

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

UNIT NUMBER: 521

UNIT NAME: C-340 Saw System Degreaser

DATE: 12/11/2001

REGULATORY STATUS: Solid Waste Management Unit (SWMU)

LOCATION: C-340 Metals Plant, ground floor, near column C6.

APPROXIMATE DIMENSION: 8 ft x 3 ft x 4 ft high

FUNCTION: Vapor degreasing of uranium metal after machining.

BRIEF HISTORY: The vapor degreaser unit began operation with the startup of the metals plant in 1957. It operated intermittently until the final shutdown of the metals facility in 1975. The degreaser used trichloroethene as the solvent. The solvent was removed, but it is not known if the degreaser was cleaned. In 1985/1986 laboratory testing of uranium solidification technology was performed in C-340 (*Field Concrete Fixation of Uranium Metal and Associated Liquids from Machining Wastes*, KY/L-1446, 3/1/87). The degreaser was utilized at that time for this project to degrease some of the metal. The solvent was removed after the work was completed, but it is not known if it was cleaned of residue. The C-340 Building has had problems with the roof leaking. In the attached photograph, water is on the floor of the building.

OPERATIONAL STATUS: Inactive

DATES OPERATED: Intermittently from 1957 until 1986.

SITE/PROCESS DESCRIPTION: The unit was used for the vapor degreasing with trichloroethene of uranium metal after machining operations that used cutting fluids.

WASTE DESCRIPTION: The unit may contain uranium metal left from degreasing operations. Due to the volatility of TCE, it is unlikely that any liquid TCE is still present.

WASTE QUANTITY: Unknown

SUMMARY OF ENVIRONMENTAL SAMPLING DATA: Environmental sampling has been performed for Waste Area Grouping (WAG) 8)DOE/OR/07-1867&D1, *Site Evaluation Report for Waste Area Grouping 8 at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, June 2000. WAG 8 includes the C-340 Building. The sampling included surface and subsurface soils. In addition, groundwater wells have been installed for WAG 8. Sampling of these wells is an ongoing activity.

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

GROUNDWATER: There are no groundwater wells in the immediate vicinity of the C-340 Building..

SURFACE WATER: No surface water samples from the immediate vicinity of the SWMU have been taken.

SOIL: No soil samples from the immediate vicinity of the SWMU have been taken.

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-340 complex does not provide a suitable habitat.

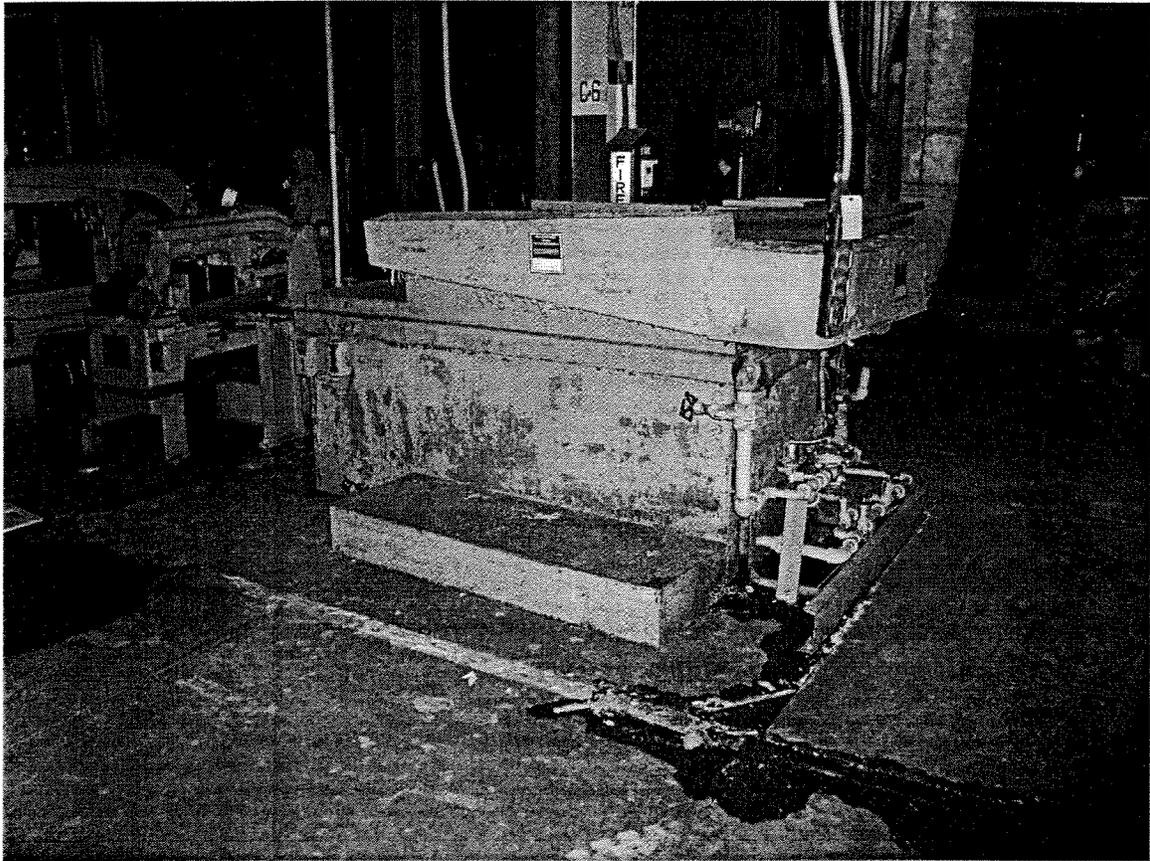
DOCUMENTATION OF NO RELEASE: There is no documentation available.

