

SOIL PILE I
Preliminary Assessment/Site Inspection Report and Solid Waste Management
Unit (SWMU) Assessment Report

SWMU/AOC NUMBER: 561

DATE OF ORIGINAL SAR: 6/05/08

DATE OF REVISED SAR: NA

REGULATORY STATUS: SWMU

LOCATION: This SWMU is located outside the PGDP fenced, industrialized area, east of the PGDP fence and is adjacent to Little Bayou Creek between McCaw Road and Outfall 002 ditch.

APPROXIMATE DIMENSION OR CAPACITY: The SWMU covers approximately 7 acres. Soil piles within the 7 acre area are approximately 30 ft wide x 700 ft long by an average of 8 ft tall along Outfall 002 ditch and 30 ft wide x 700 ft long by an average of 8 ft tall along Little Bayou Creek.

FUNCTION: None.

BRIEF HISTORY: Interviews with PGDP employees indicated that historically it was an intermittent practice to dredge the outfall ditches and creeks to remove build-up of sediments and natural debris to enhance surface water flow. These piles were identified on November 2, 2006, and subsequently posted by November 22, 2006.

PRESENT OPERATIONAL STATUS: Inactive

DATES OPERATED: Approximately the 1950s to the 1980s, as noted in the response to the 3007 request.

SITE/PROCESS DESCRIPTION: This SWMU encompasses a 7 acre area, mostly wooded, flat or gently sloped with soil pile areas located along Outfall 002 ditch and Little Bayou Creek. Soil pile areas vary in size and range from approximately 12-30 ft in width and 2-12 ft high, with the majority averaging 8 ft high.

WASTE DESCRIPTION: Sediment, soil and vegetative debris. Radiological contamination above background concentrations and PCB contamination is present in portions of these soil piles.

WASTE QUANTITY: Approximately 10,000 yds³ of soil.

SUMMARY OF ENVIRONMENTAL SAMPLING DATA: The following is a summary of samples collected from the soil piles and nearby areas within the SWMU boundaries:

98 samples underwent fixed laboratory analysis,
646 surface samples underwent field measurements only,
51 subsurface samples underwent field measurements and fixed laboratory analysis,
117 subsurface samples underwent field analysis only,
5 tree samples for fixed laboratory analysis, and
9 soil samples for analysis to support engineering design of possible removal/remedial action.

Field analyses included metals, PCBs, and radiological parameters. A gamma walkover survey was performed prior to any physical sample collection, with indications in a few areas of between 2 and 7 times background. Fixed laboratory analyses included metals, PCBs, radiological parameters, and volatile and semivolatile organics. Radiological contamination (uranium isotopes) was detected in 3 small areas at concentrations up to three times greater than background. PCB contamination was present in these same areas with metals also present above background.

DESCRIPTION OF RELEASE AND MEDIA AFFECTED:

GROUNDWATER:	None known
SURFACE WATER:	None known
SOIL:	See below
ECOLOGY AFFECTED:	None known

DOCUMENTATION OF NO RELEASE: As reflected by sampling data, some of the soil piles along Little Bayou Creek contain uranium and PCB contamination above background. Based upon the data collected from the soil, there does not appear to be any migration to groundwater or surface water from the soil piles. Ecological media do not appear to be impacted based upon the limited data collected (tree samples).

IMPACT ON OR BY OTHER SWMUS OR AOCS: There is no evidence that this SWMU impacts or is impacted by other SWMUs.

PRG COMPARISON: For uranium, the concentrations are below the individual recreational user screening levels for a 1 mrem/year dose and, therefore, below the "walk away" level in the PGDP Risk Methods Document; however, the concentration of uranium-238 at some locations exceeded its no action level. For PCBs, concentrations at some locations exceed the TSCA low occupancy limit of 25 ppm, and one location had a concentration that exceeds the TSCA action limit at 50 ppm. The PCB concentration at that location was 79 ppm.

RFI NECESSARY: Yes, as identified in the Hazardous Waste Facility Permit (KY8-890-008-982).

