



Nevada Site Specific Advisory Board (NSSAB)

**Full Board Meeting – Las Vegas
Wednesday, September 9, 2026**

Handouts...

Page 2 Long-Term Monitoring Fiscal Year (FY) 2026 Wrap Up and Planned Activities Briefing

Page 10 Industrial Sites FY 2026 Wrap Up and Planned Activities Briefing

Page 19 Underground Test Area FY 2026 Wrap Up and Planned Activities Briefing

Page 26 Waste Management FY 2026 Wrap Up and Planned Activities Briefing

Page 38 NSSAB Proposed Work Plan for FY 2027

Dates, times, and topics are tentative and subject to change.

.....
NSSAB minutes, agendas, recommendations, meeting dates and locations, handouts, and member information is available on the NSSAB website at: www.nnss.gov/NSSAB/
NSSAB Phone: 702-523-0894; NSSAB Email: nssab@emcbc.doe.gov
NSSAB Address: 100 N. City Parkway, Suite 1750, Las Vegas, NV 89106
www.facebook.com/NNSANevada

The Nevada National Security Sites (NNSS) Environmental Report is available at
<https://nnss.gov/publication-library/environmental-publications/>

Long-Term Monitoring Fiscal Year (FY) 2026 Wrap Up and Planned Activities

Tiffany Gamero

Long-Term Monitoring Lead

Environmental Management (EM)
Nevada Program



Long-Term Monitoring Background

- Long-Term Monitoring sites include Corrective Action Sites that are now closed under the Federal Facility Agreement and Consent Order (FFACO) and require some form of reporting, maintenance, monitoring, or inspections
 - Closed Soils Sites
 - Closed Industrial Sites
 - Closed Underground Test Area (UGTA) Sites



Sampling activities at Well ER-20-7



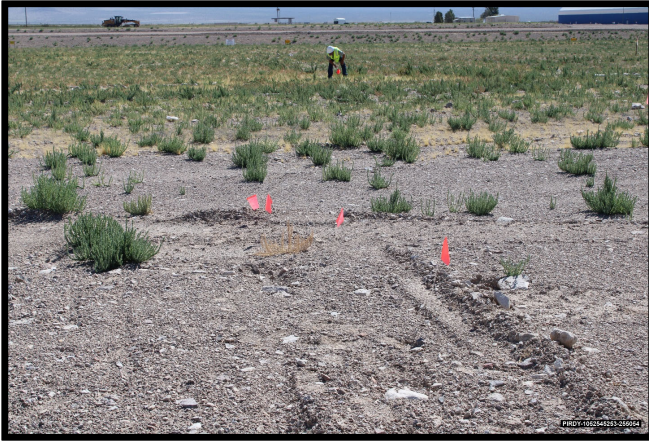
Sampling activities

Long-Term Monitoring FY 2026 Wrap Up

- Planned: Submit Calendar Year (CY) 2025 Post-Closure Inspection Report for closed non-Resource Conservation Recovery Act (RCRA) Corrective Action Units (CAUs) to the State of Nevada Division of Environmental Protection (NDEP)
 - Status: No significant concerns identified during post-closure inspections
 - submitted May 2026
- Planned: Conduct quarterly, biannual, and annual monitoring at closed sites
 - Status: All required monitoring was conducted in FY 2026



Long-Term Monitoring FY 2026 Wrap Up (continued)



Revegetation activities at CAU 111



Drone footage of revegetation progress at CAU 111

- Planned: Continue path forward for CAU 111 revegetation
- Status:
 - West Cover of the 92-Acre Area seeded in February 2026
 - Outplants installed on South-North Cover in March 2026



Long-Term Monitoring FY 2026 Wrap Up (continued)

