NJ
CEMRC	7/22/2015	8/4/2015	9306	WQSP-4	Cyclopentane, methyl-	96-37-7	PPBV		0.52 NJ
CEMRC	7/22/2015	8/4/2015	9306	WQSP-4	Hexanal	66-25-1	PPBV		0.78 NJ
CEMRC	7/22/2015	8/4/2015	9306	WQSP-4	Isobutane	75-28-5	PPBV		3.34 NJ
CEMRC	7/22/2015	8/4/2015	9306	WQSP-4	Nonanal	124-19-6	PPBV		0.64 NJ
CEMRC	7/22/2015	8/4/2015	9306	WQSP-4	Pentane	109-66-0	PPBV		2.64 NJ
CEMRC	7/22/2015	8/4/2015	9306	WQSP-4	Pentane, 2-methyl-	107-83-5	PPBV		0.72 NJ
CEMRC	7/22/2015	8/4/2015	9306	WQSP-4	Propane	74-98-6	PPBV		4.84 NJ
CEMRC	7/22/2015	8/4/2015	9306	WQSP-4	Methylene Chloride	75-09-2	PPTV	200	50.56 J
CEMRC	7/22/2015	8/4/2015	9306	WQSP-4	Carbon Tetrachloride	56-23-5	PPTV	200	110.66 J

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.

* A value will not appear in the MRL column for TICs.
PPMV = parts per million by volume
PPTV = parts per trillion by volume

Validated VOC Monitoring Data – Surface Sampling at the WIPP

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

Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	UNITS	MRL*	Concentration
CEMRC	7/22/2015	8/4/2015	9306	WQSP-4	1,1,1-Trichloroethane	71-55-6	PPTV	200	U
CEMRC	7/22/2015	8/4/2015	9306	WQSP-4	Chlorobenzene	108-90-7	PPTV	200	U
CEMRC	7/22/2015	8/4/2015	9306	WQSP-4	Toluene	108-88-3	PPTV	200	421.84
CEMRC	7/22/2015	8/4/2015	9306	WQSP-4	Chloroform	67-66-3	PPTV	200	20 J
CEMRC	7/22/2015	8/4/2015	9306	WQSP-4	1,1-Dichloroethylene	75-35-4	PPTV	200	U
CEMRC	7/22/2015	8/4/2015	9306	WQSP-4	1,1,2,2-Tetrachloroethane	79-34-5	PPTV	200	44.94 J
CEMRC	7/22/2015	8/4/2015	9306	WQSP-4	1,2-Dichloroethane	107-06-2	PPTV	200	28.16 J
CEMRC	7/22/2015	8/4/2015	9306	WQSP-4	Trichloroethylene (1)	79-01-6	PPTV	200	U
CEMRC	7/22/2015	8/4/2015	9307	Building 489 Air Intake	Methylene Chloride	75-09-2	PPBV	0.6	U
CEMRC	7/22/2015	8/4/2015	9307	Building 489 Air Intake	Carbon Tetrachloride	56-23-5	PPBV	0.6	0.93
CEMRC	7/22/2015	8/4/2015	9307	Building 489 Air Intake	1,1,1-Trichloroethane	71-55-6	PPBV	0.6	U
CEMRC	7/22/2015	8/4/2015	9307	Building 489 Air Intake	Chlorobenzene	108-90-7	PPBV	0.6	U
CEMRC	7/22/2015	8/4/2015	9307	Building 489 Air Intake	Toluene	108-88-3	PPBV	0.6	0.33 J
CEMRC	7/22/2015	8/4/2015	9307	Building 489 Air Intake	Chloroform	67-66-3	PPBV	0.6	U
CEMRC	7/22/2015	8/4/2015	9307	Building 489 Air Intake	1,1-Dichloroethylene	75-35-4	PPBV	0.6	U
CEMRC	7/22/2015	8/4/2015	9307	Building 489 Air Intake	1,1,2,2-Tetrachloroethane	79-34-5	PPBV	0.6	U
CEMRC	7/22/2015	8/4/2015	9307	Building 489 Air Intake	1,2-Dichloroethane	107-06-2	PPBV	0.6	U
CEMRC	7/22/2015	8/4/2015	9307	Building 489 Air Intake	Trichloroethylene (1)	79-01-6	PPBV	0.6	0.24 J
CEMRC	7/22/2015	8/4/2015	9307	Building 489 Air Intake	Acetone	67-64-1	PPBV		0.78 NJ
CEMRC	7/22/2015	8/4/2015	9307	Building 489 Air Intake	Butane	106-97-8	PPBV		5.25 NJ
CEMRC	7/22/2015	8/4/2015	9307	Building 489 Air Intake	Pentane	109-66-0	PPBV		2.43 NJ
CEMRC	7/22/2015	8/4/2015	9307	Building 489 Air Intake	Propane	74-98-6	PPBV		5.25 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.

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

PPMV = parts per million by volume

PPTV = parts per trillion by volume

Validated VOC Monitoring Data – Surface Sampling at the WIPP

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

Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	UNITS	MRL*	Concentration
CEMRC	7/22/2015	8/4/2015	9307	Building 489 Air Intake	Methylene Chloride	75-09-2	PPTV	300	66.66 J
CEMRC	7/22/2015	8/4/2015	9307	Building 489 Air Intake	Carbon Tetrachloride	56-23-5	PPTV	300	902.16
CEMRC	7/22/2015	8/4/2015	9307	Building 489 Air Intake	1,1,1-Trichloroethane	71-55-6	PPTV	300	144.39 J
CEMRC	7/22/2015	8/4/2015	9307	Building 489 Air Intake	Chlorobenzene	108-90-7	PPTV	300	U
CEMRC	7/22/2015	8/4/2015	9307	Building 489 Air Intake	Toluene	108-88-3	PPTV	300	351.57
CEMRC	7/22/2015	8/4/2015	9307	Building 489 Air Intake	Chloroform	67-66-3	PPTV	300	73.77 J
CEMRC	7/22/2015	8/4/2015	9307	Building 489 Air Intake	1,1-Dichloroethylene	75-35-4	PPTV	300	U
CEMRC	7/22/2015	8/4/2015	9307	Building 489 Air Intake	1,1,2,2-Tetrachloroethane	79-34-5	PPTV	300	18.33 J
CEMRC	7/22/2015	8/4/2015	9307	Building 489 Air Intake	1,2-Dichloroethane	107-06-2	PPTV	300	U
CEMRC	7/22/2015	8/4/2015	9307	Building 489 Air Intake	Trichloroethylene (1)	79-01-6	PPTV	300	268.35 J
CEMRC	7/23/2015	8/4/2015	9308	WQSP-4	Methylene Chloride	75-09-2	PPBV	0.4	U
CEMRC	7/23/2015	8/4/2015	9308	WQSP-4	Carbon Tetrachloride	56-23-5	PPBV	0.4	U
CEMRC	7/23/2015	8/4/2015	9308	WQSP-4	1,1,1-Trichloroethane	71-55-6	PPBV	0.4	U
CEMRC	7/23/2015	8/4/2015	9308	WQSP-4	Chlorobenzene	108-90-7	PPBV	0.4	U
CEMRC	7/23/2015	8/4/2015	9308	WQSP-4	Toluene	108-88-3	PPBV	0.4	0.36 J
CEMRC	7/23/2015	8/4/2015	9308	WQSP-4	Chloroform	67-66-3	PPBV	0.4	U
CEMRC	7/23/2015	8/4/2015	9308	WQSP-4	1,1-Dichloroethylene	75-35-4	PPBV	0.4	U
CEMRC	7/23/2015	8/4/2015	9308	WQSP-4	1,1,2,2-Tetrachloroethane	79-34-5	PPBV	0.4	U
CEMRC	7/23/2015	8/4/2015	9308	WQSP-4	1,2-Dichloroethane	107-06-2	PPBV	0.4	U
CEMRC	7/23/2015	8/4/2015	9308	WQSP-4	Trichloroethylene (1)	79-01-6	PPBV	0.4	U
CEMRC	7/23/2015	8/4/2015	9308	WQSP-4	Acetone	67-64-1	PPBV		0.74 NJ
CEMRC	7/23/2015	8/4/2015	9308	WQSP-4	Butane	106-97-8	PPBV		4.9 NJ

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.

PPMV = parts per million by volume

PPTV = parts per trillion by volume

Validated VOC Monitoring Data – Surface Sampling at the WIPP

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

Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	UNITS	MRL*	Concentration
CEMRC	7/23/2015	8/4/2015	9308	WQSP-4	Butane, 2-methyl-	78-78-4	PPBV		2.2 NJ
CEMRC	7/23/2015	8/4/2015	9308	WQSP-4	Isobutane	75-28-5	PPBV		2.68 NJ
CEMRC	7/23/2015	8/4/2015	9308	WQSP-4	Pentane	109-66-0	PPBV		2.48 NJ
CEMRC	7/23/2015	8/4/2015	9308	WQSP-4	Propane	74-98-6	PPBV		4.3 NJ
CEMRC	7/23/2015	8/4/2015	9308	WQSP-4	Methylene Chloride	75-09-2	PPTV	200	50 J
CEMRC	7/23/2015	8/4/2015	9308	WQSP-4	Carbon Tetrachloride	56-23-5	PPTV	200	117.38 J
CEMRC	7/23/2015	8/4/2015	9308	WQSP-4	1,1,1-Trichloroethane	71-55-6	PPTV	200	U
CEMRC	7/23/2015	8/4/2015	9308	WQSP-4	Chlorobenzene	108-90-7	PPTV	200	U
CEMRC	7/23/2015	8/4/2015	9308	WQSP-4	Toluene	108-88-3	PPTV	200	356.28
CEMRC	7/23/2015	8/4/2015	9308	WQSP-4	Chloroform	67-66-3	PPTV	200	11.44 J
CEMRC	7/23/2015	8/4/2015	9308	WQSP-4	1,1-Dichloroethylene	75-35-4	PPTV	200	U
CEMRC	7/23/2015	8/4/2015	9308	WQSP-4	1,1,2,2-Tetrachloroethane	79-34-5	PPTV	200	59.06 J
CEMRC	7/23/2015	8/4/2015	9308	WQSP-4	1,2-Dichloroethane	107-06-2	PPTV	200	24.6 J
CEMRC	7/23/2015	8/4/2015	9308	WQSP-4	Trichloroethylene (1)	79-01-6	PPTV	200	U
CEMRC	7/23/2015	8/4/2015	9309	Building 489 Air Intake	Methylene Chloride	75-09-2	PPBV	0.6	U
CEMRC	7/23/2015	8/4/2015	9309	Building 489 Air Intake	Carbon Tetrachloride	56-23-5	PPBV	0.6	U
CEMRC	7/23/2015	8/4/2015	9309	Building 489 Air Intake	1,1,1-Trichloroethane	71-55-6	PPBV	0.6	U
CEMRC	7/23/2015	8/4/2015	9309	Building 489 Air Intake	Chlorobenzene	108-90-7	PPBV	0.6	U
CEMRC	7/23/2015	8/4/2015	9309	Building 489 Air Intake	Toluene	108-88-3	PPBV	0.6	0.27 J
CEMRC	7/23/2015	8/4/2015	9309	Building 489 Air Intake	Chloroform	67-66-3	PPBV	0.6	U
CEMRC	7/23/2015	8/4/2015	9309	Building 489 Air Intake	1,1-Dichloroethylene	75-35-4	PPBV	0.6	U
CEMRC	7/23/2015	8/4/2015	9309	Building 489 Air Intake	1,1,2,2-Tetrachloroethane	79-34-5	PPBV	0.6	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.

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

PPMV = parts per million by volume

PPTV = parts per trillion by volume

Validated VOC Monitoring Data – Surface Sampling at the WIPP

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

Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	UNITS	MRL*	Concentration
CEMRC	7/23/2015	8/4/2015	9309	Building 489 Air Intake	1,2-Dichloroethane	107-06-2	PPBV	0.6	U
CEMRC	7/23/2015	8/4/2015	9309	Building 489 Air Intake	Trichloroethylene (1)	79-01-6	PPBV	0.6	U
CEMRC	7/23/2015	8/4/2015	9309	Building 489 Air Intake	Acetone	67-64-1	PPBV		1.05 NJ
CEMRC	7/23/2015	8/4/2015	9309	Building 489 Air Intake	Butane	106-97-8	PPBV		5.04 NJ
CEMRC	7/23/2015	8/4/2015	9309	Building 489 Air Intake	Isobutane	75-28-5	PPBV		2.76 NJ
CEMRC	7/23/2015	8/4/2015	9309	Building 489 Air Intake	Pentane	109-66-0	PPBV		2.34 NJ
CEMRC	7/23/2015	8/4/2015	9309	Building 489 Air Intake	Propane	74-98-6	PPBV		4.86 NJ
CEMRC	7/23/2015	8/4/2015	9309	Building 489 Air Intake	Methylene Chloride	75-09-2	PPTV	300	53.43 J
CEMRC	7/23/2015	8/4/2015	9309	Building 489 Air Intake	Carbon Tetrachloride	56-23-5	PPTV	300	159.33 J
CEMRC	7/23/2015	8/4/2015	9309	Building 489 Air Intake	1,1,1-Trichloroethane	71-55-6	PPTV	300	15.81 J
CEMRC	7/23/2015	8/4/2015	9309	Building 489 Air Intake	Chlorobenzene	108-90-7	PPTV	300	U
CEMRC	7/23/2015	8/4/2015	9309	Building 489 Air Intake	Toluene	108-88-3	PPTV	300	298.5 J
CEMRC	7/23/2015	8/4/2015	9309	Building 489 Air Intake	Chloroform	67-66-3	PPTV	300	16.5 J
CEMRC	7/23/2015	8/4/2015	9309	Building 489 Air Intake	1,1-Dichloroethylene	75-35-4	PPTV	300	U
CEMRC	7/23/2015	8/4/2015	9309	Building 489 Air Intake	1,1,2,2-Tetrachloroethane	79-34-5	PPTV	300	26.1 J
CEMRC	7/23/2015	8/4/2015	9309	Building 489 Air Intake	1,2-Dichloroethane	107-06-2	PPTV	300	20.28 J
CEMRC	7/23/2015	8/4/2015	9309	Building 489 Air Intake	Trichloroethylene (1)	79-01-6	PPTV	300	35.91 J
CEMRC	7/29/2015	8/4/2015	9310	WQSP-4	Methylene Chloride	75-09-2	PPBV	0.4	U
CEMRC	7/29/2015	8/4/2015	9310	WQSP-4	Carbon Tetrachloride	56-23-5	PPBV	0.4	U
CEMRC	7/29/2015	8/4/2015	9310	WQSP-4	1,1,1-Trichloroethane	71-55-6	PPBV	0.4	U
CEMRC	7/29/2015	8/4/2015	9310	WQSP-4	Chlorobenzene	108-90-7	PPBV	0.4	U
CEMRC	7/29/2015	8/4/2015	9310	WQSP-4	Toluene	108-88-3	PPBV	0.4	0.18 J

