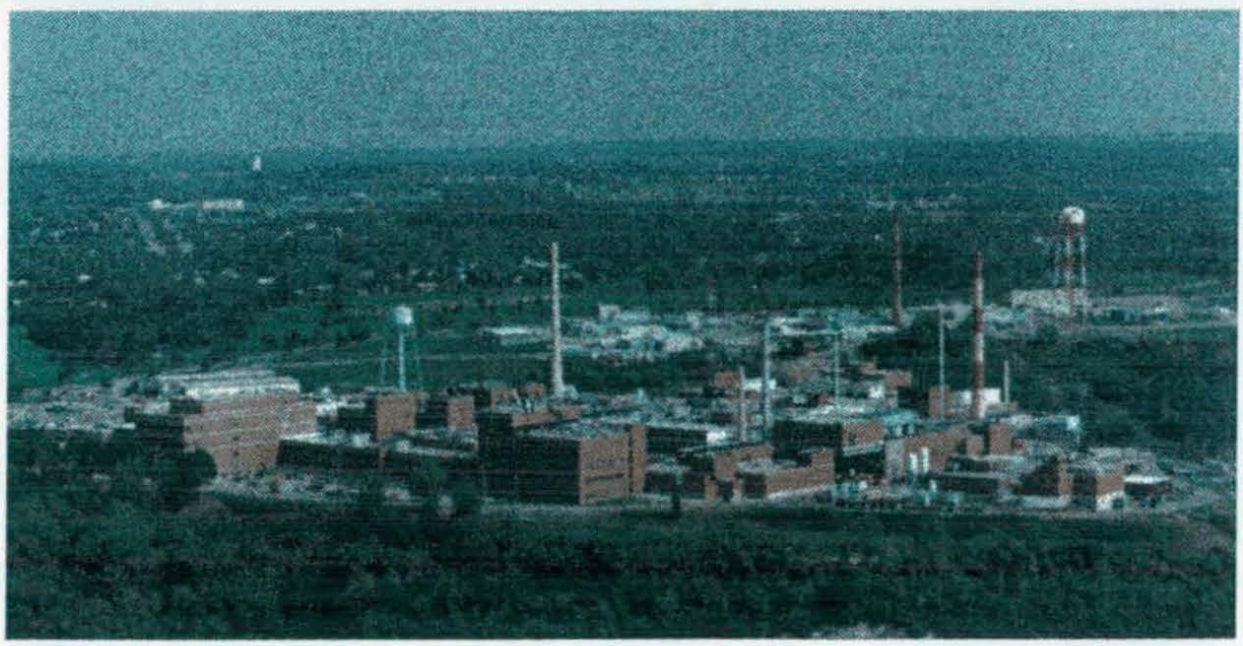
EG&G MOUND-30-03-03-03--9703120050

MOUND

Environmental
Restoration
Program

OhioEPA

# MOUND PLANT
## Potential Release Site Package
## PRS # 24



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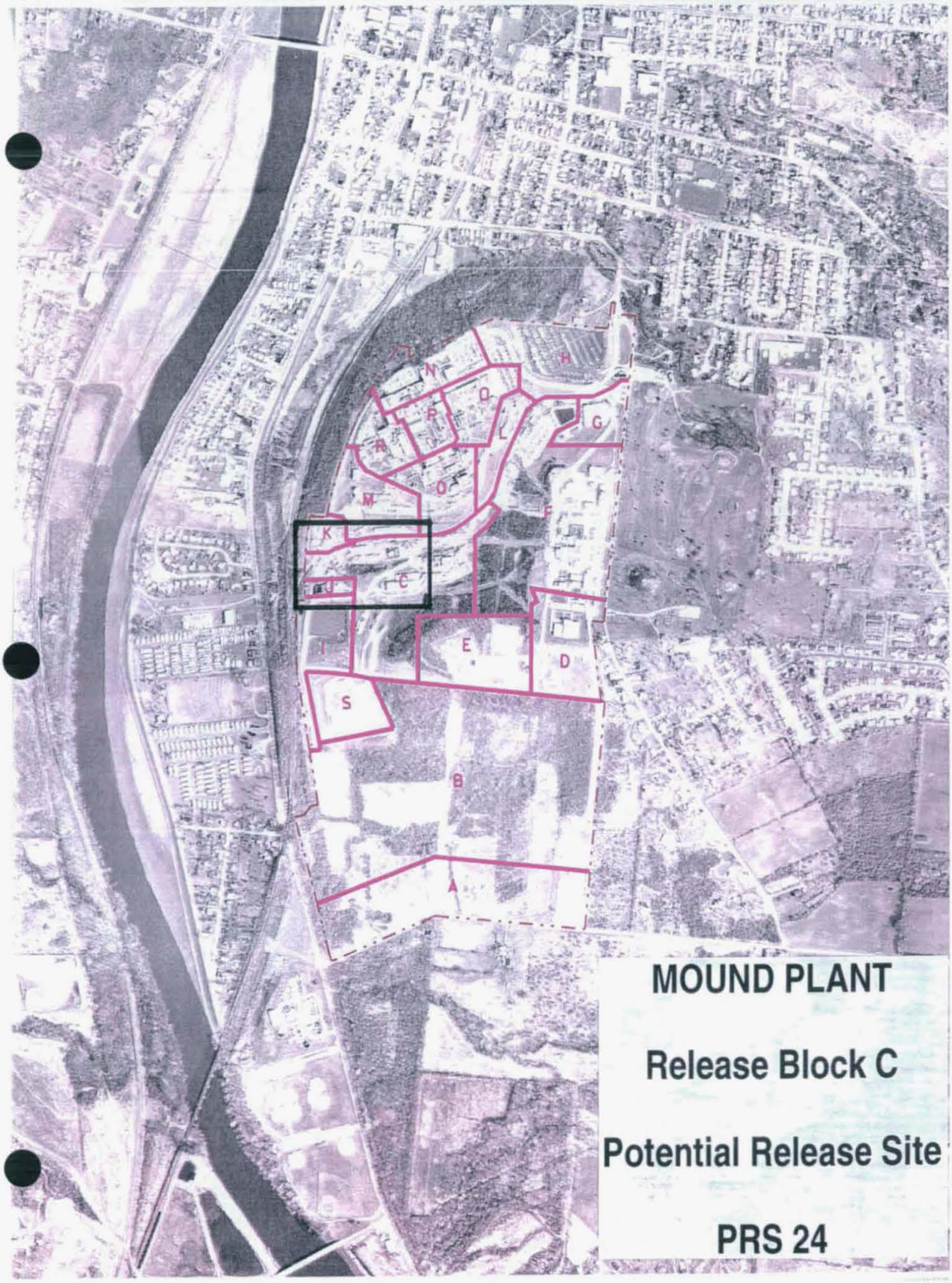
|---|---|---|
| PUBLIC RELEASE<br>0 | Available for comment. | Dec. 29, 1996 |
| FINAL<br>1 | | |

