

**Staging Area for Concrete Piers, Rubble, and Wood on the North  
Side of C-745-B Cylinder Yard  
Solid Waste Management Unit Assessment Report**

**UNIT NUMBER:** 548

**DATE OF ORIGINAL SAR:** 6/27/03

**DATE OF SAR REVISIONS:** 2/20/04; 6/15/07

**REGULATORY STATUS:** SWMU

**LOCATION:** This SWMU is a staging area adjacent to the northwest corner of the C-745-B Cylinder Yard.

**APPROXIMATE DIMENSION OR CAPACITY:** Approximately 120 ft by 30 ft

**FUNCTION:** Staging area for materials from maintenance activities at the C-746-B Cylinder Yard. This area is used for United States Enrichment Corporation (USEC) activities.

**BRIEF HISTORY:** This SWMU was created to store materials from the C-746-B Cylinder Yard. USEC originally staged the materials to determine the recycle potential of the materials. Sampling of the concrete piers was conducted in July 2003. At this time, USEC has no plans to recycle any of the materials. USEC is responsible for management of the materials in this SWMU.

**PRESENT OPERATIONAL STATUS:** Active

**DATES OPERATED:** April 2003 to present

**SITE/PROCESS DESCRIPTION:** Staging area for C-746-B Cylinder Yard excess materials and debris.

**WASTE DESCRIPTION:** Concrete piers, gravel, stanchions, and wood pallets.

**WASTE QUANTITY:** Approximately 1,200 yd<sup>3</sup> of concrete piers, stanchions, wood pallets, and gravel.

**SUMMARY OF ENVIRONMENTAL SAMPLING DATA:** Sampling of the concrete piers was conducted in July 2003 for polychlorinated biphenyls, asbestos, and radionuclides. Data indicate the presence of PCBs less than 2 ppm. Asbestos was not detected. Most radionuclides were not detected above the detection limits; however, technetium-99, cesium-137, and thorium-228/232 were detected slightly above the detection limits. Gravel, stanchions, and wood pallets and were not sampled. Analytical results are attached to this report.

**DESCRIPTION OF RELEASE AND MEDIA AFFECTED:** N/A

**GROUNDWATER:** None known

**SURFACE WATER:** None known

**SOIL:** None known  
**ECOLOGY:** None known

**DOCUMENTATION OF NO RELEASE:** None known

**IMPACT ON OR BY OTHER SWMU/AOC:** There is no evidence that this SWMU impacts or is being impacted by other SWMUs.

**PRG COMPARISON:** N/A

**RFI NECESSARY:** No. No spills or other releases to the environment from this area are known.

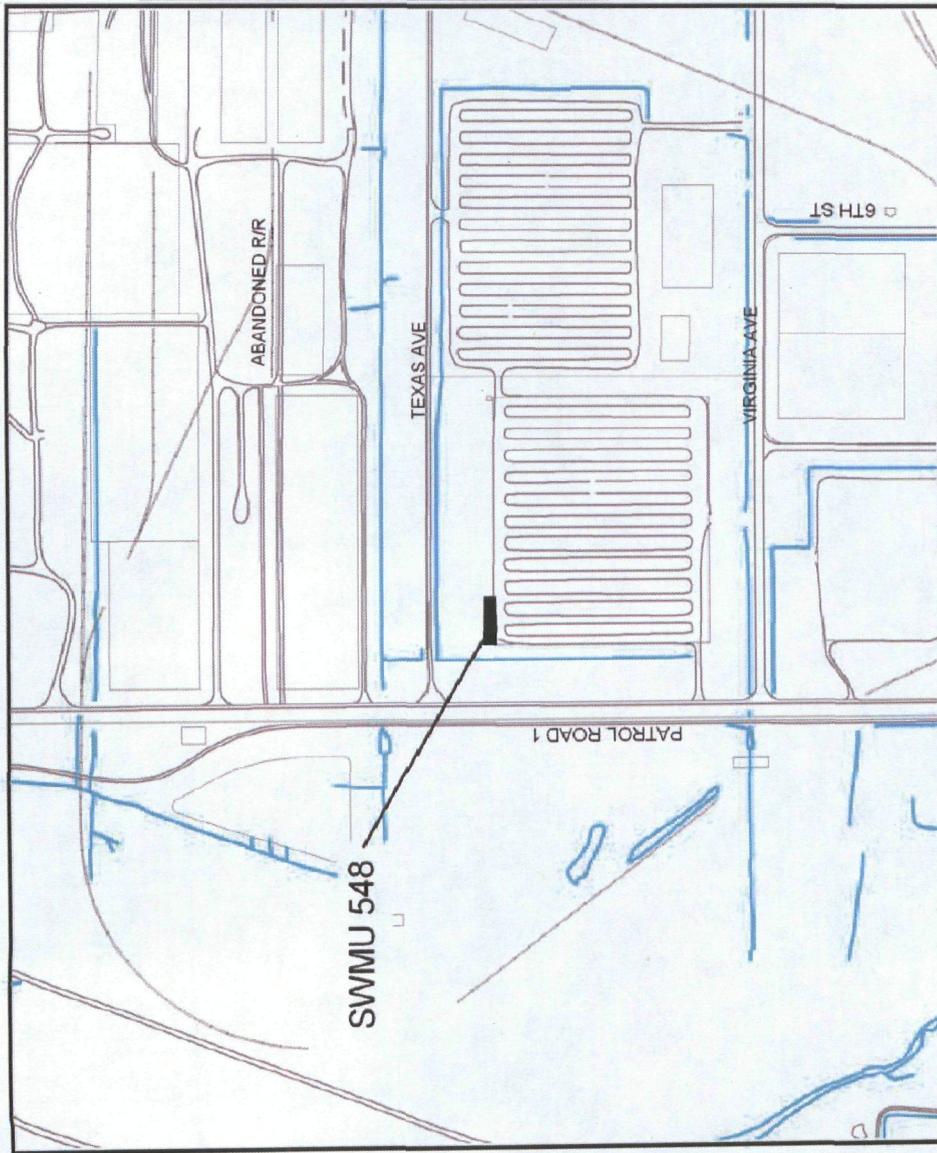
**OPERABLE UNIT ASSIGNMENT:** NA



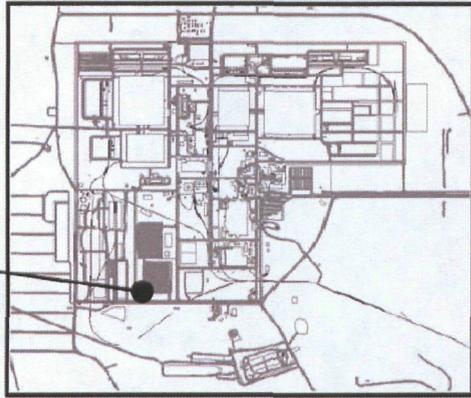
View #1 Looking Southeast Toward SWMU 548  
Concrete Piers  
4/11/07



View #2 Looking Southeast Toward SWMU 548  
Wood Pallets, Gravel, Stanchions  
4/11/07



SWMU 548



Paducah Gaseous Diffusion Plant

TRUE NORTH

PLANT NORTH

2°

400 0 400 800 Feet

**SWMU 548**

U.S. DEPARTMENT OF ENERGY  
 DCE PORTSMOUTH/PADUCAH PROJECT OFFICE  
 PADUCAH GASEOUS DIFFUSION PLANT



FIGURE No. c5ac90000sk635.apr  
 DATE 04-17-07