OPERABLE UNIT ASSIGNMENT: Soils Operable Unit



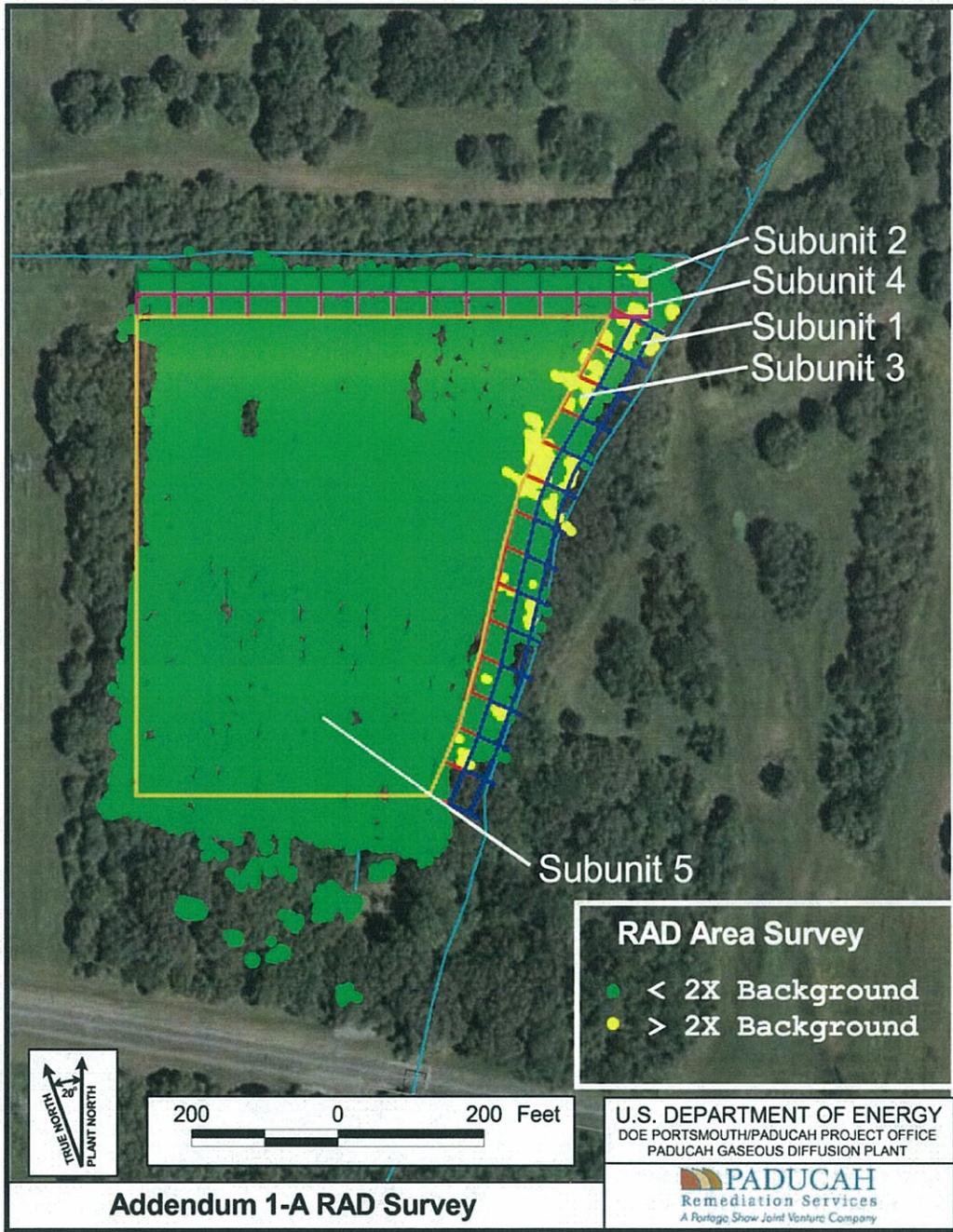


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