- Planned: Conduct groundwater sampling for the Frenchman Flat, Yucca Flat/Climax Mine, and Rainier Mesa/Shoshone Mountain CAUs
 - Status: All required sampling was conducted in FY 2026
- Planned: Submit CY 2025 Annual Letter Report for Closed Groundwater CAUs
 - Status: Submitted May 2026 (Final)
- Planned: Submit CY 2026 Frenchman Flat 6-Year Post-Closure Monitoring Report
 - Status: Submitted June 2026



Pump being installed at ER-20-1 – May 2026

Long-Term Monitoring FY 2026 Wrap Up (continued)

- Planned: Submit CY 2026 Yucca Flat/Climax Mine 6-Year Post-Closure Monitoring Report
 - Status: On track for submittal in Sept. 2026
- Planned: Conduct UGTA annual water level monitoring
 - Status: Completed; results consistent with modeling; no concerns identified
- Planned: Conduct post-closure inspections at locations in the monitoring network
 - Status: Completed



NSSAB observed groundwater monitoring at Well WW-C1 – March 2025



NSSAB observed post-closure monitoring at Area 12, E Tunnel – April 2025

Long-Term Monitoring Planned Activities

- Submit Post-Closure Inspection Report for closed non-RCRA CAUs annually
- Conduct post-closure inspections of closed FFACO surface sites as prescribed in the FFACO Nevada National Security Site (NNSS) Use Restriction Management Plan
- Conduct Tribal Revegetation Committee visit at 92-Acre Area in FY 2027



Post-closure inspections conducted at closed FFACO surface sites on the NNSS



Long-Term Monitoring Planned Activities (continued)

- Conduct required groundwater sampling for the Frenchman Flat, Yucca Flat/Climax Mine, and Rainier Mesa/Shoshone Mountain CAUs every 6 years (due in 2032)
- Submit post-closure monitoring reports for each CAU every 6 years after completing sample collection
- Submit Letter Report for Closed Groundwater CAUs annually
- Conduct annual water level monitoring
- Conduct annual inspections at locations in the monitoring network for each UGTA CAU
- Present results of periodic evaluations conducted every 12 years for all closed UGTA CAUs (first evaluation in 2033)



Obtaining water quality sample at Well ER-20-1 – May 2026

Industrial Sites Fiscal Year (FY) 2026 Wrap Up and Planned Activities

Jackie Petrello

Demolition and Disposal Lead

Environmental Management (EM)
Nevada Program

ID 3543– 9/9/2026
Log No: EMRP-2026-037



U.S. DEPARTMENT
of **ENERGY**

Office of Environmental
Management

Industrial Sites Background

- Portions of the facilities and land at the Nevada National Security Site (NNSS) and Nevada Test and Training Range were used in direct support of nuclear testing
 - Facilities included such things as gas stations, motor pools, maintenance shops, and research buildings
- Activities resulted in releases of contaminants into the environment



Hydrojet activities on the lower shells of
Dewars 1 and 2 at Test Cell C

Industrial Sites Background (continued)

- Industrial Sites have included facilities, leach fields, sumps, disposal wells, tanks, contaminated waste piles, ordnance sites, etc.
- Contaminants of concern may include hazardous chemicals, unexploded ordnance, and radionuclides
- Closure completed at 99.8% of Federal Facility Agreement and Consent Order (FFACO) Industrial Sites Corrective Action Sites; 1,972 of 1,975 total Industrial Sites have been completed



Industrial Sites FY 2026 Wrap Up

- Planned: Continue cultural resource activities in conjunction with Nevada State Historic Preservation Office
 - Status: Activities completed in FY 2026



NSSAB Visit to Engine Maintenance, Assembly and Disassembly (EMAD) – April 2026

Industrial Sites FY 2026 Wrap Up (continued)

- Planned: Continue FFACO closure activities at Engine Maintenance, Assembly and Disassembly (EMAD) Facility
 - Galbestos removal, demolition of Ancillary Plant Facility and Areas (APFA) and galleries will begin in January 2026
 - ❑ Status: Planning and mobilization started in January 2026



