

**PRELIMINARY ASSESSMENT/SITE INSPECTION REPORT
AND SOLID WASTE MANAGEMENT UNIT (SWMU) ASSESSMENT REPORT**

UNIT NUMBER: 145

UNIT NAME: Area P Construction/Demolition Debris Disposal and Spoils Area

DATE: September 17, 1999

REGULATORY STATUS: SWMU

LOCATION: Approximately ¼ mile north of security area, immediately north of KY-358

APPROXIMATE DIMENSION: 44 acres

FUNCTION: Construction/demolition debris disposal area and spoils area for plant operations are based on internal documents and plant personnel interviews.

BRIEF HISTORY: Per the October 26, 1973, document, "The Discard of Scrap Materials by Burial at the Paducah Plant," this area was used by F. H. McGraw Company during the construction of the Paducah Plant to discard all types of scrap and waste materials. Construction of the plant began in the early 1950's. This area was also used by various subcontractors as a discard area for scrap and waste materials until the early 1980's. Approximately once a year the accumulated scrap piles were moved by plant personnel into piles or earth depressions and wherever practicable, and covered with dirt. Area was later permitted for the construction and operation of the C-746-S and T Landfills.

OPERATIONAL STATUS: Inactive

DATES OPERATED: Early 1950's until early 1980's based on internal documentation and plant personnel interviews.

SITE/PROCESS DESCRIPTION: Subcontractor construction/demolition disposal area from the 1950's until early 1980's based on internal documentation and plant personnel interviews.

WASTE DESCRIPTION: The following wastes are expected to be disposed in this area based on internal documentation and discovery of these materials present in the area: construction/debris (such as concrete), roofing materials, wire, wood, and shingles with asbestos. On August 15, 1991, buried construction spoils were discovered near the proposed location for a sedimentation basin as stated in internal correspondence. These spoils included welding rods, wood, and shingles contaminated with asbestos. In July 1999, tar-laden material was discovered in west of the C-746-S Landfill. This debris had radioactive contamination of 43000 dpm. Samples of this material were obtained and analytical results indicate elevated levels of uranium and technetium.

WASTE QUANTITY: Unknown

SUMMARY OF ENVIRONMENTAL SAMPLING DATA: Sampling of surface water and groundwater is conducted quarterly in accordance with Kentucky closure regulations and the landfill permit requirements for the C-746-S & T Landfills.

DESCRIPTION OF RELEASE AND MEDIA AFFECTED:

- **GROUNDWATER:** Quarterly groundwater monitoring associated with the C-746-S & T Landfills is conducted in this general area. See the quarterly groundwater monitoring reports for analytical results.

SURFACE WATER: Quarterly surface water monitoring associated with the C-746-S & T Landfills is conducted in this general area. See the quarterly surface water monitoring reports for analytical results.

SOIL: 12/91 Analytical data identified PCB's in a range from less than detectable to 1.3 ppm.
08/99 Soils exposed with radiological contamination of 8600 dpm.

ECOLOGY AFFECTED (i.e., endangered/threatened species): None known

DOCUMENTATION OF NO RELEASE: NA

IMPACT ON OR BY OTHER SWMU/AOC: SWMU 9 and 10 are surrounded and are above this SWMU. SWMU 208 is north of this area. SWMU 58, the North-South Diversion Ditch outside the plant security fence, is west of this unit.

PRG COMPARISON: NA

RFI NECESSARY: Yes, SWMU has been assigned to Waste Area Group 11 and will be investigated under the Burial Grounds Operable Unit.

NOTE: Elements included in this outline shall be considered and incorporated, as appropriate, when developing the above-referenced document.

