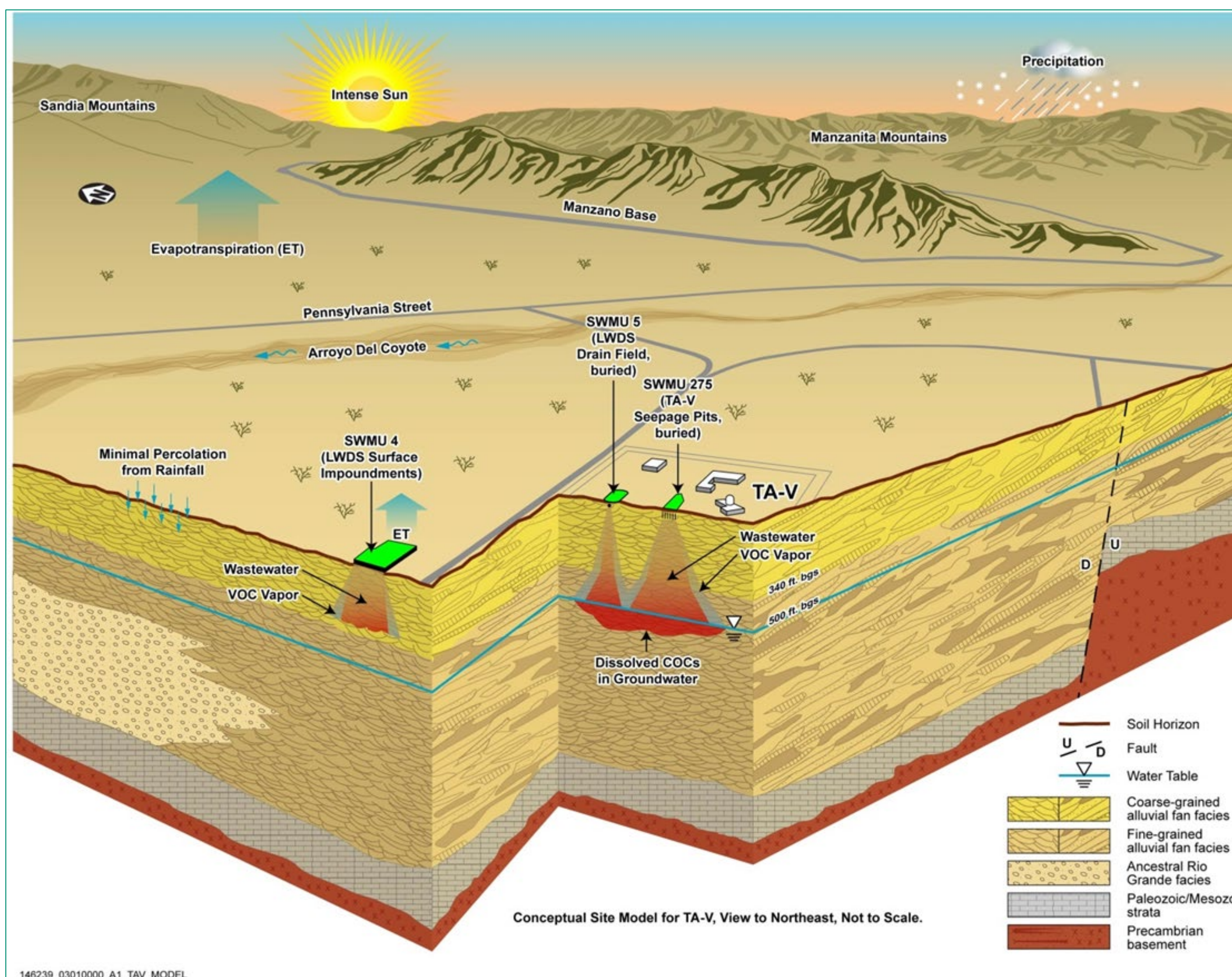
