

**PRELIMINARY ASSESSMENT/SITE INSPECTION REPORT
AND AOC/SWMU ASSESSMENT REPORT**

UNIT NUMBER: 493 (SWMU 493a and SWMU 493b)

UNIT NAME: Concrete Rubble Piles near Outfall 001

DATE: 1/17/02

REGULATORY STATUS: SWMU

LOCATION: Two concrete rubble piles are located west of the PGDP Security Fence; see enclosed map for a location of SWMU 493a and SWMU 493b.

APPROXIMATE DIMENSION: SWMU 493a is approximately less than 450 ft³. SWMU 493b is approximately less than 270 ft³.

FUNCTION: Unknown; however, it is assumed the concrete rubble piles were used for erosion control.

BRIEF HISTORY: Two concrete rubble piles were found during a site inspection for the construction of the Scrap Yard Infrastructure Storm Water Collection Basin in November 2001. The concrete rubble piles appear to have been placed along the bank for erosion control. It is unknown where the concrete originated from but it is assumed to be from the PGDP. Concrete debris from the PGDP was used in this capacity throughout the West Kentucky Wildlife Management Area. After being surveyed by Health Physics, the concrete debris and soil near the concrete debris were found to be clean. In order for construction of the Scrap Yard Infrastructure Storm Water Collection Basin to continue, the concrete was relocated to SWMU 474. Per a request from the State of Kentucky, the first foot of soil under the concrete was to be excavated, relocated to SWMU 474, and placed on plastic. After removal of the concrete, excavation and relocation of the first foot of soil began. The excavated soil was routinely surveyed throughout the excavation. Pieces of metal shavings and filings, such as that from a machine shop, and

other pieces of scrap metal, along with a few gaskets and litter were discovered in the relocated soil. Some fixed radiological activity was present on these materials but were below release limits. These items were surveyed, packaged, and placed into proper storage. As a result of this discovery, the excavation of the area (493b) was discontinued and the site visually inspected. Minute amounts of metal shavings, filings, and litter were observed on the ground. A valve cap was discovered at this location during this inspection. Fixed radiological contamination was detected on the valve cap at approximately 800,000-dpm/100 cm². The valve cap was removed from the area, packaged, and placed into proper storage. The area was radiologically posted. Sampling of the excavated soils and the SWMU area is pending.

OPERATIONAL STATUS:

NA

DATES OPERATED:

NA

SITE/PROCESS DESCRIPTION:

Unknown; however, it is assumed the concrete rubble piles were used for erosion control.

WASTE DESCRIPTION:

Concrete debris, surveyed by Health Physics and determined to be clean, was relocated to SWMU 474. Pieces of metal shavings and filings and scrap metal, a valve cap, along with gaskets, and litter, were found in the underlying soil. These items were removed from the SWMU by Health Physics personnel and placed in appropriate storage. The remaining foot of soil, previously under the concrete debris, was then moved to SWMU 474.

WASTE QUANTITY:

Unknown quantity at this time.

SUMMARY OF ENVIRONMENTAL SAMPLING DATA:

Data obtained during a preliminary soil sampling event from locations near the SWMU did not indicate the presence of any contamination by hazardous or radiological constituents. After discovery of the concrete rubble piles, the piles were radiologically scanned and determined to be clean prior to removal to SWMU 474. Other materials found were radiologically surveyed, removed, and placed in appropriate storage. Sampling of the soil has not been performed, but is scheduled to occur

in the near future.

DESCRIPTION OF RELEASE AND MEDIA AFFECTED:

No known releases have occurred.

GROUNDWATER:

NA

SURFACE WATER:

NA

SOIL:

The soil will be sampled in the near future.

ECOLOGY AFFECTED (i.e., endangered/threatened species):

NA

DOCUMENTATION OF NO RELEASE:

NA

IMPACT ON OR BY OTHER SWMU/AOC:

Locations near SWMU 493 outside the PGDP Security Fence are SWMUs 69, 119, and 120. SWMUs located near SWMU 493 inside the PGDP Security Fence are SWMUs 5, 13, and 30.

PRG COMPARISON:

NA

RFI NECESSARY:

Yes. An RFI may be necessary based on data planned for collection from the concrete debris and soil. This SWMU will be placed in the Surface Soils Operable Unit.



SWMU 493 Concrete Rubble Piles Near Outfall 001 (shown at SWMU 474)



SWMU 493 Concrete Rubble Piles Near Outfall 001 By Creek Facing Plant West South West