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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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PPMV = parts per million by volume

PPTV = parts per trillion by volume

Validated VOC Monitoring Data – Surface Sampling at the WIPP

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

Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	UNITS	MRL*	Concentration
CEMRC	7/29/2015	8/4/2015	9310	WQSP-4	Chloroform	67-66-3	PPBV	0.4	U
CEMRC	7/29/2015	8/4/2015	9310	WQSP-4	1,1-Dichloroethylene	75-35-4	PPBV	0.4	U
CEMRC	7/29/2015	8/4/2015	9310	WQSP-4	1,1,2,2-Tetrachloroethane	79-34-5	PPBV	0.4	U
CEMRC	7/29/2015	8/4/2015	9310	WQSP-4	1,2-Dichloroethane	107-06-2	PPBV	0.4	U
CEMRC	7/29/2015	8/4/2015	9310	WQSP-4	Trichloroethylene (1)	79-01-6	PPBV	0.4	U
CEMRC	7/29/2015	8/4/2015	9310	WQSP-4	Acetone	67-64-1	PPBV		0.62 NJ
CEMRC	7/29/2015	8/4/2015	9310	WQSP-4	Butane	106-97-8	PPBV		2.08 NJ
CEMRC	7/29/2015	8/4/2015	9310	WQSP-4	Pentane	109-66-0	PPBV		0.94 NJ
CEMRC	7/29/2015	8/4/2015	9310	WQSP-4	Propane	74-98-6	PPBV		2.02 NJ
CEMRC	7/29/2015	8/4/2015	9310	WQSP-4	Methylene Chloride	75-09-2	PPTV	200	43.58 J
CEMRC	7/29/2015	8/4/2015	9310	WQSP-4	Carbon Tetrachloride	56-23-5	PPTV	200	118 J
CEMRC	7/29/2015	8/4/2015	9310	WQSP-4	1,1,1-Trichloroethane	71-55-6	PPTV	200	U
CEMRC	7/29/2015	8/4/2015	9310	WQSP-4	Chlorobenzene	108-90-7	PPTV	200	U
CEMRC	7/29/2015	8/4/2015	9310	WQSP-4	Toluene	108-88-3	PPTV	200	179.58 J
CEMRC	7/29/2015	8/4/2015	9310	WQSP-4	Chloroform	67-66-3	PPTV	200	9.16 J
CEMRC	7/29/2015	8/4/2015	9310	WQSP-4	1,1-Dichloroethylene	75-35-4	PPTV	200	U
CEMRC	7/29/2015	8/4/2015	9310	WQSP-4	1,1,2,2-Tetrachloroethane	79-34-5	PPTV	200	U
CEMRC	7/29/2015	8/4/2015	9310	WQSP-4	1,2-Dichloroethane	107-06-2	PPTV	200	U
CEMRC	7/29/2015	8/4/2015	9310	WQSP-4	Trichloroethylene (1)	79-01-6	PPTV	200	U
CEMRC	7/29/2015	8/4/2015	9312	Building 489 Air Intake	Methylene Chloride	75-09-2	PPBV	0.6	U
CEMRC	7/29/2015	8/4/2015	9312	Building 489 Air Intake	Carbon Tetrachloride	56-23-5	PPBV	0.6	0.57 J
CEMRC	7/29/2015	8/4/2015	9312	Building 489 Air Intake	1,1,1-Trichloroethane	71-55-6	PPBV	0.6	U

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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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PPTV = parts per trillion by volume

Validated VOC Monitoring Data – Surface Sampling at the WIPP

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

Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	UNITS	MRL*	Concentration
CEMRC	7/29/2015	8/4/2015	9312	Building 489 Air Intake	Chlorobenzene	108-90-7	PPBV	0.6	U
CEMRC	7/29/2015	8/4/2015	9312	Building 489 Air Intake	Toluene	108-88-3	PPBV	0.6	U
CEMRC	7/29/2015	8/4/2015	9312	Building 489 Air Intake	Chloroform	67-66-3	PPBV	0.6	U
CEMRC	7/29/2015	8/4/2015	9312	Building 489 Air Intake	1,1-Dichloroethylene	75-35-4	PPBV	0.6	U
CEMRC	7/29/2015	8/4/2015	9312	Building 489 Air Intake	1,1,2,2-Tetrachloroethane	79-34-5	PPBV	0.6	U
CEMRC	7/29/2015	8/4/2015	9312	Building 489 Air Intake	1,2-Dichloroethane	107-06-2	PPBV	0.6	U
CEMRC	7/29/2015	8/4/2015	9312	Building 489 Air Intake	Trichloroethylene (1)	79-01-6	PPBV	0.6	U
CEMRC	7/29/2015	8/4/2015	9312	Building 489 Air Intake	Acetone	67-64-1	PPBV		0.78 NJ
CEMRC	7/29/2015	8/4/2015	9312	Building 489 Air Intake	Butane	106-97-8	PPBV		2.49 NJ
CEMRC	7/29/2015	8/4/2015	9312	Building 489 Air Intake	Propane	74-98-6	PPBV		2.73 NJ
CEMRC	7/29/2015	8/4/2015	9312	Building 489 Air Intake	Methylene Chloride	75-09-2	PPTV	300	54.39 J
CEMRC	7/29/2015	8/4/2015	9312	Building 489 Air Intake	Carbon Tetrachloride	56-23-5	PPTV	300	579.45
CEMRC	7/29/2015	8/4/2015	9312	Building 489 Air Intake	1,1,1-Trichloroethane	71-55-6	PPTV	300	87.42 J
CEMRC	7/29/2015	8/4/2015	9312	Building 489 Air Intake	Chlorobenzene	108-90-7	PPTV	300	U
CEMRC	7/29/2015	8/4/2015	9312	Building 489 Air Intake	Toluene	108-88-3	PPTV	300	216.27 J
CEMRC	7/29/2015	8/4/2015	9312	Building 489 Air Intake	Chloroform	67-66-3	PPTV	300	48.27 J
CEMRC	7/29/2015	8/4/2015	9312	Building 489 Air Intake	1,1-Dichloroethylene	75-35-4	PPTV	300	U
CEMRC	7/29/2015	8/4/2015	9312	Building 489 Air Intake	1,1,2,2-Tetrachloroethane	79-34-5	PPTV	300	U
CEMRC	7/29/2015	8/4/2015	9312	Building 489 Air Intake	1,2-Dichloroethane	107-06-2	PPTV	300	U
CEMRC	7/29/2015	8/4/2015	9312	Building 489 Air Intake	Trichloroethylene (1)	79-01-6	PPTV	300	164.4 J
CEMRC	7/30/2015	8/4/2015	9313	WQSP-4	Methylene Chloride	75-09-2	PPBV	0.6	U
CEMRC	7/30/2015	8/4/2015	9313	WQSP-4	Carbon Tetrachloride	56-23-5	PPBV	0.6	U

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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.

* A value will not appear in the MRL column for TICs.
PPMV = parts per million by volume
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Validated VOC Monitoring Data – Surface Sampling at the WIPP

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

Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	UNITS	MRL*	Concentration
CEMRC	7/30/2015	8/4/2015	9313	WQSP-4	1,1,1-Trichloroethane	71-55-6	PPBV	0.6	U
CEMRC	7/30/2015	8/4/2015	9313	WQSP-4	Chlorobenzene	108-90-7	PPBV	0.6	U
CEMRC	7/30/2015	8/4/2015	9313	WQSP-4	Toluene	108-88-3	PPBV	0.6	0.39 J
CEMRC	7/30/2015	8/4/2015	9313	WQSP-4	Chloroform	67-66-3	PPBV	0.6	U
CEMRC	7/30/2015	8/4/2015	9313	WQSP-4	1,1-Dichloroethylene	75-35-4	PPBV	0.6	U
CEMRC	7/30/2015	8/4/2015	9313	WQSP-4	1,1,2,2-Tetrachloroethane	79-34-5	PPBV	0.6	U
CEMRC	7/30/2015	8/4/2015	9313	WQSP-4	1,2-Dichloroethane	107-06-2	PPBV	0.6	U
CEMRC	7/30/2015	8/4/2015	9313	WQSP-4	Trichloroethylene (1)	79-01-6	PPBV	0.6	U
CEMRC	7/30/2015	8/4/2015	9313	WQSP-4	Butane	106-97-8	PPBV		5.22 NJ
CEMRC	7/30/2015	8/4/2015	9313	WQSP-4	Isobutane	75-28-5	PPBV		2.76 NJ
CEMRC	7/30/2015	8/4/2015	9313	WQSP-4	Pentane	109-66-0	PPBV		2.4 NJ
CEMRC	7/30/2015	8/4/2015	9313	WQSP-4	Propane	74-98-6	PPBV		5.13 NJ
CEMRC	7/30/2015	8/4/2015	9313	WQSP-4	Methylene Chloride	75-09-2	PPTV	300	45.66 J
CEMRC	7/30/2015	8/4/2015	9313	WQSP-4	Carbon Tetrachloride	56-23-5	PPTV	300	105.78 J
CEMRC	7/30/2015	8/4/2015	9313	WQSP-4	1,1,1-Trichloroethane	71-55-6	PPTV	300	U
CEMRC	7/30/2015	8/4/2015	9313	WQSP-4	Chlorobenzene	108-90-7	PPTV	300	U
CEMRC	7/30/2015	8/4/2015	9313	WQSP-4	Toluene	108-88-3	PPTV	300	404.28
CEMRC	7/30/2015	8/4/2015	9313	WQSP-4	Chloroform	67-66-3	PPTV	300	U
CEMRC	7/30/2015	8/4/2015	9313	WQSP-4	1,1-Dichloroethylene	75-35-4	PPTV	300	U
CEMRC	7/30/2015	8/4/2015	9313	WQSP-4	1,1,2,2-Tetrachloroethane	79-34-5	PPTV	300	U
CEMRC	7/30/2015	8/4/2015	9313	WQSP-4	1,2-Dichloroethane	107-06-2	PPTV	300	U
CEMRC	7/30/2015	8/4/2015	9313	WQSP-4	Trichloroethylene (1)	79-01-6	PPTV	300	U

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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.

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

PPMV = parts per million by volume

PPTV = parts per trillion by volume

Validated VOC Monitoring Data – Surface Sampling at the WIPP

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

Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	UNITS	MRL*	Concentration
CEMRC	7/30/2015	8/4/2015	9314	Building 489 Air Intake	Methylene Chloride	75-09-2	PPBV	0.6	U
CEMRC	7/30/2015	8/4/2015	9314	Building 489 Air Intake	Carbon Tetrachloride	56-23-5	PPBV	0.6	0.93
CEMRC	7/30/2015	8/4/2015	9314	Building 489 Air Intake	1,1,1-Trichloroethane	71-55-6	PPBV	0.6	U
CEMRC	7/30/2015	8/4/2015	9314	Building 489 Air Intake	Chlorobenzene	108-90-7	PPBV	0.6	U
CEMRC	7/30/2015	8/4/2015	9314	Building 489 Air Intake	Toluene	108-88-3	PPBV	0.6	0.42 J
CEMRC	7/30/2015	8/4/2015	9314	Building 489 Air Intake	Chloroform	67-66-3	PPBV	0.6	U
CEMRC	7/30/2015	8/4/2015	9314	Building 489 Air Intake	1,1-Dichloroethylene	75-35-4	PPBV	0.6	U
CEMRC	7/30/2015	8/4/2015	9314	Building 489 Air Intake	1,1,2,2-Tetrachloroethane	79-34-5	PPBV	0.6	U
CEMRC	7/30/2015	8/4/2015	9314	Building 489 Air Intake	1,2-Dichloroethane	107-06-2	PPBV	0.6	U
CEMRC	7/30/2015	8/4/2015	9314	Building 489 Air Intake	Trichloroethylene (1)	79-01-6	PPBV	0.6	0.24 J
CEMRC	7/30/2015	8/4/2015	9314	Building 489 Air Intake	Butane	106-97-8	PPBV		5.67 NJ
CEMRC	7/30/2015	8/4/2015	9314	Building 489 Air Intake	Pentane	109-66-0	PPBV		2.55 NJ
CEMRC	7/30/2015	8/4/2015	9314	Building 489 Air Intake	Propane	74-98-6	PPBV		5.16 NJ
CEMRC	7/30/2015	8/4/2015	9314	Building 489 Air Intake	Methylene Chloride	75-09-2	PPTV	300	55.17 J
CEMRC	7/30/2015	8/4/2015	9314	Building 489 Air Intake	Carbon Tetrachloride	56-23-5	PPTV	300	926.31
CEMRC	7/30/2015	8/4/2015	9314	Building 489 Air Intake	1,1,1-Trichloroethane	71-55-6	PPTV	300	183.93 J
CEMRC	7/30/2015	8/4/2015	9314	Building 489 Air Intake	Chlorobenzene	108-90-7	PPTV	300	U
CEMRC	7/30/2015	8/4/2015	9314	Building 489 Air Intake	Toluene	108-88-3	PPTV	300	425.37
CEMRC	7/30/2015	8/4/2015	9314	Building 489 Air Intake	Chloroform	67-66-3	PPTV	300	63.57 J
CEMRC	7/30/2015	8/4/2015	9314	Building 489 Air Intake	1,1-Dichloroethylene	75-35-4	PPTV	300	U
CEMRC	7/30/2015	8/4/2015	9314	Building 489 Air Intake	1,1,2,2-Tetrachloroethane	79-34-5	PPTV	300	U
CEMRC	7/30/2015	8/4/2015	9314	Building 489 Air Intake	1,2-Dichloroethane	107-06-2	PPTV	300	U
CEMRC	7/30/2015	8/4/2015	9314	Building 489 Air Intake	Trichloroethylene (1)	79-01-6	PPTV	300	288.24 J