Galbestos removal at EMAD APFA – March 2026

Industrial Sites FY 2026 Wrap Up (continued)

- Key completion dates:
 - ❑ Removal of first galbestos panel by 3/15/26
 - Status: First panel was removed 2/9/26; last panel removed on 7/15/26 (total of 3,821 galbestos panels removed)
 - ❑ Complete Cold Bay demolition by 7/31/26
 - Status: Completed on 7/16/26
 - ❑ Complete Operating Galleries Demolition by 12/31/26
 - Status: On schedule



Demolition of the APFA continues
at EMAD Facility
May 2026

Industrial Sites FY 2026 Wrap Up (continued)



EMAD demolition progress on EMAD APFA – June 2026



Photo at left and below:
demolition of EMAD Cold Bay –
July 2026



Industrial Sites FY 2026 Wrap Up (continued)

- Planned: Railcar Engine Installation Vehicle used fuel cylinder and remaining hazardous material abatement scheduled for mid-October 2025
 - Status: Completed October 2025
- Planned: Main Plant Processing Area (MPPA) Open Air Demolition Readiness activities are underway and will be complete by November 26, 2025
 - Status: MPPA Open Air Demolition Readiness completed in November 2025; retaining structure for potential reuse; preparing revised Streamlined Approach for Environmental Restoration (SAFER) Plan that reflects the revised end state for EMAD



EMAD:
top photo – January 2024
bottom photo – May 2026

Industrial Sites Planned Activities

- Continue FFACO closure activities at EMAD
 - Demobilization – Spring/Summer 2027
 - Closure Report – Fall 2027



Underground Test Area (UGTA) Fiscal Year (FY) 2026 Wrap Up and Planned Activities

John Myers

UGTA Activity Lead

Environmental Management (EM)

Nevada Program

ID 3544– 9/9/2026
Log No: EMRP-2026-036



U.S. DEPARTMENT
of **ENERGY**

Office of Environmental
Management

UGTA Background

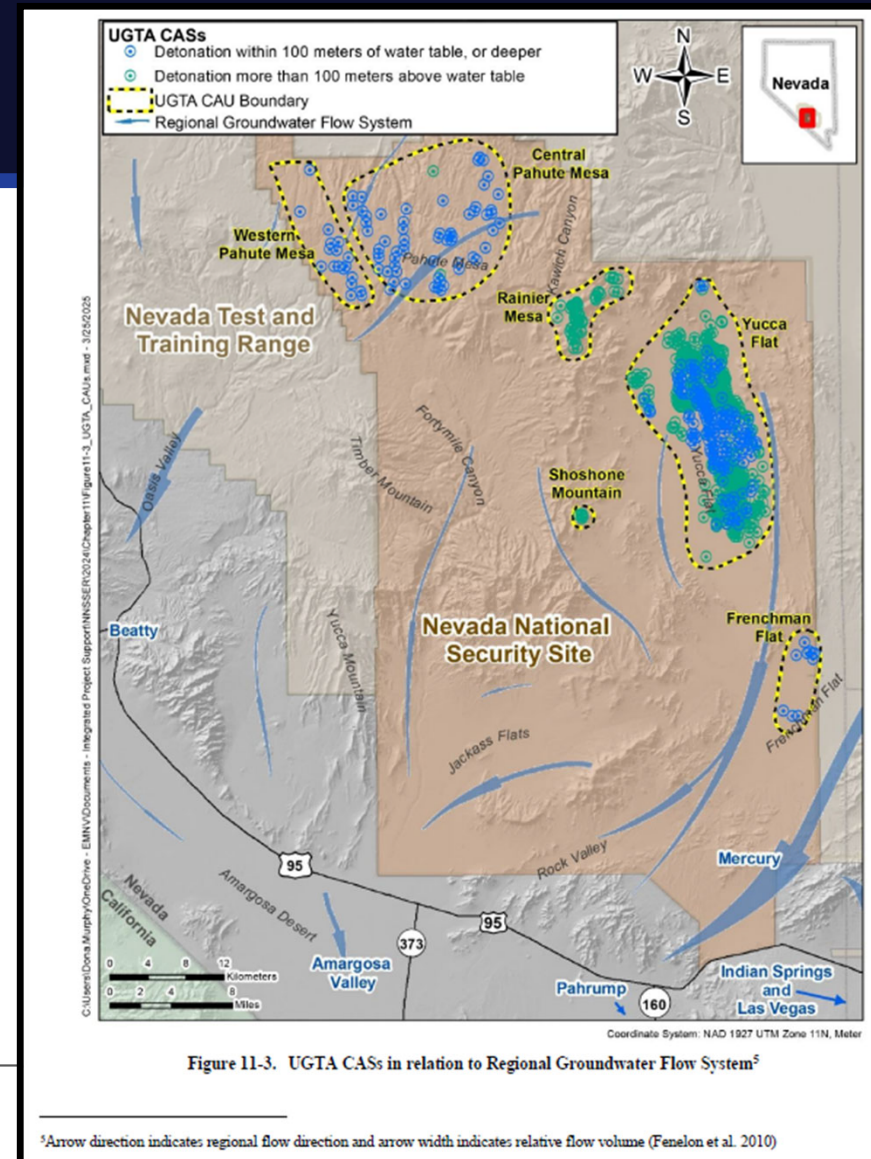
- 828 underground nuclear tests conducted at the Nevada National Security Site (NNSS) from 1951 to 1992
- Underground tests conducted at depths ranging from approximately 90 to 4,800 feet below the ground surface
- One-third of these tests occurred near or below the water table
- Radioactive contamination from testing not detected above the Safe Drinking Water Act maximum contaminant level in groundwater beyond federally controlled land



