

# MOUND



**Environmental  
Restoration  
Program**

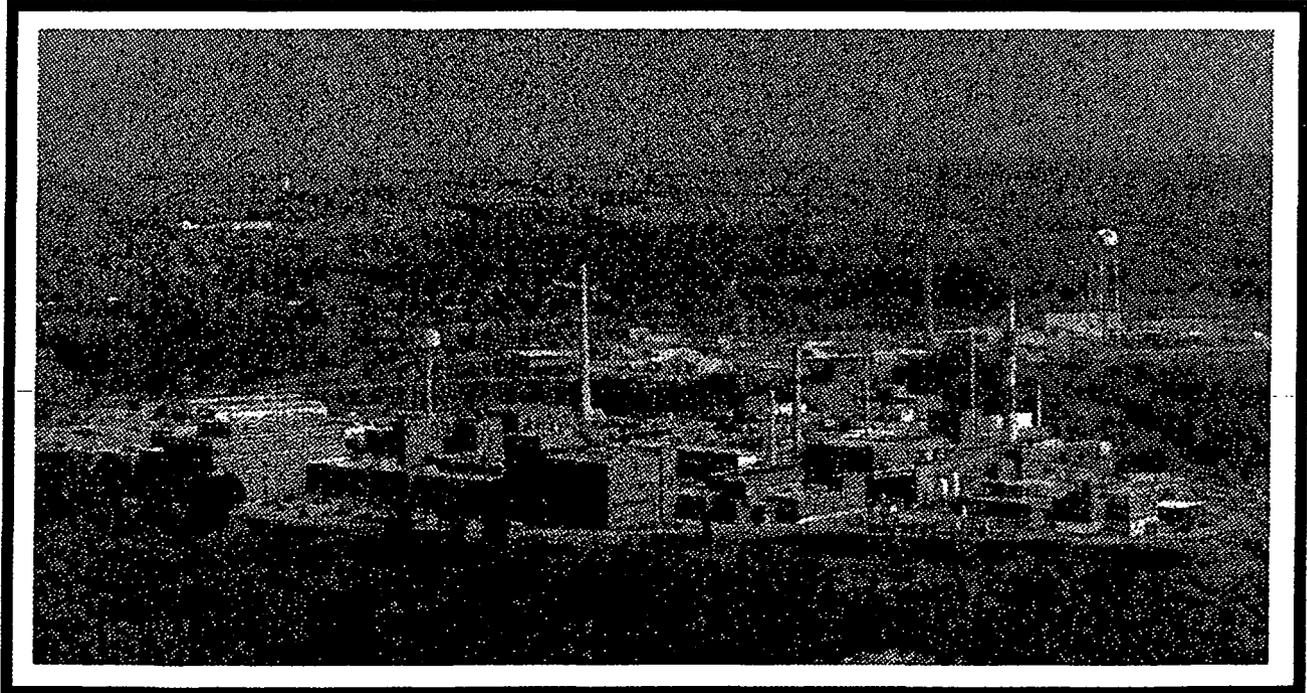


**Ohio EPA**

# MOUND PLANT

## Potential Release Site Package

### PRS # 349



**MOUND**



Environmental  
Restoration  
Program

# MOUND PLANT POTENTIAL RELEASE SITE PACKAGE

## *Notice of Public Review Period*

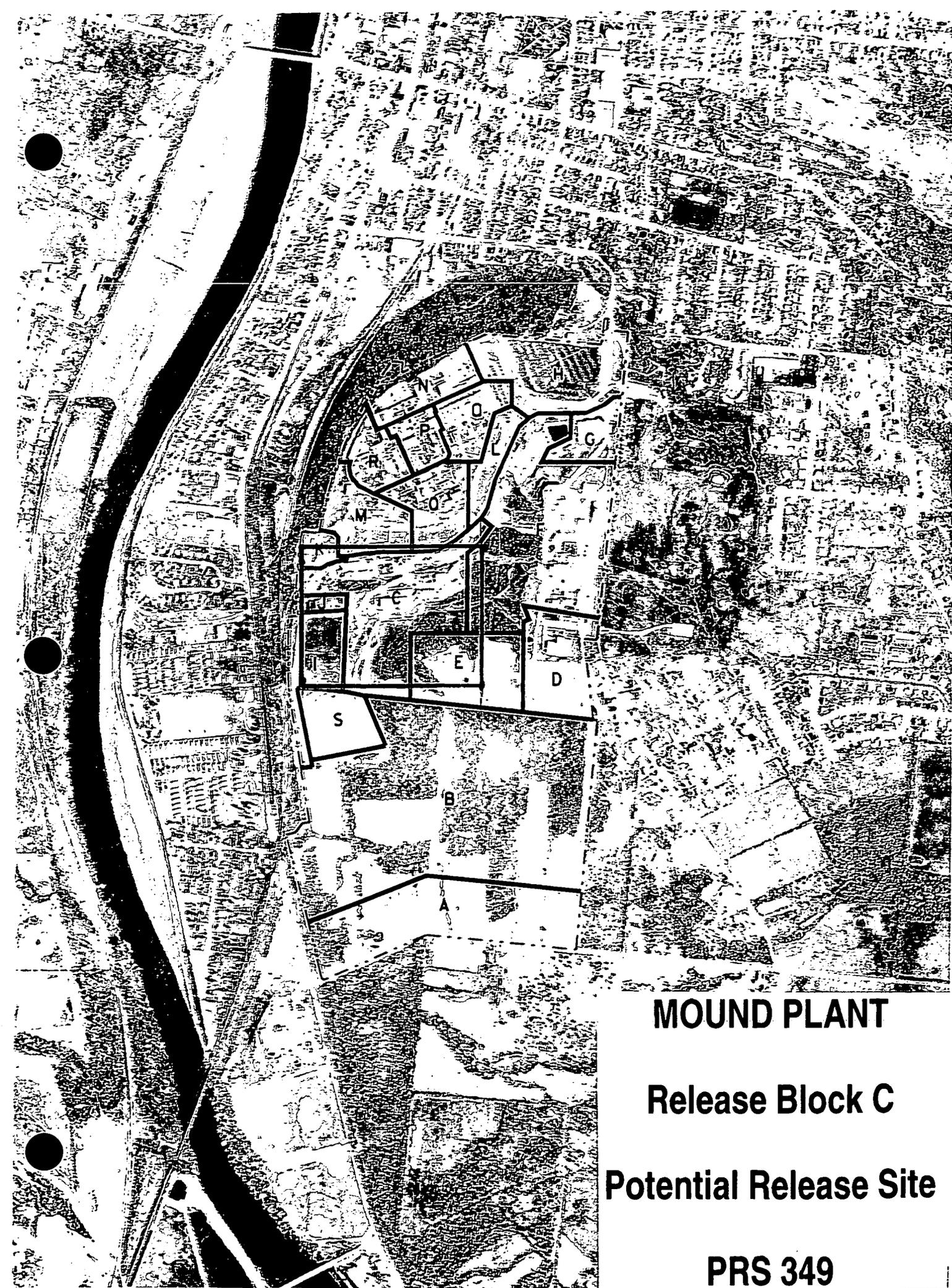


The following potential release site (PRS) packages will be available for public review in the CERCLA Public Reading Room, 305 E. Central Ave., Miamisburg, Ohio beginning April 3, 1997. Public comment will be accepted on these packages from April 3, 1997, through May 8, 1997.

- |                 |   |
|-----------------|---|
| <b>PRS 15:</b>  | <b>Former Waste Treatment Site - Area C (lithium burn area)</b> |
| <b>PRS 74:</b>  | <b>Former Waste Storage Site - Quonsot Hut</b>                  |
| <b>PRS 330:</b> | <b>Former Tank Site - Building 2 Fuel Oil Tank</b>              |
| <b>PRS 349:</b> | <b>Soil Contamination</b>                                       |
| <b>PRS 371:</b> | <b>Soil Contamination</b>                                       |
| <b>PRS 391:</b> | <b>Soil Contamination</b>                                       |
| <b>PRS 395:</b> | <b>Soil Contamination</b>                                       |
| <b>PRS 396:</b> | <b>Soil Contamination</b>                                       |

Questions can be referred to Mound's Community Relations at (937) 865-4140.

REV	DESCRIPTION	DATE
<b>0</b> <b>PUBLIC RELEASE</b>	Available for comment.	<b>Dec. 17, 1996</b>
<b>1</b> <b>FINAL</b>	Comment period expired. No comments. Recommendation page annotated.	<b>May 13, 1997</b>

