

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

UNIT NUMBER: 500

UNIT NAME: C-410/420 Complex – Sump at Column U-10&11.

DATE: 12/20/01

REGULATORY STATUS: Solid Waste Management Unit (SWMU)

LOCATION: Sump located in the C-410/420 Complex at column U-10&11.

APPROXIMATE DIMENSION: Approx. 3 ft x 2 ft. Depth not determined.

FUNCTION: Served as a moisture collection system in the basement area of C-410.

BRIEF HISTORY: Sump served as a moisture collection system in the basement area. Collection trench runs along wall. No drainage system illustrated on building blueprints. Discharge destination is unknown.

OPERATIONAL STATUS: Inactive

DATES OPERATED: July 1953 to July 1964 and July 1968 to May 1977

SITE/PROCESS DESCRIPTION: Collection system for liquid in the basement Rectifier and Substation Room. This area housed electrical equipment including breakers, rectifiers, switchgear, electrical distribution panels, and a ventilation system.

WASTE DESCRIPTION: Collection system for liquid in the basement Rectifier and Substation Room. Due to the nature of the equipment in the area, the liquid was probably water. Polychlorinated biphenyls (PCBs) may be present.

WASTE QUANTITY: NA

SUMMARY OF ENVIRONMENTAL SAMPLING DATA: A 1994 sample from the contents of the sump indicated that the material is not RCRA or radiologically contaminated. The material contains detectable PCBs with a result of 0.07 parts per billion (ppb). (*Martin Marietta Energy Systems Request for Site Surveys/characterizations and Miscellaneous Characterizations and Survey - MMES-94-42.*)

DESCRIPTION OF RELEASE AND MEDIA AFFECTED: No releases from this SWMU have been documented.

GROUNDWATER: There are no known groundwater impacts from this SWMU.

SURFACE WATER: There are no known surface water impacts from this SWMU.

SOIL: There is no known impact on surface soils from this SWMU.

ECOLOGY AFFECTED (i.e., threatened/endangered species): No known impacts. No federal or state listed T&E plant or animal species have been identified. The federally endangered Indiana bat (*Myotis sodalis*) potentially occurs in the vicinity, but the C-410 complex does not provide a suitable habitat.

DOCUMENTATION OF NO RELEASE: NA

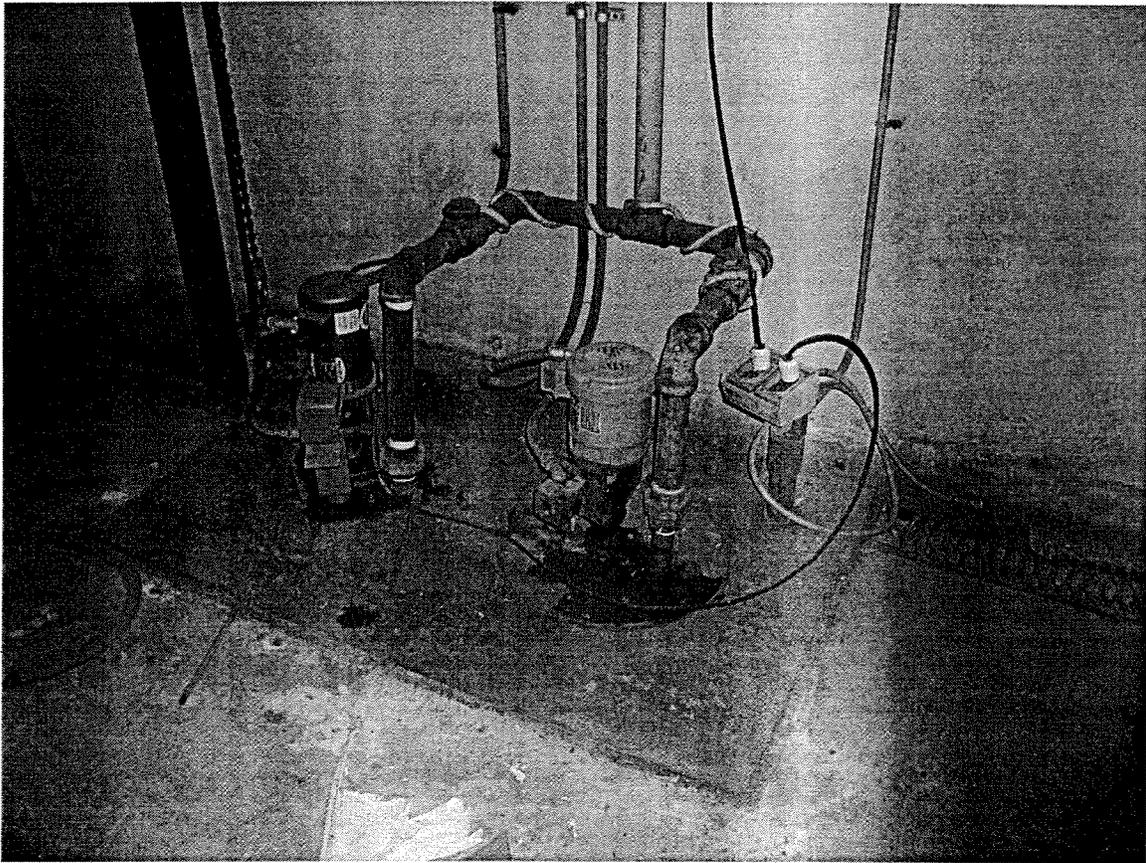
IMPACT ON OR BY OTHER SWMU/AOC: The following SWMUs are in the vicinity of the C-410/420 complex:

SWMU 11	SWMU 19	SWMU 20	SWMU 26
SWMU 40	SWMU 41	SWMU 47	SWMU 78
SWMU 169	SWMU 198	SWMU 203	

PRG COMPARISON: NA

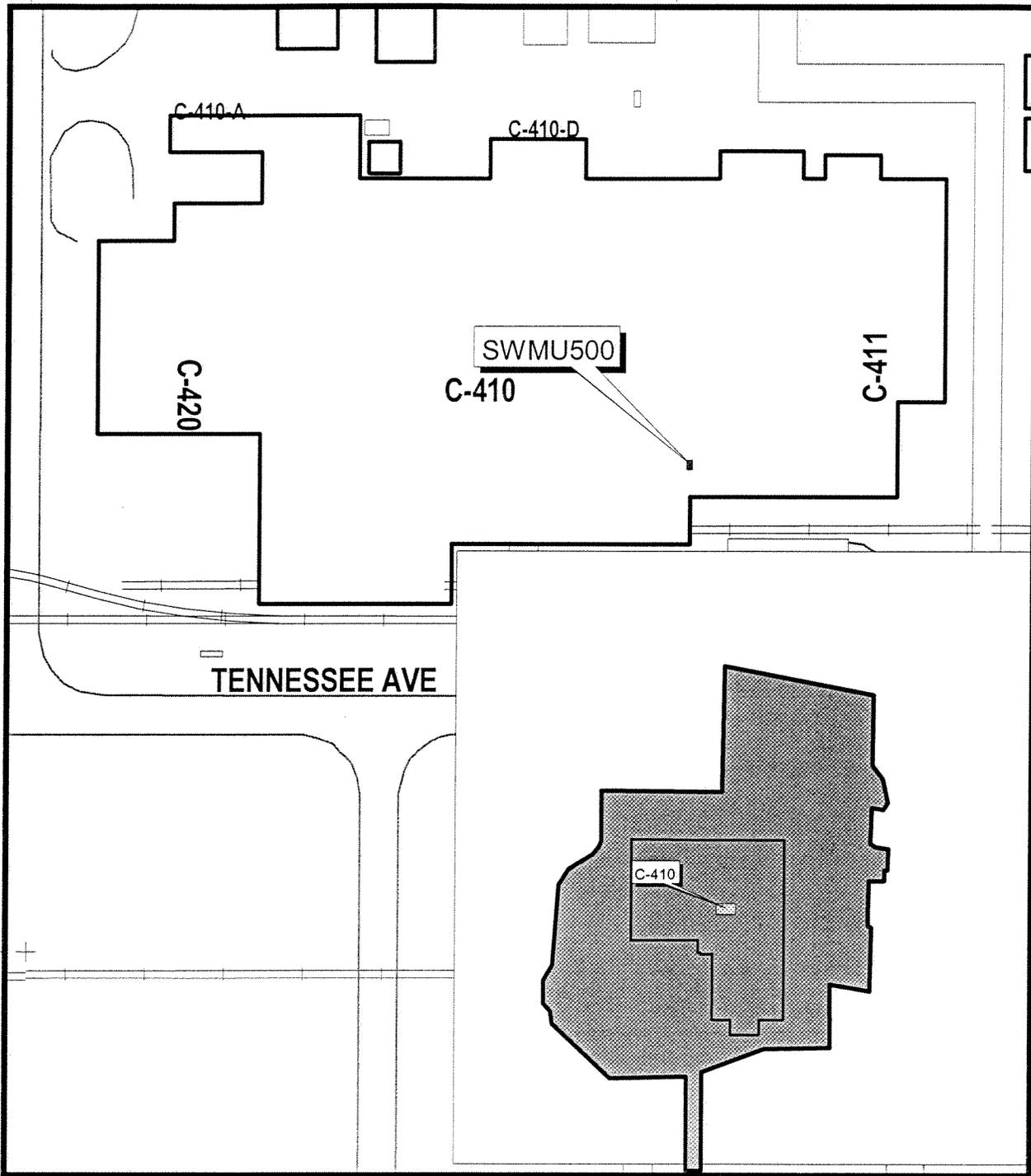
RFI NECESSARY: This area is associated with an inactive facility that is included in the decontamination and decommissioning (D&D) program. Site evaluation work is underway at this time, along with planning associated with the infrastructure D&D phase. The need for a Remedial Investigation/Feasibility Study will be evaluated as part of the facility structure D&D phase.

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



SWMU 500

4000

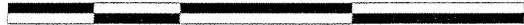


-2000

2000

-4000

90 0 90 180 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-05-98OR22700
Oak Ridge, Tennessee • Paducah, Kentucky • Portsmouth, Ohio



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SWMU 500 at C410.

FIGURE No. c5ac90001sk226.apr
DATE 12-28-01