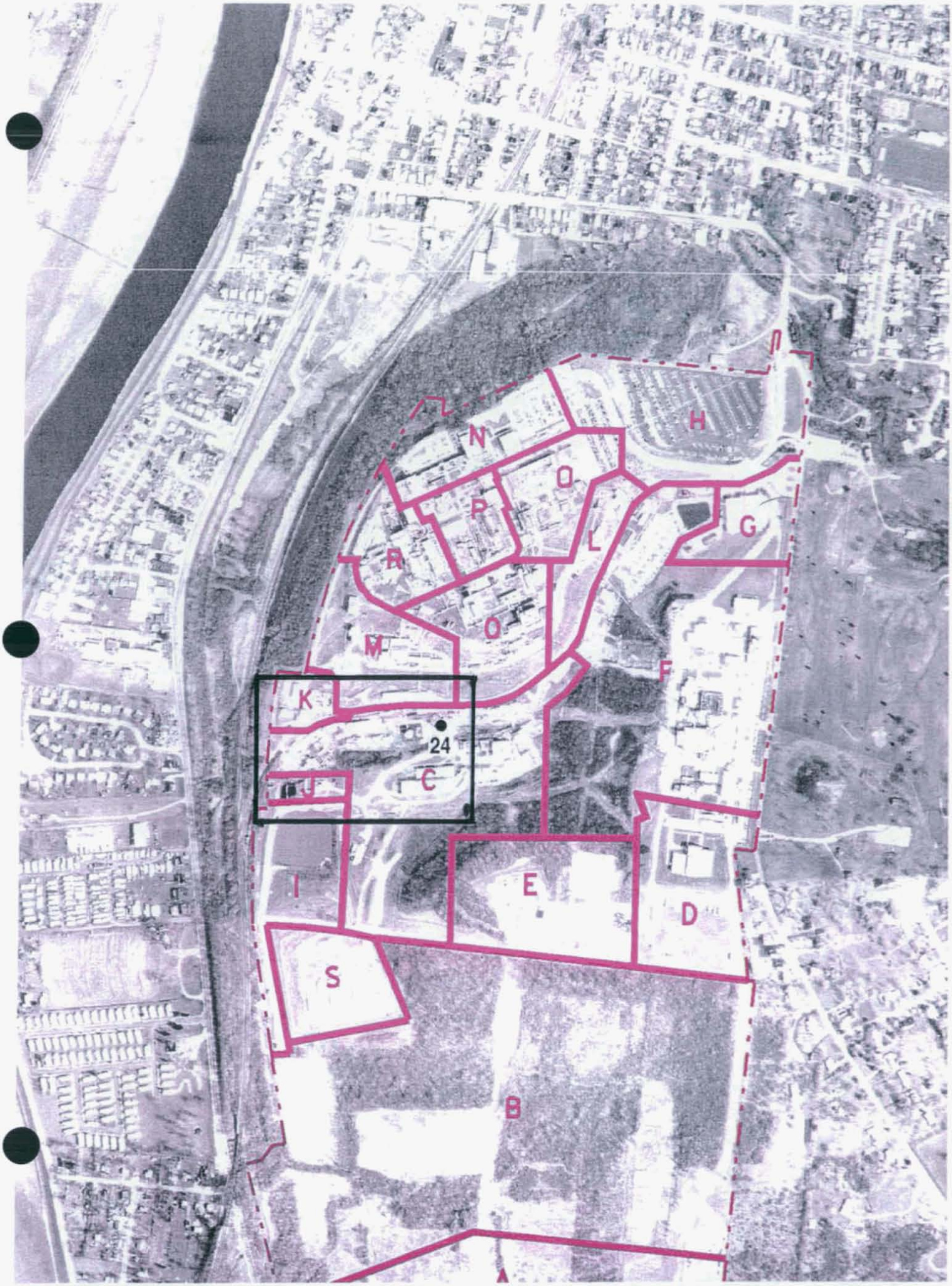



# MOUND PLANT

## Release Block C

## Potential Release Site

## PRS 24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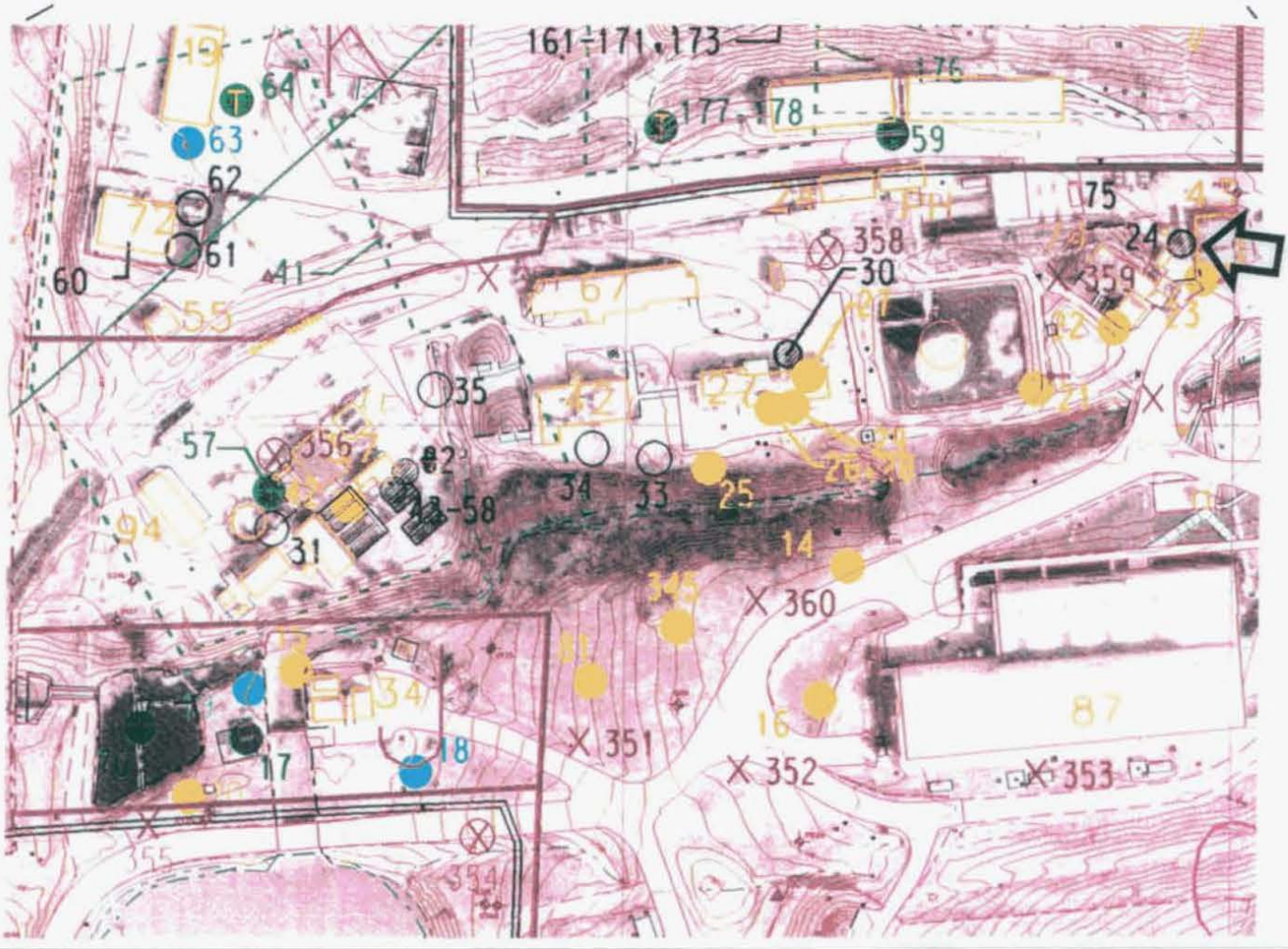
# MOUND PLANT

## Release Block C

## Potential Release Site

## PRS 24




24

# PRS 24

## PRS HISTORY:

PRS 24, the former Building 43 Solvent Storage Tank,[1] is located in the lower valley area, on the west side of Building 43. It was identified in the Mound Plant Underground Storage Tank Program Plan and Regulatory Status Review as a Solvent Tank (Tank 221)[2] originally constructed to store acetone or alcohol solvents for use in Building 43. The stainless-steel tank was never used. At the time of removal, in 1990, it still contained the water used during the original hydrostatic testing of the tank. No formal closure report was generated at the time of removal. The soils area just northeast of PRS 24 has a history of plutonium and thorium contamination and is addressed by PRS 75 (the Rail Siding).

## CONTAMINATION:

In 1990, nine soil screening samples taken during removal of the tank showed a maximum thorium (Th-232) value of 1.5 pCi/g and a maximum plutonium (Pu-238) value of 42 pCi/g.[4] The Mound Plant ALARA for Pu-238 is 25 pCi/g and the regulatory value for subsurface Th-232 is 15 pCi/g.[5]

The OU5, Operational Area Investigation, Non-AOC field investigation, conducted in 1994,[3] included a field instrument for detection of low energy radiation (FIDLER) survey, surface soil sampling and analysis using the Mound Plant soil screening facility, and a passive soil gas survey to detect volatile and semi-volatile organic compounds (the PETREX soil gas methods indicate the relative presence of a substance, but do not yield a quantitative concentration of that substance). The OU5 survey included 3 wipes (for rad) and one soil gas sample (PETREX) in the vicinity of PRS 24. Results showed:

- No evidence of radionuclide contamination.
- Moderate readings (relative to other soil gas in the area) of total aromatic, petroleum and halogenated hydrocarbons. No evidence of semi-volatile hydrocarbons.