IMPACT ON OR BY OTHER SWMU/AOC: SWMUs 56, 74, and 80 are located in the immediate vicinity of C-340. A hydraulic oil system, SWMU 101, is located inside C-340

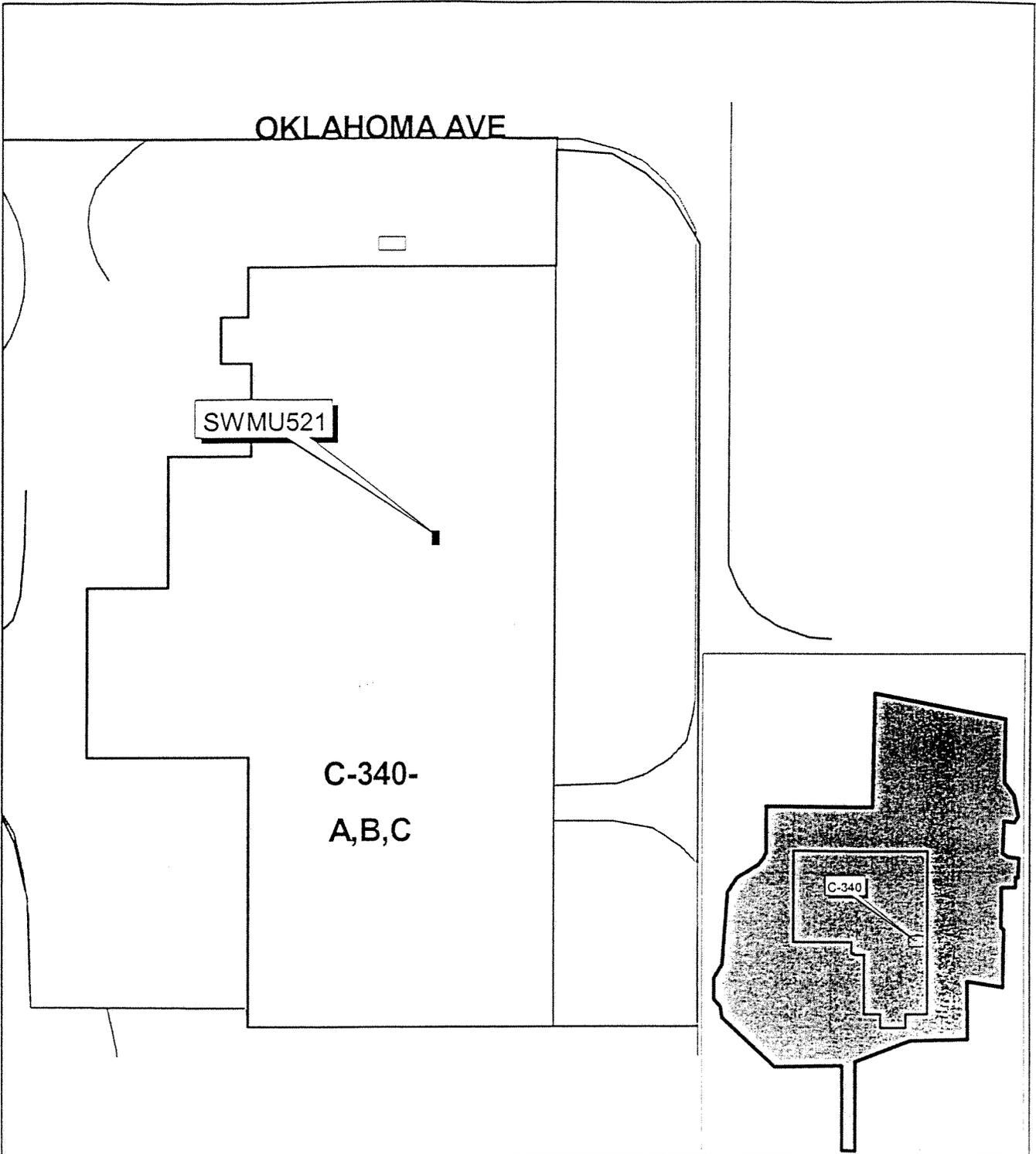
PRG COMPARISON: NA

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 521



50 0 50 100 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-AC05-98OR22759
Oak Ridge, Tennessee • Paducah, Kentucky • Portsmouth, Ohio

SWMU 521 at C-340



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FIGURE No. c5ac90C01sk220.apr
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