

ADEP Update

Northern New Mexico Citizens' Advisory Board

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Agenda

- I. Organizational changes
- II. Nitrate salt waste
- III. Chromium remediation
- IV. RDX remediation
- V. Material Disposal Area L soil vapor extraction
- VI. Individual Permit (IP) renewal

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Organizational Changes

- On October 1, responsibility for interactions with regulators (EPA, NMED) was assigned to the Associate Directorate of Environment, Safety and Health (ADESH)
- Purpose is to have a single organization manage interface with the State, so consolidating that effort under ADESH

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Nitrate Salt Waste

- Main focus is developing a plan to move forward
 - Two teams of LANL scientists focused on establishing a technical basis for path forward
 - External review team's report will provide technical basis for corrective actions
- Potential RCRA non-compliance reported to NMED
- Accident Investigation Board report
- Corrective Action Plan



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Chromium Remediation

- Began pumping on 10/26 with first plume control well
 - Currently pumping 80 gallons/minute – this rate may increase
- Initial pumping will continue until approximately end of November
 - Pumped water is treated with ion exchange and land applied
- Pumping will continue in spring 2015
- This is an interim measure to:
 - 1) Hydraulically control the plume and prevent it from moving beyond the Lab boundary; and
 - 2) Achieve <50 parts per billion at the Lab boundary, which is expected to take three years



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RDX Groundwater Remediation

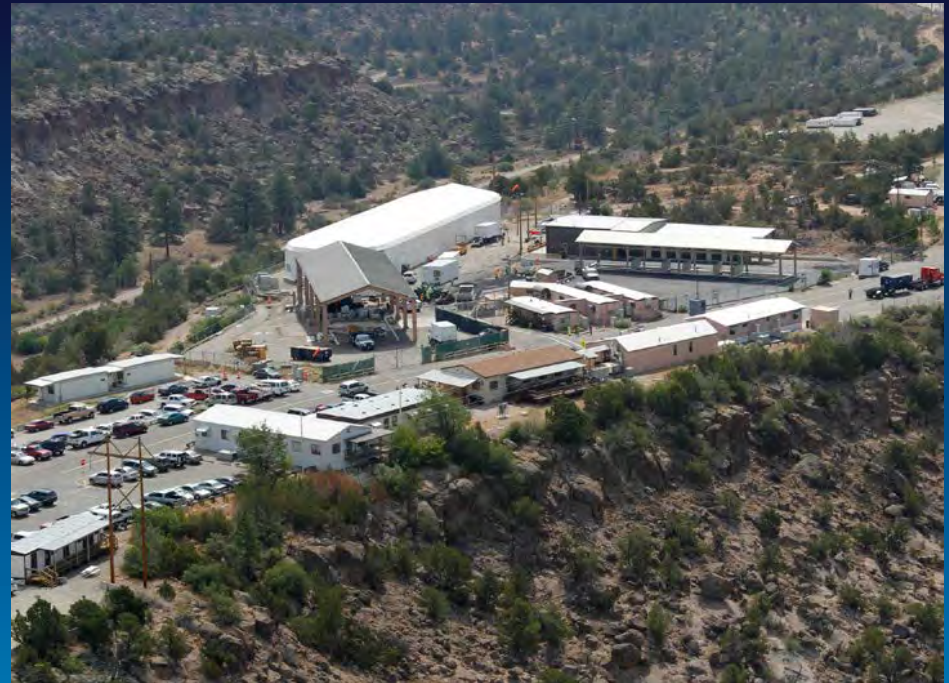
- High-explosives machining from 1951-96 resulted in RDX contamination in surface water and groundwater beneath Cañon de Valle
- Completed aquifer test September 2014
 - Tested aquifer response to pumping and trends in concentrations of RDX
- Completed geophysical study June 2014
 - Used study to plan location of additional wells
- Implemented drilling campaign to drill additional wells that will establish a monitoring network and possibly pump and treat contaminated groundwater using granulated activated organic carbon
 - Completed R-47
 - Completing R-63i
 - Completing CdV-16-9-1i



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MDA L Soil Vapor Extraction

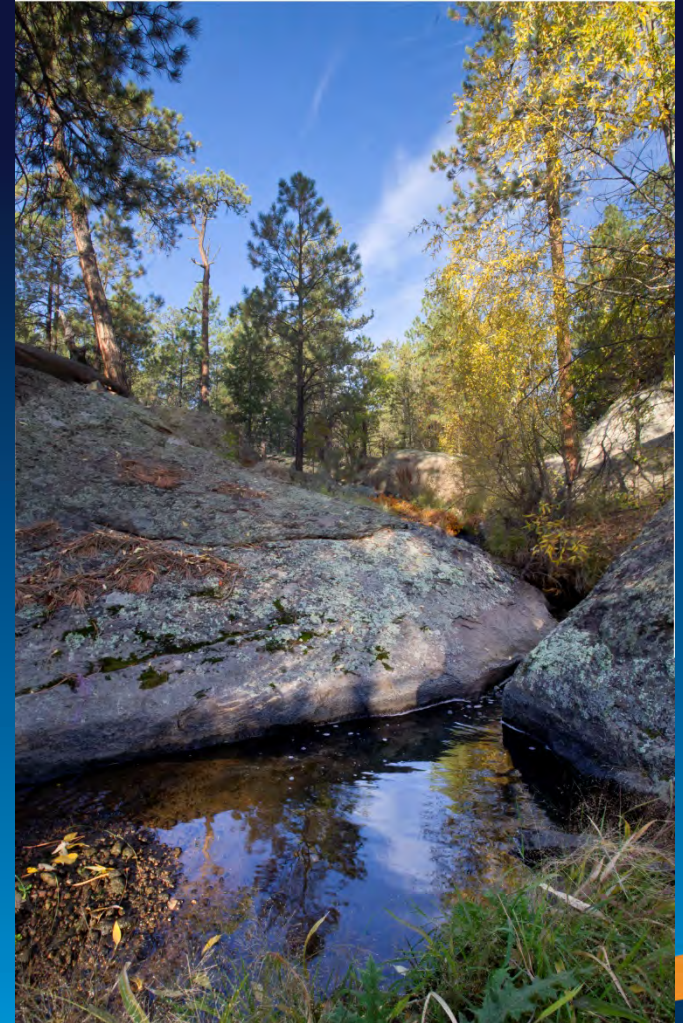
- Former liquid waste disposal facility historically used for disposal of volatile organic compounds from 1975–85; resulted in vapor plume in the vadose zone
- Plan to protect groundwater by installing two soil vapor extraction units
- Completed baseline sampling
- Currently installing soil vapor extraction units
 - Plan to begin operation on one unit by December



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IP Permit Renewal

- Application submitted in March 2014
- Collaborative effort
 - Laboratory, stakeholders, regulators and DOE
- Completed review with stakeholders—NMED Surface Water Quality Bureau and Communities for Clean Water—prior to final submittal to EPA in November
- Expect EPA to submit draft permit by January 2015
 - Then distributed for public comment



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