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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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PPMV = parts per million by volume

PPTV = parts per trillion by volume

Validated VOC Monitoring Data – Surface Sampling at the WIPP

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

Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	UNITS	MRL*	Concentration
CEMRC	8/5/2015	8/21/2015	9315	WQSP-4	Methylene Chloride	75-09-2	PPBV	0.4	U
CEMRC	8/5/2015	8/21/2015	9315	WQSP-4	Carbon Tetrachloride	56-23-5	PPBV	0.4	U
CEMRC	8/5/2015	8/21/2015	9315	WQSP-4	1,1,1-Trichloroethane	71-55-6	PPBV	0.4	U
CEMRC	8/5/2015	8/21/2015	9315	WQSP-4	Chlorobenzene	108-90-7	PPBV	0.4	U
CEMRC	8/5/2015	8/21/2015	9315	WQSP-4	Toluene	108-88-3	PPBV	0.4	0.36 J
CEMRC	8/5/2015	8/21/2015	9315	WQSP-4	Chloroform	67-66-3	PPBV	0.4	U
CEMRC	8/5/2015	8/21/2015	9315	WQSP-4	1,1-Dichloroethylene	75-35-4	PPBV	0.4	U
CEMRC	8/5/2015	8/21/2015	9315	WQSP-4	1,1,2,2-Tetrachloroethane	79-34-5	PPBV	0.4	U
CEMRC	8/5/2015	8/21/2015	9315	WQSP-4	1,2-Dichloroethane	107-06-2	PPBV	0.4	U
CEMRC	8/5/2015	8/21/2015	9315	WQSP-4	Trichloroethylene (1)	79-01-6	PPBV	0.4	U
CEMRC	8/5/2015	8/21/2015	9315	WQSP-4	Acetone	67-64-1	PPBV		0.76 NJ
CEMRC	8/5/2015	8/21/2015	9315	WQSP-4	Butane	106-97-8	PPBV		4.84 NJ
CEMRC	8/5/2015	8/21/2015	9315	WQSP-4	Isobutane	75-28-5	PPBV		2.74 NJ
CEMRC	8/5/2015	8/21/2015	9315	WQSP-4	Nonanal	124-19-6	PPBV		0.62 NJ
CEMRC	8/5/2015	8/21/2015	9315	WQSP-4	Pentane	109-66-0	PPBV		2.36 NJ
CEMRC	8/5/2015	8/21/2015	9315	WQSP-4	Propane	74-98-6	PPBV		4.22 NJ
CEMRC	8/5/2015	8/21/2015	9315	WQSP-4	Methylene Chloride	75-09-2	PPTV	200	54.22 J
CEMRC	8/5/2015	8/21/2015	9315	WQSP-4	Carbon Tetrachloride	56-23-5	PPTV	200	95.58 J
CEMRC	8/5/2015	8/21/2015	9315	WQSP-4	1,1,1-Trichloroethane	71-55-6	PPTV	200	U
CEMRC	8/5/2015	8/21/2015	9315	WQSP-4	Chlorobenzene	108-90-7	PPTV	200	U
CEMRC	8/5/2015	8/21/2015	9315	WQSP-4	Toluene	108-88-3	PPTV	200	346.26
CEMRC	8/5/2015	8/21/2015	9315	WQSP-4	Chloroform	67-66-3	PPTV	200	13.44 J

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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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PPMV = parts per million by volume

PPTV = parts per trillion by volume

Validated VOC Monitoring Data – Surface Sampling at the WIPP

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

Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	UNITS	MRL*	Concentration
CEMRC	8/5/2015	8/21/2015	9315	WQSP-4	1,1-Dichloroethylene	75-35-4	PPTV	200	U
CEMRC	8/5/2015	8/21/2015	9315	WQSP-4	1,1,2,2-Tetrachloroethane	79-34-5	PPTV	200	28.38 J
CEMRC	8/5/2015	8/21/2015	9315	WQSP-4	1,2-Dichloroethane	107-06-2	PPTV	200	22.2 J
CEMRC	8/5/2015	8/21/2015	9315	WQSP-4	Trichloroethylene (1)	79-01-6	PPTV	200	8.46 J
CEMRC	8/5/2015	8/21/2015	9316	Building 489 Air Intake	Methylene Chloride	75-09-2	PPBV	0.6	U
CEMRC	8/5/2015	8/21/2015	9316	Building 489 Air Intake	Carbon Tetrachloride	56-23-5	PPBV	0.6	0.27 J
CEMRC	8/5/2015	8/21/2015	9316	Building 489 Air Intake	1,1,1-Trichloroethane	71-55-6	PPBV	0.6	U
CEMRC	8/5/2015	8/21/2015	9316	Building 489 Air Intake	Chlorobenzene	108-90-7	PPBV	0.6	U
CEMRC	8/5/2015	8/21/2015	9316	Building 489 Air Intake	Toluene	108-88-3	PPBV	0.6	0.3 J
CEMRC	8/5/2015	8/21/2015	9316	Building 489 Air Intake	Chloroform	67-66-3	PPBV	0.6	U
CEMRC	8/5/2015	8/21/2015	9316	Building 489 Air Intake	1,1-Dichloroethylene	75-35-4	PPBV	0.6	U
CEMRC	8/5/2015	8/21/2015	9316	Building 489 Air Intake	1,1,2,2-Tetrachloroethane	79-34-5	PPBV	0.6	U
CEMRC	8/5/2015	8/21/2015	9316	Building 489 Air Intake	1,2-Dichloroethane	107-06-2	PPBV	0.6	U
CEMRC	8/5/2015	8/21/2015	9316	Building 489 Air Intake	Trichloroethylene (1)	79-01-6	PPBV	0.6	U
CEMRC	8/5/2015	8/21/2015	9316	Building 489 Air Intake	Acetone	67-64-1	PPBV		0.81 NJ
CEMRC	8/5/2015	8/21/2015	9316	Building 489 Air Intake	Butane	106-97-8	PPBV		5.04 NJ
CEMRC	8/5/2015	8/21/2015	9316	Building 489 Air Intake	Isobutane	75-28-5	PPBV		2.79 NJ
CEMRC	8/5/2015	8/21/2015	9316	Building 489 Air Intake	Pentane	109-66-0	PPBV		2.19 NJ
CEMRC	8/5/2015	8/21/2015	9316	Building 489 Air Intake	Propane	74-98-6	PPBV		5.19 NJ
CEMRC	8/5/2015	8/21/2015	9316	Building 489 Air Intake	Methylene Chloride	75-09-2	PPTV	300	63.84 J
CEMRC	8/5/2015	8/21/2015	9316	Building 489 Air Intake	Carbon Tetrachloride	56-23-5	PPTV	300	265.5 J
CEMRC	8/5/2015	8/21/2015	9316	Building 489 Air Intake	1,1,1-Trichloroethane	71-55-6	PPTV	300	36.93 J

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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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PPTV = parts per trillion by volume

Validated VOC Monitoring Data – Surface Sampling at the WIPP

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

Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	UNITS	MRL*	Concentration
CEMRC	8/5/2015	8/21/2015	9316	Building 489 Air Intake	Chlorobenzene	108-90-7	PPTV	300	U
CEMRC	8/5/2015	8/21/2015	9316	Building 489 Air Intake	Toluene	108-88-3	PPTV	300	294.78 J
CEMRC	8/5/2015	8/21/2015	9316	Building 489 Air Intake	Chloroform	67-66-3	PPTV	300	30.12 J
CEMRC	8/5/2015	8/21/2015	9316	Building 489 Air Intake	1,1-Dichloroethylene	75-35-4	PPTV	300	U
CEMRC	8/5/2015	8/21/2015	9316	Building 489 Air Intake	1,1,2,2-Tetrachloroethane	79-34-5	PPTV	300	U
CEMRC	8/5/2015	8/21/2015	9316	Building 489 Air Intake	1,2-Dichloroethane	107-06-2	PPTV	300	19.98 J
CEMRC	8/5/2015	8/21/2015	9316	Building 489 Air Intake	Trichloroethylene (1)	79-01-6	PPTV	300	71.67 J
CEMRC	8/6/2015	8/21/2015	9317	WQSP-4	Methylene Chloride	75-09-2	PPBV	0.4	U
CEMRC	8/6/2015	8/21/2015	9317	WQSP-4	Carbon Tetrachloride	56-23-5	PPBV	0.4	U
CEMRC	8/6/2015	8/21/2015	9317	WQSP-4	1,1,1-Trichloroethane	71-55-6	PPBV	0.4	U
CEMRC	8/6/2015	8/21/2015	9317	WQSP-4	Chlorobenzene	108-90-7	PPBV	0.4	U
CEMRC	8/6/2015	8/21/2015	9317	WQSP-4	Toluene	108-88-3	PPBV	0.4	0.24 J
CEMRC	8/6/2015	8/21/2015	9317	WQSP-4	Chloroform	67-66-3	PPBV	0.4	U
CEMRC	8/6/2015	8/21/2015	9317	WQSP-4	1,1-Dichloroethylene	75-35-4	PPBV	0.4	U
CEMRC	8/6/2015	8/21/2015	9317	WQSP-4	1,1,2,2-Tetrachloroethane	79-34-5	PPBV	0.4	U
CEMRC	8/6/2015	8/21/2015	9317	WQSP-4	1,2-Dichloroethane	107-06-2	PPBV	0.4	U
CEMRC	8/6/2015	8/21/2015	9317	WQSP-4	Trichloroethylene (1)	79-01-6	PPBV	0.4	U
CEMRC	8/6/2015	8/21/2015	9317	WQSP-4	Acetone	67-64-1	PPBV		0.48 NJ
CEMRC	8/6/2015	8/21/2015	9317	WQSP-4	Butane	106-97-8	PPBV		3.86 NJ
CEMRC	8/6/2015	8/21/2015	9317	WQSP-4	Isobutane	75-28-5	PPBV		2.1 NJ
CEMRC	8/6/2015	8/21/2015	9317	WQSP-4	Pentane	109-66-0	PPBV		1.84 NJ
CEMRC	8/6/2015	8/21/2015	9317	WQSP-4	Propane	74-98-6	PPBV		3.52 NJ

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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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PPTV = parts per trillion by volume

Validated VOC Monitoring Data – Surface Sampling at the WIPP

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

Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	UNITS	MRL*	Concentration
CEMRC	8/6/2015	8/21/2015	9317	WQSP-4	Methylene Chloride	75-09-2	PPTV	200	47.48 J
CEMRC	8/6/2015	8/21/2015	9317	WQSP-4	Carbon Tetrachloride	56-23-5	PPTV	200	84.9 J
CEMRC	8/6/2015	8/21/2015	9317	WQSP-4	1,1,1-Trichloroethane	71-55-6	PPTV	200	U
CEMRC	8/6/2015	8/21/2015	9317	WQSP-4	Chlorobenzene	108-90-7	PPTV	200	U
CEMRC	8/6/2015	8/21/2015	9317	WQSP-4	Toluene	108-88-3	PPTV	200	230.84
CEMRC	8/6/2015	8/21/2015	9317	WQSP-4	Chloroform	67-66-3	PPTV	200	11.02 J
CEMRC	8/6/2015	8/21/2015	9317	WQSP-4	1,1-Dichloroethylene	75-35-4	PPTV	200	U
CEMRC	8/6/2015	8/21/2015	9317	WQSP-4	1,1,2,2-Tetrachloroethane	79-34-5	PPTV	200	U
CEMRC	8/6/2015	8/21/2015	9317	WQSP-4	1,2-Dichloroethane	107-06-2	PPTV	200	17.58 J
CEMRC	8/6/2015	8/21/2015	9317	WQSP-4	Trichloroethylene (1)	79-01-6	PPTV	200	U
CEMRC	8/6/2015	8/21/2015	9318	Building 489 Air Intake	Methylene Chloride	75-09-2	PPBV	0.6	U
CEMRC	8/6/2015	8/21/2015	9318	Building 489 Air Intake	Carbon Tetrachloride	56-23-5	PPBV	0.6	0.15 J
CEMRC	8/6/2015	8/21/2015	9318	Building 489 Air Intake	1,1,1-Trichloroethane	71-55-6	PPBV	0.6	U
CEMRC	8/6/2015	8/21/2015	9318	Building 489 Air Intake	Chlorobenzene	108-90-7	PPBV	0.6	U
CEMRC	8/6/2015	8/21/2015	9318	Building 489 Air Intake	Toluene	108-88-3	PPBV	0.6	0.27 J
CEMRC	8/6/2015	8/21/2015	9318	Building 489 Air Intake	Chloroform	67-66-3	PPBV	0.6	U
CEMRC	8/6/2015	8/21/2015	9318	Building 489 Air Intake	1,1-Dichloroethylene	75-35-4	PPBV	0.6	U
CEMRC	8/6/2015	8/21/2015	9318	Building 489 Air Intake	1,1,2,2-Tetrachloroethane	79-34-5	PPBV	0.6	U
CEMRC	8/6/2015	8/21/2015	9318	Building 489 Air Intake	1,2-Dichloroethane	107-06-2	PPBV	0.6	U
CEMRC	8/6/2015	8/21/2015	9318	Building 489 Air Intake	Trichloroethylene (1)	79-01-6	PPBV	0.6	U
CEMRC	8/6/2015	8/21/2015	9318	Building 489 Air Intake	Butane	106-97-8	PPBV		4.5 NJ
CEMRC	8/6/2015	8/21/2015	9318	Building 489 Air Intake	Butane, 2-methyl-	78-78-4	PPBV		2.28 NJ
CEMRC	8/6/2015	8/21/2015	9318	Building 489 Air Intake	Isobutane	75-28-5	PPBV		2.4 NJ

