

# Environmental Restoration Project



## ER Site No. 111: Building 6715 Sump/Drain (TA-III)

ADS: 1306

Operable Unit: Tech Area III & V

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Primary Contact: [Dick Fate](#)

Office Phone: 284-2568

### Site History

Site 111 is located in the northern portion of TA-III, south of Building 6715, and is approximately 450 square feet in size. Building 6715 was constructed in 1971 and was used for conducting structural-response experiments with high explosives (HEs). The only HE ever used at this site is silver acetylide-silver nitrate, which is effectively identified by the presence of silver. Until 1988, wastewater from rinsing of equipment and work areas containing silver and HE residue was discharged to a 4-ft diameter by 8-ft deep stainless steel tank. Overflow from this tank was discharged through a polyvinyl chloride (PVC) pipe to a gravel and sand-filled pit, which was constructed to a depth of 4 ft below ground surface (bgs).

The Building 6715 sump and drains were identified during the 1987 RFA as SWMU 79. SWMU 79 was described as a multi-unit site, consisting of an unknown number of septic tanks and associated leach fields. Although the sump and drain pit at Building 6715 were not explicitly identified in the RFA, the CEARP Phase I Installation Assessment recognized the high potential of contaminants being released in this area to the environment. The finding of the CEARP Phase I Installation Assessment was positive for RCRA-regulated hazardous waste. The sump and drain pit were subsequently designated as SWMU 111.

In 1988 a new waste treatment system was installed at this facility that required the removal of the existing system, including the stainless steel tank, the PVC discharge pipe, and drain pit material. The removal action was performed in August 1988 by SNL/NM Waste Management Operations. The drain pit was excavated to a depth of approximately 6 ft. During the excavation activities, soil samples were collected from around the stainless steel tank, the discharge pipe, and the drain pit and were analyzed for silver, with a maximum detection of 6.5 mg/kg.

The SNL/NM Environmental Restoration Project investigated SWMU 111 in June 1994 as part of the TA-III/V investigation to verify the excavation had adequately removed any contaminants of concern. Three boreholes were advanced to total depths of 15 ft below ground surface. Soil

samples were collected at depths of 8, 12, and 15 ft and analyzed for silver, VOCs, SVOCs, and HE.

A total of 10 samples, including one duplicate, were analyzed at an on-site laboratory for silver and HE content. Seven of the 10 samples were non-detect for silver; three of the 10 samples contained less than 0.2 mg/kg silver. All samples were non-detect for HEs.

A total of 4 samples, including one duplicate, were analyzed at an off-site laboratory for silver, HEs, volatile organic compounds (VOCs), and semi-volatile organic compounds (SVOCs). All samples were non-detect for HEs and contained only trace amounts of VOCs and SVOCs. Silver was non-detect in two of the samples and was approximately 2 mg/kg in the other two samples.

## Constituents of Concern

HEs  
Silver  
VOCs  
SVOCs

## Current Hazards

There are no current hazards at this site related to contamination of the surface or subsurface soils. There may be structures or stored materials that remain at the site that are a potential hazard.

## Current Status of Work

Two notice of deficiencies (NOD) for the TA-III/V RFI report were issued by the NMED in July 1997 and March 1998. The comments for Site 111 were resolved without the need for additional field investigation; a supplemental NOD response report with a proposal for no further action was submitted to NMED in January 2001. NMED indicated that Site 111 was appropriate for No Further Action (NFA) petition on March 12, 2001. The NFA was approved by NMED on November 19, 2001, after completing the public review and permit modification process.

## Future Work Planned

No future work is planned.

## Waste Volume Estimated/Generated

No waste was generated during ER site investigations.

**Information for ER Site 111 was last updated Jan 23, 2003.**