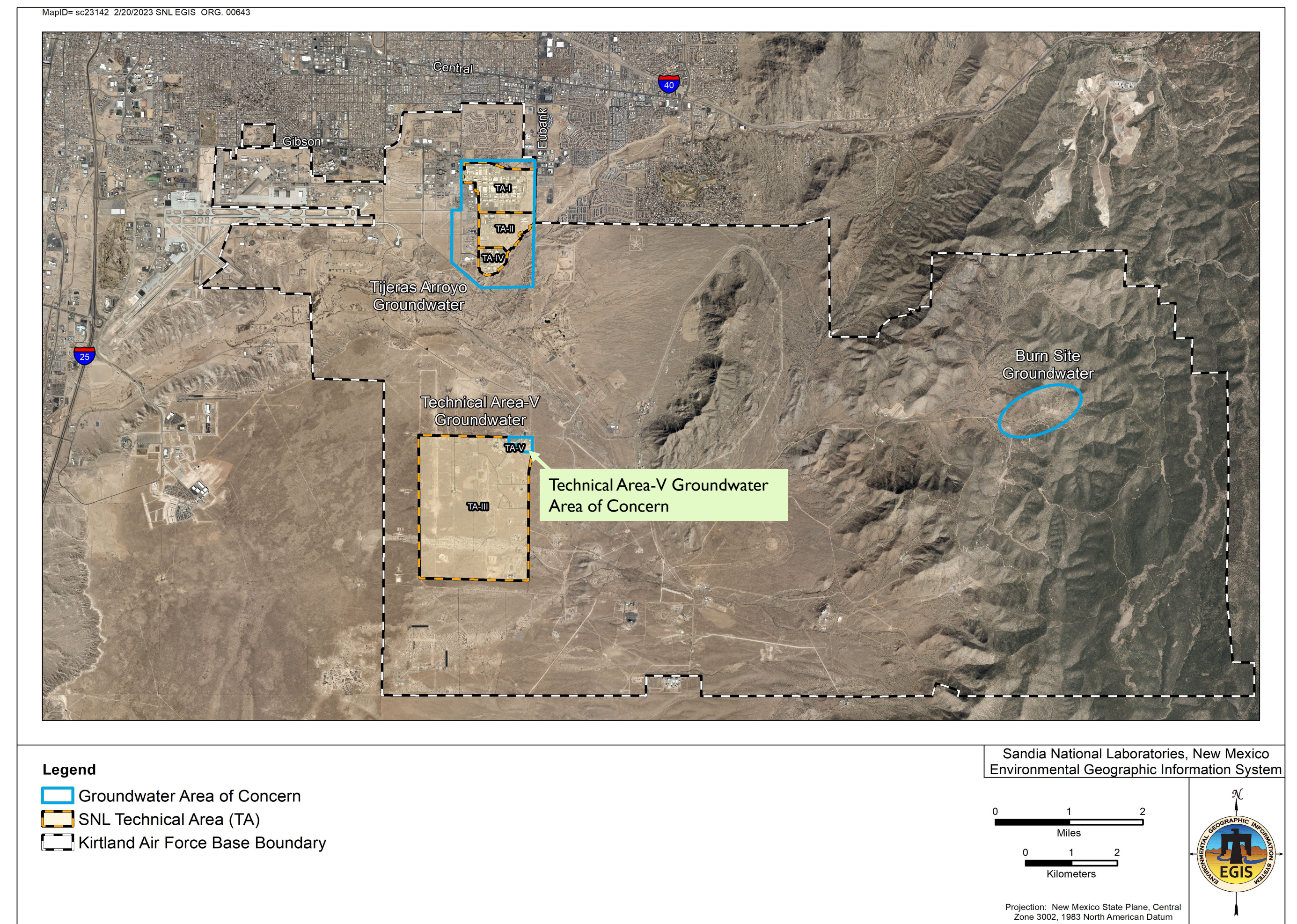