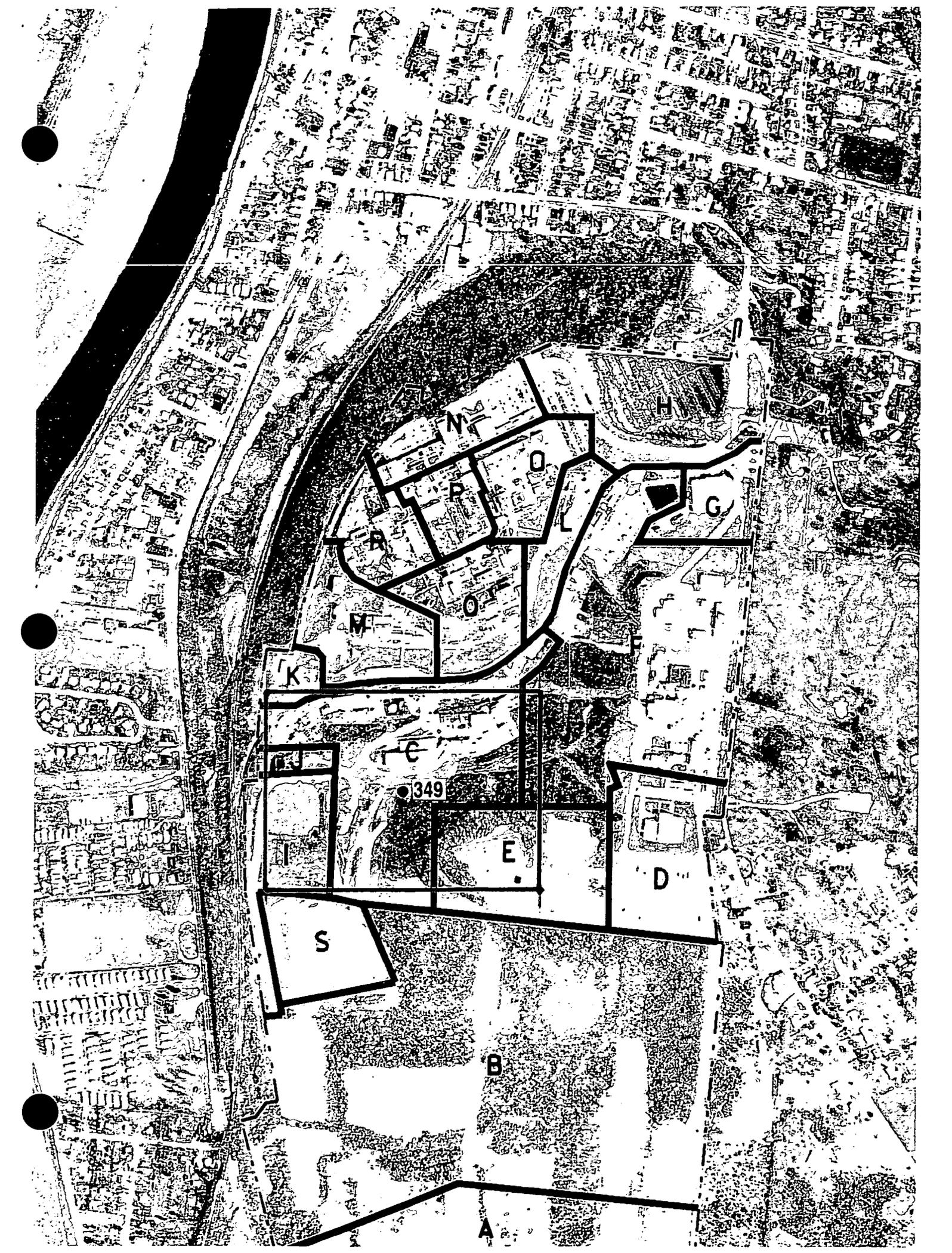


**MOUND PLANT**

**Release Block C**

**Potential Release