

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

UNIT NUMBER: 550

UNIT NAME: Concrete Culvert Sections Located on the West Bank of the Ditch Leading to Outfall 001

DATE: 8/4/03

REGULATORY STATUS: SWMU

LOCATION: This SWMU contains five sections of a concrete culvert located on the West Bank of the ditch leading to Kentucky Pollutant Discharge Elimination System (KPDES) Permitted Outfall 001 at the Paducah Gaseous Diffusion Plant.

APPROXIMATE DIMENSION: 20' x 20'

FUNCTION: Ditch bank

BRIEF HISTORY: On March 24, 2003, Radiological Control technicians noticed two culvert pipe sections that had until recently been hidden by undergrowth and had not been surveyed. The technicians surveyed the area and one culvert contained fixed radiological contamination. The area was posted and proper notifications were made to site personnel. On March 27, 2003, an expanded walkover was performed and three additional culverts were found. One of these also had fixed contamination.

OPERATIONAL STATUS: Active

DATES OPERATED: Unknown

SITE/PROCESS DESCRIPTION: The concrete culvert sections appear to have been removed from the nearby ditch at some time in the past. Approximately five sections of culvert have been identified at this time. Surveys were conducted and indicated that two of the sections have fixed radiological contamination. The level of contamination is consistent

with levels previously found in the area and are presumed to represent legacy contamination. Appropriate radiological contamination postings and markings have been installed.

WASTE DESCRIPTION:

This area consists of concrete culverts. The contamination in this area is fixed.

WASTE QUANTITY:

Unknown

SUMMARY OF ENVIRONMENTAL SAMPLING DATA:

2003,

On March 24, 2003, two culverts were scanned. The highest result was 23,000 dpm beta. On March 27,

three additional culverts were scanned. The highest of those was 11,000 dpm beta/gamma.

DESCRIPTION OF RELEASE AND MEDIA AFFECTED:

N/A

GROUNDWATER:

N/A

SURFACE WATER:

N/A

SOIL:

N/A

ECOLOGY AFFECTED:

None

DOCUMENTATION OF NO RELEASE:

None

IMPACT ON OR BY OTHER SWMU/AOC:

SWMU 69 is near this SWMU. There was no known evidence of any impact on or by any other SWMU.

PRG COMPARISON:

N/A

RFI NECESSARY:

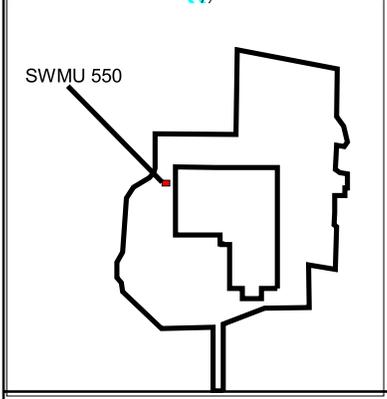
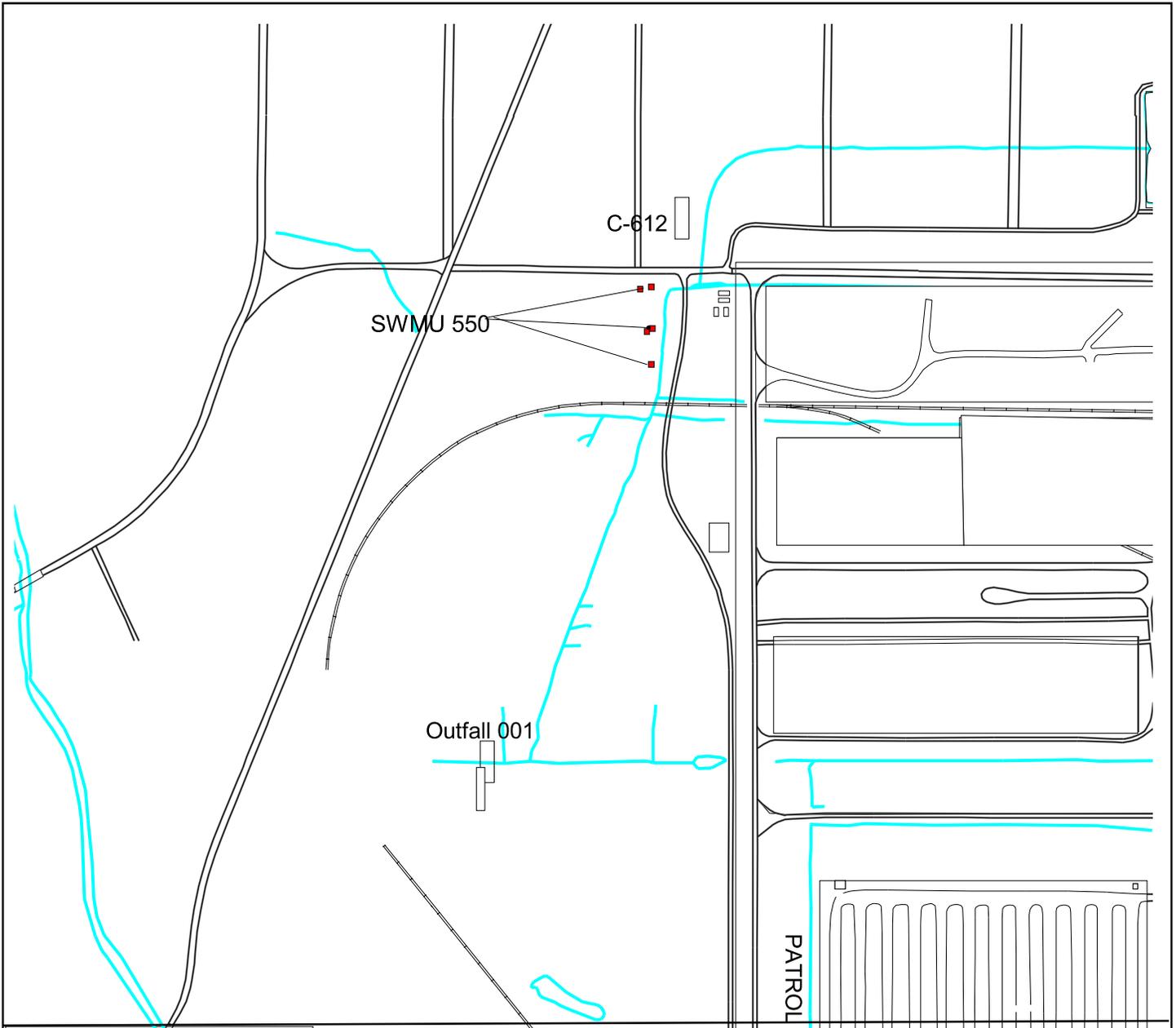
This SWMU will be evaluated as part of the Surface Water Operable Unit.

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



July 2003

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SWMU 550**



LEGEND:

- SWMU 550 Area
- Buildings

0 200 400 600 Feet



U.S. DEPARTMENT OF ENERGY
DOE OAK RIDGE OPERATIONS
PADUCAH GASEOUS DIFFUSION PLANT



BECHTEL JACOBS COMPANY LLC
MANAGED FOR THE US DEPARTMENT OF ENERGY UNDER
US GOVERNMENT CONTRACT DE-AC-05-03OR22980
Oak Ridge, Tennessee • Paducah, Kentucky • Portsmouth, Ohio



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