

**Environmental Management
Monthly Report to the NSSAB
October 2013**

Waste Disposal and Transportation

- As of September 30, 2013, the Nevada National Security Site (NNSS) has disposed 990,476 cubic feet of low-level waste (LLW) and 108,422 cubic feet of mixed LLW (MLLW) during FY 2013. These numbers are preliminary until internal quality checks are completed.
- In August 2013, the Nevada Field Office (NFO), Radioactive Waste Acceptance Program (RWAP) conducted the following Facility Evaluations:
 - Los Alamos National Laboratory (LANL) in Los Alamos, New Mexico: The surveillance resulted in six Observations. LANL has until October 10, 2013, to respond.
 - Babcock & Wilcox Technical Services Y-12 in Oak Ridge, Tennessee: The surveillance resulted in no Findings or Observations.
- In September 2013, RWAP conducted two impromptu surveillances:
 - Sandia National Laboratory in Albuquerque, New Mexico: The surveillance resulted in no Findings or Observations.
 - Wastren Advantage Incorporated in Oak Ridge, Tennessee: The surveillance conducted late in September 2013; so the results will be reported in the November 2013 Monthly Report to the NSSAB.
 - Brookhaven National Laboratory in Upton, New York: The surveillance was rescheduled for October 2013.
- In September 2013, RWAP issued two Corrective Action Requests (CARs):
 - On September 16, 2013, a CAR was issued to LANL for not having shipping papers with a shipment at all times. LANL has until October 18, 2013, to respond.
 - On September 30, 2013, a CAR was issued to Wastren Advantage in Oak Ridge, Tennessee, for contamination on the outside of one package and on the trailer bed in excess of NNSS Waste Acceptance Criteria limits. Wastren Advantage has until November 1, 2013, to respond.
- In October 2013, RWAP plans to conduct two Facility Evaluations and two Mixed Waste Verifications.
- During October 2013, the NNSS is forecasted to dispose approximately 124,558 cubic feet of LLW and MLLW.
- The LLW and MLLW Transportation Routing Quarterly Report for the 3rd Quarter, April – June 2013, is available at: <http://www.nv.energy.gov/emprograms/transportationreports.aspx>

Underground Test Area (UGTA)

Corrective Action Unit (CAU) 97, Yucca Flat/Climax Mine

Revision 1 of the final flow and transport model document was completed and forwarded to the NFO and the State of Nevada Division of Environmental Protection (NDEP) in September 2013. Planning for the Peer Review began in September 2013 and will continue in October 2013.

CAU 98, Frenchman Flat

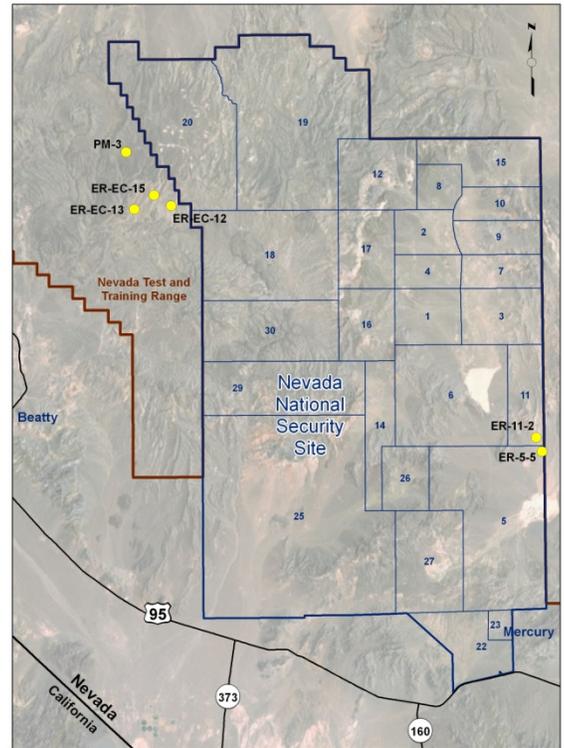
In September 2013, ER-5-5 pumping test data and ER-11-2 sampling data was analyzed and presented to NFO; analysis of other model evaluation data will continue in October 2013. Also in September 2013, resurvey of elevations and coordinates were completed and results published for nine Frenchman Flat wells. The Preemptive Review Committee will evaluate aquifer test and static head data in October 2013.

CAU 99, Rainier Mesa/Shoshone Mountain

Review of the flow and transport model document by the Preemptive Review Committee continued in September 2013. Additional Preemptive Review and Modeling Team meetings are scheduled for October 2013.

CAUs 101/102, Pahute Mesa

Work continues on the Phase II framework and conceptual models. Partial results of groundwater samples collected at the PM-3 well were available in September 2013. Well development and testing (WD&T) at the ER-EC-15 well continued in September 2013. Planned field activities for October 2013 include completion of WD&T, sampling of the upper production zone of the ER-EC-15 well, and the beginning of WD&T of the middle production zone. Review of the hydrology, chemistry and source-term data by the Preemptive Review Committee was accomplished in September 2013. Geology and hydrology analysis and evaluation will continue in October 2013. Analysis of the data for wells ER-EC-12 and ER-EC-13 was completed in September 2013 and reporting is in progress.