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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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Validated VOC Monitoring Data – Surface Sampling at the WIPP

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

Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	UNITS	MRL*	Concentration
CEMRC	8/6/2015	8/21/2015	9318	Building 489 Air Intake	Pentane	109-66-0	PPBV		2.04 NJ
CEMRC	8/6/2015	8/21/2015	9318	Building 489 Air Intake	Propane	74-98-6	PPBV		4.53 NJ
CEMRC	8/6/2015	8/21/2015	9318	Building 489 Air Intake	Methylene Chloride	75-09-2	PPTV	300	53.85 J
CEMRC	8/6/2015	8/21/2015	9318	Building 489 Air Intake	Carbon Tetrachloride	56-23-5	PPTV	300	172.89 J
CEMRC	8/6/2015	8/21/2015	9318	Building 489 Air Intake	1,1,1-Trichloroethane	71-55-6	PPTV	300	22.95 J
CEMRC	8/6/2015	8/21/2015	9318	Building 489 Air Intake	Chlorobenzene	108-90-7	PPTV	300	U
CEMRC	8/6/2015	8/21/2015	9318	Building 489 Air Intake	Toluene	108-88-3	PPTV	300	252.42 J
CEMRC	8/6/2015	8/21/2015	9318	Building 489 Air Intake	Chloroform	67-66-3	PPTV	300	18.33 J
CEMRC	8/6/2015	8/21/2015	9318	Building 489 Air Intake	1,1-Dichloroethylene	75-35-4	PPTV	300	U
CEMRC	8/6/2015	8/21/2015	9318	Building 489 Air Intake	1,1,2,2-Tetrachloroethane	79-34-5	PPTV	300	U
CEMRC	8/6/2015	8/21/2015	9318	Building 489 Air Intake	1,2-Dichloroethane	107-06-2	PPTV	300	17.19 J
CEMRC	8/6/2015	8/21/2015	9318	Building 489 Air Intake	Trichloroethylene (1)	79-01-6	PPTV	300	35.22 J
CEMRC	8/12/2015	8/21/2015	9319	WQSP-4	Methylene Chloride	75-09-2	PPBV	0.4	U
CEMRC	8/12/2015	8/21/2015	9319	WQSP-4	Carbon Tetrachloride	56-23-5	PPBV	0.4	0.1 J
CEMRC	8/12/2015	8/21/2015	9319	WQSP-4	1,1,1-Trichloroethane	71-55-6	PPBV	0.4	U
CEMRC	8/12/2015	8/21/2015	9319	WQSP-4	Chlorobenzene	108-90-7	PPBV	0.4	U
CEMRC	8/12/2015	8/21/2015	9319	WQSP-4	Toluene	108-88-3	PPBV	0.4	0.24 J
CEMRC	8/12/2015	8/21/2015	9319	WQSP-4	Chloroform	67-66-3	PPBV	0.4	U
CEMRC	8/12/2015	8/21/2015	9319	WQSP-4	1,1-Dichloroethylene	75-35-4	PPBV	0.4	U
CEMRC	8/12/2015	8/21/2015	9319	WQSP-4	1,1,2,2-Tetrachloroethane	79-34-5	PPBV	0.4	U
CEMRC	8/12/2015	8/21/2015	9319	WQSP-4	1,2-Dichloroethane	107-06-2	PPBV	0.4	U
CEMRC	8/12/2015	8/21/2015	9319	WQSP-4	Trichloroethylene (1)	79-01-6	PPBV	0.4	U

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Notes:

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Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	UNITS	MRL*	Concentration
CEMRC	8/12/2015	8/21/2015	9319	WQSP-4	Acetone	67-64-1	PPBV		0.6 NJ
CEMRC	8/12/2015	8/21/2015	9319	WQSP-4	Butane	106-97-8	PPBV		4.44 NJ
CEMRC	8/12/2015	8/21/2015	9319	WQSP-4	Isobutane	75-28-5	PPBV		2.44 NJ
CEMRC	8/12/2015	8/21/2015	9319	WQSP-4	Pentane	109-66-0	PPBV		1.92 NJ
CEMRC	8/12/2015	8/21/2015	9319	WQSP-4	Propane	74-98-6	PPBV		4.3 NJ
CEMRC	8/12/2015	8/21/2015	9319	WQSP-4	Methylene Chloride	75-09-2	PPTV	200	52.46 J
CEMRC	8/12/2015	8/21/2015	9319	WQSP-4	Carbon Tetrachloride	56-23-5	PPTV	200	103.68 J
CEMRC	8/12/2015	8/21/2015	9319	WQSP-4	1,1,1-Trichloroethane	71-55-6	PPTV	200	U
CEMRC	8/12/2015	8/21/2015	9319	WQSP-4	Chlorobenzene	108-90-7	PPTV	200	U
CEMRC	8/12/2015	8/21/2015	9319	WQSP-4	Toluene	108-88-3	PPTV	200	252.36
CEMRC	8/12/2015	8/21/2015	9319	WQSP-4	Chloroform	67-66-3	PPTV	200	12.62 J
CEMRC	8/12/2015	8/21/2015	9319	WQSP-4	1,1-Dichloroethylene	75-35-4	PPTV	200	U
CEMRC	8/12/2015	8/21/2015	9319	WQSP-4	1,1,2,2-Tetrachloroethane	79-34-5	PPTV	200	U
CEMRC	8/12/2015	8/21/2015	9319	WQSP-4	1,2-Dichloroethane	107-06-2	PPTV	200	16.54 J
CEMRC	8/12/2015	8/21/2015	9319	WQSP-4	Trichloroethylene (1)	79-01-6	PPTV	200	U
CEMRC	8/12/2015	8/21/2015	9320	Building 489 Air Intake	Methylene Chloride	75-09-2	PPBV	0.6	U
CEMRC	8/12/2015	8/21/2015	9320	Building 489 Air Intake	Carbon Tetrachloride	56-23-5	PPBV	0.6	0.66
CEMRC	8/12/2015	8/21/2015	9320	Building 489 Air Intake	1,1,1-Trichloroethane	71-55-6	PPBV	0.6	U
CEMRC	8/12/2015	8/21/2015	9320	Building 489 Air Intake	Chlorobenzene	108-90-7	PPBV	0.6	U
CEMRC	8/12/2015	8/21/2015	9320	Building 489 Air Intake	Toluene	108-88-3	PPBV	0.6	0.21 J
CEMRC	8/12/2015	8/21/2015	9320	Building 489 Air Intake	Chloroform	67-66-3	PPBV	0.6	U
CEMRC	8/12/2015	8/21/2015	9320	Building 489 Air Intake	1,1-Dichloroethylene	75-35-4	PPBV	0.6	U

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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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Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	UNITS	MRL*	Concentration
CEMRC	8/12/2015	8/21/2015	9320	Building 489 Air Intake	1,1,2,2-Tetrachloroethane	79-34-5	PPBV	0.6	U
CEMRC	8/12/2015	8/21/2015	9320	Building 489 Air Intake	1,2-Dichloroethane	107-06-2	PPBV	0.6	U
CEMRC	8/12/2015	8/21/2015	9320	Building 489 Air Intake	Trichloroethylene (1)	79-01-6	PPBV	0.6	0.21 J
CEMRC	8/12/2015	8/21/2015	9320	Building 489 Air Intake	Butane	106-97-8	PPBV		4.83 NJ
CEMRC	8/12/2015	8/21/2015	9320	Building 489 Air Intake	Isobutane	75-28-5	PPBV		2.58 NJ
CEMRC	8/12/2015	8/21/2015	9320	Building 489 Air Intake	Pentane	109-66-0	PPBV		1.86 NJ
CEMRC	8/12/2015	8/21/2015	9320	Building 489 Air Intake	Propane	74-98-6	PPBV		5.22 NJ
CEMRC	8/12/2015	8/21/2015	9320	Building 489 Air Intake	Methylene Chloride	75-09-2	PPTV	300	67.05 J
CEMRC	8/12/2015	8/21/2015	9320	Building 489 Air Intake	Carbon Tetrachloride	56-23-5	PPTV	300	685.2
CEMRC	8/12/2015	8/21/2015	9320	Building 489 Air Intake	1,1,1-Trichloroethane	71-55-6	PPTV	300	159.9 J
CEMRC	8/12/2015	8/21/2015	9320	Building 489 Air Intake	Chlorobenzene	108-90-7	PPTV	300	U
CEMRC	8/12/2015	8/21/2015	9320	Building 489 Air Intake	Toluene	108-88-3	PPTV	300	211.38 J
CEMRC	8/12/2015	8/21/2015	9320	Building 489 Air Intake	Chloroform	67-66-3	PPTV	300	56.43 J
CEMRC	8/12/2015	8/21/2015	9320	Building 489 Air Intake	1,1-Dichloroethylene	75-35-4	PPTV	300	U
CEMRC	8/12/2015	8/21/2015	9320	Building 489 Air Intake	1,1,2,2-Tetrachloroethane	79-34-5	PPTV	300	U
CEMRC	8/12/2015	8/21/2015	9320	Building 489 Air Intake	1,2-Dichloroethane	107-06-2	PPTV	300	U
CEMRC	8/12/2015	8/21/2015	9320	Building 489 Air Intake	Trichloroethylene (1)	79-01-6	PPTV	300	231.39 J
CEMRC	8/13/2015	8/21/2015	9322	WQSP-4	Methylene Chloride	75-09-2	PPBV	0.6	U
CEMRC	8/13/2015	8/21/2015	9322	WQSP-4	Carbon Tetrachloride	56-23-5	PPBV	0.6	U
CEMRC	8/13/2015	8/21/2015	9322	WQSP-4	1,1,1-Trichloroethane	71-55-6	PPBV	0.6	U
CEMRC	8/13/2015	8/21/2015	9322	WQSP-4	Chlorobenzene	108-90-7	PPBV	0.6	U
CEMRC	8/13/2015	8/21/2015	9322	WQSP-4	Toluene	108-88-3	PPBV	0.6	0.45 J

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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.

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

PPMV = parts per million by volume

PPTV = parts per trillion by volume

Validated VOC Monitoring Data – Surface Sampling at the WIPP

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

Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	UNITS	MRL*	Concentration
CEMRC	8/13/2015	8/21/2015	9322	WQSP-4	Chloroform	67-66-3	PPBV	0.6	U
CEMRC	8/13/2015	8/21/2015	9322	WQSP-4	1,1-Dichloroethylene	75-35-4	PPBV	0.6	U
CEMRC	8/13/2015	8/21/2015	9322	WQSP-4	1,1,2,2-Tetrachloroethane	79-34-5	PPBV	0.6	U
CEMRC	8/13/2015	8/21/2015	9322	WQSP-4	1,2-Dichloroethane	107-06-2	PPBV	0.6	U
CEMRC	8/13/2015	8/21/2015	9322	WQSP-4	Trichloroethylene (1)	79-01-6	PPBV	0.6	U
CEMRC	8/13/2015	8/21/2015	9322	WQSP-4	Butane	106-97-8	PPBV		6.42 NJ
CEMRC	8/13/2015	8/21/2015	9322	WQSP-4	Butane, 2-methyl-	78-78-4	PPBV		3 NJ
CEMRC	8/13/2015	8/21/2015	9322	WQSP-4	Isobutane	75-28-5	PPBV		3.57 NJ
CEMRC	8/13/2015	8/21/2015	9322	WQSP-4	Pentane	109-66-0	PPBV		2.88 NJ
CEMRC	8/13/2015	8/21/2015	9322	WQSP-4	Propane	74-98-6	PPBV		6.66 NJ
CEMRC	8/13/2015	8/21/2015	9322	WQSP-4	Methylene Chloride	75-09-2	PPTV	300	55.05 J
CEMRC	8/13/2015	8/21/2015	9322	WQSP-4	Carbon Tetrachloride	56-23-5	PPTV	300	87.72 J
CEMRC	8/13/2015	8/21/2015	9322	WQSP-4	1,1,1-Trichloroethane	71-55-6	PPTV	300	U
CEMRC	8/13/2015	8/21/2015	9322	WQSP-4	Chlorobenzene	108-90-7	PPTV	300	U
CEMRC	8/13/2015	8/21/2015	9322	WQSP-4	Toluene	108-88-3	PPTV	300	435.21
CEMRC	8/13/2015	8/21/2015	9322	WQSP-4	Chloroform	67-66-3	PPTV	300	11.4 J
CEMRC	8/13/2015	8/21/2015	9322	WQSP-4	1,1-Dichloroethylene	75-35-4	PPTV	300	U
CEMRC	8/13/2015	8/21/2015	9322	WQSP-4	1,1,2,2-Tetrachloroethane	79-34-5	PPTV	300	U
CEMRC	8/13/2015	8/21/2015	9322	WQSP-4	1,2-Dichloroethane	107-06-2	PPTV	300	18.12 J
CEMRC	8/13/2015	8/21/2015	9322	WQSP-4	Trichloroethylene (1)	79-01-6	PPTV	300	U
CEMRC	8/13/2015	8/21/2015	9323	Building 489 Air Intake	Methylene Chloride	75-09-2	PPBV	0.4	U
CEMRC	8/13/2015	8/21/2015	9323	Building 489 Air Intake	Carbon Tetrachloride	56-23-5	PPBV	0.4	0.26 J

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.

