

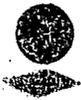
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CH2M HILL Mound, Inc.

1075 Mound Road

P.O. Box 750

Miamisburg, OH 45343-0750



CH2MHILL

SMO-100/06
February 8, 2006

Mr. Don Pfister, Director
Miamisburg Closure Project
U. S. Department of Energy
175 Tri-County Parkway
Springdale, OH 45246

ATTENTION: Paul Lucas

SUBJECT: Contract No. DE-AC24-03OH20152: Deliverable #39 Potential release site and removal action documentation; Section C.2.3.1.3 Remaining Response Actions; PRS 363 Public Fact Sheet, Final

Dear Mr. Pfister:

Attached is the following Final document for your records:

- PRS 363 Public Fact Sheet, Final

If you or members of your staff have any questions regarding the document, or if additional support is needed, please contact Dave Rakel at 937-865-4203.

Sincerely,

Michael D. Ebben
Site Manager

JL/jg

Enclosures

cc: T. Fischer, USEPA, (1) w/attachments
 B. Nickel, OEPA, (1) w/attachments
 R. Vandegrift, ODH, (1) w/attachments
 J. Webb, ODH, (1) w/attachments
 M. Wojciechowski, Tetra Tech, (1) w/attach
 G. Gorsuch, DOE/MCP, (1) w/attachments
 R. Tormey, DOE/OH, (1) w/attachments
 G. Desai, DOE/HQ, (1) w/attachments
 C. Kline, CH2M Hill, (1) w/attachments
 F. Bullock, MMCIC (2) w/attachments
 Public Reading Room (1) w/attachments
 Admin Records, CH2M Hill, (2) w/attachs

ER Records, CH2M Hill, (1) w/attachs
 DCC (1) w/attachments
 M. Ebben, CH2M Hill, w/o attachments
 K. Armstrong, CH2M Hill, w/o attachments
 D. Rakel, CH2M Hill, w/o attachments
 D. Kramer, CH2M Hill, w/o attachments
 J. Fontaine, CH2M Hill, w/o attachments
 MOAT Coordinator, CH2M Hill, w/o attachs
 S. Barr, CH2M Hill, w/o attachments
 M. McDougal, CH2M Hill, w/o attachments
 file, CH2M Hill, w/o attachments

PUBLIC FACT SHEET

PRS 363: Plutonium-238 – Contaminated Area

This Fact Sheet satisfies the Public Notification requirement set forth in the Contingent Removal Action Memorandum¹.

Background. Potential Release Site (PRS) 363 is located in the southwest portion of the site, approximately 20 feet north of the Mound drainage ditch, as shown in Figure 1. PRS 363 was identified due to an elevated plutonium-238 detection during the OU5 Non-AOC (Area of Concern) investigation.

Characterization. No radioactive or hazardous waste generating processes are known to have occurred at the location of PRS 363. The OU5 Operational Area Non-AOC Investigation² evaluated surface soil for hydrocarbons (via qualitative PETREX), and radionuclide (via gamma spectroscopy). None of the sample locations were found to have elevated hydrocarbons.

Two of the sample locations had results above the Cleanup Objective for plutonium-238, with concentrations of 94 pCi/g and 85 pCi/g (compared with the Cleanup Objective of 55 pCi/g).

Analyte	Bkgd	Maximum Concentration	Cleanup Objective
Plutonium-238	0.13 pCi/g	94 pCi/g	55 pCi/g ¹

Based on the above, the Department of Energy (and the Core Team, see Recommendation Page on page 2) determined that a **Removal Action (RA)** was appropriate per the Contingent Removal Action Memo¹. The RA Contaminant of Concern (COC) is listed in the table above.

The **Work Plan** for Contingent Removal Actions³, supplemented by the Unique Work Package as reviewed by the Core Team^{1,3}, includes procedures, instructions, and applicable permits and notifications required to safely conduct the work. Erosion and runoff controls will be managed per the SWPPP⁴. Dust will be controlled during excavation and loading with misted water, as required, to allow no visible emissions.

