

# Planning for Success: Future Cleanup Work at Los Alamos National Laboratory



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# 3706 TRANSURANIC WASTE CAMPAIGN

## A Risk Reduction Project



2001

- Cerro Grande Fire
- Over 48,000 Acres Burned

2011

- Las Conchas Fire
- Over 150,000 Acres Burned
- 3706 Transuranic Waste Campaign Started

2005

- Consent Order between LANL and the State of New Mexico
- Over **140K PE Ci** of Transuranic Waste Above Ground

2012

- Framework Agreement between LANL and NMED
- Doubled TRU Waste Removal with 920 Cubic Meters Removed

### 2014 Success Milestones

- 3706 Transuranic Waste Campaign Completion
- FY12 and 13 Newly Generated Waste Removed
- Below Ground Retrievals Initiated
- Material-At-Risk less than 30K PE Ci

2014

- 9 Consecutive Quarters Ahead of Schedule
- **Material-At-Risk less than 35K PE Ci**

2013

- 1825 Cubic Meters of TRU Waste Removed
- New Basis of Interim Operations Approved and Implemented
- Received \$40 M in Reprogramming and Supplemental Funding



# Partnering






# What's Next

- Capitalize on 3706 success
- Campaign approach
- Continue successful partnerships





# Major Campaigns



**3706**  
**TRANSURANIC**  
**WASTE CAMPAIGN**

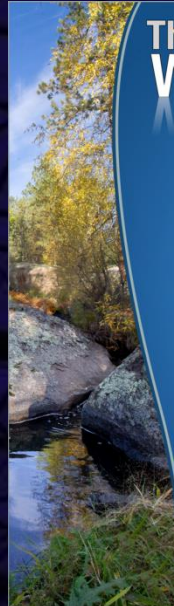
New Mexicans working together to meet a national environmental challenge



Los Alamos National Laboratory  
**The WATER** campaign

ENVIRONMENTAL PROGRAMS I

Canon de Valle  
Mortandad Canyon  
Surface water controls



Los Alamos National Laboratory  
ADEP ENVIRONMENTAL PROGRAMS  
NISA

Operated by Los Alamos Security, LLC for the U.S. Department of Energy's NNSA

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# Transuranic Waste Campaign

## Above ground bridge campaign

Post-3706 above  
ground waste to be  
shipped:

740 m<sup>3</sup>

25,053 PE-Ci

Includes bollas  
grandes





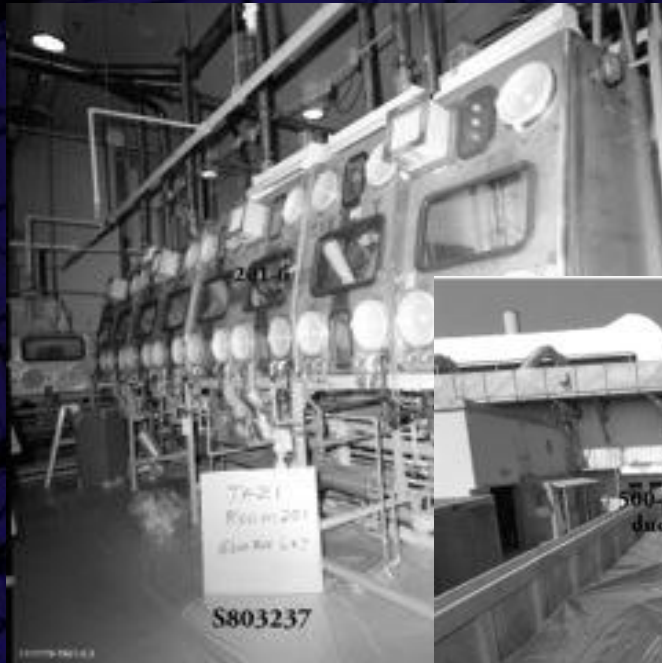
# Transuranic Waste Campaign

## Below Ground Campaigns

Below-ground waste to be shipped:

2,400 m<sup>3</sup>

110,751 PE-Ci





# Water Campaigns

## Mortandad Canyon Cleanup

### Chromium:

- Pilot testing occurred in 2013
- Pumped and treated ~4M gallons of groundwater
- Pilot production well planned for 2014



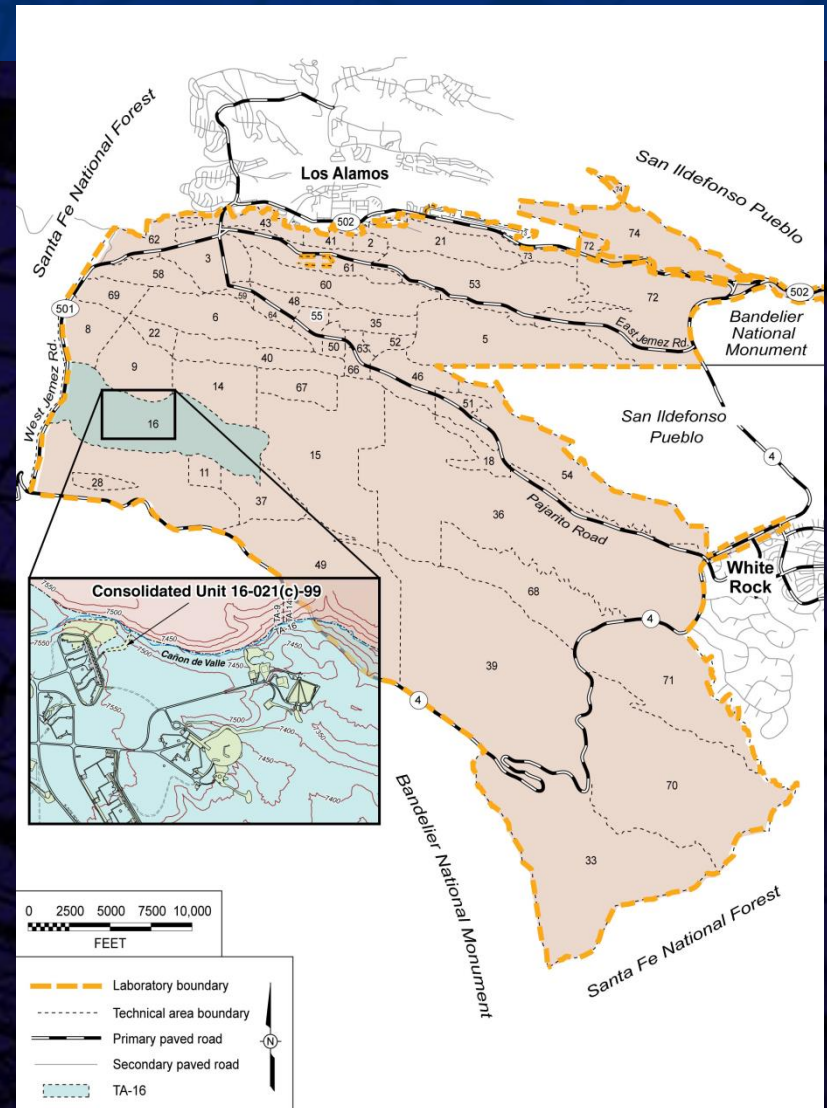


# Water Campaigns

## Canon de Valle Cleanup

### ■ Building 260

- Contaminants released from machining operations
- Outfall discharged wastewater into Canon de Valle
- Intermediate and regional groundwater





# Water Campaigns

## Boundary Protection

- Focuses on sediment control through storm water control
  - Storm water controls are designed to slow water down and control sediment
  - Addresses eight canyon systems
- Protect future generations from unknown changed conditions such as fire and flood
- Integrated with EPA Individual Permit





# Remaining Legacy Cleanup

- Material Disposal Areas
- Aggregate Areas





# Exciting Future for Cleanup at Los Alamos

