

0205-0405110002

APR 20 2004



**CH2MHILL**

CH2M HILL

Mound, Inc.

1 Mound Road

P.O. Box 3030

Miamisburg, OH

45343-3030

ER-025/04

April 20, 2004

Ms. Margaret L. Marks, Acting Director  
Miamisburg Closure Project  
U. S. Department of Energy  
500 Capstone Circle  
Miamisburg, OH 45342

SUBJECT: Contract No. DE-AC24-03OH20152  
Contract Deliverable 039 – PRS Documents  
**PRS 17 FACT SHEET**

Dear Ms. Marks:

Danny Punch from your office has approved the release of the following document for public review.

- PRS 17 Fact Sheet

This document will be in public review from April 26 to May 26, 2004. A copy of the ad that will appear in the Dayton Daily News on April 26 is enclosed. Responses to the regulators' comments on the draft version of the document are also enclosed.

Sincerely,

A handwritten signature in black ink, appearing to read "Monte A. Williams".

Monte A. Williams  
Deputy Project Manager, Environmental Restoration

MAW/DAR:jdjg

Enclosures

cc: David Seely, USEPA, (1) w/attachments  
Mary C. Wojciechowski, Tetra Tech EM, Inc., (1) w/attachments  
Brian Nickel, OEPA, (4) w/attachments  
Ruth Vandegrift, ODH, (1) w/ attachments  
Paul Lucas, DOE/MCP, (1) w/attachments  
Danny Punch, DOE/MCP, (1) w/attachments  
Lisa Rawls, DOE/MCP, w/o attachments  
Randy Tormey, DOE/OH, (1) w/attachments  
Dann Bird, MMCIC, (3) w/attachments  
Jim Bonfiglio, MESH, (1) w/attachments  
John Fulton, CH2M HILL, w/o attachments  
Gene Valett, CH2M HILL, w/o attachments  
Dave Rakel, CH2M HILL, w/o attachments  
Karen Arthur, CH2M HILL, w/o attachments  
Monte Williams, CH2M HILL, w/o attachments  
Public Reading Room, (4) w/attachments  
DCC

# PUBLIC FACT SHEET

This Fact Sheet satisfies the Public Notification requirement set forth in the Contingent Action Memorandum<sup>1</sup>.

**Background.** Potential Release Site (PRS) 17<sup>2</sup>, also known as the Building 34 Oil Burn Structure, is located on the west central portion of the site as shown on Figure 1. The process performed at PRS 17 involved burning aviation fuel to conduct flame tests on shipping containers to confirm they meet Department of Transportation requirements. The structure was removed from service in 1979.

**Further Assessment Sampling** in and around the structure conducted as part of the OU-3 Limited Field Investigation (LFI) in 1991 indicated that all soil results around PRS 17 were below comparison values with the exception of thallium, with a maximum observed concentration of 0.53 mg/kg (estimated). Mound's background value for thallium is 0.46 mg/kg. Samples of the sediment inside the structure indicate the following contaminants above comparison values: cobalt (28 mg/kg vs. 19 mg/kg background), copper (92.8 mg/kg vs. 26 mg/kg background), lead (3100 mg/kg vs. 400 mg/kg US EPA guidance for residential receptor), and benzo(g,h,i)perylene (2.2 mg/kg vs. 0.41 mg/kg guideline).

Analytical results of water collected from inside the structure were also below contaminant comparison values except for thallium which was found at 0.0024 mg/L. The Maximum Contaminant Level (MCL) for thallium is 0.002 mg/L.

Based on the above results, the Core Team recommended a **Removal Action (RA)**. This RA will be performed per the Contingent Action Memo<sup>1</sup>. Based on the information above, the Contaminants of Concern (COCs) are thallium, cobalt, copper, lead, and benzo(g,h,i)perylene. However, Hazard Indices (HIs) are now available for thallium, cobalt, and copper (17, 12800, and 8520 mg/kg respectively). Since the sampling results do not exceed the HIs for thallium, cobalt, or copper; the COCs for the RA are lead and benzo(g,h,i)perylene.

## PRS 17: Building 34 Oil Burn Structure

Analyte	Bkgd (mg/kg)	Maximum Concentration (mg/kg)	Cleanup Objective (mg/kg)
Lead	48	3100	448
Benzo(g,h,i)perylene	N/A	2.2	0.41

The USEPA guidance value for residential exposure to lead (400 mg/kg) is used to calculate the cleanup objective because toxicity values are not available to calculate a site-specific Risk Based Guideline Value. The Risk Based Guideline Value for benzo(a)pyrene (0.41 mg/kg) is used as the cleanup objective for benzo(g,h,i)perylene because there is no guideline or background value for benzo(g,h,i)perylene and the benzo(a)pyrene guideline value is the most conservative of any of the Polynuclear Aromatic Hydrocarbon (PAH) compounds.