Site**

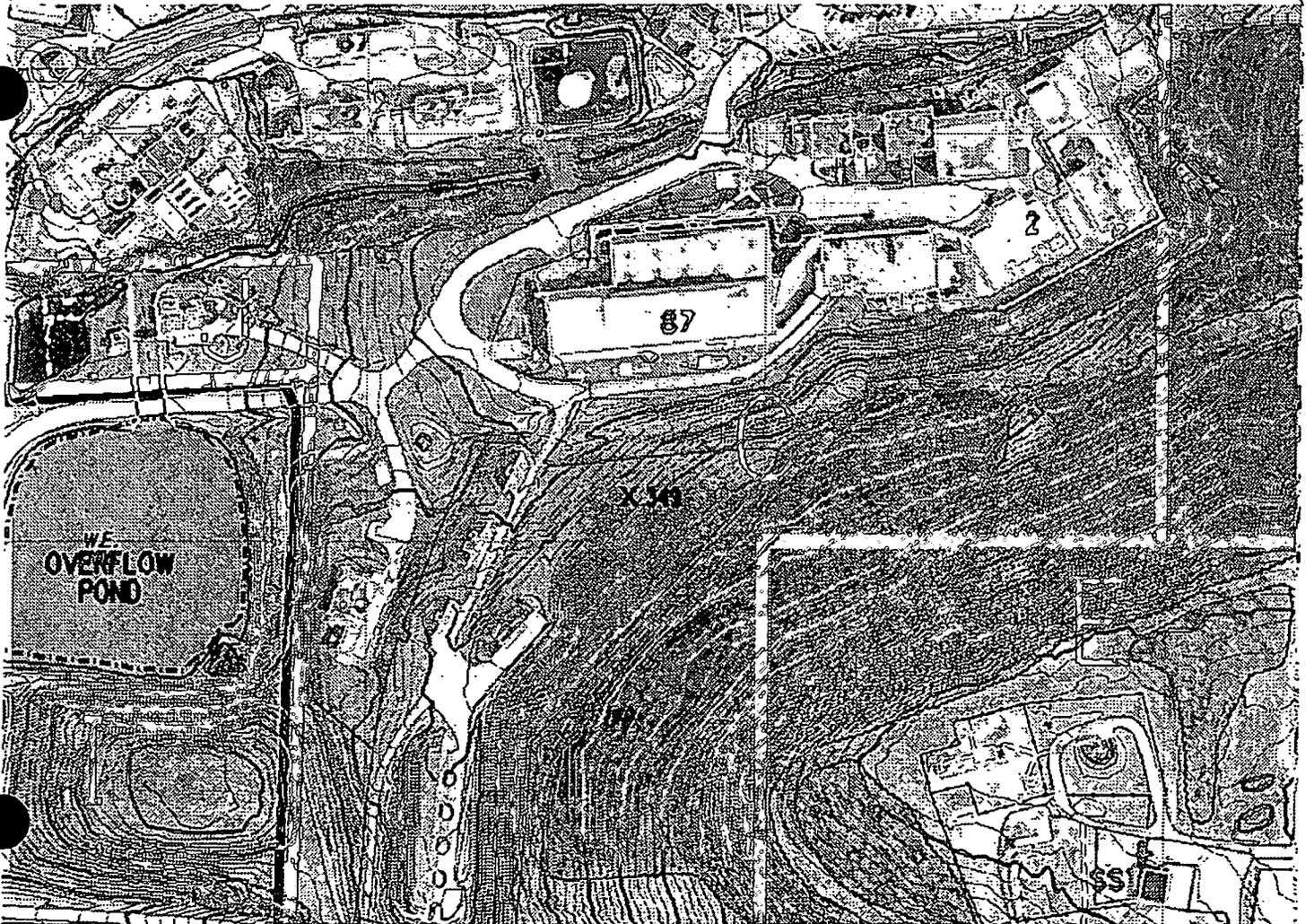
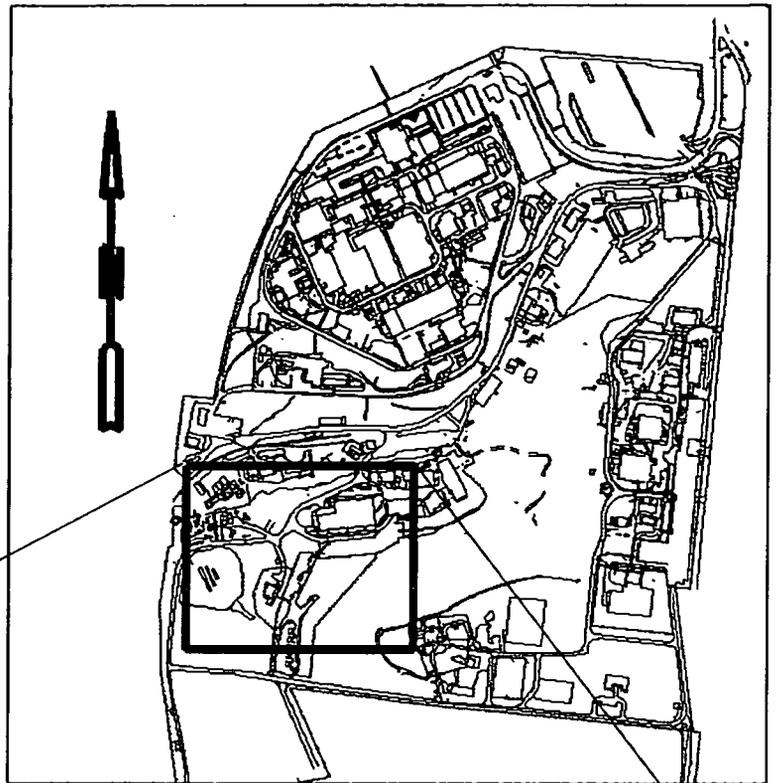
**PRS 349**