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

PPMV = parts per million by volume

PPTV = parts per trillion by volume

Validated VOC Monitoring Data – Surface Sampling at the WIPP

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

Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	UNITS	MRL*	Concentration
CEMRC	8/13/2015	8/21/2015	9323	Building 489 Air Intake	1,1,1-Trichloroethane	71-55-6	PPBV	0.4	U
CEMRC	8/13/2015	8/21/2015	9323	Building 489 Air Intake	Chlorobenzene	108-90-7	PPBV	0.4	U
CEMRC	8/13/2015	8/21/2015	9323	Building 489 Air Intake	Toluene	108-88-3	PPBV	0.4	0.44
CEMRC	8/13/2015	8/21/2015	9323	Building 489 Air Intake	Chloroform	67-66-3	PPBV	0.4	U
CEMRC	8/13/2015	8/21/2015	9323	Building 489 Air Intake	1,1-Dichloroethylene	75-35-4	PPBV	0.4	U
CEMRC	8/13/2015	8/21/2015	9323	Building 489 Air Intake	1,1,2,2-Tetrachloroethane	79-34-5	PPBV	0.4	U
CEMRC	8/13/2015	8/21/2015	9323	Building 489 Air Intake	1,2-Dichloroethane	107-06-2	PPBV	0.4	U
CEMRC	8/13/2015	8/21/2015	9323	Building 489 Air Intake	Trichloroethylene (1)	79-01-6	PPBV	0.4	U
CEMRC	8/13/2015	8/21/2015	9323	Building 489 Air Intake	Acetone	67-64-1	PPBV		0.7 NJ
CEMRC	8/13/2015	8/21/2015	9323	Building 489 Air Intake	Butane	106-97-8	PPBV		6.46 NJ
CEMRC	8/13/2015	8/21/2015	9323	Building 489 Air Intake	Isobutane	75-28-5	PPBV		3.52 NJ
CEMRC	8/13/2015	8/21/2015	9323	Building 489 Air Intake	Pentane	109-66-0	PPBV		2.94 NJ
CEMRC	8/13/2015	8/21/2015	9323	Building 489 Air Intake	Pentane, 2-methyl-	107-83-5	PPBV		0.72 NJ
CEMRC	8/13/2015	8/21/2015	9323	Building 489 Air Intake	Propane	74-98-6	PPBV		5.92 NJ
CEMRC	8/13/2015	8/21/2015	9323	Building 489 Air Intake	Methylene Chloride	75-09-2	PPTV	200	48.32 J
CEMRC	8/13/2015	8/21/2015	9323	Building 489 Air Intake	Carbon Tetrachloride	56-23-5	PPTV	200	275.92
CEMRC	8/13/2015	8/21/2015	9323	Building 489 Air Intake	1,1,1-Trichloroethane	71-55-6	PPTV	200	53.38 J
CEMRC	8/13/2015	8/21/2015	9323	Building 489 Air Intake	Chlorobenzene	108-90-7	PPTV	200	U
CEMRC	8/13/2015	8/21/2015	9323	Building 489 Air Intake	Toluene	108-88-3	PPTV	200	450.12
CEMRC	8/13/2015	8/21/2015	9323	Building 489 Air Intake	Chloroform	67-66-3	PPTV	200	26.68 J
CEMRC	8/13/2015	8/21/2015	9323	Building 489 Air Intake	1,1-Dichloroethylene	75-35-4	PPTV	200	U
CEMRC	8/13/2015	8/21/2015	9323	Building 489 Air Intake	1,1,2,2-Tetrachloroethane	79-34-5	PPTV	200	U
CEMRC	8/13/2015	8/21/2015	9323	Building 489 Air Intake	1,2-Dichloroethane	107-06-2	PPTV	200	19.5 J

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.

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

PPMV = parts per million by volume

PPTV = parts per trillion by volume

Validated VOC Monitoring Data – Surface Sampling at the WIPP

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

Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	UNITS	MRL*	Concentration
CEMRC	8/13/2015	8/21/2015	9323	Building 489 Air Intake	Trichloroethylene (1)	79-01-6	PPTV	200	80.76 J

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).

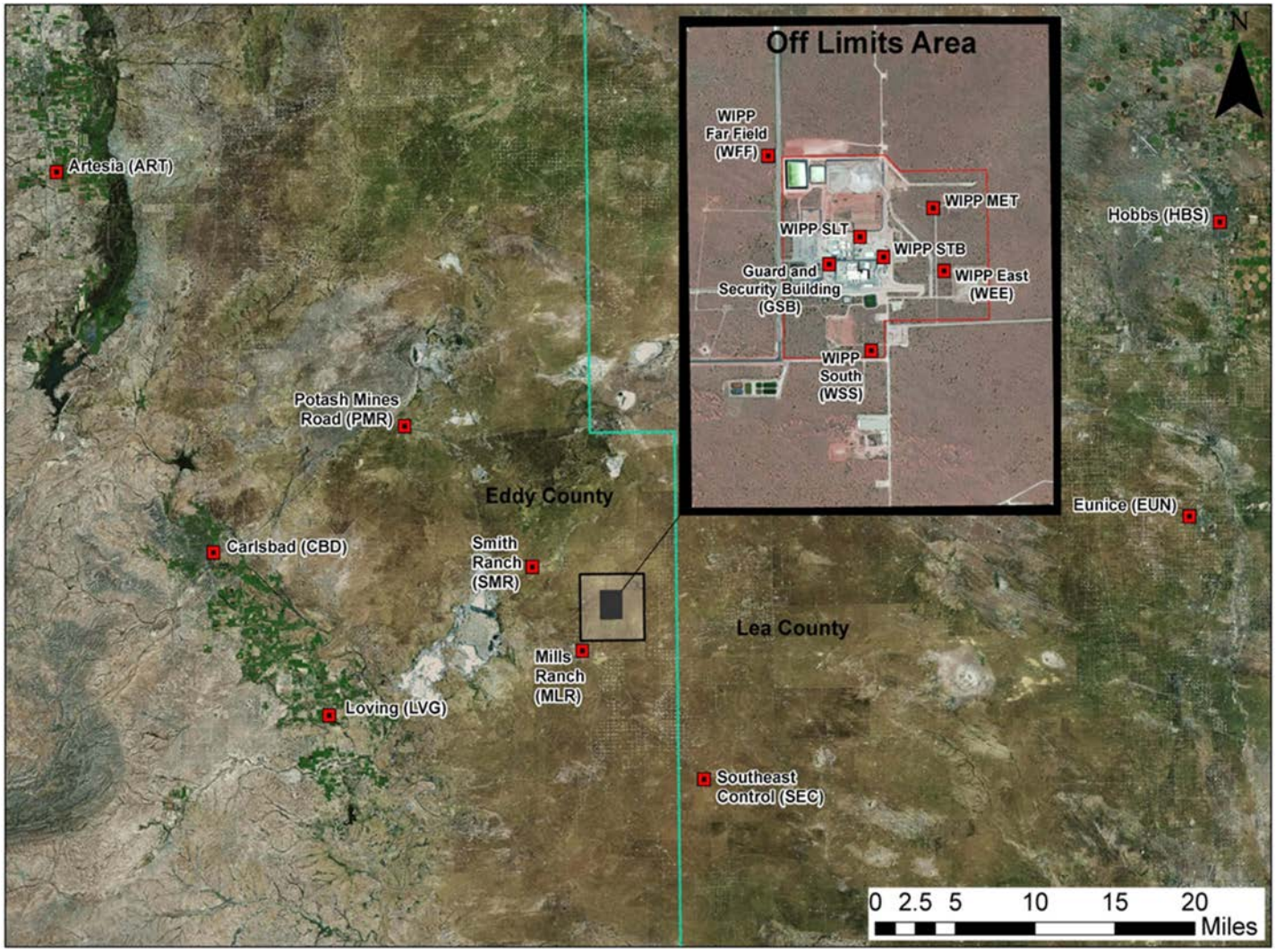
Notes:

(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.

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

PPMV = parts per million by volume

PPTV = parts per trillion by volume



Air Sampling Locations

Environmental Monitoring & Hydrology Airborne

Location	Sample ID Number	Sample Date	WIPP Labs Radiochemistry		
			Am-241 (dpm/sample)	Pu-238 (dpm/sample)	Pu-239/240 (dpm/sample)
Smith Ranch (SMR)	EE-SMR-20150804-1.2	08/05/2015	Below MDC	Below MDC	Below MDC
Smith Ranch (SMR) Dup	EE-SMR-20150804-2.2	08/05/2015	Below MDC	Below MDC	Below MDC
WIPP Far Field (WFF)	EE-WFF-20150804-1.1	08/05/2015	Below MDC	Below MDC	Below MDC
Meteorology Tower Building (MET)	EE-MET-20150804-1.1	08/05/2015	Below MDC	Below MDC	Below MDC
WIPP East (WEE)	EE-WEE-20150804-1.2	08/05/2015	Below MDC	Below MDC	Below MDC
WIPP East (WEE) Dup	EE-WEE-20150804-2.2	08/05/2015	Below MDC	Below MDC	Below MDC
WIPP South (WSS)	EE-WSS-20150804-1.1	08/05/2015	Below MDC	Below MDC	Below MDC
Mills Ranch (MLR)	EE-MLR-20150804-1.1	08/05/2015	Below MDC	Below MDC	Below MDC
Salt Hoist (SLT)	EE-SLT-20150804-1.1	08/05/2015	Below MDC	Below MDC	Below MDC
Southeast of Training Building (STB)	EE-STB-20150804-1.1	08/05/2015	Below MDC	Below MDC	Below MDC
Guard and Security Building (GSB)	EE-GSB-20150804-1.1	08/05/2015	Below MDC	Below MDC	Below MDC
WIPP Far Field (WFF) 2nd Quarter 2015	AL-WFF…(Composite 13 samples)	---	Below MDC	Below MDC	Below MDC
WIPP East (WEE) 2nd Quarter 2015	AL-WEE…(Composite 13 samples)	---	Below MDC	Below MDC	Below MDC
WIPP East (WEE) Dup 2nd Quarter 2015	AL-WEE…(Composite 13 samples)	---	Below MDC	Below MDC	Below MDC
WIPP South (WSS) 2nd Quarter 2015	AL-WSS…(Composite 13 samples)	---	Below MDC	Below MDC	Below MDC
Mills Ranch (MLR) 2nd Quarter 2015	AL-MLR…(Composite 13 samples)	---	Below MDC	Below MDC	Below MDC
Southeast Control (SEC) 2nd Quarter 2015	AL-SEC…(Composite 13 samples)	---	Below MDC	Below MDC	Below MDC
Carlsbad (CBD) 2nd Quarter 2015	AL-CBD…(Composite 13 samples)	---	Below MDC	Below MDC	Below MDC
Smith Ranch (SMR) 2nd Quarter 2015	AL-SMR…(Composite 13 samples)	---	Below MDC	Below MDC	Below MDC

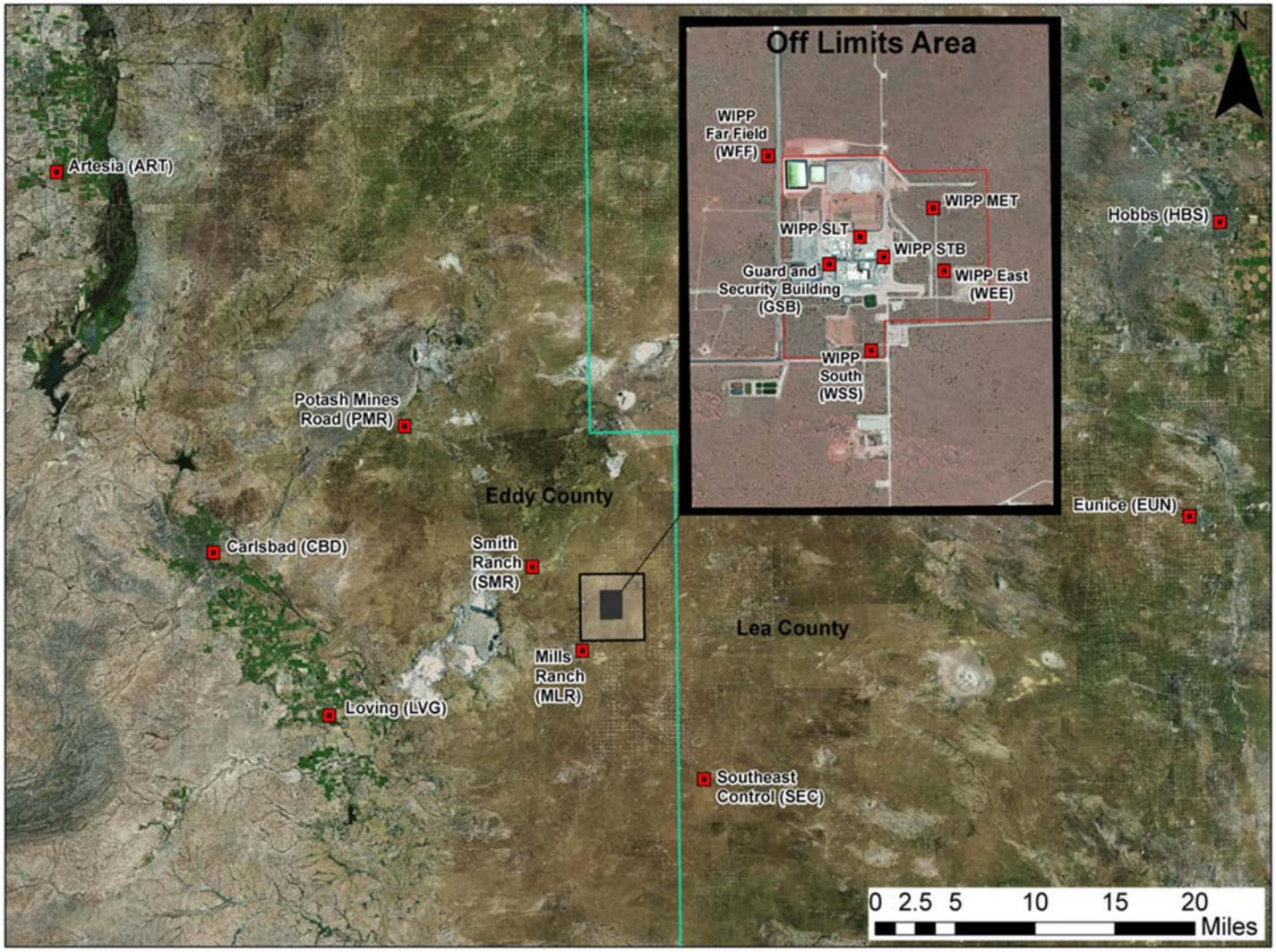
MDC ranges are:

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

MDC(γ) Am-241 (dpm/sample): 3.00E+00 to 8.90E+00



Biota/Vegetation Sampling Locations

Environmental Monitoring & Hydrology Biota Sampling – Vegetation

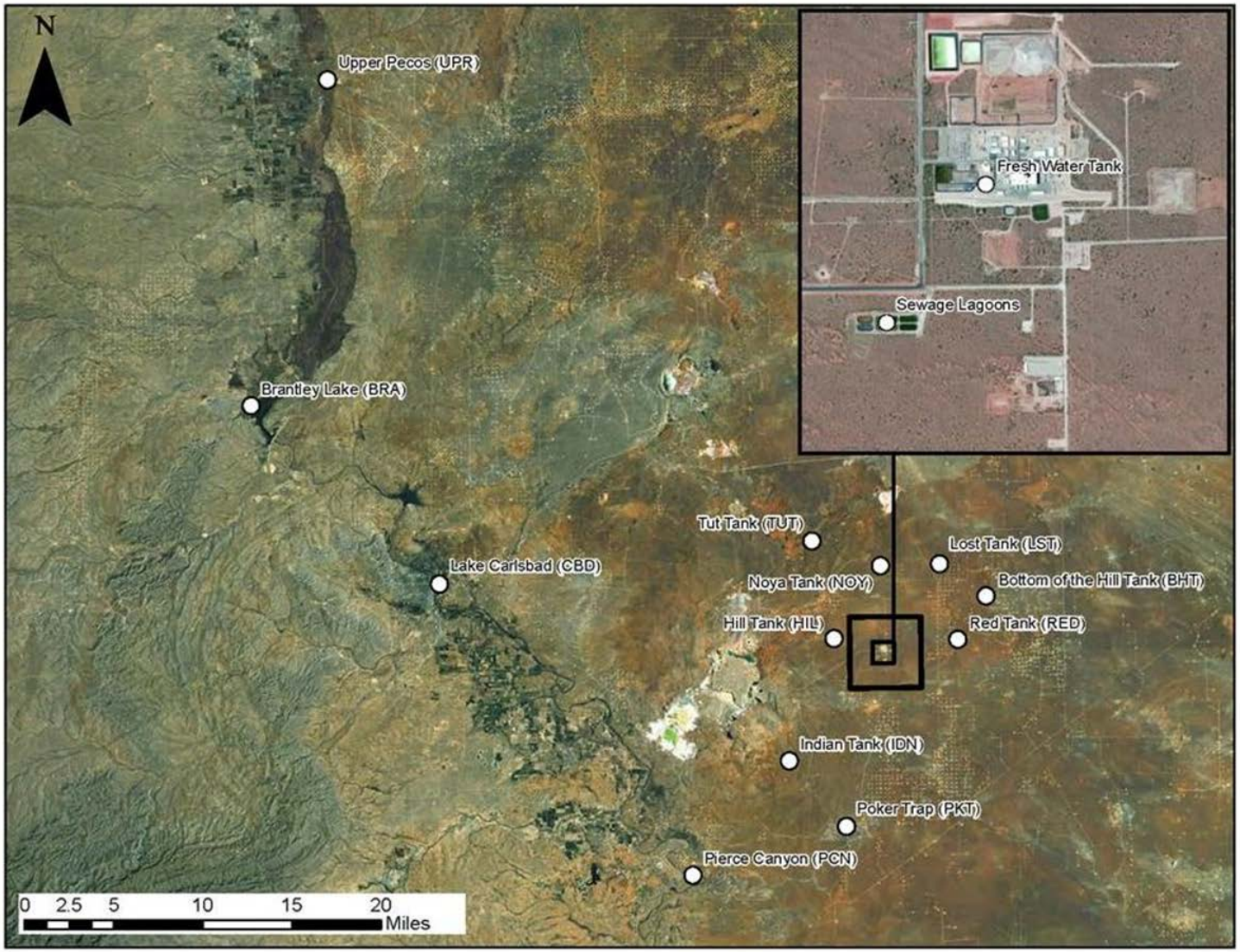
Location	Sample ID Number	Sample Date	WIPP Labs Radiochemistry		
			Am-241 (dpm/g)	Pu-238 (dpm/g)	Pu-239/240 (dpm/g)
WIPP South	BV-WSS-20150727-1.1	7/27/2015	Below MDC	Below MDC	Below MDC
Mills Ranch	BV-MLR-20150727-1.1	7/27/2015	Below MDC	Below MDC	Below MDC
Southeast Control	BV-SEC-20150729-1.1	7/29/2015	Below MDC	Below MDC	Below MDC
Smith Ranch	BV-SMR-20150730-1.1	7/30/2015	Below MDC	Below MDC	Below MDC

MDC ranges are:

MDC Am-241 (dpm/g): 2.32E-02 to 6.30E-02

MDC Pu-238 (dpm/g): 1.58E-02 to 3.31E-02

MDC Pu-239/240 (dpm/g): 1.05E-02 to 3.01E-02



Surface Water Sampling Locations

Environmental Monitoring & Hydrology Surface Water Sampling

Location	Sample ID Number	Sample Date	WIPP Labs Radiochemistry		
			Am-241 (dpm/L)	Pu-238 (dpm/L)	Pu-239/240 (dpm/L)
Pierce Canyon	WS-PCN-20150611-1.1	6/11/2015	Below MDC	Below MDC	Below MDC
Lake Carlsbad	WS-CBD-20150611-1.1	6/11/2015	Below MDC	Below MDC	Below MDC
Brantley Lake	WS-BRA-20150611-1.1	6/11/2015	Below MDC	Below MDC	Below MDC
Fresh Water Tank	WS-FWT-20150615-1.1	6/15/2015	Below MDC	Below MDC	Below MDC

MDC ranges are:

MDC Am-241 (dpm/L): 4.34E-02 to 1.51E-01

MDC Pu-238 (dpm/L): 2.84E-02 to 1.16E-01

MDC Pu-239/240 (dpm/L): 2.79E-02 to 1.24E-01

Attachment 4
Surface & Underground Derived Waste Currently in Storage at the WIPP Facility (reserved)
[Last updated June 30, 2015]

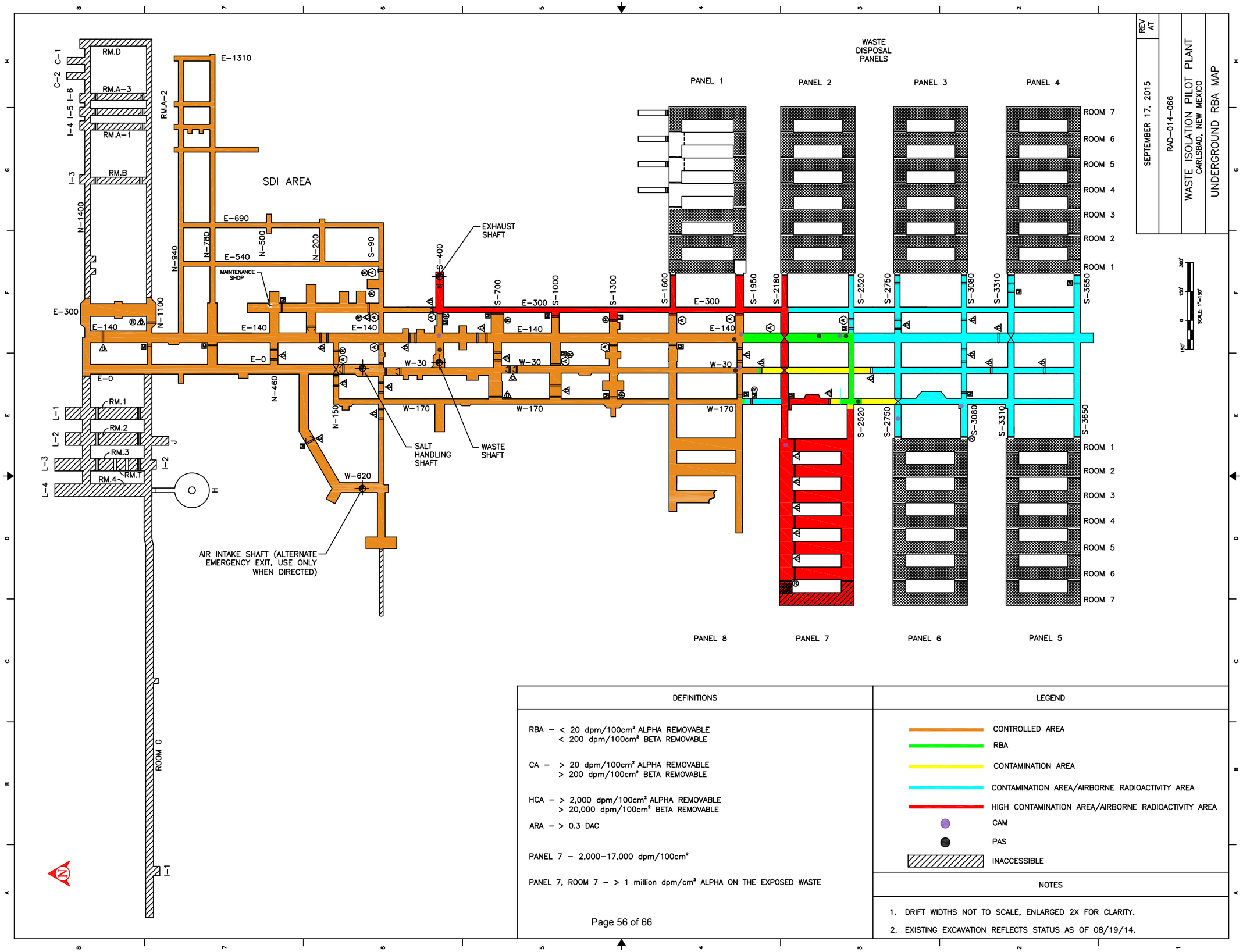
Attachment 5
Status of RCRA Contingency Plan Required Activities

RCRA Contingency Plan Section	Equipment	Description and Capabilities	Location
Table D-6 Emergency Equipment Maintained at the Waste Isolation Pilot Plant	Automatic Fire Suppression Systems on liquid fueled vehicles*	Individual fire suppression systems are installed on liquid fueled vehicles*	Underground and Surface

* Manual fire suppression systems on certain vehicles, such as waste handling equipment in the underground and on the surface, have been replaced with automatic on-board fire suppression systems.

