U.S. DEPARTMENT OF ENERGY | OFFICE OF ENVIRONMENTAL MANAGEMENT

Environmental Management Cleanup Forum

Fiscal Year 2023: A Year In Review

Presented by
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ENVIRONMENTAL MANAGEMENT
SAFETY ❖ PERFORMANCE ❖ CLEANUP ❖ CLOSURE

November 1, 2023

N3B Los Alamos

Operational Excellence: Fiscal Year (FY) 2023 Initiative

Safety is Job #1

Operational Excellence Initiative

- ✓ Strengthening the N3B culture, focusing on an effective safety conscious work environment
- ✓ Ensuring disciplined operations through clear and effective processes
- ✓ Being a continuously improving organization
- ✓ Addressing issues and challenges

FY23 Consent Order Milestones

FY23: 14 Consent Order Milestones

- Met all 14 Appendix B milestones as agreed to between EM-LA and the New Mexico Environment Department (NMED)
- Activities included in part
  - Monitoring surface and groundwater
  - Initiating drilling of hexavalent chromium well R-76, plus planning for two others
  - Completing work at two aggregate areas
  - Continuing work in three other aggregate areas
  - Submitting preferred alternative for remediation for Material Disposal Area (MDA) H to NMED

TRU waste program is not regulated by the Consent Order

FY23 Other Highlights

FY23: Other Highlights

- ✓ Completed field work at Middle DP Road Site, a project critical to Los Alamos County meeting its economic development needs
- ✓ Completed 59 shipments to Waste Isolation Pilot Plant (WIPP), exceeding EM goal of 40 shipments
- ✓ Shipped more than 4,370 cubic meters of waste off-site (all waste streams), enough waste to fill 21,000 55-gallon drums
- ✓ Awarded $236 million in contracts to small business, roughly 79% of N3B's total business receipts for FY23

