

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

UNIT NUMBER: 532

UNIT NAME: Photographic Solution Treatment Area in the C-102 building

DATE: 5/10/02

REGULATORY STATUS: SWMU

LOCATION: SWMU 532 is located in Building C-102. See enclosed map for a location of SWMU 532.

APPROXIMATE DIMENSION: 12' x 5'

FUNCTION: Recovery of silver from X-rays and photographic processing solutions.

BRIEF HISTORY: During operational timeframe, silver was recovered from x-ray and photographic processing solutions using two units. The treated water was discharged to the sanitary wastewater treatment system. However, since the moratorium on the release of treated wastes, all x-ray and photoprocessing solutions have been stored and disposed of as hazardous waste. There has not been any recovery of silver since 1990.

OPERATIONAL STATUS: Inactive

DATES OPERATED: Early 1980s-1990 (no documented start of silver recovery operations).

SITE/PROCESS DESCRIPTION: Silver was recovered from x-ray and photographic solutions in a small darkroom in C-102. Recovery was accomplished using a small X-Rite Model 100 Prospector silver recovery unit. A second unit, X-Rite Model 607 Automatic Prospector, was added to the existing unit to improve the removal and recovery efficiencies of silver. Both units were continuous flow and were operated in series. The system had a combined tank capacity of 40 gallons (20 gallons for each unit).

WASTE DESCRIPTION: Silver recovered from x-ray and photographic developing solutions.

WASTE QUANTITY: None.

SUMMARY OF ENVIRONMENTAL SAMPLING DATA:

None.

DESCRIPTION OF RELEASE AND MEDIA AFFECTED:

No release and no media affected.

GROUNDWATER:

No groundwater was contaminated from the silver recovery operations due to no outside release.

SURFACE WATER:

No surface water was contaminated from the silver recovery operations due to no outside release.

SOIL:

No soil contamination from the silver recovery operations due to no outside release.

ECOLOGY AFFECTED (i.e., endangered/threatened species):

None.

DOCUMENTATION OF NO RELEASE:

None.

IMPACT ON OR BY OTHER SWMU/AOC:

Because SWMU 532 is inside a facility (C-102) and is not active, no impacts are anticipated on or by other SWMUs.

PRG COMPARISON:

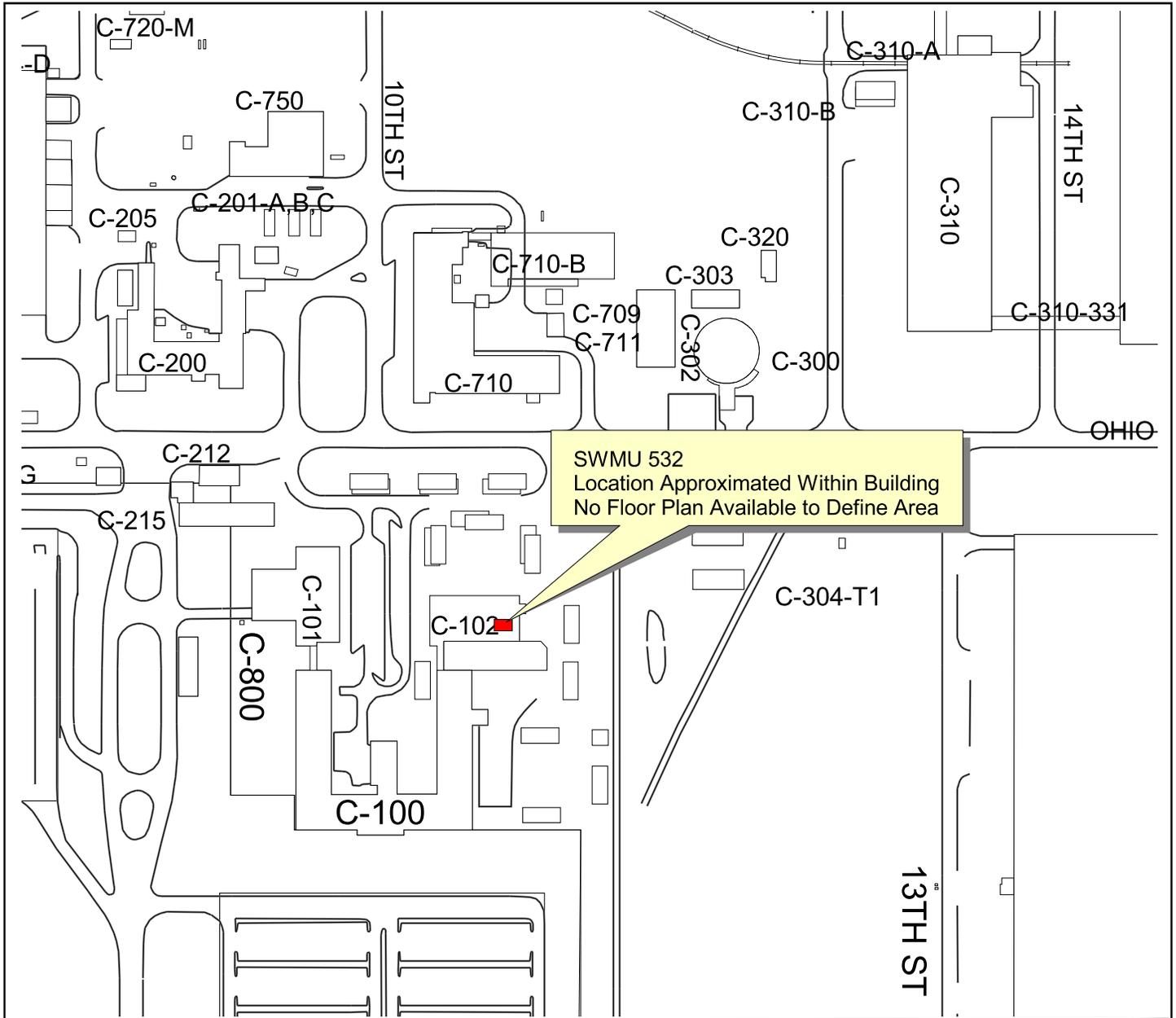
None.

RFI NECESSARY:

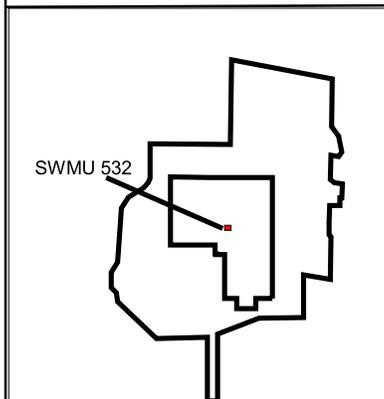
No. The silver recovery operations were discontinued in 1990, and all solutions are drummed inside C-102 with no potential release to the environment from operations.



SWMU 532 Photographic Solution Treatment Area in the C-102 building



SWMU 532
 Location Approximated Within Building
 No Floor Plan Available to Define Area



LEGEND:

- SWMU
- Buildings

125 0 125 250 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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