Attachment 6
Corrective Actions Required for Recovery (reserved)
[Last updated April 30, 2015]

Attachment 7
Panel 7 & Other Recovery-Related Work



REV AT	
SEPTEMBER 17, 2015	RAD-014-066

WASTE ISOLATION PILOT PLANT
CARLSBAD, NEW MEXICO

UNDERGROUND RBA MAP

DEFINITIONS
RBA – < 20 dpm/100cm² ALPHA REMOVABLE < 200 dpm/100cm² BETA REMOVABLE
CA – > 20 dpm/100cm² ALPHA REMOVABLE > 200 dpm/100cm² BETA REMOVABLE
HCA – > 2,000 dpm/100cm² ALPHA REMOVABLE > 20,000 dpm/100cm² BETA REMOVABLE
ARA – > 0.3 DAC
PANEL 7 – 2,000–17,000 dpm/100cm²
PANEL 7, ROOM 7 – > 1 million dpm/cm² ALPHA ON THE EXPOSED WASTE

LEGEND
CONTROLLED AREA
RBA
CONTAMINATION AREA
CONTAMINATION AREA/AIRBORNE RADIOACTIVITY AREA
HIGH CONTAMINATION AREA/AIRBORNE RADIOACTIVITY AREA
CAM
PAS
INACCESSIBLE

NOTES

1. DRIFT WIDTHS NOT TO SCALE, ENLARGED 2X FOR CLARITY.
2. EXISTING EXCAVATION REFLECTS STATUS AS OF 08/19/14.

Emergency Response Vehicles Stationed in the WIPP Underground

Attachment 8
Interim Ventilation System & Supplemental Ventilation System
Equipment and Work Activities (reserved)
[Last updated August 31, 2015]

Attachment 9
WIPP Nitrate Salt Bearing Waste Container Isolation Plan
Information Required by Administrative Order 3

#	Container ID#	EPA HWN	EPA HWN	Waste Stream	Shipment #	Emplacement Location
1.	LA00000053752	D001	D002	LA-CIN01.001	LA120147	Panel 6, Room 4, Row 6, Column 2, Height B
2.	LA00000053774	D001	D002	LA-CIN01.001	LA120168	Panel 6, Room 4, Row 30, Column 6, Height T
3.	LA00000055314	D001	D002	LA-CIN01.001	LA130182	Panel 6, Room 1, Row 65, Column 3, Height B
4.	LA00000057302	D001	D002	LA-CIN01.001	LA130047	Panel 6, Room 3, Row 103, Column 5, Height B
5.	LA00000057304	D001	D002	LA-CIN01.001	LA130058	Panel 6, Room 3, Row 128, Column 2, Height B
6.	LA00000057344	D001	D002	LA-CIN01.001	LA130049	Panel 6, Room 3, Row 109, Column 5, Height M
7.	LA00000057365	D001	D002	LA-CIN01.001	LA130041	Panel 6, Room 3, Row 96, Column 6, Height B
8.	LA00000057370	D001	D002	LA-CIN01.001	LA140012	Panel 7, Room 7, Row 15, Column 1, Height T
9.	LA00000092406	D001	D002	LA-CIN01.001	LA130007	Panel 6, Room 3, Row 29, Column 3, Height B
10.	LA00000092538	D001	D002	LA-CIN01.001	LA130050	Panel 6, Room 3, Row 115, Column 1, Height B
11.	LA00000093438	D001	D002	LA-CIN01.001	LA130075	Panel 6, Room 2, Row 8, Column 4, Height B
12.	LA00000093449	D001	D002	LA-CIN01.001	LA130075	Panel 6, Room 2, Row 5, Column 5, Height M
13.	LA00000093527	D001	D002	LA-CIN01.001	LA130075	Panel 6, Room 2, Row 8, Column 4, Height M
14.	LA00000093717	D001	D002	LA-CIN01.001	LA130095	Panel 6, Room 2, Row 38, Column 2, Height T
15.	LA00000093796	D001	D002	LA-CIN01.001	LA130106	Panel 6, Room 2, Row 60, Column 4, Height T
16.	LA00000093804	D001	D002	LA-CIN01.001	LA130108	Panel 6, Room 2, Row 58, Column 4, Height B
17.	LA00000093812	D001	D002	LA-CIN01.001	LA130103	Panel 6, Room 2, Row 50, Column 2, Height T
18.	LA00000093834	D001	D002	LA-CIN01.001	LA130107	Panel 6, Room 2, Row 58, Column 4, Height M
19.	LA00000093839	D001	D002	LA-CIN01.001	LA130107	Panel 6, Room 2, Row 58, Column 4, Height M
20.	LA00000093841	D001	D002	LA-CIN01.001	LA130116	Panel 6, Room 2, Row 70, Column 2, Height T
21.	LA00000093854	D001	D002	LA-CIN01.001	LA130111	Panel 6, Room 2, Row 66, Column 4, Height T
22.	LA00000093864	D001	D002	LA-CIN01.001	LA130134	Panel 6, Room 2, Row 96, Column 2, Height T
23.	LA00000093869	D001	D002	LA-CIN01.001	LA130112	Panel 6, Room 2, Row 66, Column 2, Height T
24.	LA00000093883	D001	D002	LA-CIN01.001	LA130130	Panel 6, Room 2, Row 91, Column 3, Height T
25.	LA00000093891	D001	D002	LA-CIN01.001	LA130113	Panel 6, Room 2, Row 67, Column 1, Height T
26.	LA00000093946	D001	D002	LA-CIN01.001	LA130128	Panel 6, Room 2, Row 90, Column 6, Height T
27.	LA00000093980	D001	D002	LA-CIN01.001	LA130125	Panel 6, Room 2, Row 88, Column 6, Height T
28.	LA00000093981	D001	D002	LA-CIN01.001	LA130117	Panel 6, Room 2, Row 71, Column 3, Height M
29.	LA00000093992	D001	D002	LA-CIN01.001	LA130117	Panel 6, Room 2, Row 71, Column 3, Height M

#	Container ID#	EPA HWN	EPA HWN	Waste Stream	Shipment #	Emplacement Location
30.	LA00000094003	D001	D002	LA-CIN01.001	LA130116	Panel 6, Room 2, Row 71, Column 1, Height B
31.	LA00000094019	D001	D002	LA-CIN01.001	LA130131	Panel 6, Room 2, Row 90, Column 2, Height T
32.	LA00000094032	D001	D002	LA-CIN01.001	LA130128	Panel 6, Room 2, Row 90, Column 6, Height T
33.	LA00000094033	D001	D002	LA-CIN01.001	LA130129	Panel 6, Room 2, Row 89, Column 5, Height T
34.	LA00000094039	D001	D002	LA-CIN01.001	LA130129	Panel 6, Room 2, Row 91, Column 5, Height T
35.	LA00000094040	D001	D002	LA-CIN01.001	LA130130	Panel 6, Room 2, Row 90, Column 4, Height B
36.	LA00000094056	D001	D002	LA-CIN01.001	LA130128	Panel 6, Room 2, Row 90, Column 4, Height T
37.	LA00000094059	D001	D002	LA-CIN01.001	LA130133	Panel 6, Room 2, Row 96, Column 2, Height B
38.	LA00000094082	D001	D002	LA-CIN01.001	LA130132	Panel 6, Room 2, Row 93, Column 5, Height B
39.	LA00000094115	D001	D002	LA-CIN01.001	LA130165	Panel 6, Room 1, Row 32, Column 6, Height B
40.	LA00000094141	D001	D002	LA-CIN01.001	LA130150	Panel 6, Room 1, Row 4, Column 4, Height M
41.	LA00000094194	D001	D002	LA-CIN01.001	LA130168	Panel 6, Room 1, Row 35, Column 5, Height M
42.	LA00000094200	D001	D002	LA-CIN01.001	LA130157	Panel 6, Room 1, Row 15, Column 3, Height T
43.	LA00000094216	D001	D002	LA-CIN01.001	LA130173	Panel 6, Room 1, Row 50, Column 4, Height T
44.	LA00000068481	D001	N/A	LA-CIN01.001	LA140014	Panel 7, Room 7, Row 10, Column 2, Height T
45.	LA00000092393	D001	N/A	LA-MHD01.001	LA130102	Panel 6, Room 2, Row 50, Column 6, Height T
46.	LA00000092404	D001	N/A	LA-CIN01.001	LA130186	Panel 6, Room 1, Row 73, Column 5, Height T
47.	LA00000092413	D001	N/A	LA-MHD01.001	LA130050	Panel 6, Room 3, Row 115, Column 1, Height B
48.	LA00000092452	D001	N/A	LA-MHD01.001	LA130098	Panel 6, Room 2, Row 45, Column 5, Height T
49.	LA00000092454	D001	N/A	LA-MHD01.001	LA130103	Panel 6, Room 2, Row 50, Column 2, Height T
50.	LA00000092799	D001	N/A	LA-MHD01.001	LA130133	Panel 6, Room 2, Row 96, Column 2, Height M
51.	LA00000093045	D001	N/A	LA-MHD01.001	LA130084	Panel 6, Room 2, Row 7, Column 5, Height B
52.	LA00000093065	D001	N/A	LA-CIN01.001	LA130051	Panel 6, Room 3, Row 115, Column 5, Height T
53.	LA00000093105	D001	N/A	LA-MHD01.001	LA130108	Panel 6, Room 2, Row 58, Column 4, Height B
54.	LA00000093218	D001	N/A	LA-CIN01.001	LA130055	Panel 6, Room 3, Row 119, Column 1, Height T
55.	LA00000093260	D001	N/A	LA-CIN01.001	LA130050	Panel 6, Room 3, Row 114, Column 6, Height M
56.	LA00000093262	D001	N/A	LA-CIN01.001	LA130055	Panel 6, Room 3, Row 119, Column 1, Height T
57.	LA00000093265	D001	N/A	LA-CIN01.001	LA130050	Panel 6, Room 3, Row 115, Column 1, Height M
58.	LA00000093278	D001	N/A	LA-CIN01.001	LA130050	Panel 6, Room 3, Row 114, Column 6, Height M
59.	LA00000093304	D001	N/A	LA-MHD01.001	LA130115	Panel 6, Room 2, Row 68, Column 2, Height B
60.	LA00000093324	D001	N/A	LA-CIN01.001	LA130107	Panel 6, Room 2, Row 57, Column 5, Height T

#	Container ID#	EPA HWN	EPA HWN	Waste Stream	Shipment #	Emplacement Location
61.	LA00000093346	D001	N/A	LA-CIN01.001	LA130055	Panel 6, Room 3, Row 119, Column 1, Height T
62.	LA00000093354	D001	N/A	LA-MHD01.001	LA130115	Panel 6, Room 2, Row 68, Column 2, Height B
63.	LA00000093355	D001	N/A	LA-CIN01.001	LA130074	Panel 6, Room 2, Row 5, Column 5, Height B
64.	LA00000093356	D001	N/A	LA-CIN01.001	LA130061	Panel 6, Room 3, Row 137, Column 1, Height B
65.	LA00000093364	D001	N/A	LA-CIN01.001	LA130074	Panel 6, Room 2, Row 4, Column 2, Height M
66.	LA00000093365	D001	N/A	LA-CIN01.001	LA130055	Panel 6, Room 3, Row 119, Column 1, Height T
67.	LA00000093374	D001	N/A	LA-CIN01.001	LA130055	Panel 6, Room 3, Row 119, Column 1, Height T
68.	LA00000093381	D001	N/A	LA-CIN01.001	LA130152	Panel 6, Room 1, Row 5, Column 3, Height T
69.	LA00000093411	D001	N/A	LA-MHD01.001	LA130139	Panel 6, Room 2, Row 114, Column 4, Height T
70.	LA00000093423	D001	N/A	LA-CIN01.001	LA130079	Panel 6, Room 2, Row 7, Column 3, Height T
71.	LA00000093426	D001	N/A	LA-CIN01.001	LA130074	Panel 6, Room 2, Row 5, Column 5, Height B
72.	LA00000093427	D001	N/A	LA-CIN01.001	LA130080	Panel 6, Room 2, Row 6, Column 4, Height B
73.	LA00000093439	D001	N/A	LA-CIN01.001	LA130061	Panel 6, Room 3, Row 137, Column 1, Height M
74.	LA00000093444	D001	N/A	LA-CIN01.001	LA130074	Panel 6, Room 2, Row 4, Column 2, Height B
75.	LA00000093446	D001	N/A	LA-CIN01.001	LA130076	Panel 6, Room 2, Row 9, Column 5, Height B
76.	LA00000093447	D001	N/A	LA-CIN01.001	LA130075	Panel 6, Room 2, Row 8, Column 4, Height B
77.	LA00000093453	D001	N/A	LA-CIN01.001	LA130076	Panel 6, Room 2, Row 9, Column 5, Height B
78.	LA00000093472	D001	N/A	LA-CIN01.001	LA130075	Panel 6, Room 2, Row 5, Column 5, Height M
79.	LA00000093477	D001	N/A	LA-CIN01.001	LA130075	Panel 6, Room 2, Row 8, Column 4, Height M
80.	LA00000093479	D001	N/A	LA-CIN01.001	LA130079	Panel 6, Room 2, Row 4, Column 4, Height T
81.	LA00000093497	D001	N/A	LA-CIN01.001	LA130079	Panel 6, Room 2, Row 7, Column 1, Height T
82.	LA00000093498	D001	N/A	LA-CIN01.001	LA130080	Panel 6, Room 2, Row 7, Column 1, Height M
83.	LA00000093505	D001	N/A	LA-CIN01.001	LA130097	Panel 6, Room 2, Row 41, Column 1, Height T
84.	LA00000093518	D001	N/A	LA-CIN01.001	LA130079	Panel 6, Room 2, Row 4, Column 4, Height T
85.	LA00000093538	D001	N/A	LA-CIN01.001	LA130079	Panel 6, Room 2, Row 7, Column 1, Height T
86.	LA00000093539	D001	N/A	LA-CIN01.001	LA130080	Panel 6, Room 2, Row 7, Column 1, Height B
87.	LA00000093541	D001	N/A	LA-CIN01.001	LA130080	Panel 6, Room 2, Row 7, Column 1, Height B
88.	LA00000093544	D001	N/A	LA-MHD01.001	LA130139	Panel 6, Room 2, Row 114, Column 4, Height T
89.	LA00000093616	D001	N/A	LA-CIN01.001	LA130098	Panel 6, Room 2, Row 42, Column 4, Height T
90.	LA00000093622	D001	N/A	LA-CIN01.001	LA130076	Panel 6, Room 2, Row 14, Column 6, Height M
91.	LA00000093627	D001	N/A	LA-CIN01.001	LA130075	Panel 6, Room 2, Row 5, Column 5, Height M