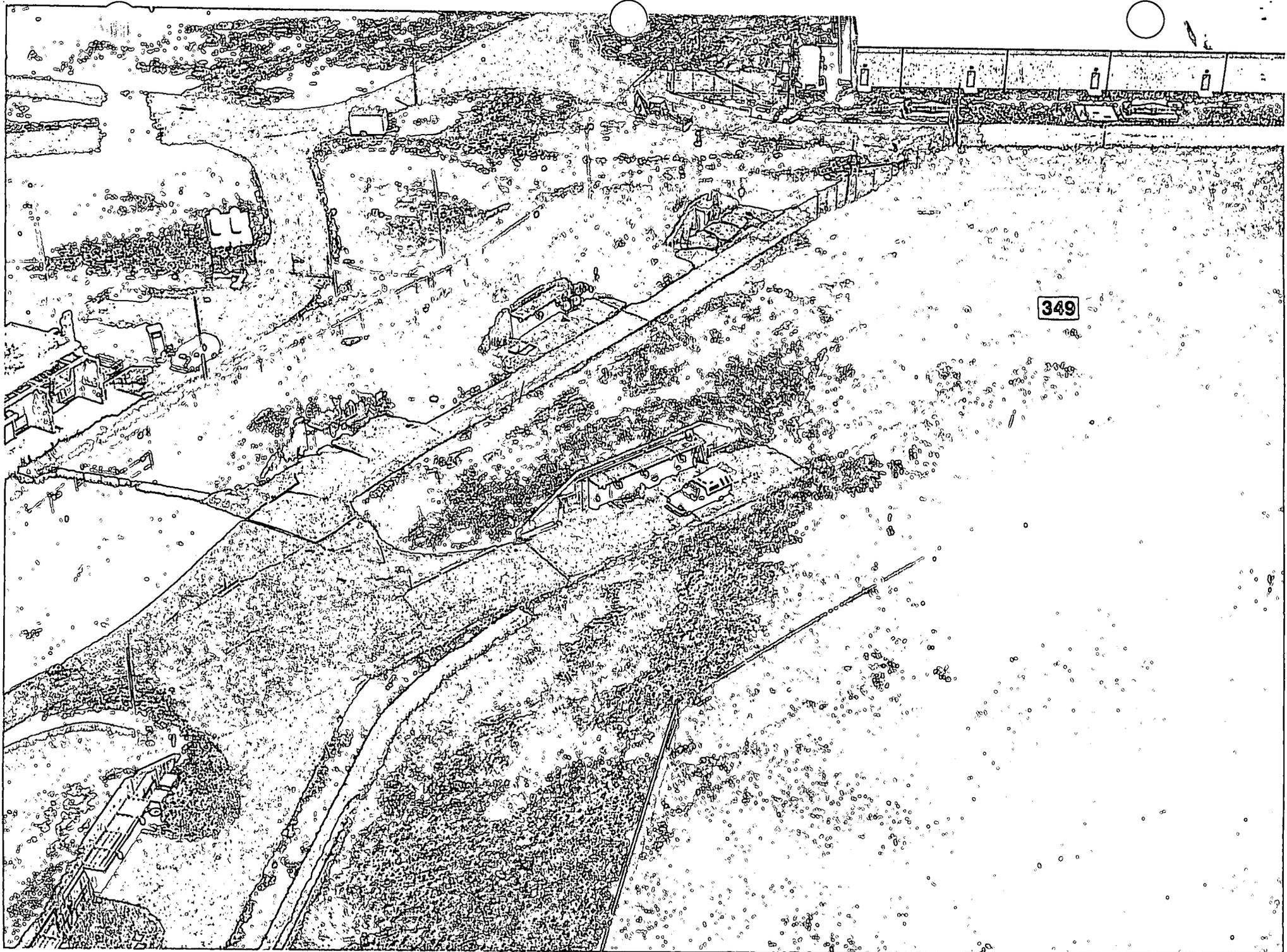


# Mound Plant Release Block C

Potential Release Site

**PRS 349**





349

## PRS 349

### PRS HISTORY:

Potential Release Site (PRS) 349 is an undeveloped wooded site located in the southern sector of the Mound Plant (see enclosed map), with no known history of radiological or hazardous chemical processes or activities. This location was identified as a PRS due to FIDLER radiological detections found and the Mound Soil Screening Analysis as part of the June 1994 OU5, Operational Area Phase I Investigation Non-AOC Field Report.<sup>1</sup>

### CONTAMINATION:

#### I. Investigations:

*OU5, Non-AOC Mound Soil Screening*<sup>1</sup> facility data  
*OU5, Non-AOC PETREX Soil Gas* data<sup>1</sup>

#### II. Potential Contamination:

Contaminant	Maximum Concentration Detected	Guideline Criteria
Plutonium-238	26 pCi/g (in surface soil)	25 pCi/g (Mound ALARA)
Thorium-232	1.3 pCi/g (in surface soil)	5 pCi/g <sup>2</sup>

The PETREX soil gas investigation of PRS 349 found no elevated hydrocarbon readings.<sup>1</sup>

### READING ROOM REFERENCES:

1) OU5, Non-AOC Field Report: Volume II, June 1995. (pages 5-11)

### OTHER REFERENCES:

2) Code of Federal Regulations, 40 CFR 192.41 and 40 CFR 192.12.

### PREPARED BY:

Eric Horstman, Member of EG&G Technical Staff

**MOUND PLANT  
PRS 349  
SOIL CONTAMINATION**

**RECOMMENDATION:**

Potential Release Site (PRS) 349 was identified due to detections of plutonium found during the Mound Soil Screening Analysis performed as part of the June 1994 OU5, Operational Area Phase I Investigation. This location is an undeveloped wooded site located in the southern sector of the Mound Plant, with no known history of radiological or hazardous chemical processes or activities. All measured thorium concentrations are below regulatory criteria and plutonium concentrations are below the  $10^{-5}$  Risk Based Guideline Value. Therefore, NO FURTHER ASSESSMENT is recommended for PRS 349.

**CONCURRENCE:**

DOE/MEMP:

Arthur W. Kleinrath 2/19/97  
Arthur W. Kleinrath, Remedial Project Manager (date)

USEPA:

Timothy J. Fischer 2/19/97  
Timothy J. Fischer, Remedial Project Manager (date)

OEPA:

Brian K. Nickel 2/19/97  
Brian K. Nickel, Project Manager (date)

**SUMMARY OF COMMENTS AND RESPONSES:**

Comment period from 4/3/97 to 5/8/97

No comments were received during the comment period.

Comment responses can be found on page \_\_\_\_\_ of this package.

