

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

**UNIT NUMBER:** 499

**UNIT NAME:** C-410/420 Complex – Sump at Column H-9&10.

**DATE:** 12/20/01

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

**LOCATION:** Sump located in the C-410/420 Complex at column H-9&10.

**APPROXIMATE DIMENSION:** Approximately 3 ft x 1.5 ft x 2 ft deep

**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 also known as the Substation and Distribution Area. A collection trench runs along perimeter of room to the sump. 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 Substation and Distribution Area.

**WASTE DESCRIPTION:** Collection system for a liquid in the basement Substation and Distribution Area. Due to nature of the equipment in the area, the liquid was probably water. Polychlorinated biphenyls could be present.

**WASTE QUANTITY:** NA

**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

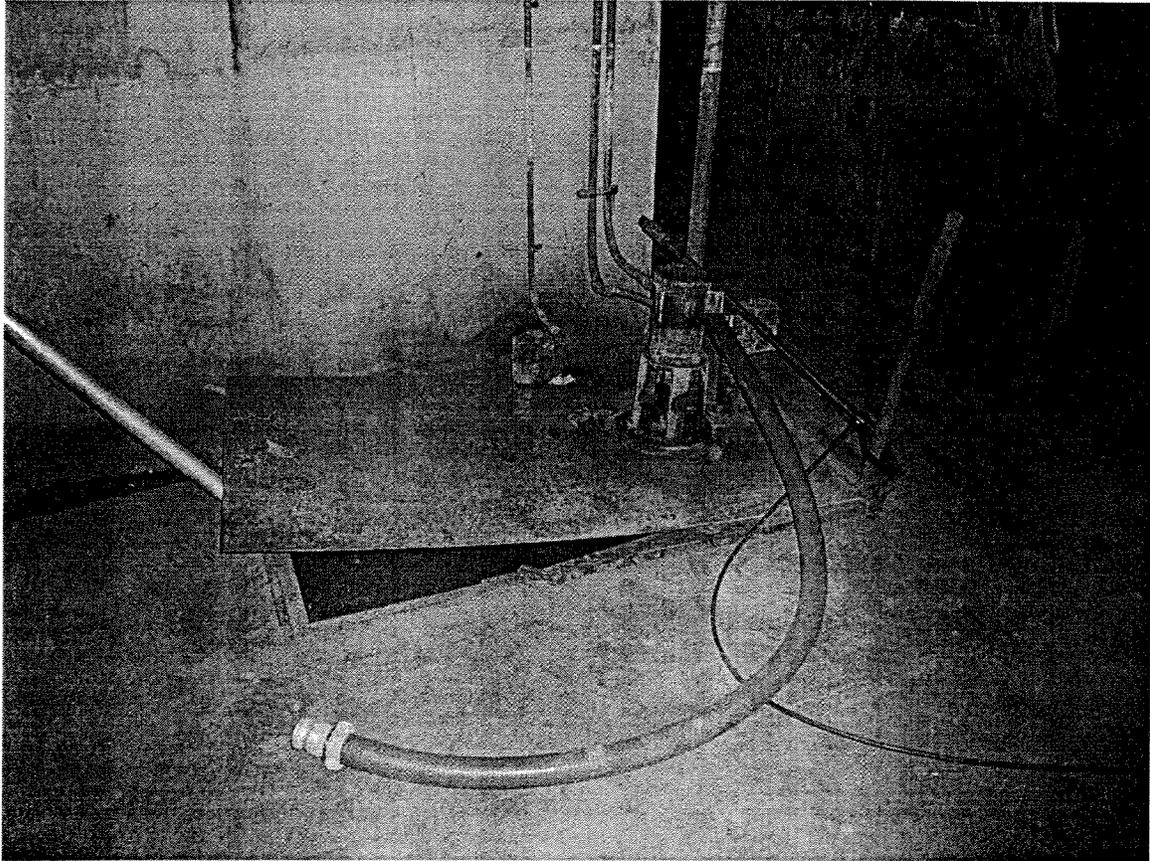
**IMPACT ON OR BY OTHER SWMU/AOC:** The following SWMUs are in the vicinity of the C-410/420 complex:

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

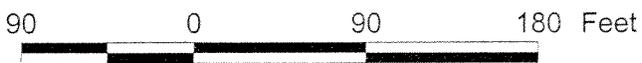
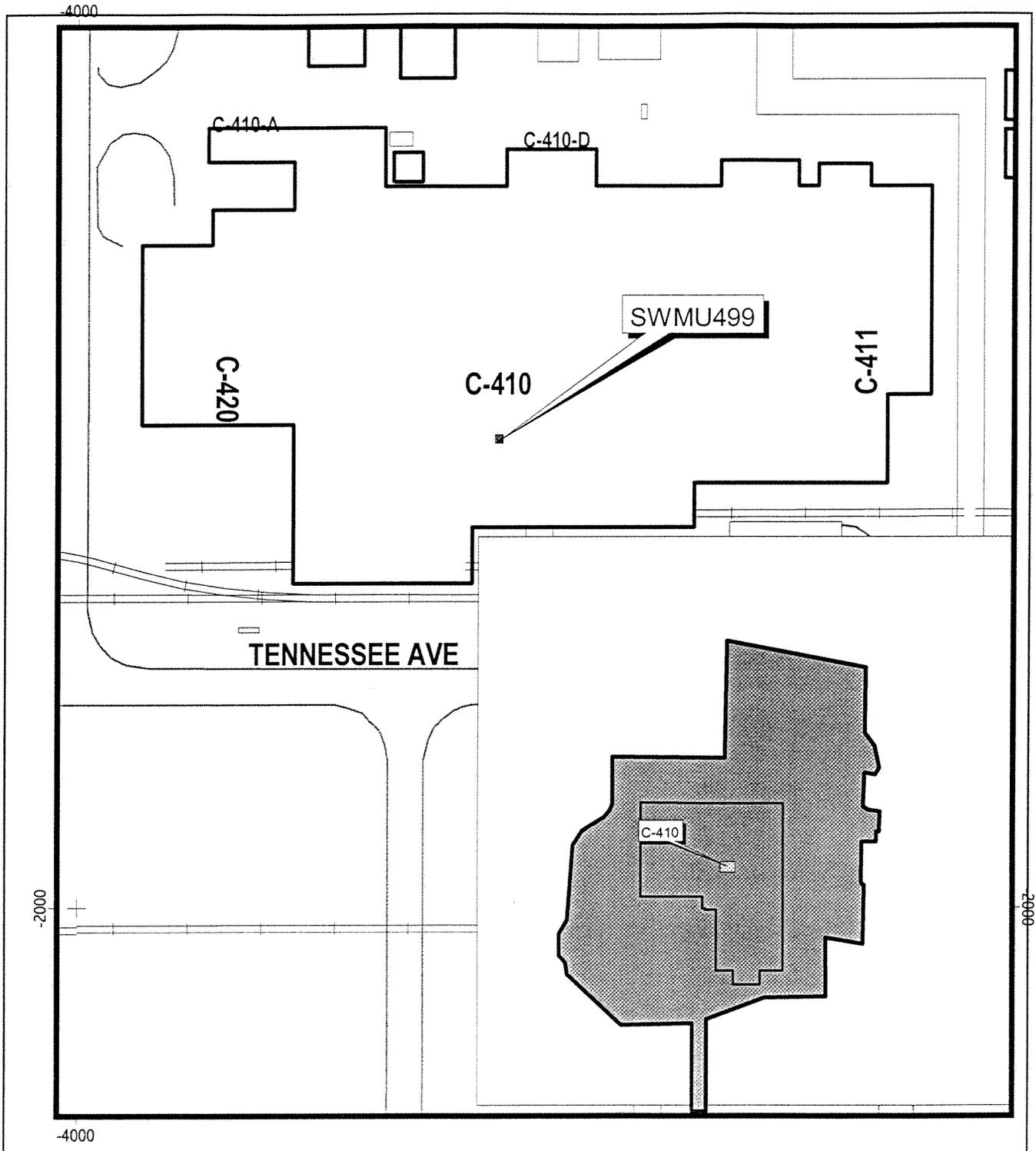
**PRG COMPARISON:** NA

**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 499



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-05-98OR21799  
Oak Ridge, Tennessee • Paducah, Kentucky • Portsmouth, Ohio



Science Applications  
International Corporation  
P.O. Box 2502  
Oak Ridge, Tennessee 37831

SWMU 499 at C410.

FIGURE No. c5ac90001sk225.apr  
DATE 12-28-01