## READING ROOM REFERENCES:


1) OU9, Site Scoping Report: Volume 12 - Site Summary Report, Final, December 1994. (pages 5-8.1)
2) Mound Plant Underground Storage Program Plan and Regulatory Status Review, Final, November 1992. (pages 9-13)
3) OU5, Operational Area Phase I Investigation, Non-AOC Field Report, Final, June 1995. (pages 14-18.3)


## OTHER REFERENCES:


4) Soil Screening Facility Results, December 4, 1990. (pages 19-20)
5) Code of Federal Regulations, 40 CFR 192.12 and 40 CFR 192.41.


## PREPARED BY:


Alexander Bray, Member of EG&G Technical Staff
Irwin D. Dumtschin, Member of EG&G Technical Staff

# MOUND PLANT
# PRS 24
# SOLVENT STORAGE TANK - BUILDING 43

**RECOMMENDATION:**

PRS 24 was identified as a solvent storage tank (tank 221) that was constructed to store acetone or alcohol solvents for use in Building 43. The proposed use of Building 43, to purify explosive materials, never took place. The tank was never used. In fact, at the time of removal, in 1990, it still contained the water used during the original hydrostatic testing of the tank. Sampling conducted in 1990 and 1994 failed to detect radionuclides above $10^{-5}$ Risk Based Guideline Values. Therefore, NO FURTHER ASSESSMENT is recommended for PRS 23.

**CONCURRENCE:**

DOE/MB: Arthur W. Kleinrath 12/18/96
Arthur W. Kleinrath, Remedial Project Manager (date)

USEPA: Timothy J. Fischer 12/18/96
Timothy J. Fischer, Remedial Project Manager (date)

OEPA: Brian K. Nickel 12/18/96
Brian K. Nickel, Project Manager (date)

**SUMMARY OF COMMENTS AND RESPONSES:**

Comment period from _____ to _____

☐ No comments were received during the comment period.

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

# REFERENCE MATERIAL
# PRS 24

# OPERABLE UNIT 9
# SITE SCOPING REPORT:
# VOLUME 12 - SITE SUMMARY REPORT

## MOUND PLANT
## MIAMISBURG, OHIO

December 1994

U.S. DEPARTMENT OF ENERGY
OHIO FIELD OFFICE

ENVIRONMENTAL RESTORATION PROGRAM
EG&G MOUND APPLIED TECHNOLOGIES

FINAL

## Table V.4. Potential Release Sites not Recommended for ER, D&D, or Operational Programs

| No. | Site Name | Status | Historic Activities | | Comment |
|---|---|---|---|---|---|
| | | | Evidence of Release | Response Authority | |
| 24 | Building 43 Solvent Storage Tank (Tank 221) | Historical | No | NA | Never used Removed |
| 30 | Building 27 Diesel Fuel Storage Tank (Tank 123) | Historical | No | NA | Actually a propane tank |
| 148 | HH Building Solidification Unit | Historical | No | AEA | D&D early 1990s |
| 149 | HH Building Pilot incinerator | Historical | No | AEA | Removed early 1950s |
| 170 | Off-Gas Treatment System Leaf Solution Filter | Historical | No | NA | Removed 1988 |
| 171 | Off-Gas Treatment System Iodine Absorption Filter | Historical | No | NA | Removed 1988 |
| 173 | Cyclone Incinerator | Historical | No | AEA | D&D 1990 |
| 213 | T Building Solidification Unit | Historical | No | AEA | D&D early 1970s |
| 294 | WS Building Solidification Unit | Historical | No | NA | D&D 1985 |
| 295 | Building 38 Solid Radioactive Waste Compactors (2 units) | Historical | No | AEA | D&D 1988 |
| 301 | Building 38 In-Line Incinerator | Historical | Yes | AEA | D&D 1988 |
| 303 | Warehouse 14 (AKA Pad 14) | Grounds | No | AEA | |
| 320 | Dayton Unit I | Historical | No | NA | NM |
| 321 | Dayton Unit II | Historical | No | NA | NM |
| 322 | Dayton Unit III | Historical | Yes | FUSRAP | |
| 323 | Dayton Unit IV | Historical | Yes | FUSRAP | |
| 324 | Dayton Warehouse | Historical | No | NA | NS |
| 325 | Scioto Facility (Marion) | Historical | No | NA | Never used |

AEA - Atomic Energy Act of 1954
D&D - Action to be taken by Mound Decommission and Decontamination Program
FUSRAP - Formally Utilized Sites Remedial Action Program
NM - Not Manhattan Project related
NS - Nothing suspected from process knowledge

## Table A.1. Comprehensive Tabulation of Potential Release Sites

| Description of History and Nature of Waste Handling | | | | | | Hazardous Conditions and Incidents | | | Environmental Data | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | Site Name | Location | Status | Potential Hazardous Substances | Ref | Releases | Media | Ref | Analytes[a] | Results | Ref |
| 20 | Building 34 Aviation Fuel Storage Tank (Tank 219) | H-5 | Historical | Aviation fuel | 3, 5, 18 | Tank removed, VOC residuals | | 7, 18, 22 | 3, 4, 8, 6, 8 | Tables B.6, B.7, and B.8 | 7, 22 |
| 21 | Building 1 Leach Pit (Area I) | G-6 | Surplus | Wastewater from explosives processes<br>Organic solvents (primarily acetone) | 1, 4, 5, 18 | Suspected, not confirmed | | 7, 18 | 3, 4, 5, 6<br>14 | Tables B.6, B.7, B.8, and B.9<br>RSS[c] Location 30504 (Appendix E in Ref. 6) | 7<br>6 |
| 22 | Building 1 Explosives Wastewater Settling Basin (Tank 200) | G-6 | Surplus | Wastewater from explosives processes<br>Organic solvents | 3, 4, 5, 18 | Suspected | | 7, 18 | No Data | | 4 |
| 23 | Building 43 Explosives Wastewater Settling Basin (Tank 201) | G-6 | Surplus | Explosives production process wastes | 3, 11 | Suspected | | 7, 18 | No Data | | |
| 24 | Building 43 Solvent Storage Tank (Tank 221) | G-6 | Never used Removed | None suspected (never used) | 3 | Suspected | | 7, 18 | No Data | | |
| 25 | Building 27 Leach Pit (Area I) | H-6 | Surplus | Wastewater from explosives processes<br>Organic solvents (primarily acetone) | 1, 4, 5, 18 | Suspected, not confirmed | | 7, 18 | 3, 4, 5, 6, 12 | Tables B.6, B.7, and B.8 | 4, 7 |
| 26 | Building 27 Concrete Flume (Tank 217) | G-6 | Surplus | Wastewater from explosives processes<br>Organic solvents (primarily acetone) | 3, 5, 18 | Suspected, not confirmed | | 7, 18 | 3, 4, 5, 6, 12 | Tables B.6, B.7, and B.8 | 4, 7 |
| 27 | Building 27 Settling Sump (Tank 218) | G-6 | Surplus | Wastewater from explosives processes<br>Organic solvents (primarily acetone) | 3, 4, 5, 18 | Suspected, not confirmed | | 7, 18 | 3, 4, 5, 6, 12 | Tables B.6, B.7, and B.8 | 4, 7 |
| 28 | Building 27 Solvent/Drum Storage Area | G-6 | Surplus | Wastewater from explosives processes<br>Organic solvents (acetone and ethanol) | 4, 5, 18 | Suspected, not confirmed | | 7, 18 | 3, 4, 5, 6, 12 | Tables B.6, B.7, and B.8 | 7 |
| 29 | Building 27 Filtration System | G-6 | Inactive | Wastewater from explosives processes<br>Organic solvents | | Not Suspected | | 7, 18 | No Data | | |