UGTA Corrective Action Units

- There are five Corrective Action Units (CAUs) determined by location and geologic conditions that make up the UGTA Activity
 - Frenchman Flat – 10 sites (CAU 98) – **COMPLETE** in closure/long-term monitoring
 - Rainier Mesa/Shoshone Mountain – 66 sites (CAU 99) – **COMPLETE** in closure/long-term monitoring
 - Yucca Flat/Climax Mine – 720 sites (CAU 97) – **COMPLETE** in closure/long-term monitoring
 - Central and Western Pahute Mesa* – 82 sites (CAUs 101/102) in Corrective Action Decision Document/Corrective Action Plan (CADD/CAP) stage

**Central and Western Pahute Mesa are managed as one entity*



UGTA FY 2026 Wrap Up

- Pahute Mesa
 - Planned: Complete well completion reports for Wells ER-20-13-1, ER-20-13-2, and ER-20-1 (6/30/2026)
 - ❑ Status: Expect completion in September 2026
 - Planned: Complete development, testing, and sampling of Wells ER-20-13-1, ER-20-13-2, and ER-20-1 (9/30/2026)
 - ❑ Status: Completed 7/27/2026
 - Planned: Continue model evaluation activities (ongoing)
 - ❑ Status: Progress continues



NSSAB receive updates on Pahute Mesa activities
at the Core Library – April 2026

UGTA FY 2026 Wrap Up (continued)

- Planned: Submit calendar year (CY) 2025 Annual Sampling Letter Report to State of Nevada Division of Environmental Protection (NDEP) (8/30/2026)
 - Status: Completed 8/19/2026
- Planned: Model Evaluation Data Presentation #2 (9/29/2026)
 - Status: Completed 8/24/2026
- Planned: Continue funding and support for Nye County Tritium Sampling and Monitoring Program (TSaMP)
 - Status: Extended through August 2027



Sampling activities (well WW-C-1) – March 2026

UGTA Planned Activities

- Pahute Mesa
 - Complete well development and testing completion report (6/30/2027)
 - Submit to NDEP Annual Sampling Letter Reports for CY 2026 and CY 2027 (8/31/2027 and 8/31/2028)
 - Model Evaluation Data Presentation #3 (9/29/2027)