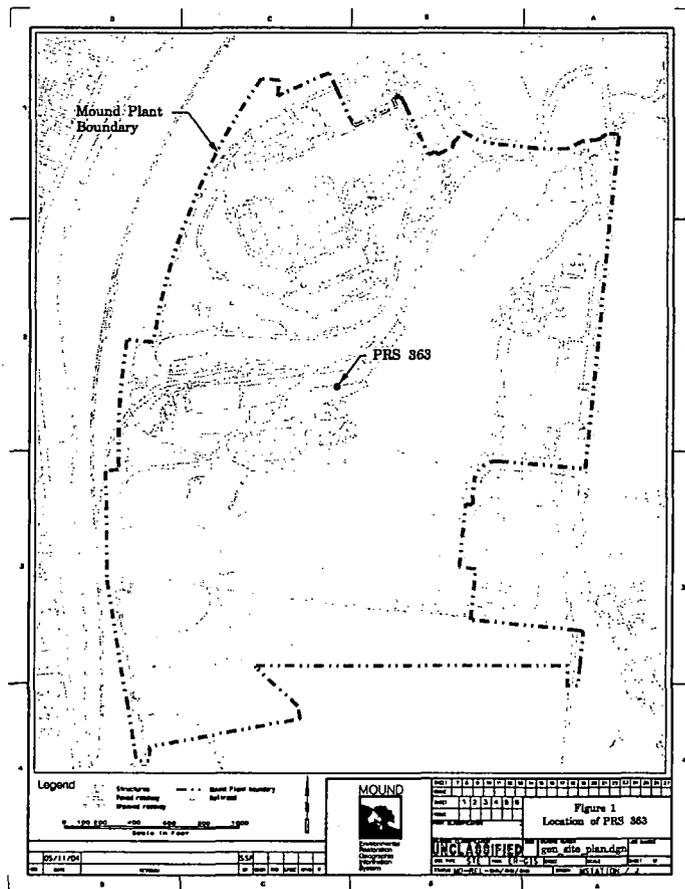
The RA will consist of excavation and removal of contaminated soil. Post-excavation sampling will be performed within the area per a Core Team approved **Verification Sampling & Analysis Plan (VSAP)**. Area

will be restored to original contour, as necessary, to prevent erosion.

Schedule. This Fact Sheet will be in public review for 30 days, ending October 23, 2004. The RA is planned for October 2004. A summary of the RA and 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 of approximately 3.8 yd³ (2.9 m³) of material, disposal, and verification are expected to cost less than \$10,000.

Additional information can be found in the public reading room, or by contacting Sue Smiley at 847-8350 ext. 318.



1 Action Memorandum/Engineering Evaluation/Cost Analysis, Contingent Removal Action (CRA) for Contaminated Soil, June 2002, Final; and CRA Addendum 1: Structures, Public Review Draft, April 2004.

2 OU5, Operational Area Phase I Investigation Non-AOC Field Report, Volume 1, June 1995. (pages 6-9); Volume II-App. A-G, June 1995. (pages 20-25)

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

4 Storm Water Pollution Prevention Plan

PUBLIC FACT SHEET

PRS 363: Plutonium-238 – Contaminated Area

MOUND PLANT PRS 363 Soil Contamination

RECOMMENDATION:

PRS 363 was an isolated Pu-238 hot spot identified during the site survey for the OU5, Non-AOC investigation (June 1994 - October 1994). No radioactive or hazardous waste generating processes are known to have occurred at the location of PRS 363. However, there is a 12-inch concrete storm sewer pipe near PRS 363, which transported a low-risk wastewater from SM Building to the site drainage ditch.*

The Core Team originally recommended Further Assessment for PRS 363. Subsequently, the cost of further investigation versus the cost of removing the potentially contaminated soils was evaluated. Cost estimates indicate that the cost of removal is not significantly greater than the cost of further assessment at PRS 363. Additionally Further Assessment findings may indicate the need for a Response (removal) Action, resulting in costs associated with both Further Assessment and Response Action. Therefore, the Core Team recommends a RESPONSE ACTION as a more cost-effective course of action for PRS 363.

CONCURRENCE:

DOE/MEMP:

Arthur W. Kleinrath 12/17/97
Arthur W. Kleinrath, Remedial Project Manager (date)

USEPA:

Timothy J. Fischer 12/17/97
Timothy J. Fischer, Remedial Project Manager (date)

OEPA:

Brian K. Nickel 12/18/97
Brian K. Nickel, Project Manager (date)

SUMMARY OF COMMENTS AND RESPONSES:

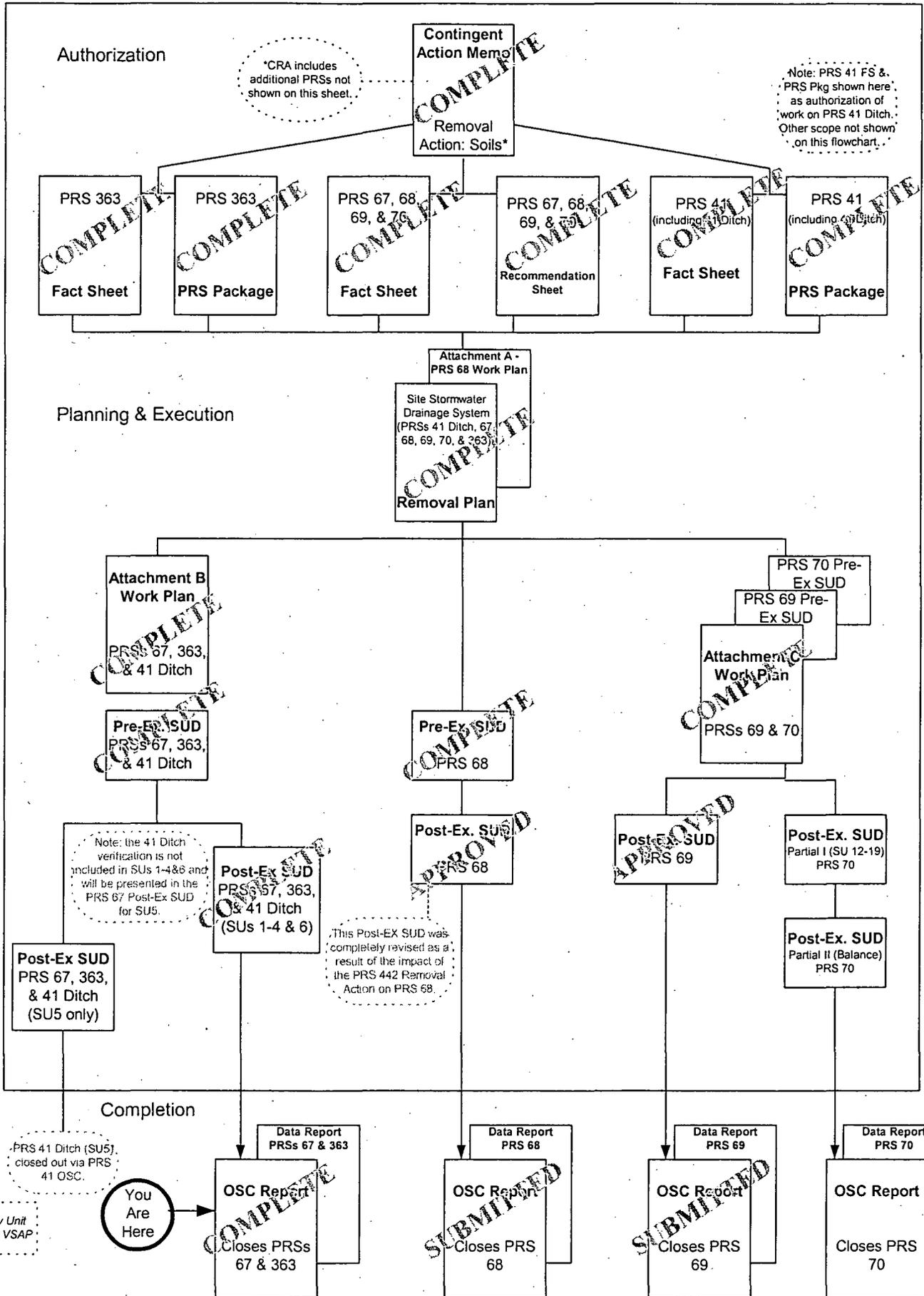
Comment period from 2/12/98 to 3/16/98

No comments were received during the comment period.

Comment responses can be found on page _____ of this package.

- * Low-risk wastewater pertains to the water carried by the 12-inch storm sewer pipe located near PRS 363, which transported storm water discharge from SM Building to the site drainage ditch. No known SM Building processes discharged to the storm water system. There are no known radioactive or hazardous waste generating processes in the vicinity of PRS 363. PRS 363 was an isolated Pu-238 hot spot identified during the site survey for OU5, Non-AOC investigation (June 1994-October 1994) and referenced in the Fact Sheet.