## Table A.2. Assignment of Regulatory Authorities to Potential Release Sites and Recommendations for Further Action

| | | | | Operational Jurisdiction | | | | Historic Activities | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | Site Name | Location | Status | Regulated Units | Regulatory Authority | Spill Response | SWMU | Evidence Of Release | Response Authority | Further Action Recommended | FFA OU |
| 17 | Oil Born Structure | H-6 | Inactive | | NA | | SWMU | Yes | CERCLA | Yes | 5 |
| 18 | Building 34, Fire Fighting Training Facility Pits | H-5 | Inactive | Permit for open burn by RAPCA | CAA | | SWMU | Yes | CERCLA | Yes | 5 |
| 19 | Building 34, Historical Firefighting Training Pit | H-5 | Historical | | NA | | SWMU | Yes | CERCLA | Yes | 5 |
| 20 | Building 34 Aviation Fuel Storage Tank (Tank 219) | H-5 | Historical | | | FFA | SWMU | Yes[b] | CERCLA | No | 5 |
| 21 | Building 1 Leach Pit (Area I) | G-6 | Surplus | | NA | | SWMU | No | CERCLA | No | 5 |
| 22 | Building 1 Explosives Wastewater Settling Basin (AKA Building 1 Sump) (Tank 200) | G-6 | Surplus | | NA | | SWMU | No | CERCLA | No | 5 |
| 23 | Building 43 Explosives Wastewater Settling Basin (AKA Building 43 Sump) (Tank 201) | G-6 | Surplus | | NA | | SWMU | No | CERCLA | No | 5 |
| 24 | Building 43 Solvent Storage Tank (Tank 221) | G-6 | Never Used removed | | NA | | | No | NA | No | |
| 25 | Building 27 Leach Pit (Area I) | H-6 | Surplus | | NA | | SWMU | No | CERCLA | No | 5 |
| 26 | Building 27 Concrete Flume (Tank 217) | G-6 | Surplus | | NA | | SWMU | No | CERCLA | No | 5 |
| 27 | Building 27 Settling Sump (Tank 218) | G-6 | Surplus | | NA | | SWMU | No | CERCLA | No | 5 |
| 28 | Building 27 Solvent/Drum Storage Area | G-6 | Surplus | | NA | | SWMU | No | CERCLA | No | 5 |
| 29 | Building 27 Filtration System | G-6 | Inactive | Included in RCRA Part B permit application | RCRA | RCRA | SWMU | No | NA | OM | |
| 30 | Building 27 Diesel Fuel Storage Tank (Tank 123) (actually a propane tank) | G-6 | Inactive | | NA | | | No | NA | No | |
| 31 | Underground Sanitary Sewer Line G5 | H-5 | In service | Effluent to wastewater treatment (Building 57) | CWA | AEA | SWMU | No | NA | OM | |
| 32 | Underground Sanitary Sewer Line G12 | F-8 | | | | | SWMU | No | NA | OM | |
| 33 | Underground Sanitary Sewer Line | H-5 H-6 | | | | | SWMU | No | NA | OM | |

1 - Soil Gas Survey - Freon 11, Freon 113, Trans-1,2-Dichloroethylene, Cis-1,2-Dichloroethylene, 1,1,1-Trichloroethane, Perchloroethylene, Trichloroethylene, Toluene
2 - Gamma Spectroscopy - Thorium-228, -230, Cobalt-60, Cesium-137, Radium-224, -226, -228, Americium-241, Actinium-227, Bismuth-207, Bismuth-210m, Potassium-40
3 - Target Analyte List
4 - Target Compound List (VOC)
5 - Target Compound List (SVOC)
6 - Target Compound List (Pesticides/Polychlorinated Biphenyl)
7 - Dioxins/Furans
8 - Extractable Petroleum Hydrocarbons (EPH)/Total Petroleum Hydrocarbons (TPH)
9 - Lithium
10 - Nitrate/Nitrite
11 - Chloride
12 - Explosives
13 - Plutonium-238
14 - Plutonium-238, Thorium-232
15 - Cobalt-60, Cesium-137, Radium-226, Americium-241
16 - Tritium

Reference List


1. DOE 1986 "Phase I Installation Assessment Mound (DRAFT)."
2. DOE 1992a "Remedial Investigation/Feasibility Study, Operable Unit 9, Site-Wide Work Plan (Final)."
3. DOE 1992c "Mound Plant Underground Storage Tank Program Plan & Regulatory Status Review (Final)."
4. DOE 1993a "Site Scoping Report: Volume 7 - Waste Management (Final)."
5. EPA 1988a "Preliminary Review/Visual Site Inspection for RCRA Facility Assessment of Mound Plant."
6. DOE 1993d "Operable Unit 9, Site Scoping Report: Volume 3 - Radiological Site Survey (Final)."
7. DOE 1993c "Operable Unit 3, Miscellaneous Sites Limited Field Investigation Report."
8. DOE 1992d "Reconnaissance Sampling Report Decontamination & Decommissioning Areas, OU6, (Final)."
9. Fentiman 1990 "Characterization of Mound's Hazardous, Radioactive and Mixed Wastes."
10. DOE 1992f "Operable Unit 9, Site Scoping Report: Volume 11 - Spills and Response Actions (Final)."
11. Styron and Meyer 1981 "Potable Water Standards Project: Final Report."
12. DOE 1993b "Reconnaissance Sampling Report - Soil Gas Survey & Geophysical Investigations, Mound Plant Main Hill and SM/PP Hill (Final)."
13. DOE 1993d "Operable Unit 9, Site Scoping Report: Volume 3 - Radiological Site Survey (Final)."
14. DOE 1991b "Main Hill Seeps, Operable Unit 2, On-Scene Coordinator Report for CERCLA Section 104 Remedial Action, West Powerhouse PCB Site."
15. Halford 1990 "Results of South Pond Sampling."
16. DOE 1993e "Operable Unit 4, Special Canal Sampling Report, Miami Erie Canal."
17. DOE 1990 "Preliminary Results of Reconnaissance Magnetic Survey of Mound Plant Areas 2, 6, 7, and C."
18. DOE 1992a "Remedial Investigation/Feasibility Study, Operable Unit 9, Site-Wide Work Plan (Final)."
19. Rogers 1975 "Mound Laboratory Environmental Plutonium Study, 1974."
20. DOE 1992h "Ground Water and Seep Water Quality Data Report Through First Quarter, FY92."
21. Dames and Moore 1976 a, b "Potable Water Standards Project Mound Laboratory" and "Evaluation of the Buried Valley Aquifer Adjacent to Mound Laboratory."
22. DOE 1992i "Closure Report, Building 34 - Aviation Fuel Storage Tank."
23. DOE 1992j "Closure Report, Building 51 - Waste Storage Tank."
24. DOE 1994 "Operable Unit 1, Remedial Investigation Report."
25. EG&G 1994 "Active Underground Storage Tank Plan."