Well development and testing activities at Pahute Mesa – May 2026



UGTA Planned Activities (continued)

- Model Evaluation Report to NDEP (7/31/2028)
- Closure Report to NDEP (5/31/2029)
- Continue funding and support for Nye County TSaMP



Nye County staff conducting TSaMP sampling

Waste Management Fiscal Year (FY) 2026 Wrap Up and Planned Activities

Robert Boehlecke

Program Manager

Environmental Management
(EM) Nevada Program

ID 3545 – 9/9/2026
Log No: EMRP-2026-035



U.S. DEPARTMENT
of **ENERGY**

Office of Environmental
Management

Waste Management Background

- Nevada National Security Site (NNSS) Area 5 Radioactive Waste Management Complex (RWMC) provides critical capacity to accept and dispose classified waste and low-level (LLW) and mixed low-level radioactive waste (MLLW) from approved U.S. Department of Energy (DOE)/National Nuclear Security Administration (NNSA) and Department of Defense generators, including waste that cannot be disposed at the site of generation or at commercial facilities
- NNSS RWMC supports the DOE EM cleanup mission as well as ongoing national security and science missions
- DOE Office of EM Nevada Program oversees acceptance of waste for safe and secure disposal at the NNSS
 - NNSS was chosen due to its isolated location, security, and arid climate
 - Waste disposal ongoing since 1961
 - Independent oversight conducted, by the State of Nevada Division of Environmental Protection (NDEP) in accordance with the Agreement in Principle



Waste Management FY 2026 Wrap Up

- Planned: Safely dispose up to 750,000 cubic feet (ft³) of waste at the NNSS
 - Status: As of August 30, 2026, the NNSS safely disposed 608,653 ft³ of waste
 - Forecast:
 - ❑ Preliminary Waste Forecast for FY 2026 was 695,673 ft³
 - ❑ Mid-year Update Forecast lowered the expected volume to 694,609 ft³ for FY 2026



Waste package being unloaded at the NNSS



Waste Management FY 2026 Wrap Up (continued)

- Planned: Submit Annual Performance Assessment Summary Report to the LLW Federal Review Group
 - Status: Submitted in March 2026; the disposal sites continue to meet Performance Objectives included in DOE Order 435.1 *Radioactive Waste Management*



8-120B Cask holds (8) 55-gallon drums for transport from generator to the NNSS

Waste Management FY 2026 Wrap Up (continued)

- Planned: Radioactive Waste Acceptance Program (RWAP) facility evaluations
 - Status: Conducted 24 facility evaluations (16 surveillances and 8 audits)
 - ❑ NDEP participated in 16 of these facility evaluations
 - Status: Conducted the following verifications:
 - ❑ 8 MLLW evolutions (25 containers)
 - ❑ 11 LLW real-time radiography (RTR) evolutions (46 containers)
 - ❑ 54 waste profiles recommended for approval by the Waste Acceptance Review Panel (as of 8/12/2026)



NSSAB observed visual verification at Test Cell C – August 2024



Waste Management FY 2026 Wrap Up (continued)

- Planned: Continue funding and support for the Emergency Preparedness Working Group (EPWG) grant
 - Status: Since FY 2000, provided more than **\$17 million** in funding through the State of Nevada Division of Emergency Management to Clark, Elko, Esmeralda, Lincoln, Nye, and White Pine counties
 - EM Nevada Program funds the grant based on \$.50 per cubic foot of classified waste, LLW and MLLW disposed at the NNSS
 - Funding provided in accordance with approved grant application and oversight of funding use
 - Priorities for grant funding include consideration for the needs of a county and the resource base available in that county



Nye County Emergency Management F-500 fire suppression trailers. EPWG funded purchase of the F-500 product and four of these travel trailers – 1 stationed in Beatty, 1 in Tonopah, and 2 in Pahrump, NV.