PRSs 67, 68, 69, 70, 363, & 41 Ditch

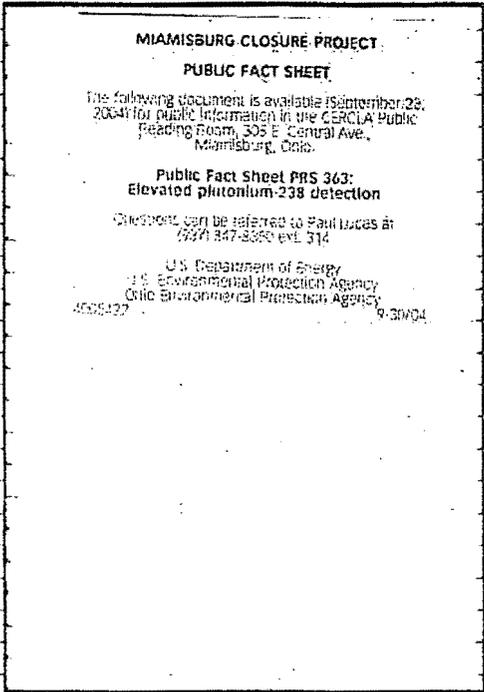


AFFIDAVIT OF PUBLICATION

State of Ohio

SS: CH2MHILL Mound

Montgomery County



Before me, the undersigned, a Notary public in and for said County, personally came Tina Sears, who being first duly sworn says she is the Legal Advertising Agent of the DAYTON DAILY NEWS, which she says is a newspaper of general circulation in Montgomery, Clark, Warren, Butler, Clinton, Greene, Preble, Miami, Darke, Mercer, Shelby, Fayette, Logan, Auglaize, and Champaign Counties, and State of Ohio, and she further says that the Legal Advertisement, a copy of which is hereunto attached, has been published in the said DAYTON DAILY NEWS

19 Times, 1 Time(s), last day of publication

being 9/30/04, and he/she further says

that the bona fide daily paid circulation of the said DAYTON DAILY NEWS was over Twenty-five Thousand (25,000) at the time the said advertisement was published, and that the price charged for same does not exceed the rates charged on annual contract for the like amount of space to other advertisers in the general display advertising columns.

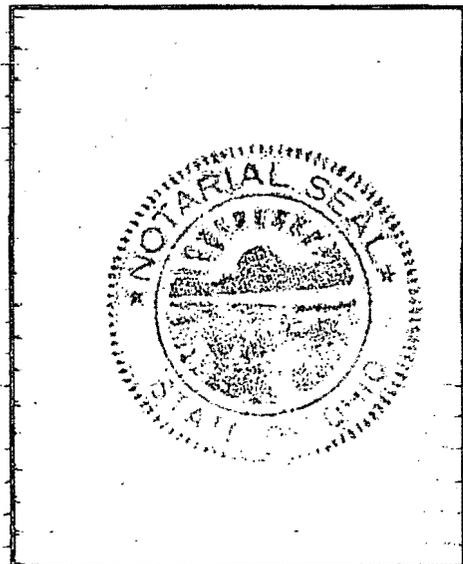
Signed: Tina Sears

Sworn or affirmed to, and subscribed before me, this

30 day of September 2004

In Testimony Whereof, I have hereunto set my hand and affixed my official seal, the day and year aforesaid.

Karen Mason
Notary Public in and for the State of Ohio



Technical Review of the Mound Site
Prepared for the Expericenter
by EHS TECHNOLOGY GROUP, LLC

Reference Document: Public Fact Sheet, PRS 363: Plutonium -238 Contaminated Area, September 2004, Public Review Draft

Purpose: The purpose of this document is to allow for the removal of plutonium 238 contaminated soils in the southwest portion of the site. This removal is proposed under the Contingent Removal Action Memorandum. (Action Memorandum, Engineering Evaluation/Cost Analysis, Contingent Removal Action for Contaminated Soil, June 2002).

Background: In 2002, the Action Memorandum, Engineering Evaluation/Cost analysis was prepared as a Contingent Removal Action for Contamination Soils. The idea was to streamline the cleanup process for specific types of soils contamination. The soils considered for the CRA would have similar properties including type of contamination, contaminant concentrations, and isolated areas of contamination. The Action Memorandum for these cleanups would be presented in the form of a Fact Sheet. The Fact Sheet would include all pertinent information associated with the PRS and cleanup, including a description/history of the PRS, contaminants of concern (COCs), risk criteria, background levels, cleanup objectives, environmental surveillance measures, verification sampling, schedule of activities, and cost estimate.

During the OU5 Non-AOC (Area of Concern) investigation (OU5, Operational Area Phase I Investigation Non-AOC Field Report, Volume 1, June 1995), PRS 363 was identified due to elevated plutonium-238. During this OU5 Investigation, surface soils were evaluated for hydrocarbons and radionuclides. Although no hydrocarbons were found at elevated levels, two sample locations had elevated levels of plutonium-238 (94 pCi/g and 85 pCi/g versus the cleanup objective of 55 pCi/g). No radioactive or hazardous waste generating processes are known to have occurred at the location of PRS 363. However, due to the limited amount of soils, removal is considered to be more cost effective than further investigation.

Technical Assessment: EHS has had the opportunity to review this fact sheet for PRS 363. EHS concurs that a limited cleanup is more cost efficient than further investigation and agrees with the actions outlined in the Fact sheet.