# ENVIRONMENTAL RESTORATION PROGRAM

# MOUND PLANT UNDERGROUND STORAGE TANK PROGRAM PLAN AND REGULATORY STATUS REVIEW

## MOUND PLANT

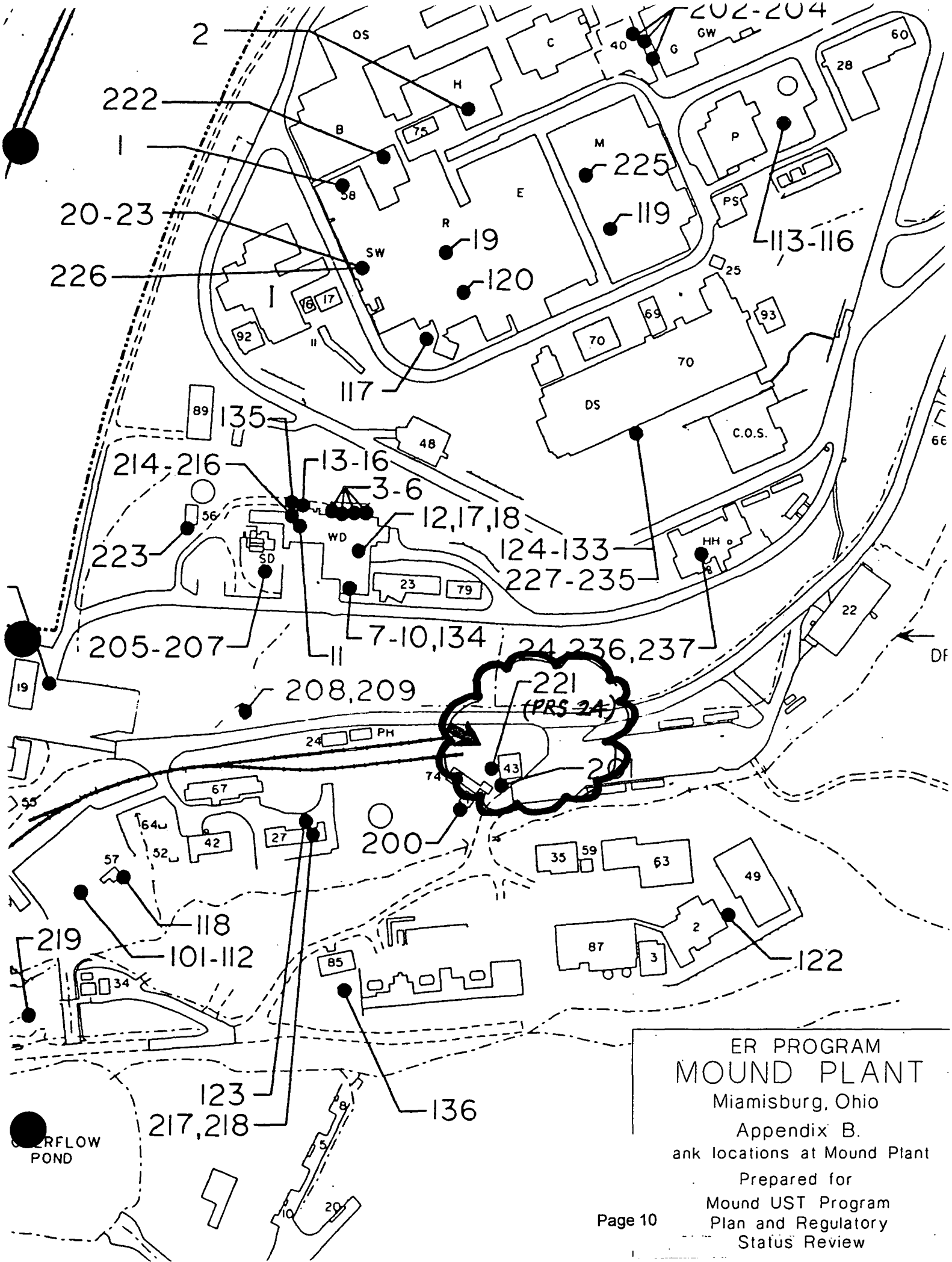
## MIAMISBURG, OHIO

## NOVEMBER 1992

## DEPARTMENT OF ENERGY
## ALBUQUERQUE OPERATIONS OFFICE

## ENVIRONMENTAL RESTORATION PROGRAM
## EG&G MOUND APPLIED TECHNOLOGIES

## FINAL (REVISION 0)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227-235
223
205-207
7-10,134
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208,209
221
(PRS 24)
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101-112
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122
123
217,218
136
ER PROGRAM
MOUND PLANT
Miamisburg, Ohio
Appendix B.
ank locations at Mound Plant
Prepared for
Mound UST Program
Plan and Regulatory
Status Review

from the Operable Unit 3 sampling of the site are documented in the ER Program report "Closure Report, Building 51-Waste Storage Tank." This "Closure Report" was submitted to the BUSTR with a request to close the file on the tank in September 1992.

### 2.3.10. Building 43: Solvent Storage Tank (Tank 221)

This 1,000-gallon, stainless-steel tank was originally constructed to store acetone or alcohol solvents for use in Building 43. The stainless-steel tank reportedly has never been used and at removal still contained the water used in hydrostatic testing when the tank was installed (Burdg, 1991b). Laboratory results confirmed the contents to be deionized water (Bowser-Morner, 1991). The tank was closed by removal on November 29, 1990, in accordance with BUSTR requirements. Accordingly, because the tank has been removed and had only contained water, the tank should be deleted as a concern as a UST.

It should be noted that the Mound UST Plan (NUS, 1989) identified a 500-gallon solvent tank immediately adjacent to Building 43. When Mound Plant engineers visited the area to plan closure activities they found that there were two tanks in proximity to Building 43. The first was a 500-gallon concrete settling basin formerly used to process explosives production wastewaters from Building 43. The second was a 1,000-gallon stainless-steel tank installed to store solvents, but was never used. Consequently, there is no "500-gallon solvent tank," and Mound Plant has identified the 500-gallon concrete settling basin as Tank 201 and the 1,000-gallon stainless-steel tank as Tank 221 for the purposes of this document.

### 2.3.11. Building 58: Diesel Fuel Storage Tank (Tank 222)

This 3,000-gallon, unlined, steel tank was formerly used to supply diesel fuel to Emergency Generator Number 1. The tank is reported by Mound Plant personnel to have been closed by removal in December 1989 (Andersen, 1990c). As a closed tank site, the location will be investigated by the ER Program (FFA) in Operable Unit 2 to determine if evidence of a release exists.

### 2.3.12. Building 56: Diesel Fuel Storage Tank (Tank 223)

This 825-gallon, unlined steel tank was formerly used to supply diesel fuel to an emergency power generator. The tank is reported by Mound Plant site personnel to have been closed by removal in December 1989 (Andersen, 1990c). As a closed tank site, the location will be investigated by the ER Program (FFA) in Operable Unit 2 to determine if evidence of a release exists.

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APPENDIX A (continued)
UST OWNERSHIP/SPONSORSHIP AND PRIMARY REGULATORY JURISDICTION

| Tank # | NUS#[a] | Capacity (gallons) | Location | Purpose | Comments | Last date used[b] | Tentative Tank Sponsor | Spill Jurisdiction | Primary Regulatory Jurisdiction |
|---|---|---|---|---|---|---|---|---|---|
| 213 | 1.3-3 #12 | 1,000 | SM Bldg. | Alpha waste-water collection tank | Bituminous-lined steel tank used to collect alpha waste-waters. | 1972 (c/r Jan. 1988) | D&D | AEA | AEA |
| 214 | 1.3-3 #13 | 3,750 | WD Bldg. Annex | Alpha waste-water effluent tank | PVC-lined steel tank used to collect treated alpha waste-waters prior to discharge. | 1975[c] (i/i) | D&D | AEA | AEA |
| 215 | 1.3-3 #14 | 3,750 | WD Bldg. Annex | Alpha waste-water effluent tank | PVC-lined steel tank used to collect treated alpha waste-waters prior to discharge. | 1975[c] (i/i) | D&D | AEA | AEA |
| 216 | 1.3-3 #15 | 3,750 | WD Bldg. Annex | Alpha waste-water effluent tank | PVC-lined steel tank used to collect treated alpha waste-waters prior to discharge. | 1975[c] (i/i) | D&D | AEA | AEA |
| 217 | N/A | 100[c] | Bldg. 27 | Waste flume sump | Concrete flume used to collect wastes from an explosives production process. | Oct. 1991 (i/i) | Operations | RCRA | RCRA[d] |
| 218 | N/A | 500[c] | Bldg. 27 | Settling sump | Concrete basin formerly used to filter and settle out explosive elements in an explosive production process waste stream. More recently used as contingency unit. Last held waste in 1985. | Oct. 1991 (i/i) | Operations | RCRA | RCRA[d] |
| 219 | 1.3-3 #17 | 5,000 | Bldg. 34 | Aviation fuel storage tank | Unlined steel tank used to supply aviation fuel for container burn testing. | 1972 (c/r Nov. 1990) | ER (3*) | FFA | FFA |
| 220 | 1.3-3 #18 | 1,000 | Bldg. 51 | Waste solvent storage tank | Unlined steel tank used to supply incinerator with waste solvents. | 1972 (c/r Dec. 1990) | ER (3*) | FFA | FFA |
| 221 | 1.3-3 #19 | 1,000 | Bldg. 43 | Product solvent storage tank | Stainless-steel tank constructed to store solvent for use in Building 43. Never used. | N/A (c/r Dec. 1990) | NA | N/A | BUSTR |