#	Container ID#	EPA HWN	EPA HWN	Waste Stream	Shipment #	Emplacement Location
92.	LA00000093636	D001	N/A	LA-CIN01.001	LA130097	Panel 6, Room 2, Row 41, Column 1, Height T
93.	LA00000093646	D001	N/A	LA-CIN01.001	LA130076	Panel 6, Room 2, Row 14, Column 6, Height B
94.	LA00000093649	D001	N/A	LA-CIN01.001	LA130095	Panel 6, Room 2, Row 38, Column 4, Height M
95.	LA00000093656	D001	N/A	LA-CIN01.001	LA130099	Panel 6, Room 2, Row 45, Column 1, Height T
96.	LA00000093658	D001	N/A	LA-CIN01.001	LA130075	Panel 6, Room 2, Row 8, Column 4, Height B
97.	LA00000093661	D001	N/A	LA-CIN01.001	LA130075	Panel 6, Room 2, Row 8, Column 4, Height M
98.	LA00000093664	D001	N/A	LA-CIN01.001	LA130107	Panel 6, Room 2, Row 59, Column 5, Height T
99.	LA00000093669	D001	N/A	LA-CIN01.001	LA130095	Panel 6, Room 2, Row 38, Column 2, Height T
100.	LA00000093675	D001	N/A	LA-CIN01.001	LA130098	Panel 6, Room 2, Row 42, Column 4, Height T
101.	LA00000093679	D001	N/A	LA-CIN01.001	LA130095	Panel 6, Room 2, Row 38, Column 4, Height B
102.	LA00000093689	D001	N/A	LA-CIN01.001	LA130098	Panel 6, Room 2, Row 42, Column 4, Height T
103.	LA00000093693	D001	N/A	LA-CIN01.001	LA130099	Panel 6, Room 2, Row 46, Column 2, Height B
104.	LA00000093702	D001	N/A	LA-CIN01.001	LA130125	Panel 6, Room 2, Row 88, Column 2, Height T
105.	LA00000093711	D001	N/A	LA-CIN01.001	LA130103	Panel 6, Room 2, Row 54, Column 2, Height T
106.	LA00000093716	D001	N/A	LA-CIN01.001	LA130095	Panel 6, Room 2, Row 38, Column 4, Height M
107.	LA00000093719	D001	N/A	LA-CIN01.001	LA130098	Panel 6, Room 2, Row 42, Column 4, Height T
108.	LA00000093730	D001	N/A	LA-CIN01.001	LA130103	Panel 6, Room 2, Row 54, Column 2, Height T
109.	LA00000093731	D001	N/A	LA-CIN01.001	LA130097	Panel 6, Room 2, Row 39, Column 5, Height T
110.	LA00000093738	D001	N/A	LA-CIN01.001	LA130099	Panel 6, Room 2, Row 46, Column 2, Height B
111.	LA00000093741	D001	N/A	LA-CIN01.001	LA130099	Panel 6, Room 2, Row 46, Column 2, Height B
112.	LA00000093745	D001	N/A	LA-CIN01.001	LA130099	Panel 6, Room 2, Row 46, Column 2, Height B
113	LA00000093748	D001	N/A	LA-CIN01.001	LA130099	Panel 6, Room 2, Row 46, Column 2, Height M
114.	LA00000093755	D001	N/A	LA-CIN01.001	LA130099	Panel 6, Room 2, Row 45, Column 1, Height T
115.	LA00000093759	D001	N/A	LA-CIN01.001	LA130103	Panel 6, Room 2, Row 50, Column 2, Height T
116.	LA00000093766	D001	N/A	LA-CIN01.001	LA130106	Panel 6, Room 2, Row 60, Column 4, Height T
117.	LA00000093772	D001	N/A	LA-CIN01.001	LA130107	Panel 6, Room 2, Row 59, Column 5, Height T
118.	LA00000093775	D001	N/A	LA-CIN01.001	LA130107	Panel 6, Room 2, Row 59, Column 5, Height T
119.	LA00000093789	D001	N/A	LA-CIN01.001	LA130103	Panel 6, Room 2, Row 51, Column 1, Height T
120.	LA00000093792	D001	N/A	LA-CIN01.001	LA130107	Panel 6, Room 2, Row 59, Column 5, Height T
121.	LA00000093795	D001	N/A	LA-CIN01.001	LA130099	Panel 6, Room 2, Row 45, Column 1, Height T
122.	LA00000093798	D001	N/A	LA-CIN01.001	LA130108	Panel 6, Room 2, Row 58, Column 2, Height T

#	Container ID#	EPA HWN	EPA HWN	Waste Stream	Shipment #	Emplacement Location
123.	LA00000093800	D001	N/A	LA-CIN01.001	LA130103	Panel 6, Room 2, Row 54, Column 2, Height T
124.	LA00000093811	D001	N/A	LA-CIN01.001	LA130103	Panel 6, Room 2, Row 51, Column 1, Height T
125.	LA00000093814	D001	N/A	LA-CIN01.001	LA140010	Panel 7, Room 7, Row 2, Column 6, Height T
126.	LA00000093836	D001	N/A	LA-CIN01.001	LA140009	Panel 6, Room 1, Row 93, Column 3, Height T
127.	LA00000093850	D001	N/A	LA-CIN01.001	LA130118	Panel 6, Room 2, Row 74, Column 4, Height T
128.	LA00000093853	D001	N/A	LA-CIN01.001	LA130111	Panel 6, Room 2, Row 66, Column 4, Height T
129.	LA00000093856	D001	N/A	LA-CIN01.001	LA130110	Panel 6, Room 2, Row 65, Column 1, Height T
130.	LA00000093857	D001	N/A	LA-CIN01.001	LA130118	Panel 6, Room 2, Row 74, Column 4, Height T
131.	LA00000093863	D001	N/A	LA-CIN01.001	LA130111	Panel 6, Room 2, Row 66, Column 6, Height T
132.	LA00000093880	D001	N/A	LA-CIN01.001	LA130111	Panel 6, Room 2, Row 66, Column 6, Height T
133.	LA00000093911	D001	N/A	LA-CIN01.001	LA130110	Panel 6, Room 2, Row 65, Column 1, Height T
134.	LA00000093937	D001	N/A	LA-CIN01.001	LA130119	Panel 6, Room 2, Row 76, Column 6, Height T
135.	LA00000093940	D001	N/A	LA-CIN01.001	LA130118	Panel 6, Room 2, Row 74, Column 6, Height T
136.	LA00000093942	D001	N/A	LA-CIN01.001	LA130119	Panel 6, Room 2, Row 76, Column 6, Height T
137.	LA00000093994	D001	N/A	LA-CIN01.001	LA130118	Panel 6, Room 2, Row 74, Column 2, Height T
138.	LA00000094046	D001	N/A	LA-CIN01.001	LA130132	Panel 6, Room 2, Row 93, Column 5, Height B
139.	LA00000094053	D001	N/A	LA-CIN01.001	LA130136	Panel 6, Room 2, Row 97, Column 3, Height M
140.	LA00000094099	D001	N/A	LA-CIN01.001	LA130150	Panel 6, Room 1, Row 4, Column 2, Height M
141.	LA00000094103	D001	N/A	LA-CIN01.001	LA130151	Panel 6, Room 2, Row 127, Column 5, Height T
142.	LA00000094111	D001	N/A	LA-CIN01.001	LA130152	Panel 6, Room 1, Row 5, Column 3, Height T
143.	LA00000094114	D001	N/A	LA-CIN01.001	LA130150	Panel 6, Room 1, Row 4, Column 2, Height M
144.	LA00000094138	D001	N/A	LA-CIN01.001	LA130159	Panel 6, Room 1, Row 23, Column 1, Height B
145.	LA00000094196	D001	N/A	LA-CIN01.001	LA130176	Panel 6, Room 1, Row 52, Column 2, Height T
146.	LA00000094198	D001	N/A	LA-CIN01.001	LA130157	Panel 6, Room 1, Row 15, Column 3, Height T
147.	LA00000094229	D001	N/A	LA-CIN01.001	LA130169	Panel 6, Room 1, Row 49, Column 3, Height B
148.	LAS794448	D001	D002	LA-CIN01.001	LA120172	Panel 6, Room 4, Row 33, Column 1, Height M
149.	LAS801677	D001	D002	LA-CIN01.001	LA120147	Panel 6, Room 4, Row 9, Column 1, Height T
150.	LAS802735	D001	D002	LA-CIN01.001	LA120180	Panel 6, Room 4, Row 46, Column 4, Height B
151.	LAS802746	D001	D002	LA-CIN01.001	LA130007	Panel 6, Room 3, Row 29, Column 3, Height B
152.	LAS802828	D001	D002	LA-CIN01.001	LA130002	Panel 6, Room 3, Row 14, Column 2, Height T
153.	LAS803056	D001	D002	LA-CIN01.001	LA120171	Panel 6, Room 4, Row 29, Column 3, Height B

#	Container ID#	EPA HWN	EPA HWN	Waste Stream	Shipment #	Emplacement Location
154.	LAS803615	D001	D002	LA-CIN01.001	LA130019	Panel 6, Room 3, Row 39, Column 1, Height B
155.	LAS804951	D001	D002	LA-CIN01.001	LA130021	Panel 6, Room 3, Row 49, Column 3, Height T
156.	LAS805001	D001	D002	LA-CIN01.001	LA120142	Panel 6, Room 4, Row 1, Column 3, Height T
157.	LAS811659	D001	D002	LA-CIN01.001	LA130021	Panel 6, Room 3, Row 49, Column 3, Height T
158.	LAS811908	D001	D002	LA-CIN01.001	LA120174	Panel 6, Room 4, Row 49, Column 1, Height M
159.	LAS813667	D001	D002	LA-CIN01.001	LA130022	Panel 6, Room 3, Row 51, Column 3, Height T
160.	LAS815025	D001	D002	LA-CIN01.001	LA120168	Panel 6, Room 4, Row 31, Column 3, Height M
161.	LAS815105	D001	D002	LA-CIN01.001	LA120167	Panel 6, Room 4, Row 34, Column 6, Height B
162.	LAS816357	D001	D002	LA-CIN01.001	LA130012	Panel 6, Room 3, Row 31, Column 1, Height T
163	LAS833232	D001	D002	LA-CIN01.001	LA120169	Panel 6, Room 4, Row 30, Column 6, Height B
164.	LAS833244	D001	D002	LA-CIN01.001	LA120167	Panel 6, Room 4, Row 31, Column 1, Height M
165.	LAS833269	D001	D002	LA-CIN01.001	LA130006	Panel 6, Room 3, Row 26, Column 6, Height M
166.	LAS834504	D001	D002	LA-CIN01.001	LA120192	Panel 6, Room 4, Row 80, Column 4, Height T
167.	LAS834529	D001	D002	LA-CIN01.001	LA120171	Panel 6, Room 4, Row 29, Column 3, Height B
168.	LAS834575	D001	D002	LA-CIN01.001	LA120177	Panel 6, Room 4, Row 40, Column 6, Height M
169.	LAS842378	D001	D002	LA-CIN01.001	LA130012	Panel 6, Room 3, Row 31, Column 1, Height T
170.	LAS842381	D001	D002	LA-CIN01.001	LA120123	Panel 6, Room 5, Row 137, Column 1, Height T
171.	LAS844214	D001	D002	LA-CIN01.001	LA120167	Panel 6, Room 4, Row 31, Column 1, Height M
172.	LAS844585	D001	D002	LA-CIN01.001	LA120208	Panel 6, Room 4, Row 125, Column 3, Height B
173.	LAS845040	D001	D002	LA-CIN01.001	LA130022	Panel 6, Room 3, Row 42, Column 4, Height B
174.	LAS845261	D001	D002	LA-CIN01.001	LA130102	Panel 6, Room 2, Row 53, Column 5, Height B
175.	LAS846117	D001	D002	LA-CIN01.001	LA120219	Panel 6, Room 3, Row 21, Column 3, Height T
176.	LAS851790	D001	D002	LA-CIN01.001	LA120132	Panel 6, Room 4, Row 2, Column 2, Height B
177.	LAS852572	D001	D002	LA-CIN01.001	LA130020	Panel 6, Room 3, Row 41, Column 3, Height B
178.	LAS852961	D001	D002	LA-CIN01.001	LA130012	Panel 6, Room 3, Row 31, Column 1, Height B
179.	LAS853033	D001	D002	LA-CIN01.001	LA130003	Panel 6, Room 3, Row 18, Column 2, Height T
180.	LAS853567	D001	D002	LA-CIN01.001	LA120186	Panel 6, Room 4, Row 77, Column 5, Height B
181.	LAS853574	D001	D002	LA-CIN01.001	LA120147	Panel 6, Room 4, Row 9, Column 1, Height T
182.	LAS855125	D001	D002	LA-CIN01.001	LA130026	Panel 6, Room 3, Row 54, Column 2, Height B
183.	LAS855617	D001	D002	LA-CIN01.001	LA120218	Panel 6, Room 3, Row 6, Column 2, Height T
184.	LAS860065	D001	D002	LA-CIN01.001	LA120161	Panel 6, Room 4, Row 22, Column 2, Height B

#	Container ID#	EPA HWN	EPA HWN	Waste Stream	Shipment #	Emplacement Location
185.	LAS860098	D001	D002	LA-CIN01.001	LA120218	Panel 6, Room 3, Row 7, Column 5, Height B
186.	LAS860105	D001	D002	LA-CIN01.001	LA120218	Panel 6, Room 3, Row 5, Column 5, Height B
187.	LAS861807	D001	D002	LA-CIN01.001	LA130006	Panel 6, Room 3, Row 29, Column 3, Height T
188.	LAS862009	D001	D002	LA-CIN01.001	LA130102	Panel 6, Room 2, Row 53, Column 5, Height B
189.	LAS862387	D001	D002	LA-CIN01.001	LA130007	Panel 6, Room 3, Row 29, Column 1, Height B
190.	LAS863035	D001	D002	LA-CIN01.001	LA130011	Panel 6, Room 3, Row 30, Column 2, Height B
191.	LAS863644	D001	D002	LA-CIN01.001	LA120174	Panel 6, Room 4, Row 49, Column 1, Height B
192.	LAS864305	D001	D002	LA-CIN01.001	LA120165	Panel 6, Room 4, Row 31, Column 3, Height T