

LA-UR-04-3166



**Los Alamos County  
Sanitary Landfill Site  
Evaluation**

**Steven Booth**

**May 5, 2004**

# Planned Operation of a New Landfill

- Landfill will be modern facility: lined, monitored, and permitted.
- Waste will be compacted and baled to reduce volume and litter.
- Number of truck shipments will be minimized. Landfill does not need to be operational 7 days/wk; could be closed during special LANL operations.
- Existing landfill will serve as recycling, baling station. **GENERAL PUBLIC WILL NOT BE PERMITTED IN NEW LANDFILL SITE.**
- 50 acre landfill sized for ~50-year life, permitted in 20-year increments, and developed in three-year cells.



***LANL baling machine creates wired, 1600 lb. bales using 2800 psi of pressure.***

**New landfill will operate much differently than current landfill.**

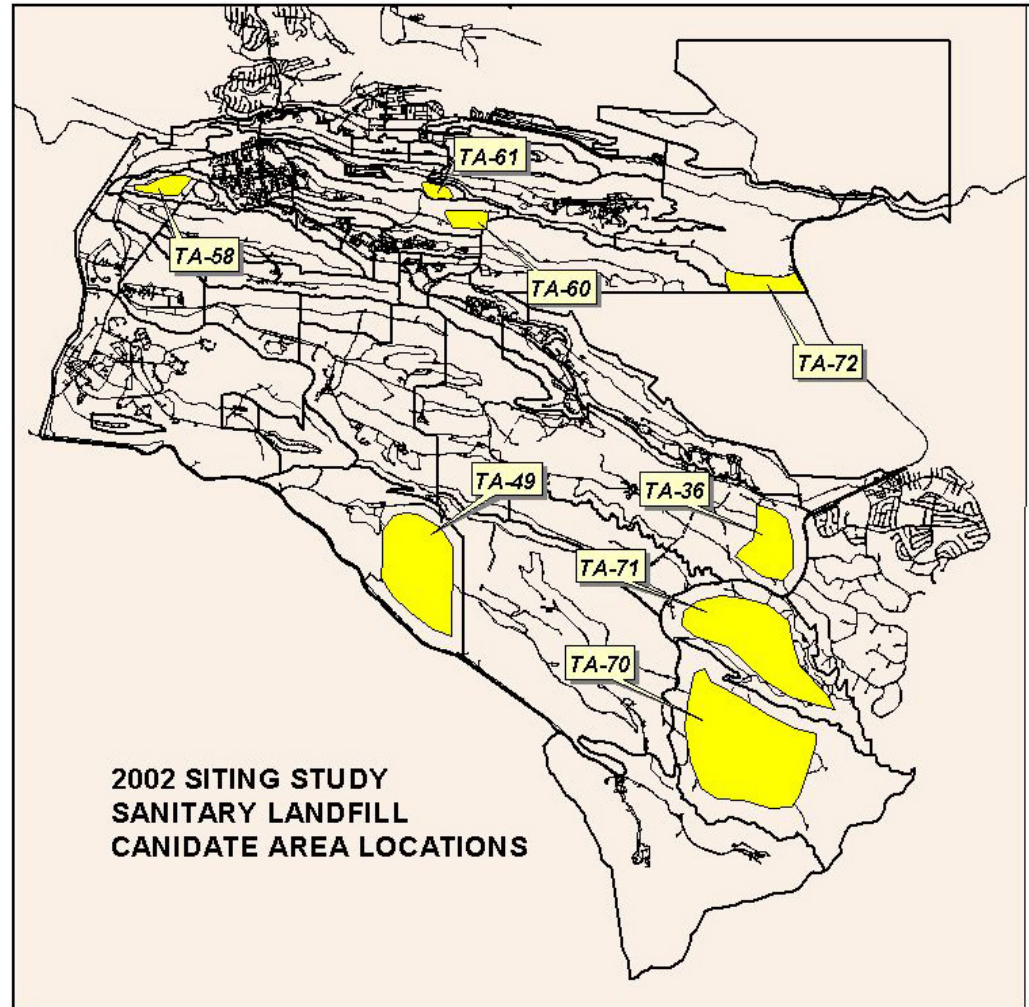
# Site Evaluation Team

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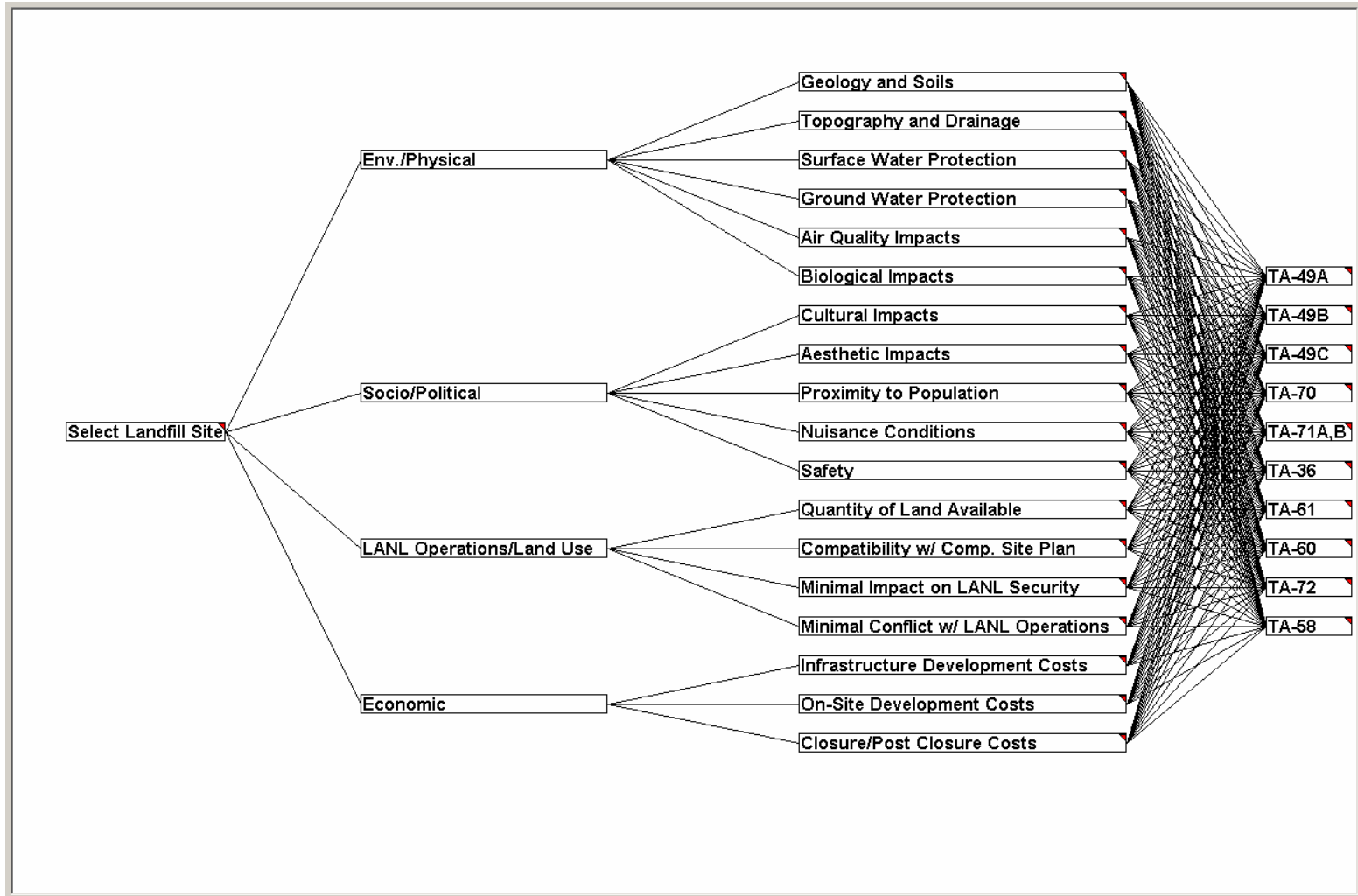
<b>Name</b>	<b>Affiliation</b>
Steven Booth (lead)	LANL
Richard Filemyr	Solid Waste Mngt Board (SWMB)
John Tauxe	SWMB
Kurt Beckman	SWMB
John Fellers	FWO-CFS
Ray Romero	DOE/OLASO
John Stetson	DOE/OLASO/PWT
Pradip Badheka	DOE/OLASO
Ray Sisneros	LA County
Wayne Kohlrust	LA County
Kirt Anderson	LANL/PM-1
Dan Pava	LANL/RRES-Ecol
Jim Mork	LANL/PM-1
Melony Shurter	LANL/RRES-Ecol
Wally McCorkle	LANL/FWO