# Technical Area-V Groundwater Investigation

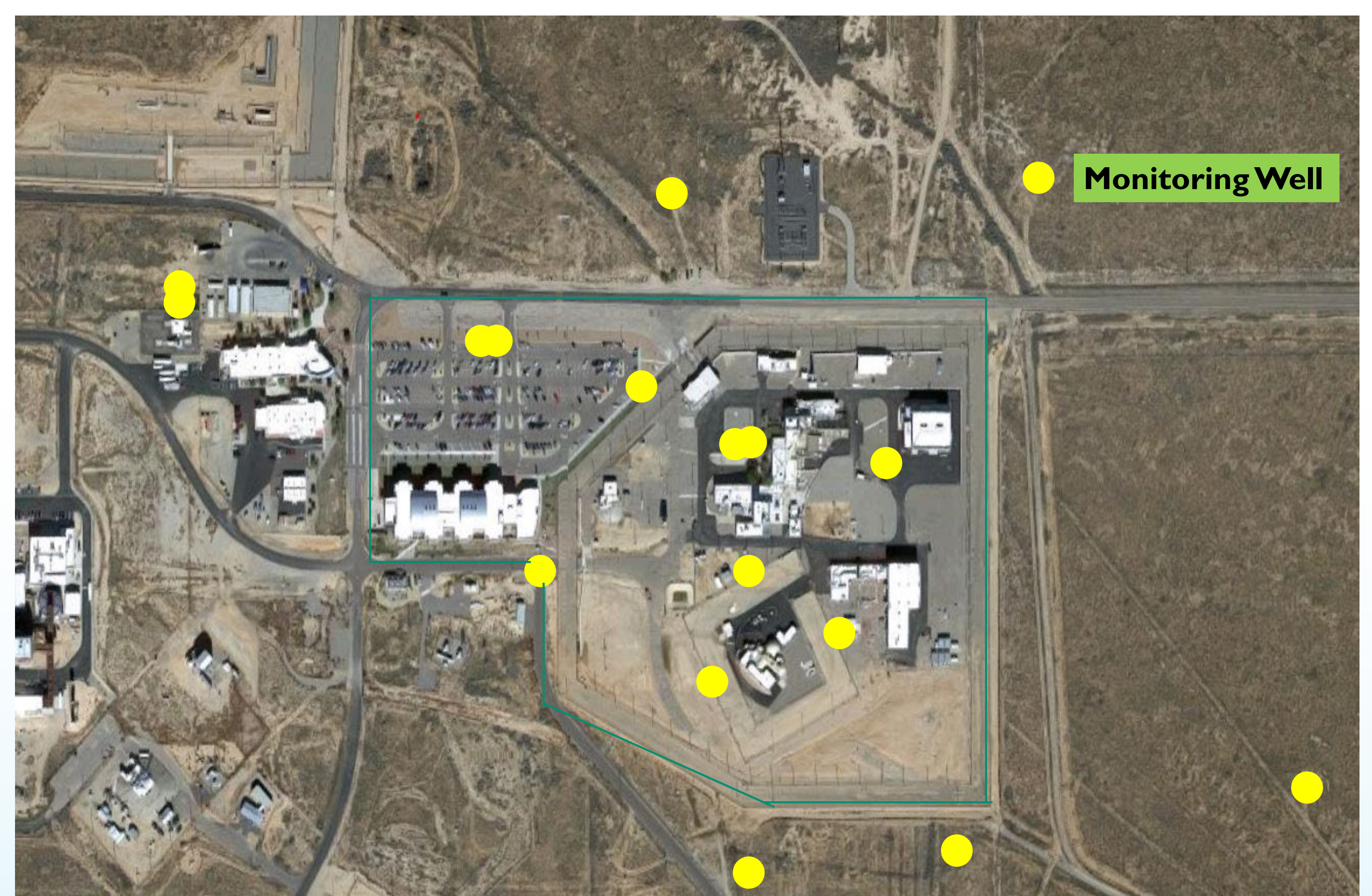
## Site Description

- Technical Area-V (TA-V) covers approximately 35 acres in the west-central part of Kirtland Air Force Base (KAFB).
- Sandia National Laboratories activities at TA-V began in 1961.
- Corrective action for all the surface and shallow subsurface contamination at TA-V is complete.
- Only the groundwater at TA-V, designated as the TA-V Groundwater (TAVG) Area of Concern (AOC), requires corrective action.



Conceptual Site Model for the TAVG AOC Vicinity

- The groundwater at TA-V occurs in the Regional Aquifer in fine-grained, clay-rich alluvial-fan sediments.
- The water table at TA-V is approximately 500 – 550 feet below ground surface.
- The groundwater in the Regional Aquifer flows to the west, then turns northeast toward the production wells near KAFB's northern boundary.
- The nearest drinking water supply well (KAFB-4) is 2.8 miles northwest of TA-V.



- Groundwater monitoring at TA-V began in 1992, with 21 monitoring wells installed to date.
- The current monitoring well network consists of 17 active wells.
- Groundwater levels are measured quarterly.
- 11 monitoring wells are sampled semiannually and 6 monitoring wells are sampled annually.

