

Radford Army Ammunition Plant

FACT SHEET SWMU 57

Introduction

This fact sheet describes the selected action for contaminated soil at Solid Waste Management Unit (SWMU) 57 – the Pond by Buildings 4931 and 4928 at Radford Army Ammunition Plant (RFAAP). This alternative was selected in accordance with the Resource Conservation and Recovery Act of 1976 (RCRA), the Hazardous and Solid Waste Amendments of 1984 (HSWA), the RFAAP RCRA permit requirements (USEPA, 2000) (EPA ID No. VA1210020730).

Background

SWMU 57 is a 0.06-acre area (2,600 ft²) consisting of an inactive, fabricated, asphalt-lined pond and associated piping. SWMU 57 is an inactive fabricated unit historically used as an acid-settling pond.

The RFAAP RCRA Corrective Action Permit identified SWMU 57 as an area of concern that had the potential to pose a threat or potential threat to human health and the environment. SWMU 57 was a part of the Site Screening Process (SSP) investigation completed in 2007 which resulted in the recommendation of a focused RFI for the site.

RCRA Facility Investigation (RFI)/Corrective Measures Study (CMS)

The RCRA facility investigation (RFI) field efforts were conducted at the site in 2008. The primary site-related chemicals of concern identified in soil at the site were metals (antimony, aluminum, cadmium, chromium, iron, and manganese). Chloroform was detected in site groundwater at levels above its USEPA tap-water risk-based screening level (T-RBC) but below the maximum contaminant level (MCL) for trihalomethanes; chloroform was not detected in the soils sampled in and below the former acid-settling pond.

The Final RFI/CMS (URS, 2009) established remedial goals for soil and corrective measures for soil at SWMU 57. Since maximum detected concentrations of contaminants of concern in groundwater were below groundwater remedial goals, groundwater corrective measures were not required. The CMS selected the following for SWMU 57: Alternative Four: Excavation of Soil and Offsite Disposal for Clean Closure and Unrestricted Land Use. USEPA and VDEQ approved the Final RFI/CMS in September 2009.

Implementation of the Selected Corrective Measures

The selected alternative included removal of water from the pond and stabilization of residual material in the pond as necessary. Soils contaminated above the soil residential remedial goals were excavated and the area was backfilled with clean soil. Wastes from the pond remediation were disposed of at a permitted facility. The site was restored and vegetated, resulting in unrestricted future use of the area. Before the excavation and clean backfill placement, the groundwater monitoring wells were sampled and received clean closure approval. A work plan was approved by USEPA and VDEQ on January 6, 2011. Site restoration was completed in accordance with the approved work plan. The Interim Measures Completion Report was completed and approved by the EPA and VDEQ August 26, 2011.