Legacy Cleanup: Work Scope Overview

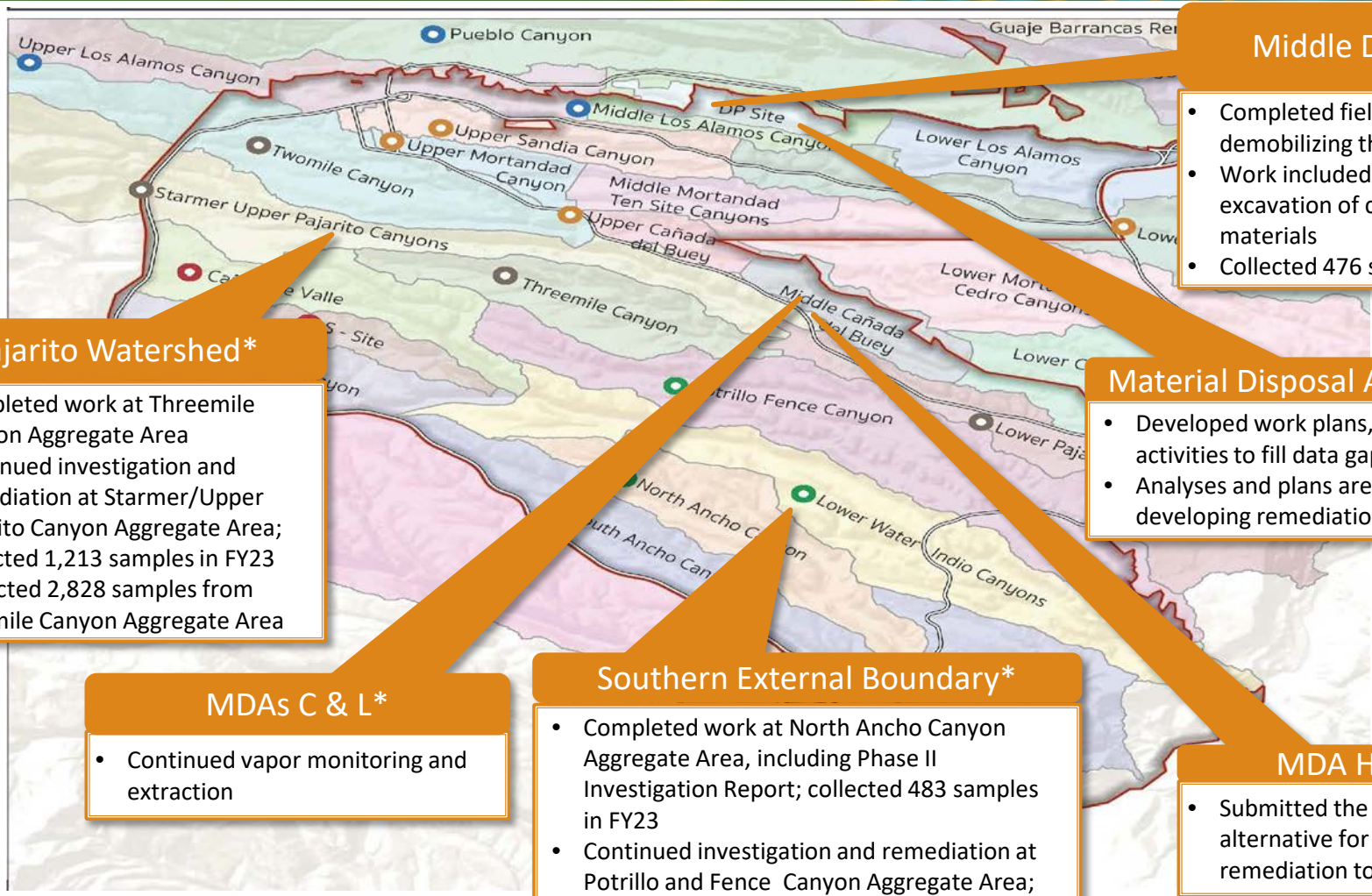
Chaquehui Canyon
Aggregate Area

Protect Water Quality: FY23 Snapshot

- Ceased injection of clean water and turned off the entire hexavalent chromium treatment system at end of March 2023 to comply with NMED directive, reducing FY23 treatment by 59%
  - Treated 41.98 million gallons of contaminated water in FY23 versus 103.3 million gallons in FY22
- Secured approval from U.S. Environmental Protection Agency (EPA) for storm water individual permit implementation plan
- Continued to manage extensive network of storm water control systems
- Continued operating extensive surface water and groundwater monitoring program, collecting 3,878 samples

Monitoring along White Rock Canyon

Clean Up the Land: FY23 Snapshot



Middle DP Road

- Completed fieldwork and demobilizing the site
- Work included sampling and excavation of contaminated materials
- Collected 476 samples in FY23

Pajarito Watershed*

- Completed work at Threemile Canyon Aggregate Area
- Continued investigation and remediation at Starmer/Upper Pajarito Canyon Aggregate Area; collected 1,213 samples in FY23
- Collected 2,828 samples from Twomile Canyon Aggregate Area

Material Disposal Areas A&T*

- Developed work plans, including activities to fill data gaps
- Analyses and plans are critical step in developing remediation strategy

MDAs C & L*

- Continued vapor monitoring and extraction

Southern External Boundary*

- Completed work at North Ancho Canyon Aggregate Area, including Phase II Investigation Report; collected 483 samples in FY23
- Continued investigation and remediation at Potrillo and Fence Canyon Aggregate Area; collected 71 samples in FY23