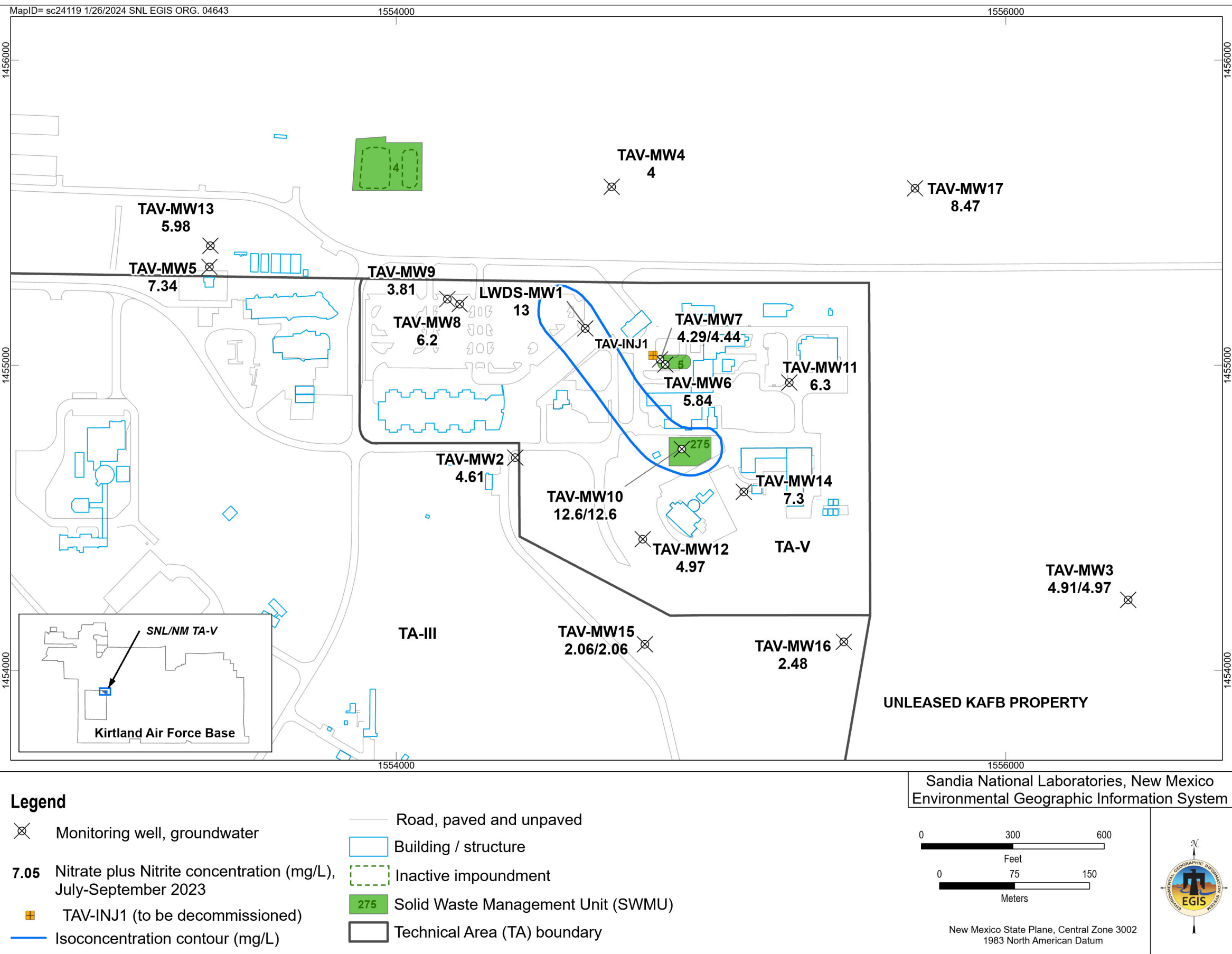


# Technical Area-V Groundwater Investigation

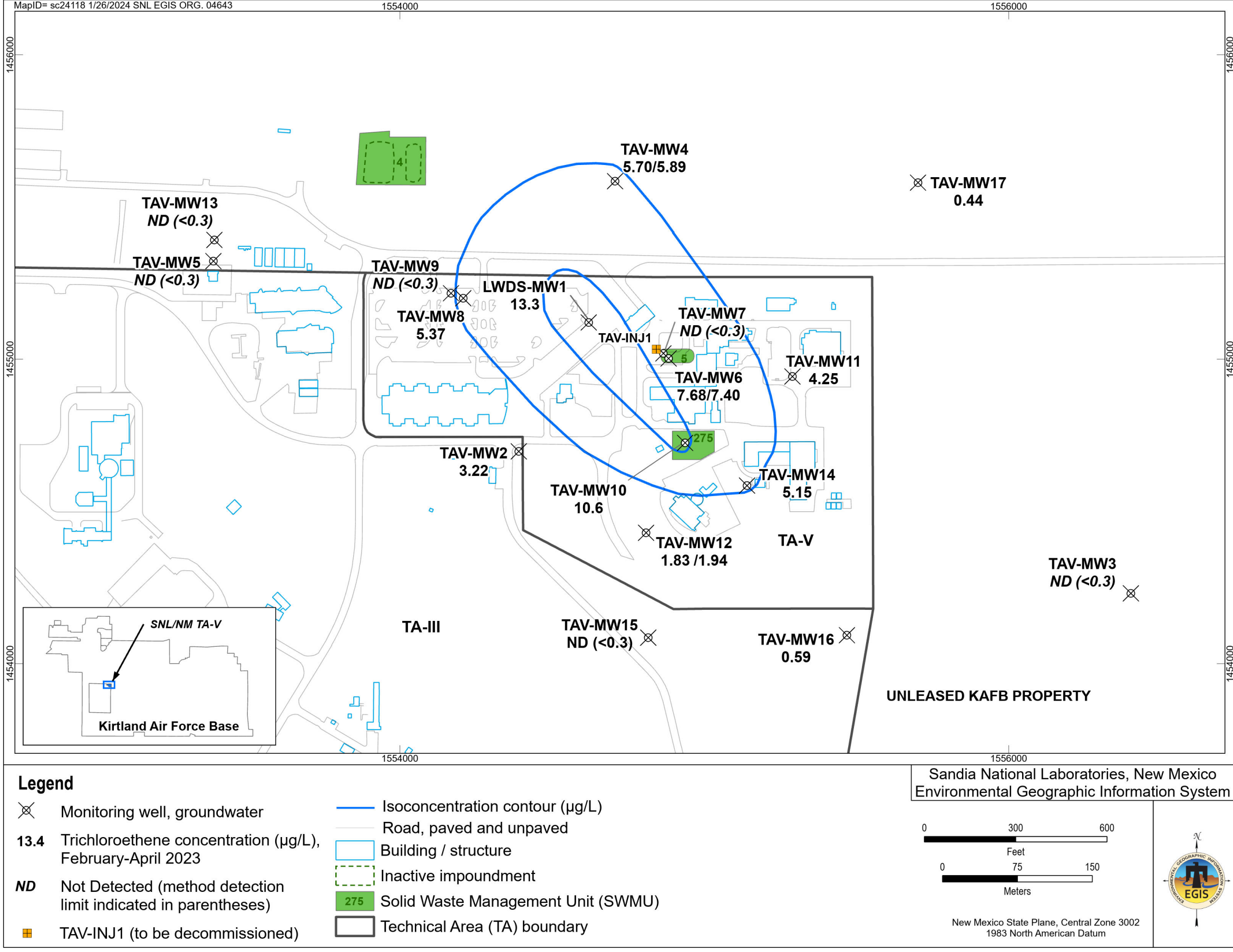
## Site Description (concluded)

- The groundwater at TA-V is contaminated with nitrate and trichloroethene (TCE) (the constituents of concern) at concentrations above the U. S. Environmental Protection Agency maximum contaminant levels (MCLs) for drinking water.
- Nitrate and TCE are derived from industrial and septic wastewater discharged at TA-V from the 1960s through 1992. Nitrate could also be naturally occurring.
- In 2023,
  - Nitrate above the MCL was detected in two monitoring wells;TCE above the MCL was detected in six monitoring wells.
  - The nitrate plume covered approximately 2.7 acres; the TCE plume covered approximately 17 acres.
- Both plumes are stable. They are not adversely impacting human health or the environment.
- The groundwater is not used for any beneficial purpose; no one is drinking contaminated groundwater.

Constituent of Concern	Maximum Concentration in 2023	MCL
Nitrate	13.0 milligrams per liter (well LWDS-MW1)	10 milligrams per liter
TCE	13.3 micrograms per liter (well LWDS-MW1)	5 micrograms per liter