**REFERENCE MATERIAL**  
**PRS 349**

Environmental Restoration Program

**OPERABLE UNIT 5  
OPERATIONAL AREA PHASE I INVESTIGATION  
NON-AOC FIELD REPORT**

**MOUND PLANT  
MIAMISBURG, OHIO**

**VOLUME II - APPENDICES A-G**

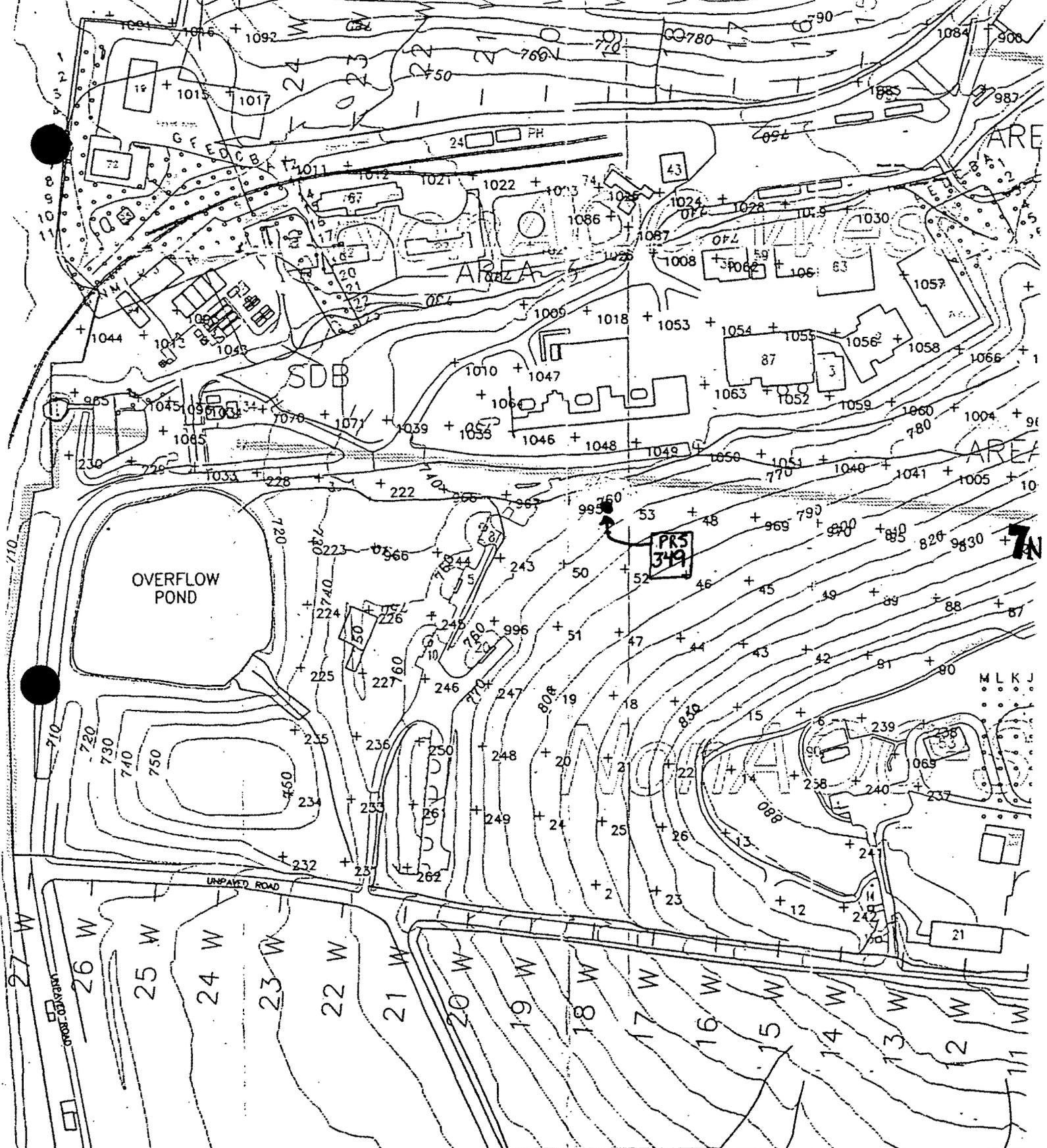
June 1995

Final (Revision 0)