Document Control No. _____

EG&G MOUND-25-02-10-02--9508150110

Environmental Restoration Program

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

## MOUND PLANT
## MIAMISBURG, OHIO

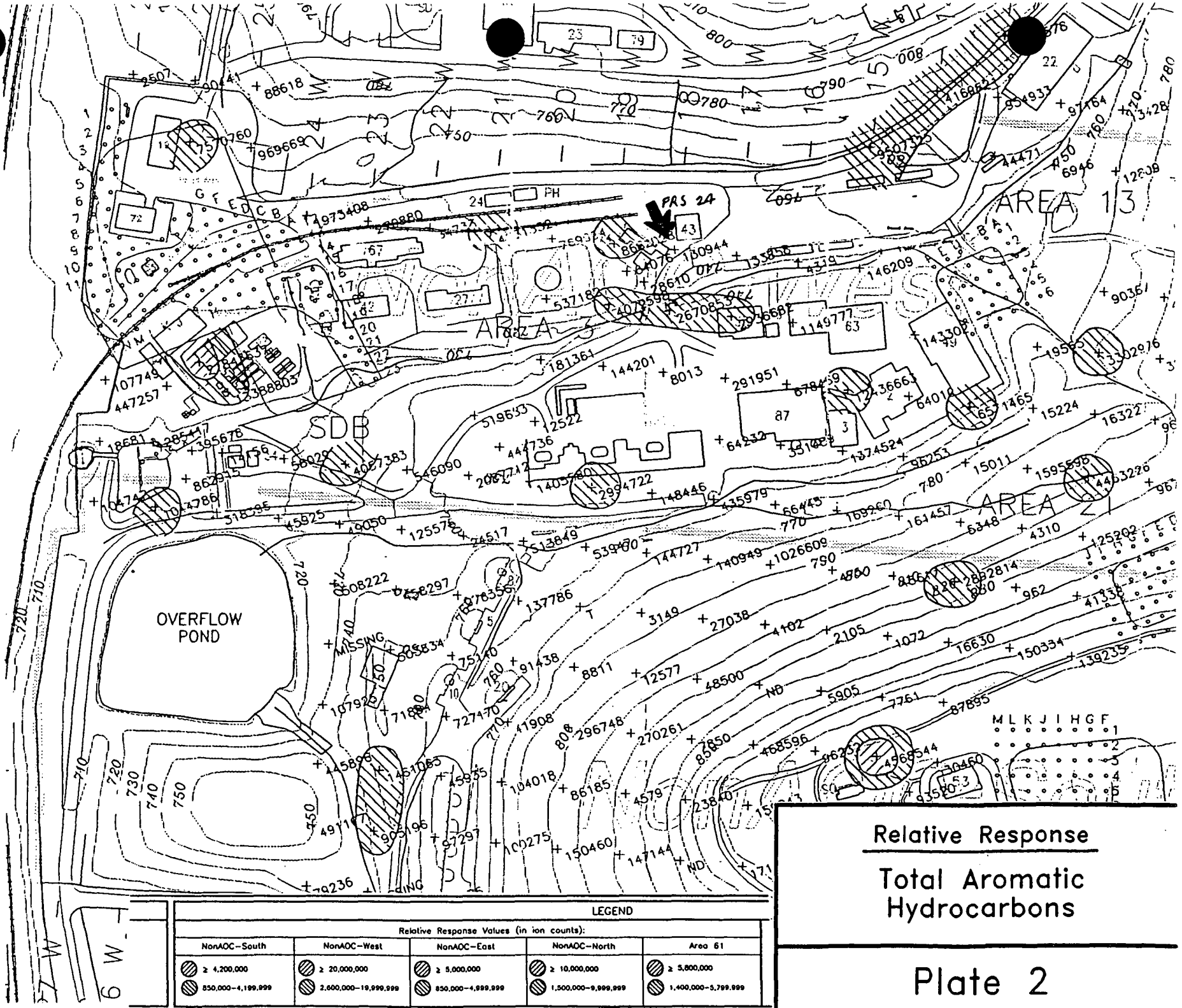
## VOLUME II - APPENDICES A-G

June 1995

Final (Revision 0)