MDA H*

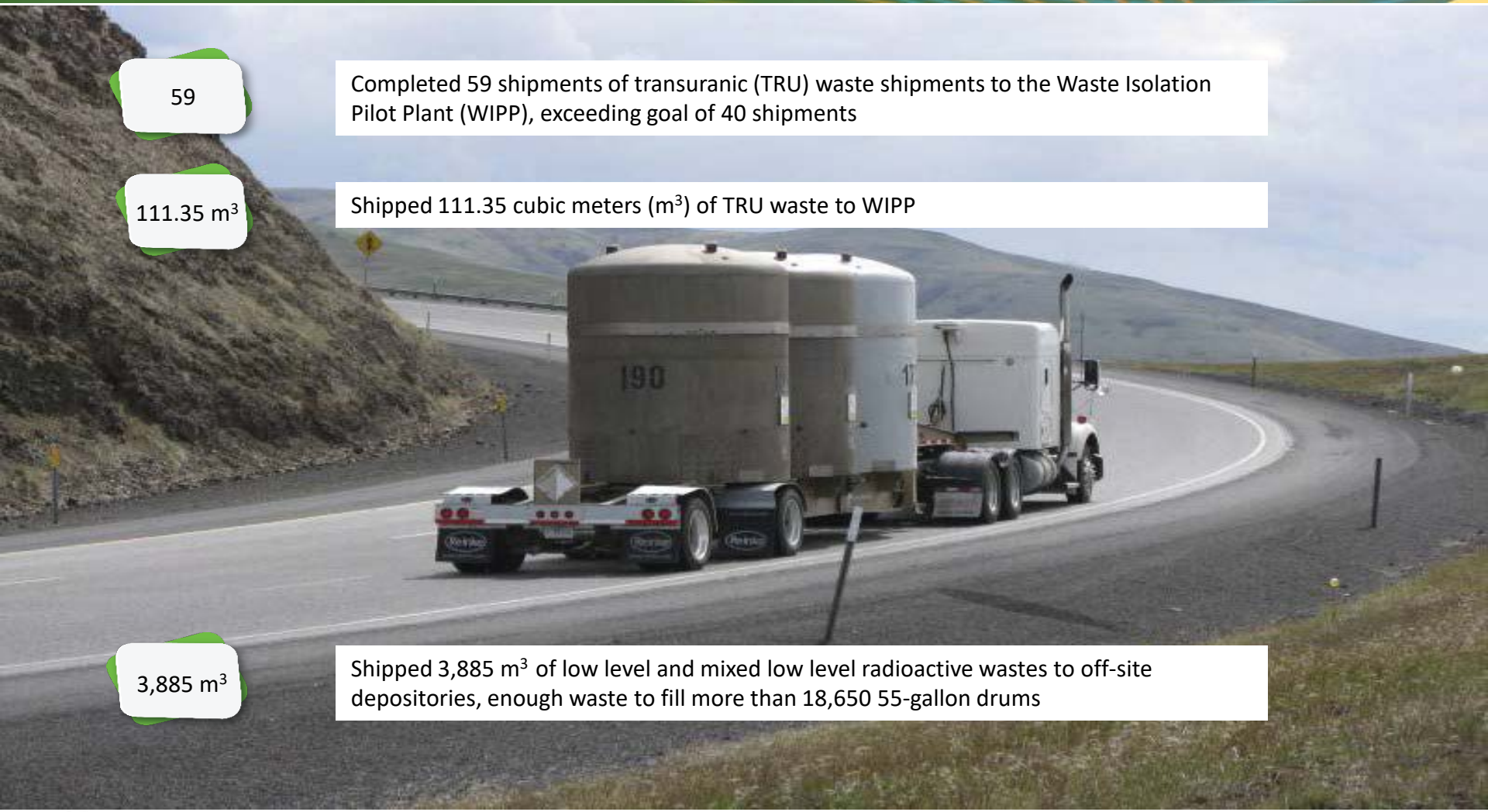
- Submitted the preferred alternative for remediation to NMED

*Consent Order Campaigns

Middle DP Road Site

January 2023
Nearing project completion

Ship Waste Off-Site: FY23 Snapshot



59

Completed 59 shipments of transuranic (TRU) waste shipments to the Waste Isolation Pilot Plant (WIPP), exceeding goal of 40 shipments

111.35 m^3

Shipped 111.35 cubic meters (m^3) of TRU waste to WIPP

3,885 m^3

Shipped 3,885 m^3 of low level and mixed low level radioactive wastes to off-site depositories, enough waste to fill more than 18,650 55-gallon drums

Corrugated Metal Pipes (CMPs) Retrieval & Size Reduction

June 2023

Workforce Development

2023 Nuclear Waste Operator Boot Camp Graduates

Community Giving

Conjunctos Preschool
Holiday Donations