The **Work Plan** for Contingent Removal Actions<sup>3</sup>, supplemented by the Unique Work Package, includes procedures, instructions, and applicable permits and notifications required to safely conduct the work. Erosion and runoff/runoff controls will be managed per the SWP<sup>4</sup>.

The RA will consist of demolition of the remaining structure and removal of contaminated soil within the building footprint. Post-excavation sampling will be performed within the excavation per the Core Team-approved **Verification Sampling & Analysis Plan (VSAP)**.

**Schedule.** This Fact Sheet will be in public review for 30 days, ending May 26, 2004. The RA may be ongoing during the review time. A summary of the RA & the verification data will be included in the On-Scene Coordinator (OSC) Report. The OSC Report will be placed in the public reading room after the conclusion of the verification sampling and approval by the Core Team.

Excavation & verification are expected to cost less than \$50,000.

Additional information can be found in the public reading room, or by contacting Danny Punch at 847-8350 ext 301.

1: Action Memorandum/Engineering Evaluation/Cost Analysis, Contingent Removal Action for Contaminated Soil, June 2002, Final

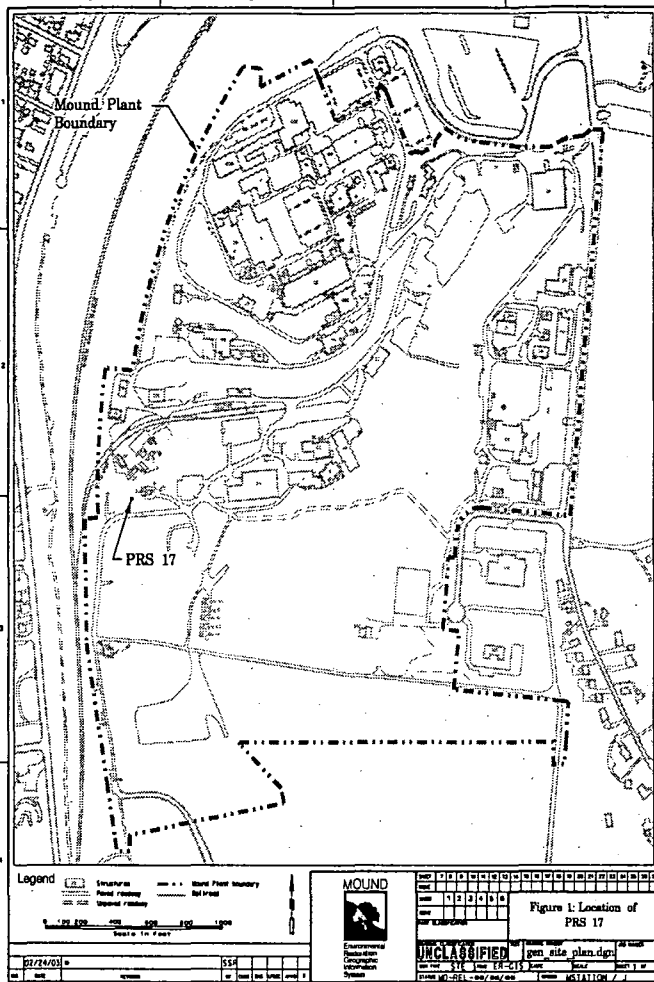
2: PRS 17 Package, Final, February 1997

3: Standard Work Package for Contingent Removal Actions, November 2001, Final

4: Storm Water Pollution Prevention Plan

# PUBLIC FACT SHEET

## PRS 17: Building 34 Oil Burn Structure



- 1: Action Memorandum/Engineering Evaluation/Cost Analysis, Contingent Removal Action for Contaminated Soil, June 2002, Final
- 2: PRS 17 Package, Final, February 1997
- 3: Standard Work Package for Contingent Removal Actions, November 2001, Final
- 4: Storm Water Pollution Prevention Plan

MIAMISBURG CLOSURE PROJECT

**FACT SHEET**

The following document is available  
(April 26, 2004) for public information  
in the CERCLA Public Reading Room,  
305 E. Central Ave., Miamisburg, Ohio.

**PRS 17,  
Fact Sheet**

Questions can be referred to  
Paul Lucas at  
(937) 847-8350 ext. 314

U.S. Department of Energy  
U.S. Environmental Protection Agency  
Ohio Environmental Protection Agency