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# Environmental Stewardship Division Remediation Project

NMED Consent Order Implementation and Update on  
Remediation Milestones

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LA-UR-05-5660

UNCLASSIFIED

# Definitions

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- AOC: Area of Concern
- SWMU: Solid Waste Management Unit
- PRS: Potential Release Site
- Hazardous Waste
- Radionuclide
- Mixed Waste
- RCRA: Resource Conservation and Recovery Act
- TA: Technical Area
- MDA: Material Disposal Area

# Program History

2124 Potential release sites identified at the Laboratory

- **Type of Sites:** landfills, surface impoundments, septic tanks, drainlines, outfalls, firing sites, storage areas, canyons, soil contamination
- **Contaminants:** chemicals, heavy metals, radioactive constituents, and high explosives

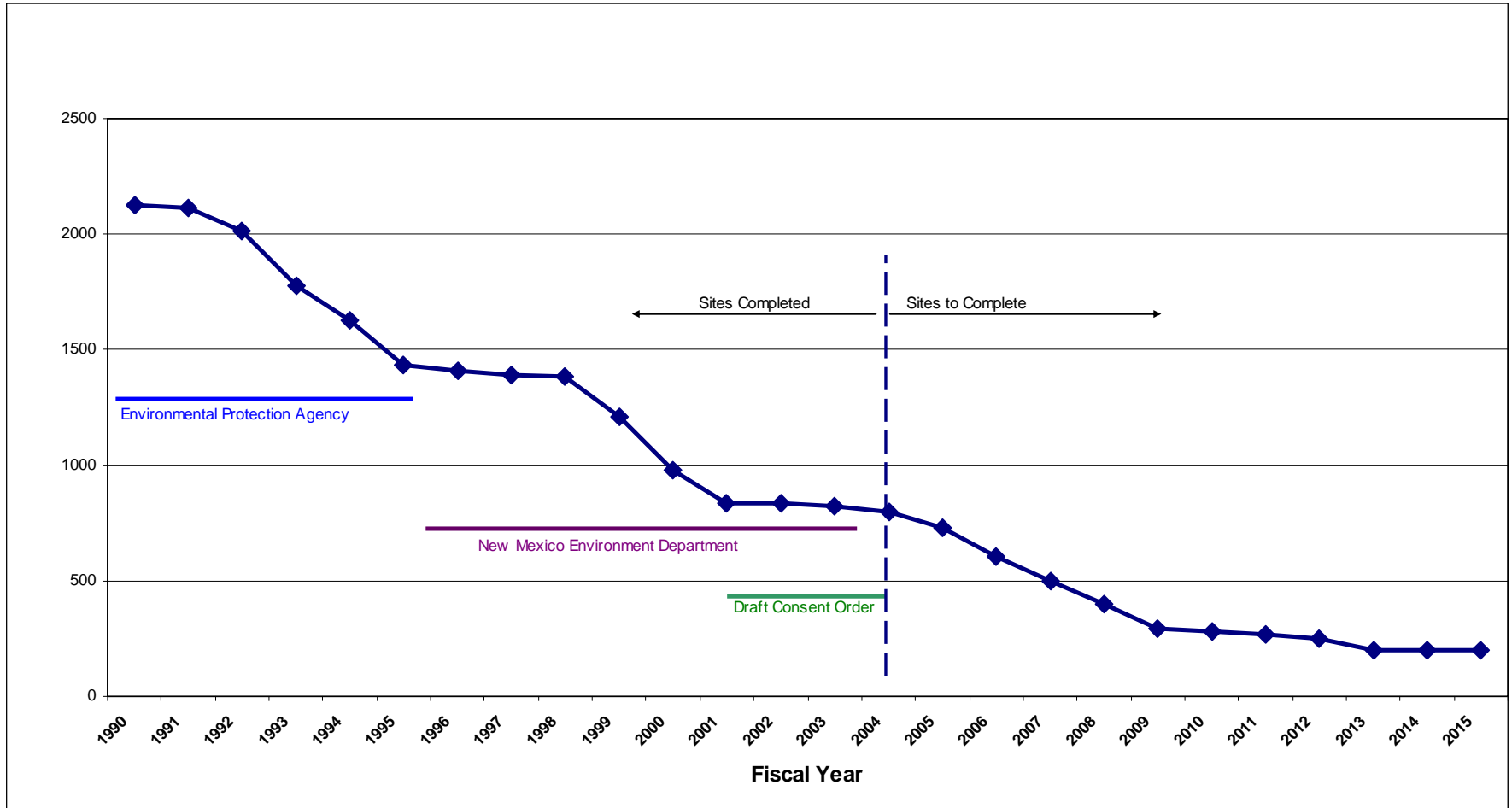
Regulatory primacy transferred from EPA to NMED in 1996