# Ten Possible Sites Evaluated

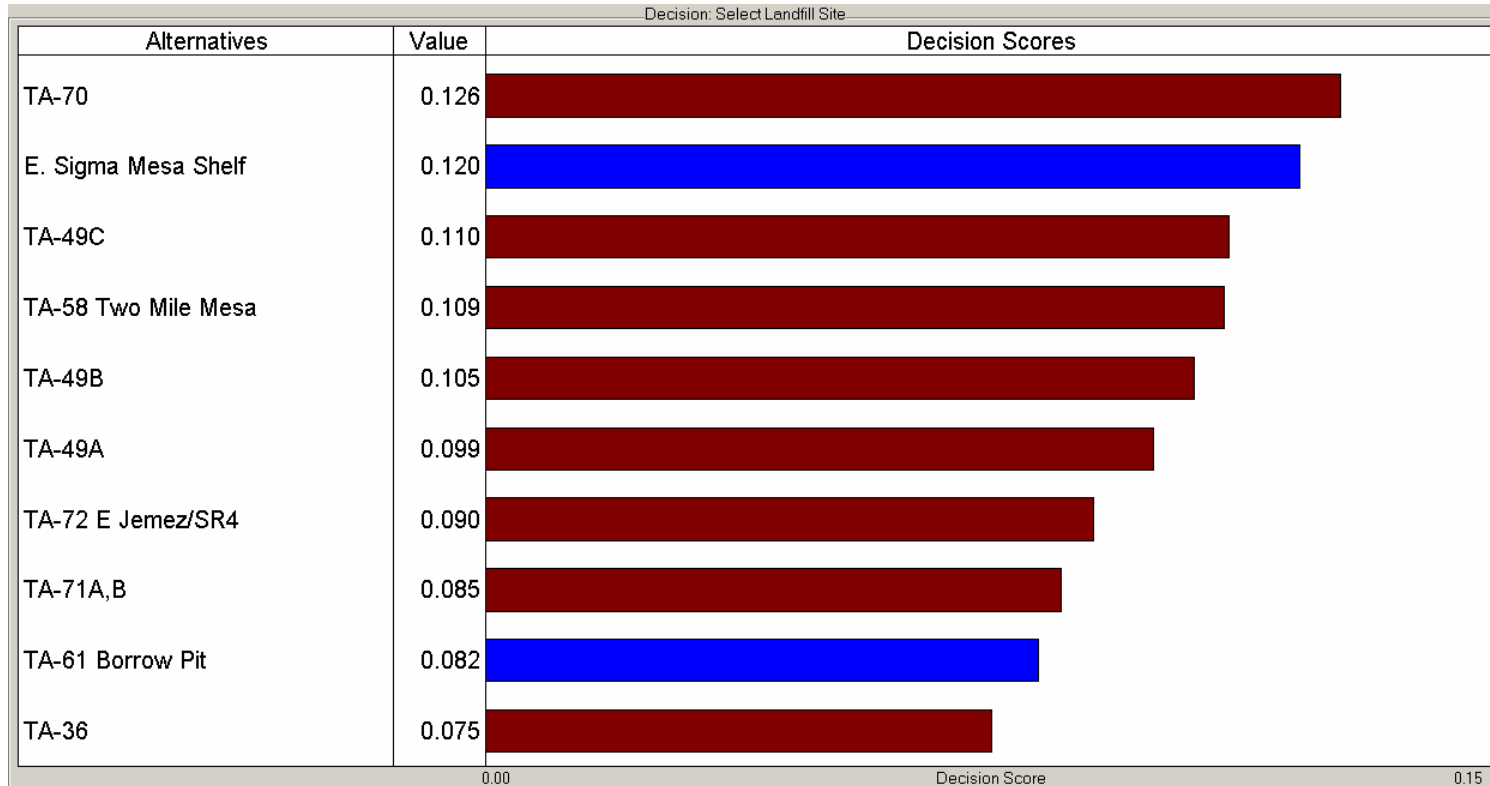
- Six large sites of ~100 acres.
- Four small sites of ~50 acres:
  - TA-60
  - TA-61
  - TA-58
  - TA-72