Waste Management FY 2026 Wrap Up (continued)

- Planned: Operationally close and construct disposal cells, as needed
 - Closure Status: None in FY 2026
 - Construction Status: None in FY 2026



LLW cell

Waste Management FY 2026 Wrap Up (continued)

- Planned: Implement the new RTR portal unit
 - Status: Portal system operational in October 2025
 - All staff training relevant to operating the machine has been completed
 - In FY 2026, the RTR portal unit has been used to assess shipping packages including:
 - ❑ Cargo containers/sealands
 - ❑ B-25 boxes
 - ❑ 55-gallon drums
 - ❑ Macro-packs
 - In early FY 2027, construction work will be completed and staff added for Area 5 RWMC operations that will allow for more regular use of the portal system



NSSAB visited RTR portal unit in April 2026

Waste Management FY 2026 Wrap Up (continued)

- Planned: Begin procurement of a Design & Build Subcontract to construct the next MLLW cell (Cell 31) in FY 2029-2030
 - Status: Work continues to develop the request for proposal
- Planned: Operationally support disposal of demolition waste from Engine Maintenance, Assembly and Disassembly (EMAD) Facility at the Area 3 Radioactive Waste Management Site (RWMS) through FY 2027
 - Status: Navarro has completed the required planning to ship LLW from EMAD to Area 3 RWMS/Area 5 RWMC - disposal will be ongoing, as needed, through completion of planned EMAD demolition activities
- Planned: Disposal of repatriated radioisotope thermoelectric generator (RTG) from France scheduled for delivery in December 2025
 - Status: Received and disposed RTG at the Area 5 RWMC in December 2025



Waste Management Planned Activities

- Safely dispose approximately 750,000 ft³ of waste at NNSS radioactive waste disposal facilities
- Submit Annual Performance Assessment Summary Report to the LLW Federal Review Group



Area 5 RWMC activities

Waste Management Planned Activities (continued)



EPWG funding used to purchase Esmeralda County ambulance and fire engine

- Conduct RWAP facility evaluations
- Continue funding and support for EPWG grant



Waste Management Planned Activities (continued)

- Operationally close and construct disposal cells, as needed
- Continue use of RTR units
- Continue procurement of a Design & Build Subcontract to construct the next MLLW cell (Cell 31) in FY 2029-2030
- Dispose of demolition waste from EMAD at the Area 3 RWMS through FY 2027



NSSAB observed RTR portal unit at the Area 5 RWMC in action – April 2026

Nevada Site Specific Advisory Board (NSSAB)
Fiscal Year (FY) 2027 Work Plan

Work Plan Item #1	Work Plan Item/Topic:	Budget Update
	Type:	Informational
	Briefing/Discussion Date:	February 2027
	Recommendation Deadline:	N/A
	Description:	The EM Nevada Program will provide an update on the President's FY 2028 and the FY 2029 baseline.

Work Plan Item #2	Work Plan Item/Topic:	Proposed Monitoring Network for Central and Western Pahute Mesa Groundwater Corrective Action Units (CAUs) 101/102
	Type:	Actionable
	Briefing/Discussion Date:	April 2027
	Recommendation Deadline:	April 2027
	Description:	<u>NSSAB Scope:</u> From a community perspective, the NSSAB will provide recommendations on the proposed monitoring network for Pahute Mesa.

Work Plan Item #3	Work Plan Item/Topic:	Public Involvement Post FFACO Mission Completion
	Type:	Actionable
	Briefing/Discussion Date:	June 2027
	Recommendation Deadline:	June 2027
	Description:	<u>NSSAB Scope:</u> From a community perspective, the NSSAB will provide recommendations on EM Nevada Program public outreach activities in support of continued awareness of the NNSS waste disposal mission. Recommendations should consider previous recommendations and limited federal/contractor resources in alignment with the reduced EM Nevada mission.

Dates, times, and topics are tentative and subject to change.