**U.S. Department of Energy  
Ohio Field Office**



EG&G Mound Applied Technologies

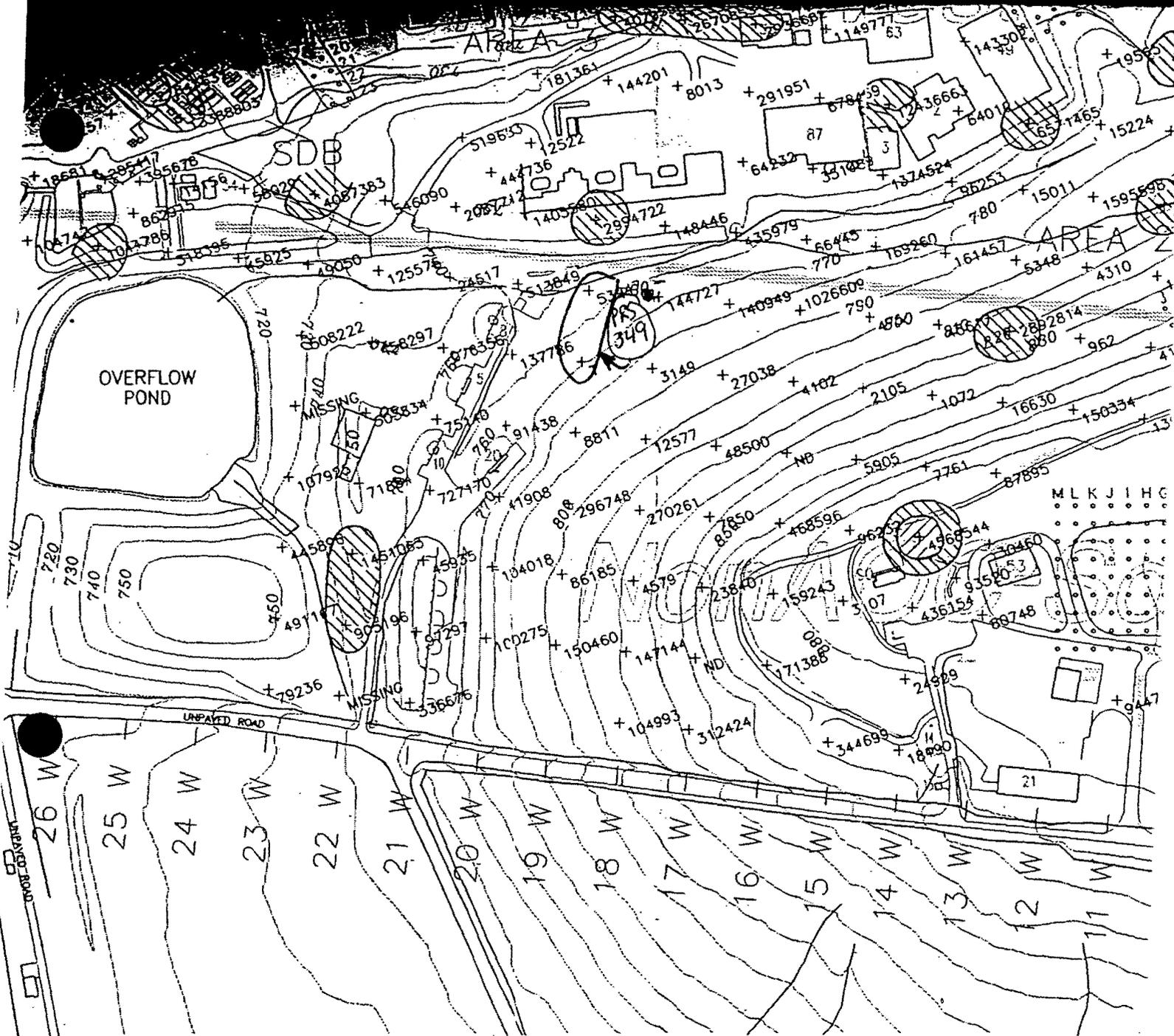


NonAOC/Operable Unit-5  
 USDOE Mound Facility  
 Miamisburg, Ohio  
**PLATE 1 - SAMPLING LOCATIONS**  
 PETREX FINGERPRINT TECHNOLOGY® Page 6

APPENDIX D

RADIOLOGICAL DATA (FIDLER SURVEY MOUND SOIL SCREENING FACILITY DATA) FOR NON-AOC POINTS

SMPID	FIDLER SURVEY DATA					MOUND SOIL SCREENING FACILITY DATA			
	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
<del>07N05</del>	<del>253.5</del>	<del>125</del>	<del>12.48</del>	<del>8.5</del>	<del>NC</del>	<del>11</del>	<del>a</del>	<del>0.8</del>	<del>a</del>
<del>07N06</del>	<del>122.2</del>	<del>85</del>	<del>5.59</del>	<del>4.5</del>	<del>NC</del>	<del>3</del>	<del>a</del>	<del>0.3</del>	<del>a</del>
<del>07N07</del>	<del>122.2</del>	<del>120</del>	<del>5.59</del>	<del>5.5</del>	<del>NC</del>	<del>12</del>	<del>a</del>	<del>0.9</del>	<del>a</del>
<del>07N11</del>	<del>179.4</del>	<del>170</del>	<del>10.92</del>	<del>9.5</del>	<del>NC</del>	<del>0</del>	<del>a</del>	<del>0.7</del>	<del>a</del>
<del>07N12</del>	<del>179.4</del>	<del>175</del>	<del>10.92</del>	<del>10.5</del>	<del>NC</del>	<del>24</del>	<del>a</del>	<del>0.9</del>	<del>a</del>
<del>07N13</del>	<del>179.4</del>	<del>120</del>	<del>10.92</del>	<del>6.5</del>	<del>NC</del>	<del>7</del>	<del>a</del>	<del>0.6</del>	<del>a</del>
<del>07N14</del>	<del>179.4</del>	<del>100</del>	<del>10.92</del>	<del>8.5</del>	<del>NC</del>	<del>27</del>	<del>b</del>	<del>0.8</del>	<del>a</del>
<del>07N15</del>	<del>179.4</del>	<del>140</del>	<del>10.92</del>	<del>9.5</del>	<del>NC</del>	<del>6</del>	<del>a</del>	<del>1.2</del>	<del>a</del>
<del>07N16</del>	<del>179.4</del>	<del>170</del>	<del>10.92</del>	<del>10.0</del>	<del>NC</del>	<del>13</del>	<del>a</del>	<del>0.9</del>	<del>a</del>
<del>07N17</del>	<del>179.4</del>	<del>150</del>	<del>10.92</del>	<del>8.5</del>	<del>NC</del>	<del>0</del>	<del>a</del>	<del>0.8</del>	<del>a</del>