# Evaluation Model's Hierarchy



# Two Possible Sites Were Identified: E. Sigma Mesa and TA-61 Pit



All other sites have potential “show-stopper” cultural, Lab operational, or environmental issues.

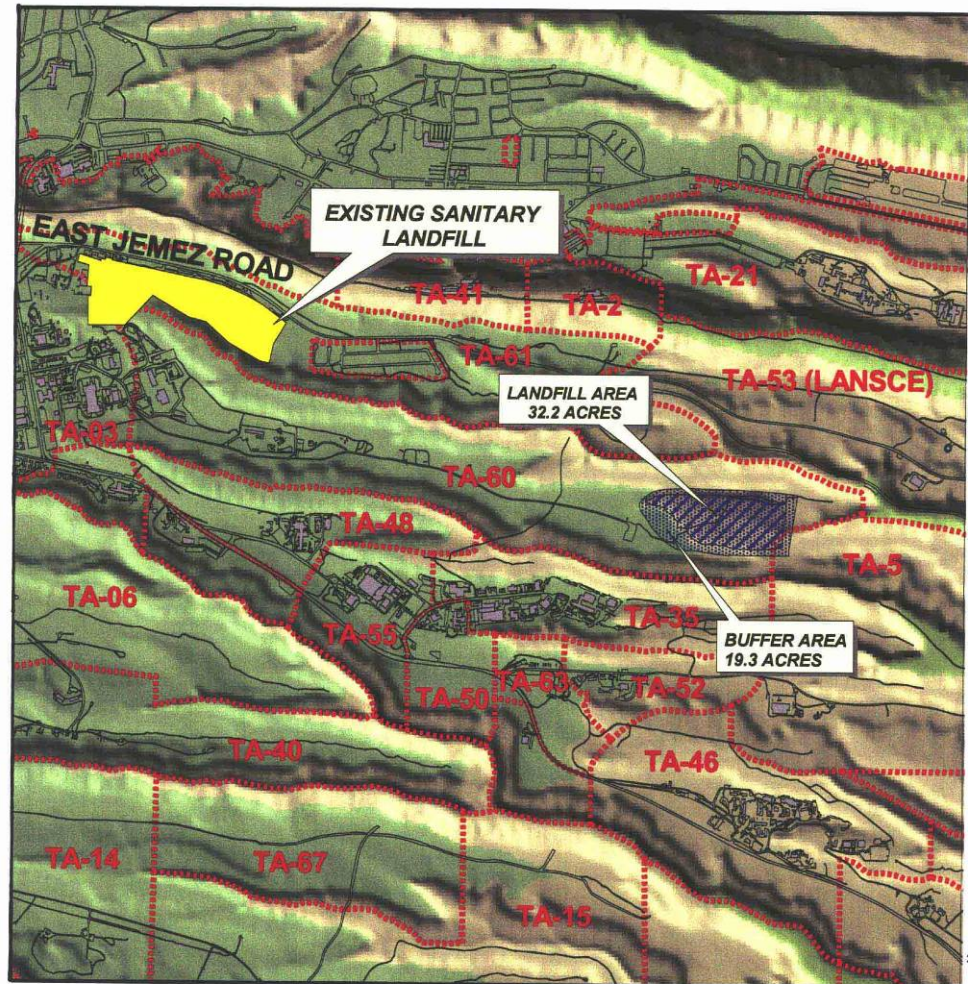
# The Recommended Sites

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# Overview Location of TA-60 Sigma Mesa Shelf Site