Baseline Validated 2000

Estimated life cycle budget: \$ 1.5 Billion

EM Project Completion 2015

# PRS Completion (1990-2015)



# Purpose and Scope of the Consent Order

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1. Determine the nature and extent of releases of contaminants from LANL into the environment
2. To identify and evaluate alternatives for corrective measures
3. To implement such corrective measures
4. Provide an enforceable schedule
5. Ensure stable funding to implement work
6. Add contaminants to be regulated above and beyond RCRA

# The Consent Order Includes

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- Schedule and Requirements for:
  - Canyon Watershed Investigations
  - Technical Area and MDA Investigations
  - SWMU & AOC Specific Investigations
  
- Correct Action Requirements:
  - Accelerated Clean Ups
  - Corrective Measures Implementation
  - Interim Measures

# The Consent Order Also Includes:

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## General Provisions and Requirements

- Drilling and Sampling Methods
- Chemical Analyses
- Well Construction/Abandonment
- Media Specific Clean Up Levels
- Risk Assessment Methodology
- Monitoring Criteria
- Work Plan and Report Formats
- Newly Identified Sites and Releases
- Dispute Resolution

# What is a Consent Order Deliverable?

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- Requirement of Consent Order
- Schedule for Delivery to NMED Found in Section 12
- Document
  - Plan or Report
  - Summarizes a Work Activity
  - Part of Administrative Record Supporting Decisions



# Deliverable Score Card 2005

DELIVERABLE DOCUMENT	DEADLINE	DELIVERED	COMMENTS
SWMUs MDA U Investigation Work Plan (IMP)	11/30/2004	on time	
MDA A Investigation Work Plan	1/31/2005	on time	
SWMU 16-008(a) Investigation Work Plan	3/31/2005	early	
General Facility Information	3/31/2005	on time	30 days after Order was signed
Interim Facility-wide Groundwater Monitoring Plan	5/30/2005	early	90 days after Order was signed
Plan to demonstrate validity of R-25 data	5/30/2005	early	90 days after Order was signed
LANL ER Public Involvement Plan FY05	5/30/2005	early	
Pueblo Canyon Aggregate Area Investigation Work Plan	5/31/2005	early	
Historical Information Report (Bayo Canyon)	7/30/2005	on time	Extension granted from 6/30 to 7/30
Bayo Canyon Aggregate Area Investigation Work Plan	7/30/2005	on time	
Guaje/Barrancas/ Rendija Canyons Aggregate Area Investigation Work Plan	7/31/2005	on time	
SWMU 3-010(a) Investigation Report	8/15/2005		
Aggregate Areas list: Maps of TA's SWMUs, and AOCs	8/26/2005		due 180 days after Order signed
Groundwater Background Investigation Report	8/29/2005	early	delivered 6-30-05
MDA G Investigation Report	9/8/2005		Originally due 5/1/05
MDA L Investigation Report	9/13/2005		Originally due 2/28/05
Middle Mortandad/Ten Site Canyon Aggregate Area Investigation Report	9/30/2005		
SWMUs 16-021(c), 16-003(k) CMI Plan for Surface/Alluvial Groundwater	9/30/2005		
260 Outfall Montly CMS Reports	Monthly	on time	
Monthly WSAL Exceedance Reports	Monthly	on time	
Quarterly FFCA Status Repoert	Quarterly	on time	
Well Completion Report (Regional Wells)	TBD	on time	5 wells completed to date
Well Completion Summary Fact Sheet (Regional Wells)	TBD	on time	5 wells completed to date

# Summary

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- LANL is committed to working with NMED and meeting the compliance schedule within the Order
- We will continue to be protective of the environment and accelerate work when possible
- We will continue to share information with stake-holders and seek input

\*\* Further information, comments and questions can be directed to Lorrie Bonds-Lopez at 667-0216 or [lorriel@lanl.gov](mailto:lorriel@lanl.gov) \*\*