U.S. Department of Energy
Ohio Field Office

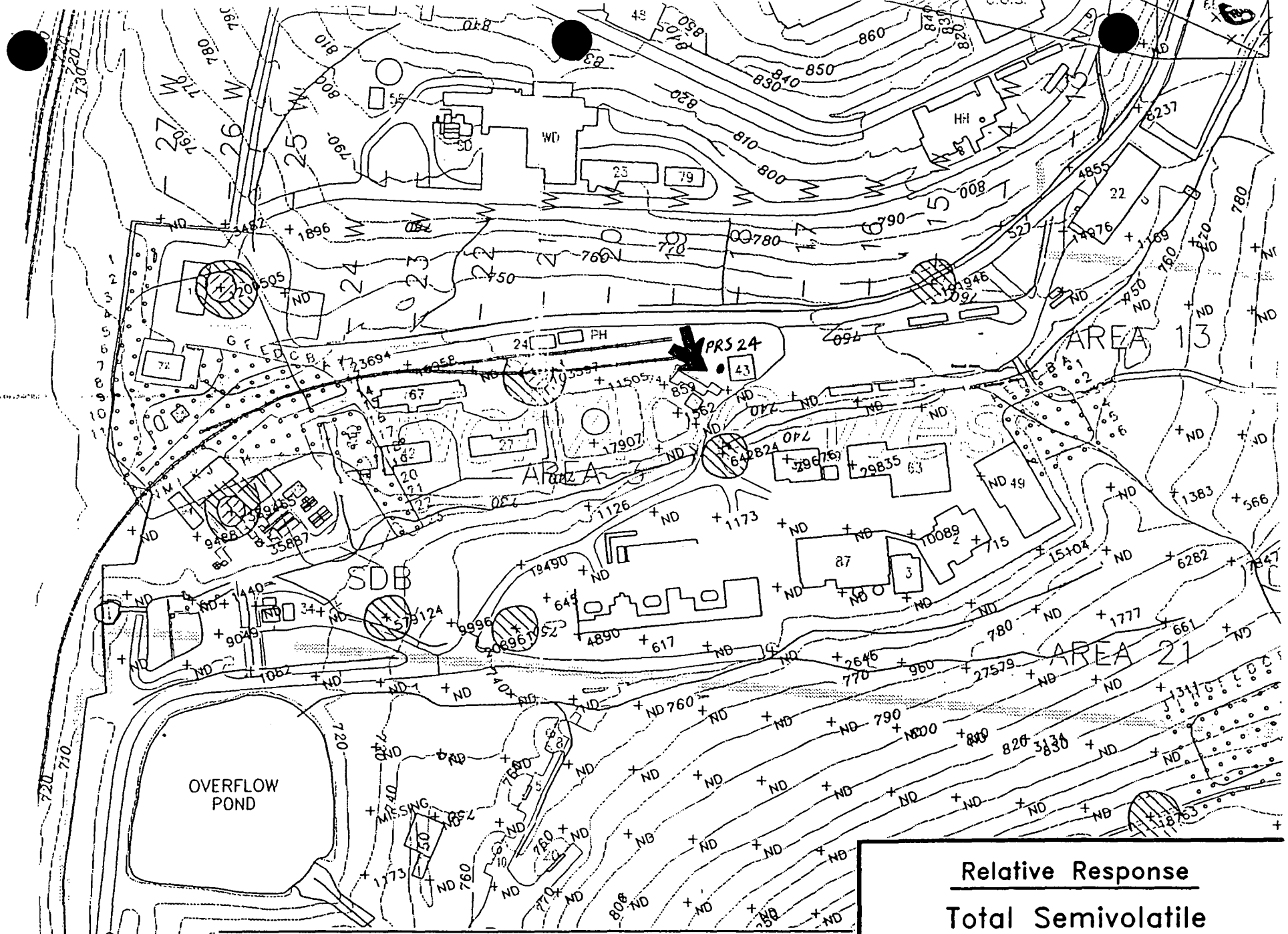
EG&G Mound Applied Technologies




## Relative Response

## Total Aromatic Hydrocarbons

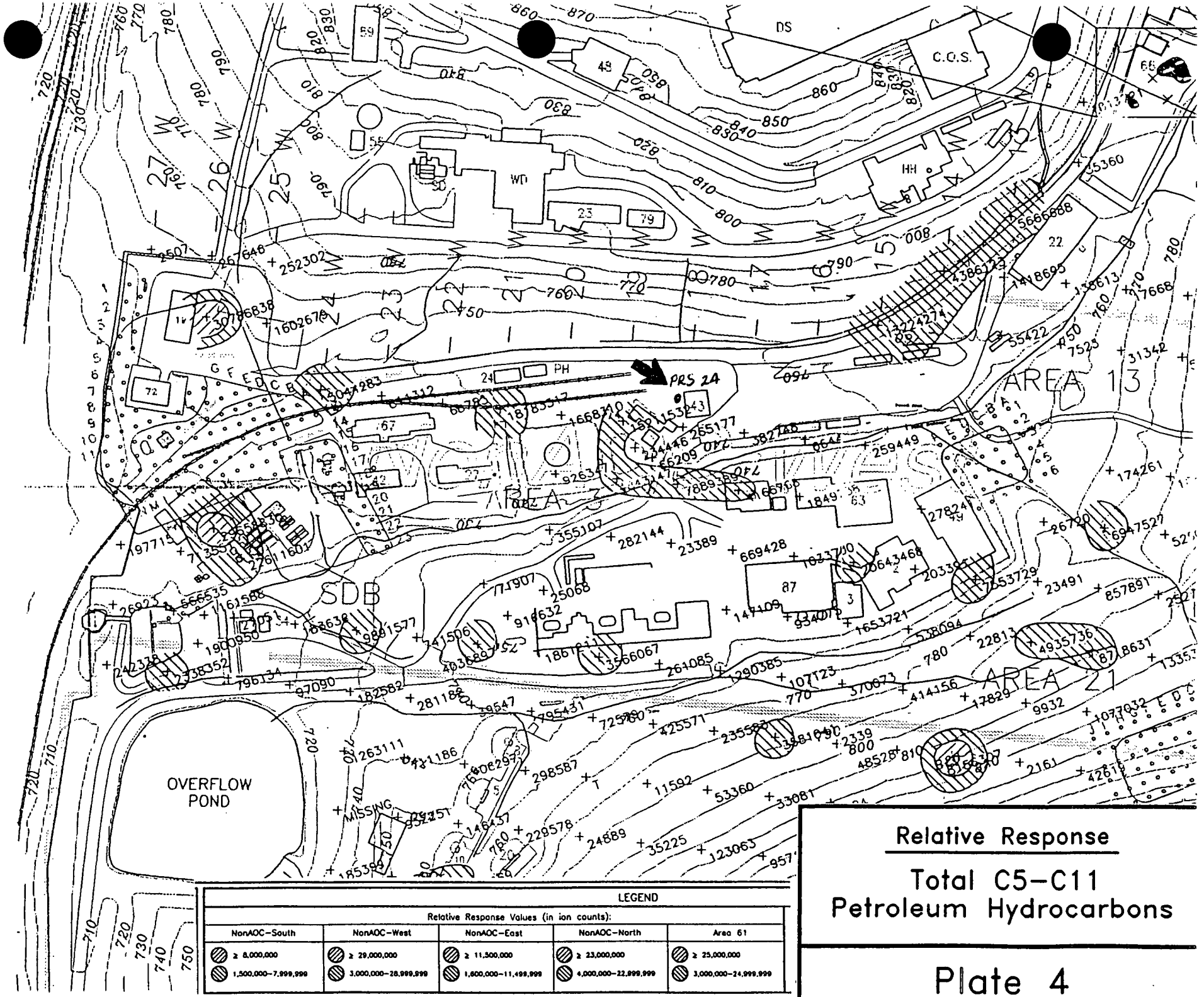
# Plate 2




## Relative Response

# Total Semivolatile Hydrocarbons

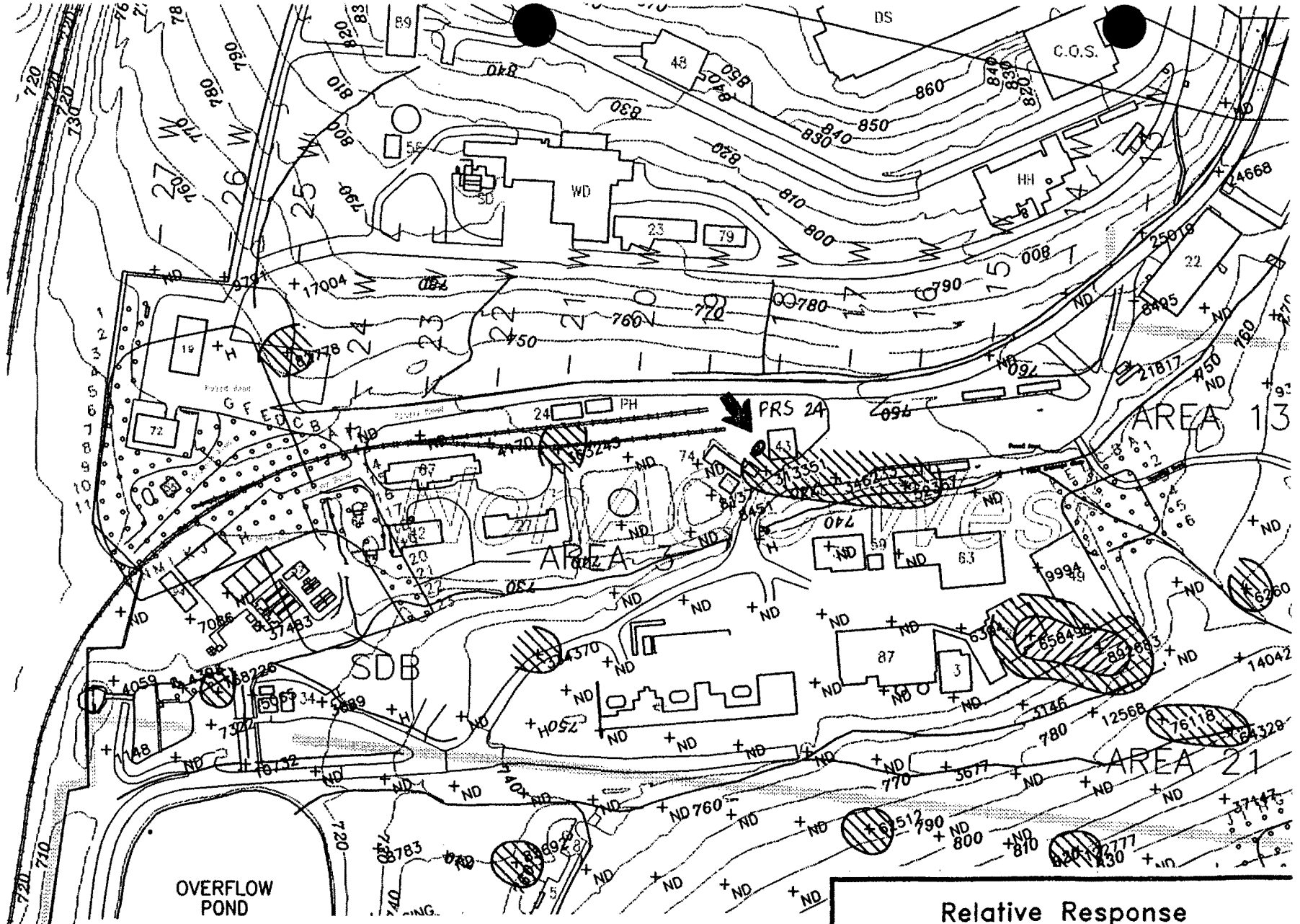
# Plate 3




## Relative Response

# Total C5–C11 Petroleum Hydrocarbons

# Plate 4

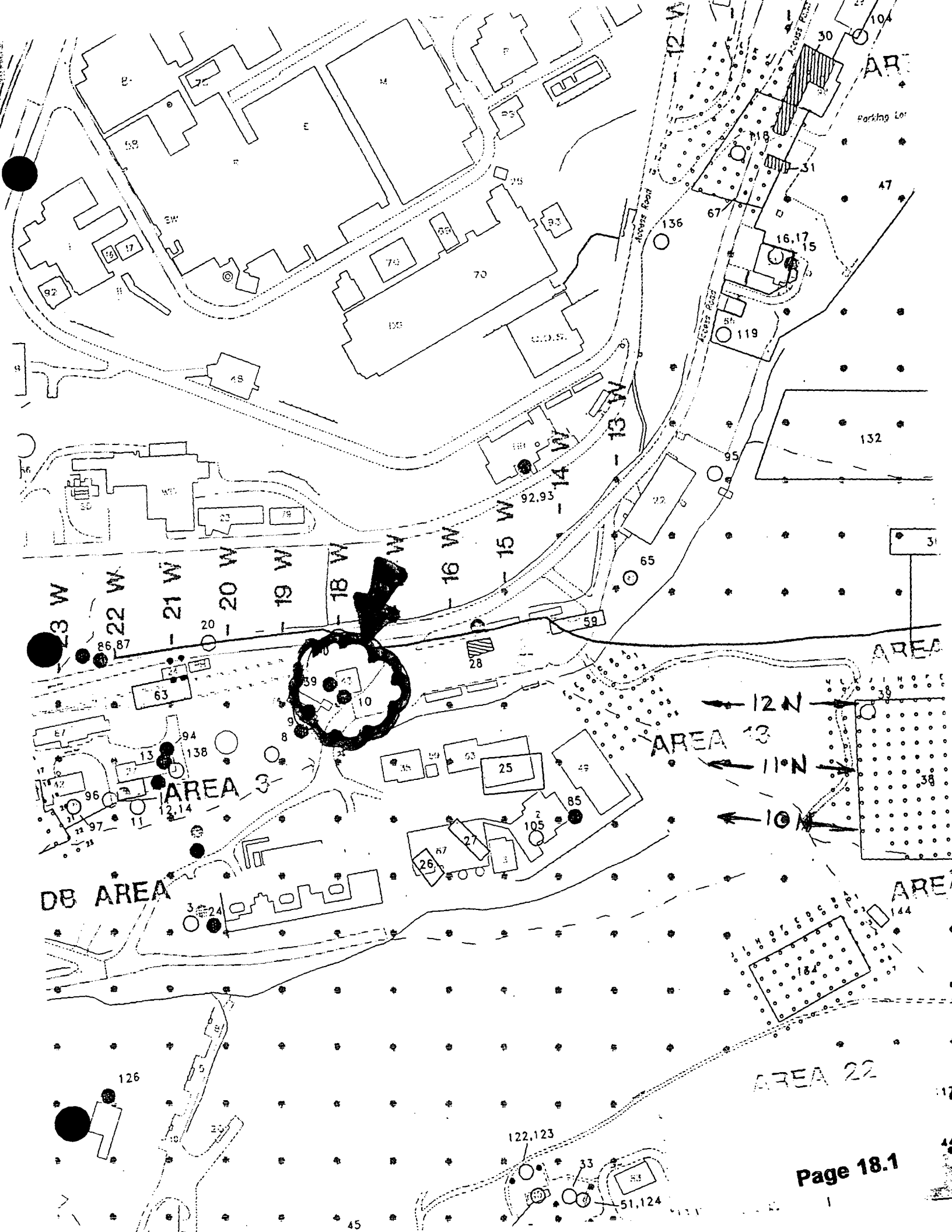



| LEGEND | | | | |
|---|---|---|---|---|
| Relative Response Values (in ion counts): | | | | |
| NonAOC–South | NonAOC–West | NonAOC–East | NonAOC–North | Area 61 |
| ≥ 500,000 | ≥ 500,000 | ≥ 80,000 | ≥ 400,000 | ≥ 250,000 |
| 50,000–499,999 | 50,000–499,999 | 20,000–79,999 | 40,000–399,999 | 35,000–249,999 |

## Relative Response

# Total Halogenated Hydrocarbons

# Plate 5


AREA 3
AREA 13
AREA 22
DB AREA
12 N
11 N
10 N
Access Road
Parking Lot
92,93
122,123
51,124
Page 18.1

| | MOUND SOIL SCREENING FACILITY DATA | | | |
|---|---|---|---|---|
| SMPID | Plutonium - 238 | | Thorium - 232 | |
| | Units: pCi/g | | Units: pCi/g | |
| | RESULTS | Note: | RESULTS | Note: |
| | | | | |
| | **SOIL GAS SAMPLING** | | | |
| | *FUEL AREA* | | | |
| PUMPE | 0 | a | 1.3 | a |
| PUMPW | WIPE | c | WIPE | c |
| PUMPN | WIPE | c | WIPE | c |
| PUMPS | WIPE | c | WIPE | c |
| TANKE | 4 | a | 0.4 | a |
| TANKW | WIPE | c | WIPE | c |
| TANKN | 5 | a | 0.2 | a |
| TANKS | 4 | a | 1.1 | a |
| SEPE | WIPE | c | WIPE | c |
| SEPW | WIPE | c | WIPE | c |
| SEPN | WIPE | c | WIPE | c |
| SEPS | WIPE | c | WIPE | c |
| | *ADDITIONAL LOCATIONS IN NON-AOC* | | | |