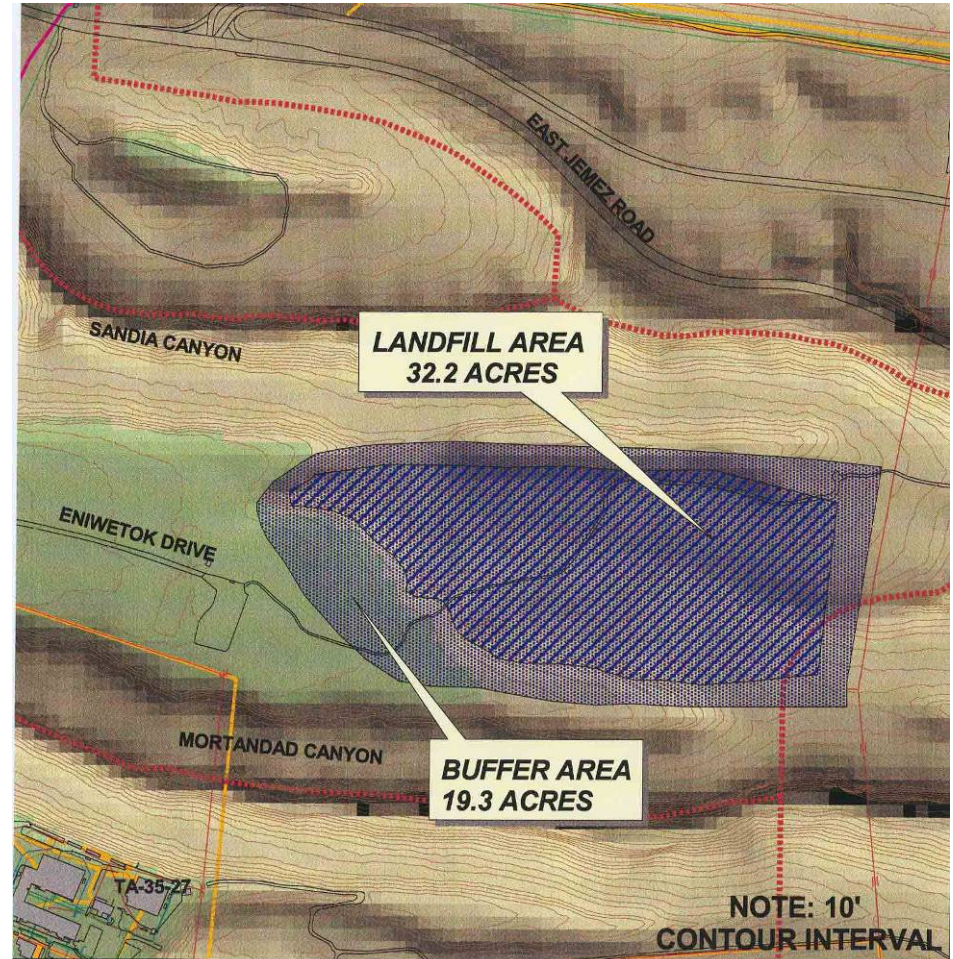
- Existing landfill is about 2 miles from site.
- Sheltered from views and winds by knoll on north and mesa on south and west.