<del>07N18</del>	<del>130</del>	<del>150</del>	<del>6.5</del>	<del>10.0</del>	<del>NC</del>	<del>26</del>	<del>b</del>	<del>1.3</del>	<del>a</del>
<del>07N19</del>	<del>130</del>	<del>85</del>	<del>6.5</del>	<del>5.5</del>	<del>NC</del>	<del>20</del>	<del>a</del>	<del>1.1</del>	<del>a</del>
<del>07N20</del>	<del>157.3</del>	<del>120</del>	<del>8.45</del>	<del>6.0</del>	<del>NC</del>	<del>12</del>	<del>a</del>	<del>0.6</del>	<del>a</del>
<del>07N21</del>	<del>157.3</del>	<del>90</del>	<del>8.45</del>	<del>7.5</del>	<del>NC</del>	<del>7</del>	<del>a</del>	<del>0.7</del>	<del>a</del>
<del>07N22</del>	<del>143</del>	<del>95</del>	<del>6.63</del>	<del>5.0</del>	<del>NC</del>	<del>5</del>	<del>a</del>	<del>0.4</del>	<del>a</del>
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<del>07N24</del>	<del>143</del>	<del>100</del>	<del>6.63</del>	<del>5</del>	<del>NC</del>	<del>11</del>	<del>b</del>	<del>1.0</del>	<del>a</del>
<del>07N25</del>	<del>143</del>	<del>70</del>	<del>6.63</del>	<del>5</del>	<del>NC</del>	<del>25</del>	<del>a</del>	<del>0.8</del>	<del>a</del>
<del>07N26</del>	<del>143</del>	<del>90</del>	<del>6.63</del>	<del>4.5</del>	<del>NC</del>	<del>19</del>	<del>a</del>	<del>0.6</del>	<del>a</del>
<del>07N27</del>	<del>143</del>	<del>110</del>	<del>6.63</del>	<del>8.5</del>	<del>NC</del>	<del>10</del>	<del>a</del>	<del>0.5</del>	<del>a</del>
<del>08N01</del>	<del>253.5</del>	<del>175</del>	<del>12.48</del>	<del>9.5</del>	<del>NC</del>	<del>4</del>	<del>a</del>	<del>0.9</del>	<del>a</del>
<del>08N02</del>	<del>122.2</del>	<del>75</del>	<del>5.59</del>	<del>4.5</del>	<del>NC</del>	<del>WIPE</del>	<del>c</del>	<del>WIPE</del>	<del>c</del>
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<del>08N04</del>	<del>130</del>	<del>80</del>	<del>6.5</del>	<del>3.5</del>	<del>NC</del>	<del>WIPE</del>	<del>c</del>	<del>WIPE</del>	<del>c</del>