Industrial Sites

Non-Resource Conservation and Recovery Act (RCRA) Post-Closure Monitoring Sites

The Non-RCRA Post-Closure Monitoring Sites include 132 Corrective Action Sites (CASs) where post-closure inspections and maintenance are performed in accordance with closure requirements. Documentation to remove or downgrade use restrictions was submitted to NDEP in September 2013; a response is expected in October 2013. Removing the use restrictions would reduce post-closure monitoring costs. A strategy document is also being prepared to evaluate use restricted sites to ensure effectiveness and efficiency through consolidation, modification, and reduction of post-closure requirements. Also in September 2013, quarterly inspections of CAU 547 were performed. It was

determined that there were no actions necessary at closed CAUs 383 and 551 after a site visit was conducted to determine the impact of precipitation.

RCRA Post-Closure Monitoring Sites

The RCRA Post-Closure Monitoring Sites include six CAUs where post-closure inspections, monitoring, and maintenance are performed in accordance with the RCRA Permit and closure requirements. In September 2013, quarterly and semi-annual post-closure inspections were performed. Irrigation piping on the cover of CAU 111 was relocated in preparation for revegetation of the cover.

Soils

CAU 105, Area 2 Yucca Flat Atmospheric Test Sites

CAU 105 comprises five CASs related to historical nuclear testing. Field investigation of these sites consists of radiological surveys, soil sampling, and thermoluminescent dosimeter (TLD) measurements. In September 2013, the Corrective Action Decision Document/Closure Report (CADD/CR) was submitted to NDEP; a response is expected in October 2013. Also in September 2013, utility surveys were performed for use restriction sign installation. In October 2013, the use restriction signs will be installed.

CAU 366, Area 11 Plutonium Valley Dispersion Sites

CAU 366 comprises six CASs related to historical nuclear testing. In September 2013, preparation of the CR began. The CR is due to NDEP in December 2013.

CAUs 411 and 412, Double Tracks Plutonium Dispersion and Clean Slate I Plutonium Dispersion

CAUs 411 and 412 comprise one CAS each on the Nevada Test and Training Range. In September 2013, preparation of the Data Quality Objectives (DQOs) and the Streamlined Approach for Environmental Restoration (SAFER) Plans for CAUs 411 and 412 continued and will continue in October 2013. The DQO process is a seven-step approach to plan investigation activities, ensuring the data collected will provide sufficient information to recommend corrective actions for CAUs 411 and 412. The DQOs will be included in the SAFER Plans for CAUs 411 and 412, which are enforceable milestones under the Federal Facility Agreement and Consent Order (FFACO) and due to NDEP in December 2013.

CAU 550, Smoky Contamination Area

CAU 550 comprises 19 CASs related to historical nuclear testing. Field investigation of these sites consists of radiological surveys, soil sampling, and TLD measurements. In September 2013, development of the CADD continued and will continue in October 2013. The CADD is due to NDEP in March 2014. Additional radiological surveys scheduled for September 2013 were performed.

CAU 567, Miscellaneous Soil Sites

CAU 567 comprises four CASs related to historical nuclear testing. In September 2013, radiological surveys and installation of TLDs were performed.

CAU 568, Area 3 Plutonium Dispersion Sites

CAU 568 comprises six CASs related to historical nuclear testing. In September 2013, preparation continued on the Corrective Action Investigation Plan for CAU 568, which is due to NDEP in March 2014.

CAU 570, Area 9 Yucca Flat Atmospheric Test Sites

CAU 570 comprises six CASs related to historical nuclear testing. In September 2013, preparation of the CADD/CR continued and will continue in October 2013. The CADD/CR is due to NDEP in December 2013. Also in September 2013, utility surveys were performed for use restriction sign installation. In October 2013, the use restriction signs will be installed.

CAU 571, Area 9 Yucca Flat Plutonium Dispersion Sites

CAU 571 comprises five CASs related to historical nuclear testing. In September 2013, utility surveys were performed and radiological surveys and installation of TLDs continued. In October 2013, field activities will begin.

Public Involvement:

- Ongoing exhibits:
 - *Operation Clean Desert* – Nevada Public Reading Room in Las Vegas, Beatty Library, Amargosa Valley Library, Goldfield Library, and Central Nevada Museum (Tonopah)
- Environmental Management kiosks – Green Valley Library, Henderson; Las Vegas Library, Las Vegas
- Publications:
 - Published one (1) article (*Navarro-Intera Introduces Operation Clean Desert to New CCSD Teachers*) in the September 2013 edition of [OneVoice](#)
- Outreach
 - Participated in *Connecting Hands: Offering Lifelong Learning Adventures (CHOLLA)* educational group meeting – Tuesday, September 17, 2013
- NSSAB:
 - Full Board Meeting – September 18, 2013