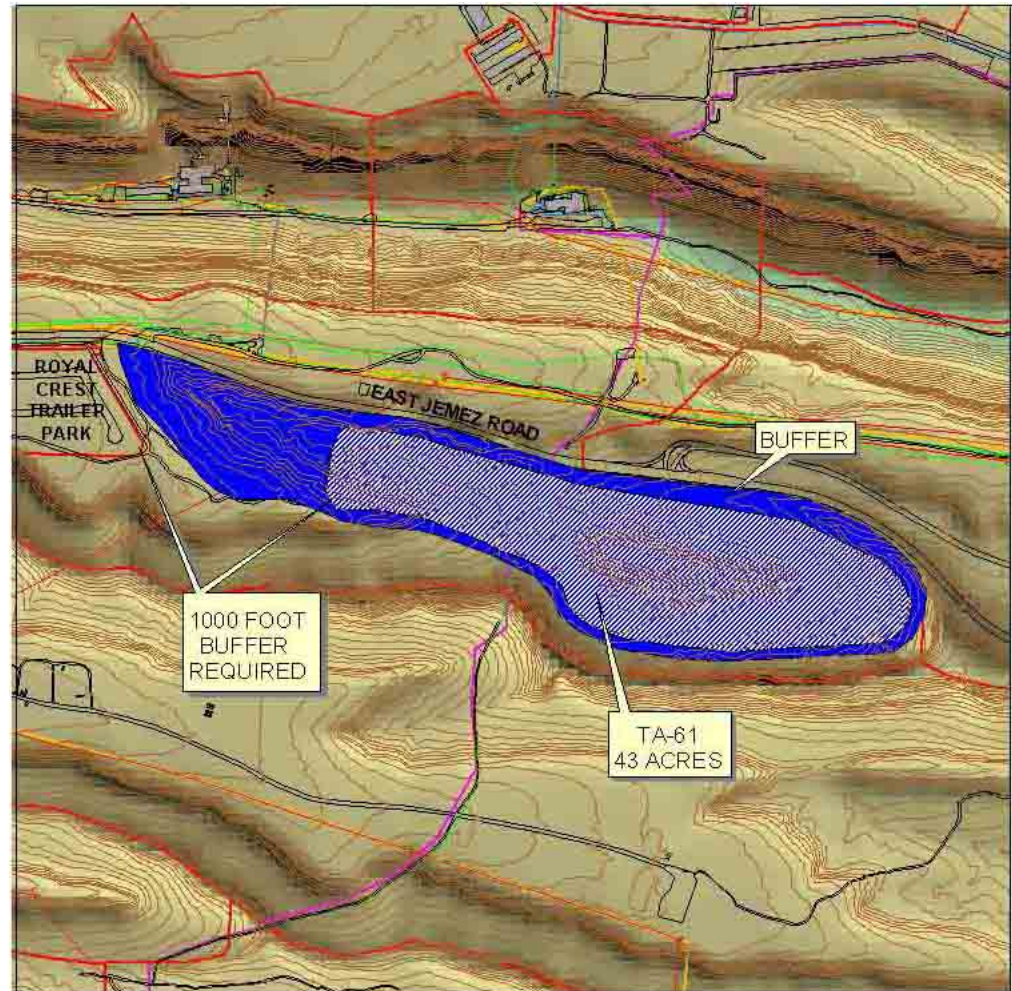
# East Sigma Mesa Shelf Site

- Sigma Mesa Shelf Site lies between Sandia and Mortandad Canyons.
- ~50 acres total size.
- May be possible to build connector road from existing landfill and avoid LANL ops.



# TA-61 Borrow Pit Layout

- Existing knoll between pit and road must be removed.
- Visible from E. Jemez Rd.
- Just east of Royal Crest.



