

NMED

New
Mexico
Environment
Department



USDOE SUPPLEMENTAL ENVIRONMENTAL PROJECTS

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Background

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- WIPP and LANL Compliance Orders (December 6, 2014)
- Settlement Agreement (January 22, 2016)
 - Requires the implementation of Supplemental Environmental Projects (SEPs).
 - DOE will spend \$74 million on selected projects under these SEPs.



Brief Overview – LANL-related SEPs

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- Roads - \$12 million
 - DOE Owned Transportation Routes
- Triennial Reviews - \$2.5 million
- Engineering Structures - \$7.5 million
- Increased Sampling/Monitoring - \$2.5 million
- Replace Aging Potable Water Lines - \$10 million



Process Overview

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- Project Teams were developed for each SEP
 - Team Lead: Sarah Holcomb, SWQB (SWM SEP and WE SEP)
 - NMED HWB, NMED SWQB, NMED DOE-OB, USDOE, LANS, Los Alamos County, San Ildefonso Pueblo
- 10 project team meetings between March-July 2016
- ID'ed specific objectives for each SEP



Watershed Enhancement

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- \$7.5 million to design and install engineering structures in canyons in and around LANL to slow storm water flow and decrease sediment load to improve water quality in the area, allowing surface water management at a watershed scale.





WE SEP Objectives

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- Above and beyond current regulatory requirements
- Slow storm water flow
- Decrease sediment load
- Qualitative approach to decisions
 - Group A Criteria – decided whether projects were feasible
 - Group B Criteria – assisted with ranking projects



WE SEP

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- Potential for flow/pollutant loading were evaluated across canyons to narrow project locations
- Specific areas were targeted and scoped, and a list of projects has been prioritized and selected
- A certain number are on the docket for completion, and there are a number of back up projects
 - If funding/estimates change during the evaluation/construction period, projects will be added as money allows.



Update on WE SEP

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- ❑ LID Master Plan – 50% complete
- ❑ Mortendad Canyon Wetlands Enhancement – design 98% complete
- ❑ Upper CdV Run-on Project – 44% design complete
- ❑ North Ancho Controls – 30% design initiated, site hydrology complete
- ❑ Mid Mortendad Controls, Lower Sandia Watershed Controls - 30% design complete
- ❑ DP Canyon – project was cancelled due to site access issues and safety concerns.



Stormwater Monitoring SEP

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- SEP requires DOE to “increase sampling and monitoring capabilities for storm water runoff in and around the Laboratory, with the results of sampling and monitoring to be shared with the public and NMED.”



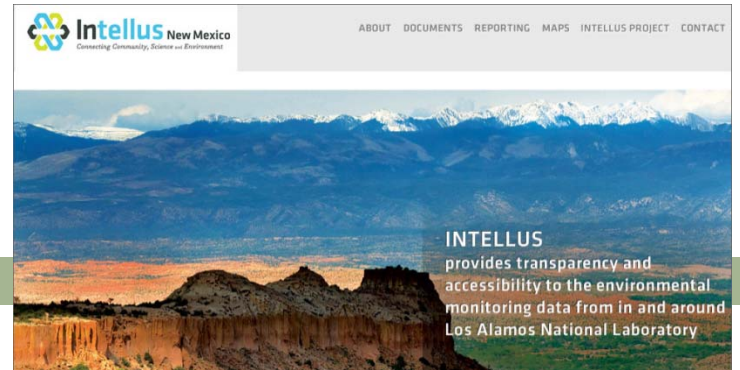
SWM SEP Objectives

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- Monitoring must be above and beyond what is currently required.
- Sharing all data collected with the public
- Improving the way data is viewed through IntellusNM
- Reporting data and project activities in a final project report to NMED
- Sharing skills, knowledge and technology for storm water sampling
- Address data gaps in storm water quality and discharge, and other related environmental media
- Survey stormwater-related aquatic life communities in and around LANL



IntellusNM



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- www.IntellusNM.com
- Warehouses vast amounts of LANL environmental data
- Organizational structure, naming conventions, cross referencing locations, etc., has not been kept up to date over the past 10 years
- Targeting data organization and cleanup to improve access to data.



Technology Transfer



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- Share skills, knowledge and technology with Accord Pueblos and local municipalities
 - Accord Pueblos received training (classroom and hands-on) on elements of stormwater monitoring, sampling and data analysis. Equipment has been ordered and received, and should be installed in the field by the 23rd.



Sampling and Monitoring

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- Fill data gaps!
- Reference Watersheds – atmospheric deposition (PCBs), sediment, stormwater (SSC, total/filtered metals, PCBs, radionuclides, PAHs, TOC, DOC, hardness)
- LANL Developed Areas – sediment and stormwater (SSC, total/filtered metals, PCBs, radionuclides, PAHs, SVOCs, dioxin/furans, TOC, DOC, hardness)
- LANL Firing Sites – sediment and stormwater (total/filtered metals, dioxin/furan, high explosives, PCBs, hardness)
- Aquatic Life Community Surveys (HPs, collecting biological data)
- Contingency Plan



Monitoring SEP Update

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- Data Quality Objectives process complete!
- Samplers are activated!



- Intellus – the scope has been finalized and the final implementation plan has been completed.
- Accord Pueblo Outreach – ISCO Avalanche samplers have been ordered; training was conducted on April 26th.



Moving Forward

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- Oversight Team quarterly progress meetings
- All SEPs must be complete by December 31, 2018
- DOE must certify completion of the SEPs and NMED must approve.



Questions?

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