

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

**UNIT NUMBER:** 506

**UNIT NAME:** C-410/420 Complex – Sump at Column Wa-9

**DATE:** 12/20/01

**REGULATORY STATUS:** Solid Waste Management Unit (SWMU)

**LOCATION:** Sump located in the C-410/420 Complex at column Wa-9

**APPROXIMATE DIMENSION:** 2 ft x 2 ft x 2 ft.

**FUNCTION:** Served as a moisture collection system in areas of C-410.

**BRIEF HISTORY:** Sump served as a moisture collection system for the trench areas of the blower room and the east and west cell rooms (serviced underground piping network). No drainage system is illustrated on facility 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 blower room and the east and west cell rooms. This location would not generally have water present. However, steam and tempered water systems were operated in this area and, thus, the potential for water leaks was present. This was particularly the case during cell disconnects, where water hoses could drip liquid onto the floor. Pinhole leaks in the cell water jackets were an occasional occurrence, as well, and could contribute to water generation for short durations. As the trench system housing the underground piping was the lowest elevation in the area, any water generated in the course of normal operations, or in the event of a water line break, liquids would flow to this point. The sump at this location provided the means to collect and remove any accumulations of liquids.

**WASTE DESCRIPTION:** Waste consists of water.

**WASTE QUANTITY:** Presently 60 gal of water.

**SUMMARY OF ENVIRONMENTAL SAMPLING DATA:** NA

**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

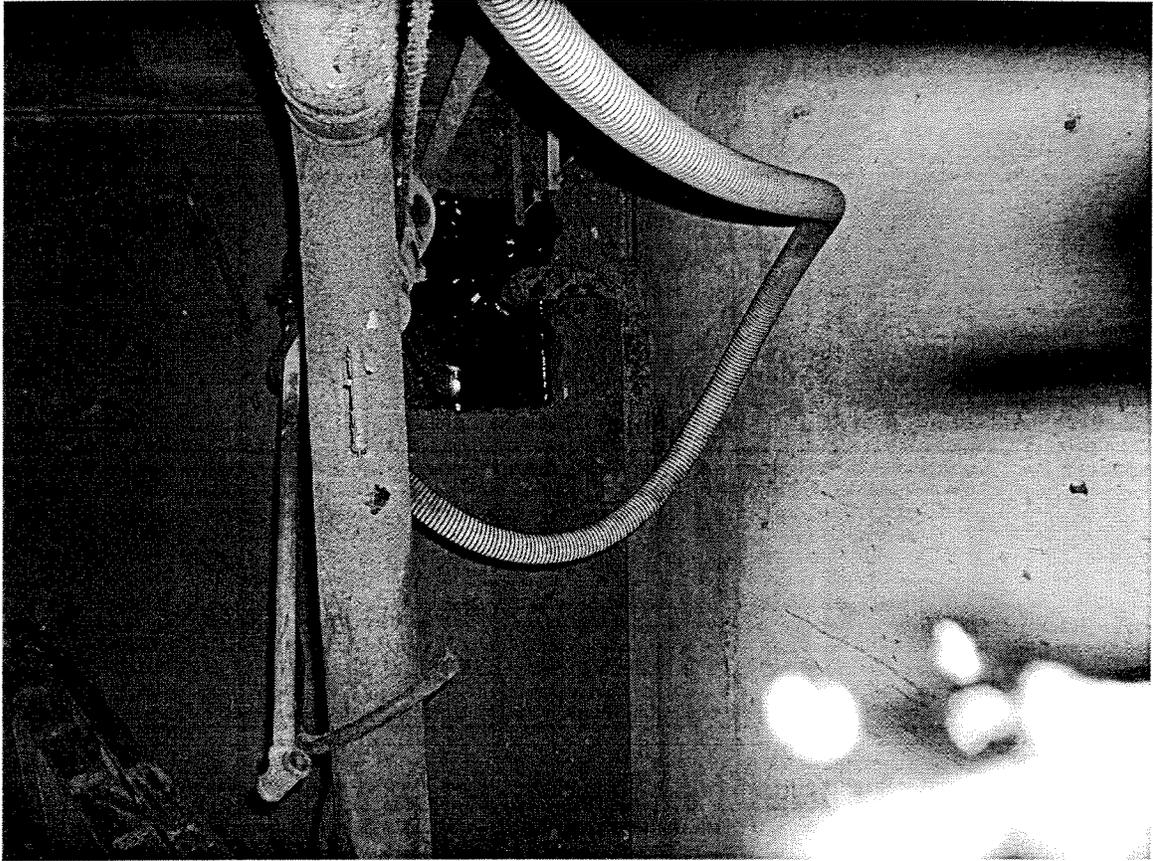
**IMPACT ON OR BY OTHER SWMU/AOC:** The following SWMUs are in the vicinity of the C-410/420 complex:

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

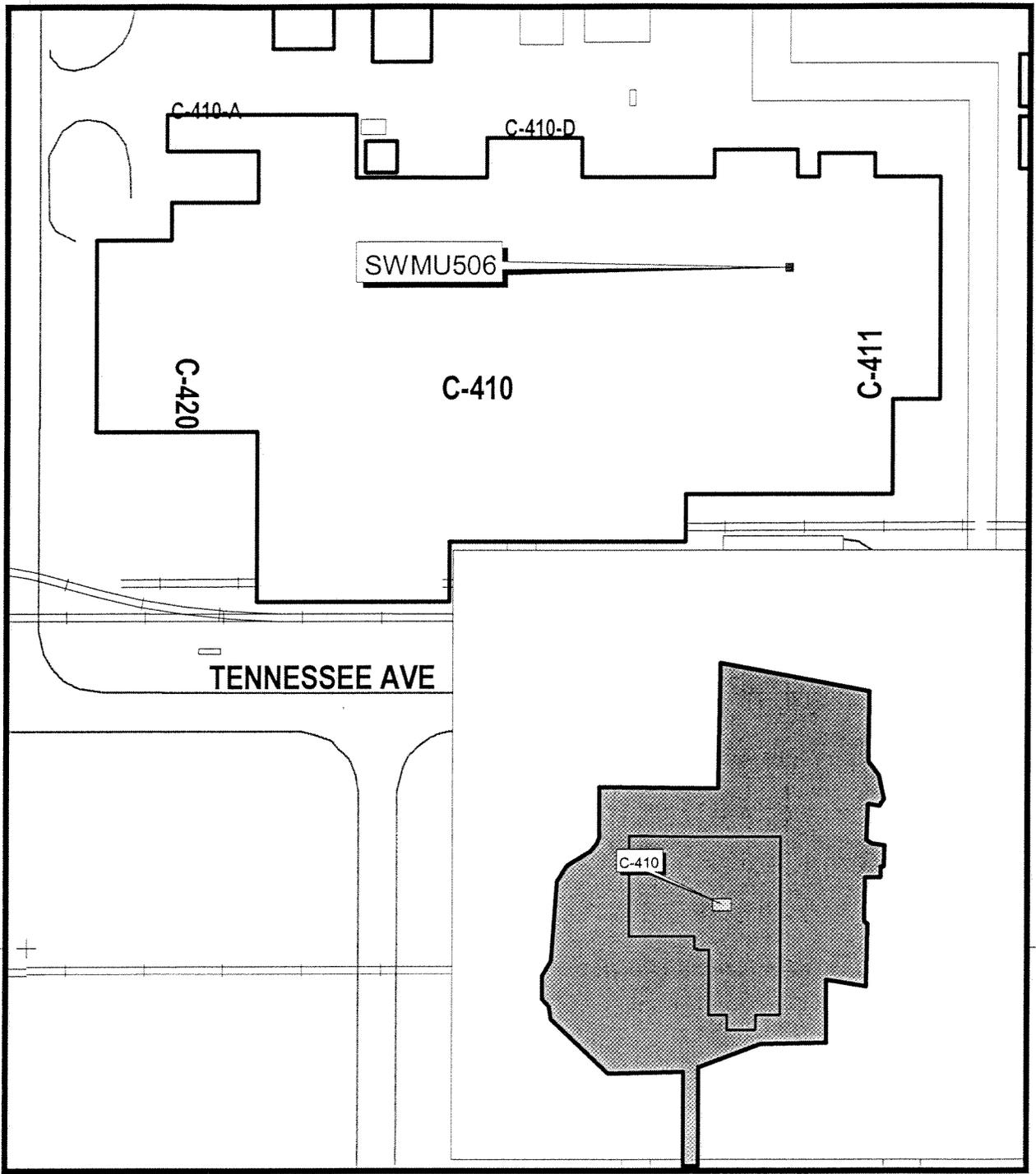
**RFI NECESSARY:** This area is associated with an inactive facility that is included in the decontamination and decommissioning (D&D) program. Site evaluation work is underway at this time, along with planning associated with the infrastructure D&D phase. The need for a Remedial Investigation/Feasibility 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 506

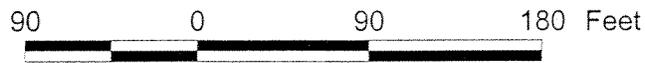
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U.S. DEPARTMENT OF ENERGY  
DOE OAK RIDGE OPERATIONS  
PADUCAH GASEOUS DIFFUSION PLANT

BECHTEL JACOBS  
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

SWMU 506 at C410.



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