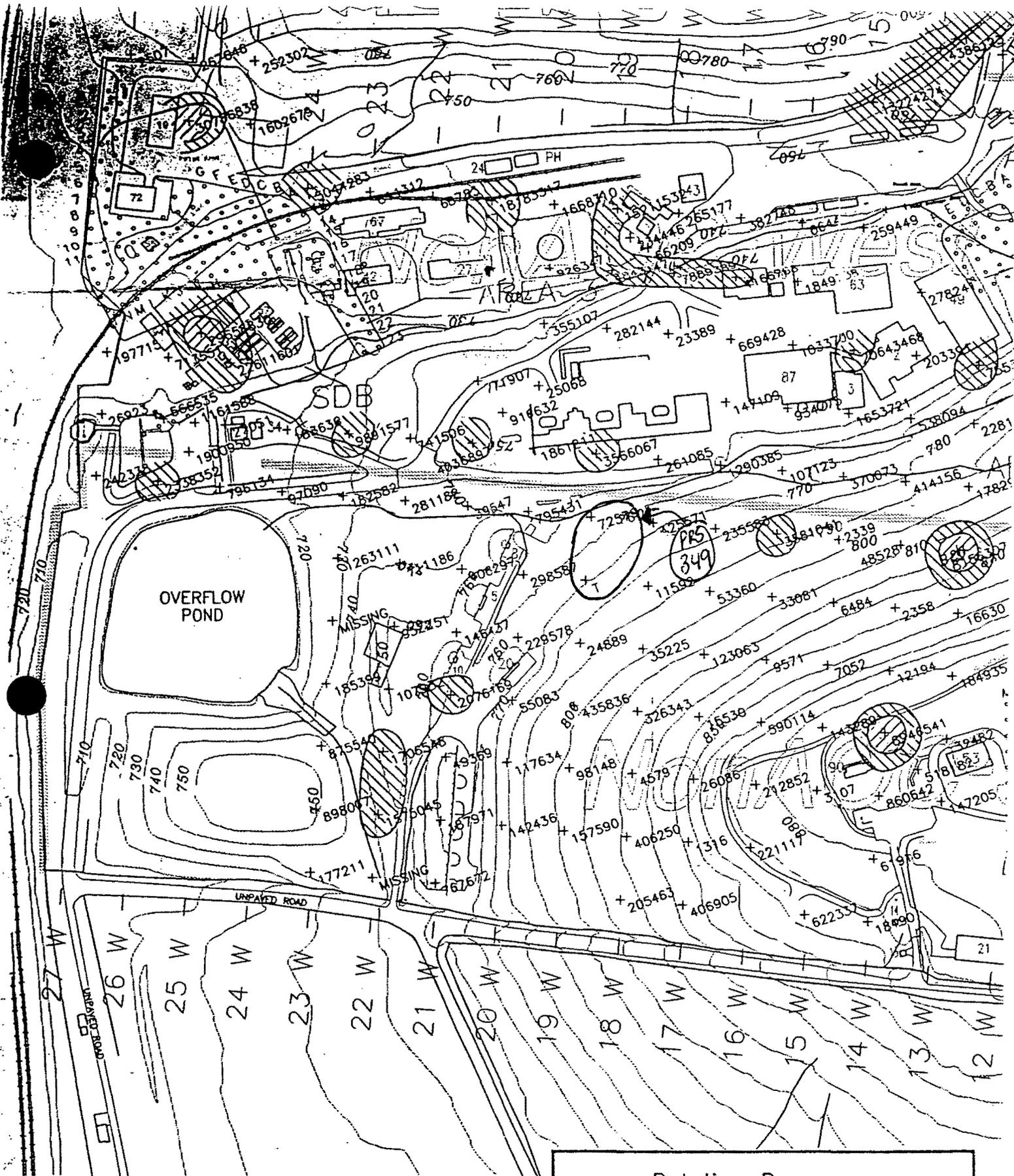


by: Incipiente LLC S 00 ado 80215 -0090	Drawn By: JCS	Project #: 2114E
	Checked By:	Date: November 2, 1994
	Project Manager: PCB	File Name: 2114-2.dwg

Relative Response  
 Total Aromatic Hydrocarbons  
  
 Plate 2

N
2
8





Relative Response  
 Total C5-C11  
 Petroleum Hydrocarbons

Drawn By:   
 Project #:   
 .ICS 2114E