# Issues for Sigma Mesa Site

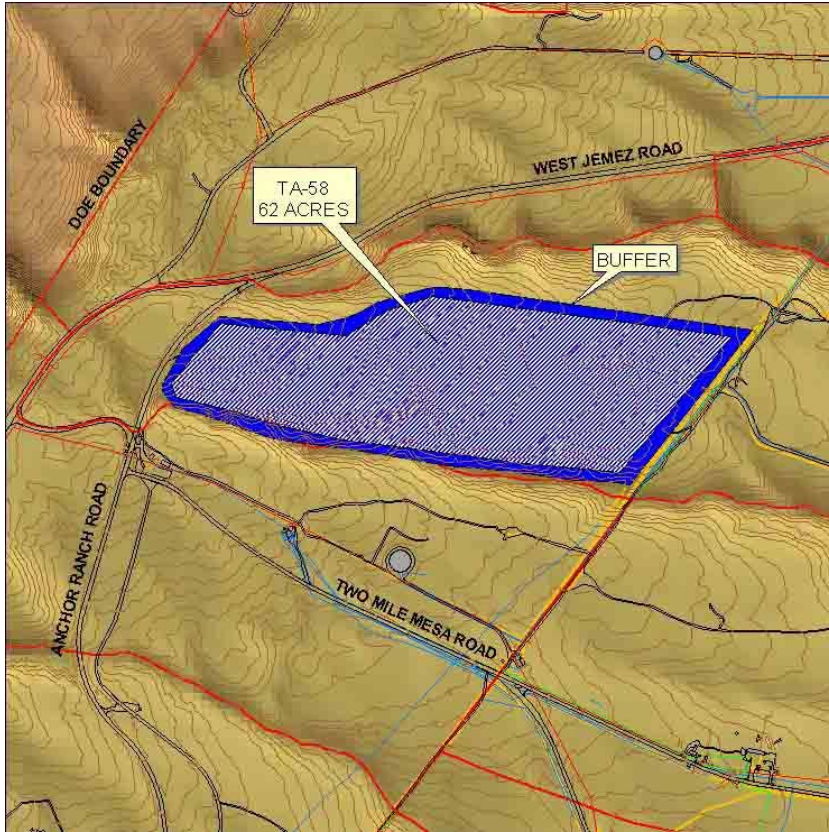
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- Large trucks will not be allowed into TA-3.
- Transportation options to Sigma Mesa:
  - New road on south side of Sandia Canyon connecting existing and new landfills.
  - Bridge Sandia Canyon at TA-61 Borrow Pit.
  - Enter Sandia Canyon from its intersection with E. Jemez Road.
- Habitat problems with road building in canyon.

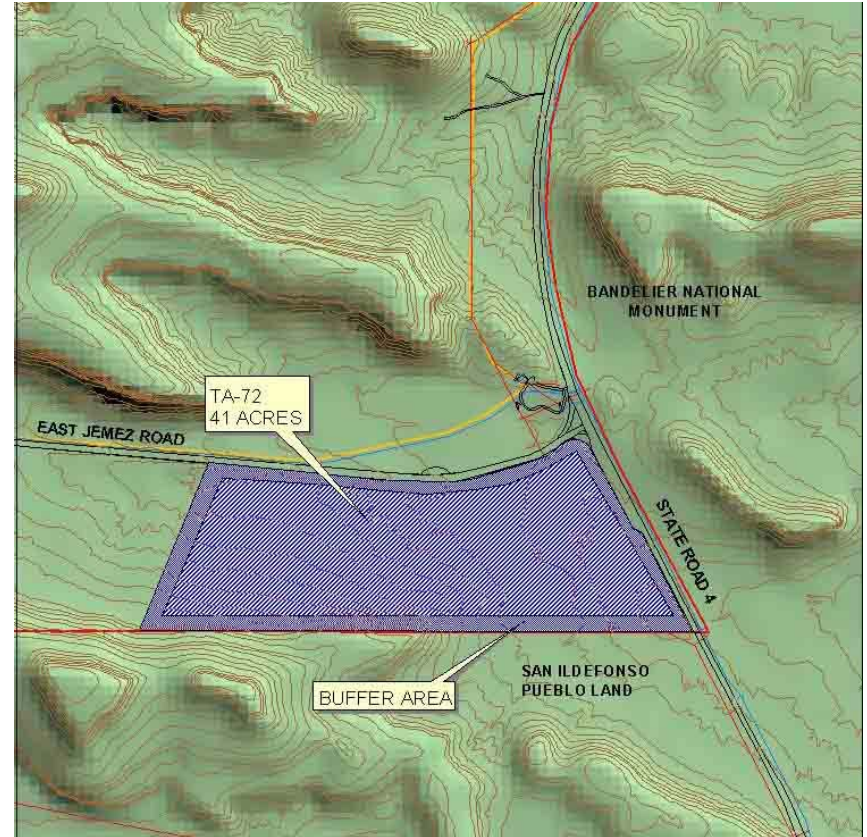
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# Extra Slides