Nitrate Plume



TCE Plume



# Technical Area-V Groundwater Investigation

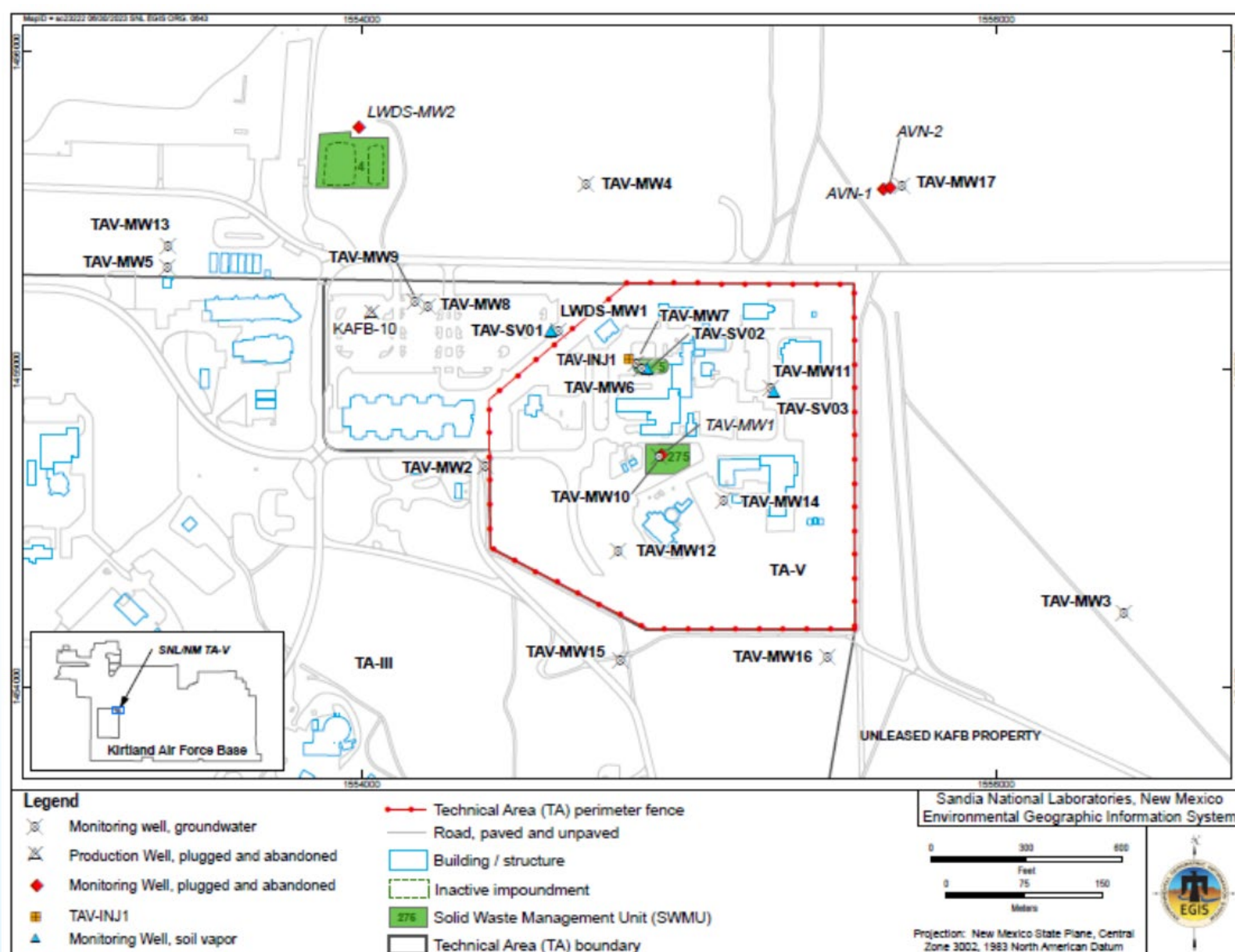
## Current Status and Recent Activities

- The TAVG AOC is in the corrective action process.



- CCM = current conceptual model
- CME = corrective measures evaluation
- ISB = in-situ bioremediation
- Submitted the 2024 CCM/CME Report to the New Mexico Environment Department (NMED) in April 2024. The NMED is reviewing the report and will:
  - Select a final remedy for the TAVG AOC.
  - Issue a Statement of Basis for the selection of the final remedy and accept public comment.

- Measured groundwater levels quarterly.
- Sampled 11 monitoring wells for nitrate and TCE in January and February 2025.
- Received approval from the New Mexico Office of the State Engineer for the Well Plugging Plan of Operations for TAV-INJ1 in November 2024.
- Completed decommissioning TAV-INJ1 in February 2025.
- For more information, please see the *Annual Groundwater Monitoring Report, Calendar Year 2023*, available at [www.sandia.gov](http://www.sandia.gov) | Environmental Responsibility | Environmental Reports |



TAV-INJ1 Decommissioned