# Two Other Small Sites



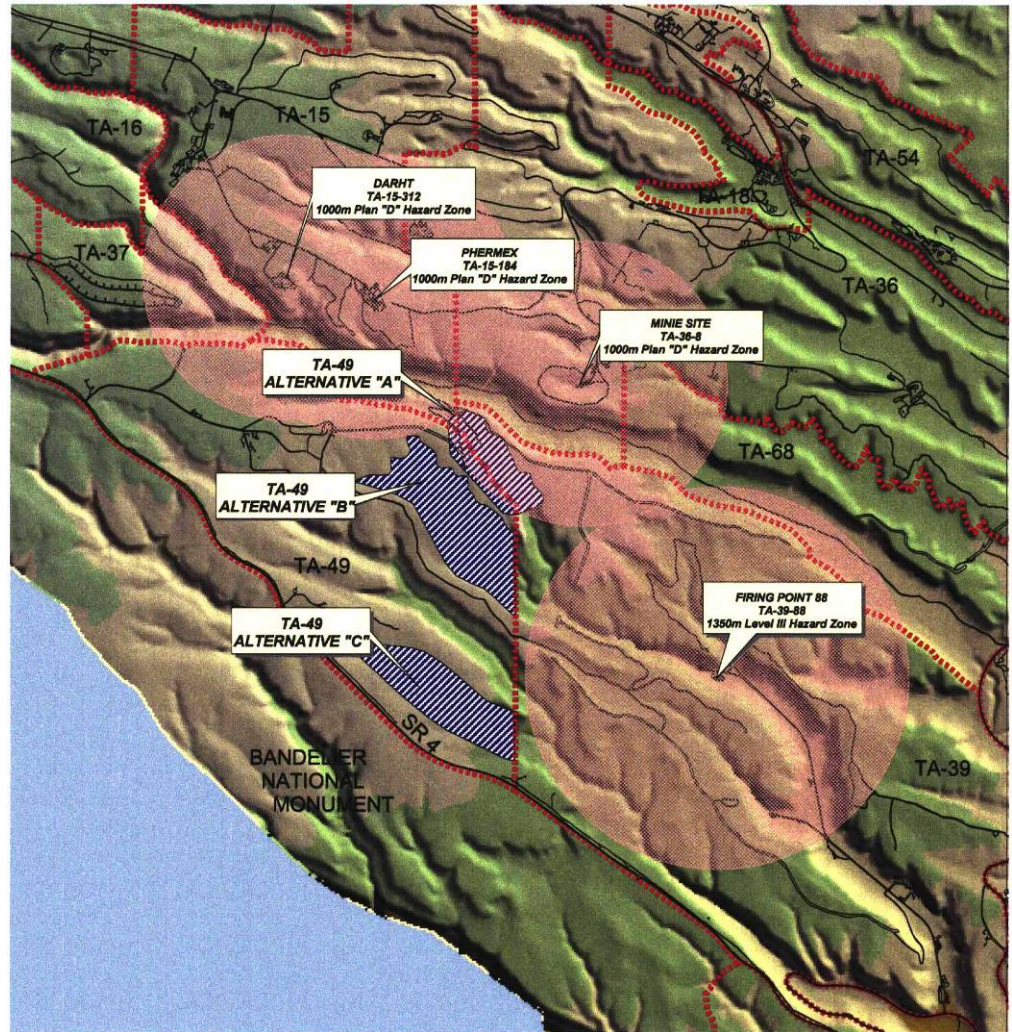
**TA-58 Two Mile Mesa**



**TA-72 SR4 and Jemez Road**

# General Location of TA-49 Sites

- Tract C lies outside of hazard zones for LANL operations.
- Tract B faces environmental problems.



# TA-49 Tract C Layout