| 08N25.5 | 17 | a | 0.8 | a |
| 13N5.5 | 10 | a | 1.2 | a |
| 13N07 | 4 | a | 0.7 | a |
| 14N06 | WIPE | c | WIPE | c |
| 7.5N25.5 | 0 | a | 0.5 | a |
| 8.5N20 | 9 | a | 0.8 | a |
| 17.25N2.5 | 20 | a | 1 | a |
| 16.75N2.5 | 0 | a | 0.4 | a |
| 19.5N10 | 11 | a | 0.9 | a |
| 20.25N10.5 | 0 | a | 0.2 | a |
| 9.5N25.5 | WIPE | c | WIPE | c |
| 11.75N18.75 | WIPE | c | WIPE | c |
| 11.6N18.5 | WIPE | c | WIPE | c |
| 3.5N13.5 | WIPE | c | WIPE | c |
| 08N5.5 | WIPE | c | WIPE | c |

NR - Not recorded
NC - No sample/reading taken
NA - Reading not taken; contamination criteria not exceeded.
a - Mound Soil Screening Facility detection level not exceeded.
b - Concentration at or above the Mound Soil Screening Facility detection level.
c - Results of the wipe sample were less than 20 disintegrations per minute.
CPM - Counts per minute
KCPM - Counts per minute x 1000
pCi/g - Picocuires per gram

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

| | FIDLER SURVEY DATA | | | | | MOUND SOIL SCREENING FACILITY DATA | | | |
|---|---|---|---|---|---|---|---|---|---|
| SMPID | 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: |
| 12N15 | 157.3 | 65 | 8.45 | 4.0 | NC | 85 | b | 0.9 | a |
| 12N16 | 157.3 | 110 | 8.45 | 5.5 | NC | 9 | a | 0.7 | a |
| 12N17 | 157.3 | 60 | 8.45 | 3.5 | NC | WIPE | c | WIPE | c |
| 12N18 | 157.3 | 60 | 8.45 | 4.5 | NC | WIPE | c | WIPE | c |
| 12N19 | 157.3 | 55 | 8.45 | 4.5 | NC | 19 | a | 0.5 | a |
| 12N20 | 157.3 | 65 | 8.45 | 4.5 | NC | WIPE | c | WIPE | c |
| 12N21 | 157.3 | 50 | 8.45 | 3.5 | NC | WIPE | c | WIPE | c |
| 12N22 | 157.3 | 85 | 8.45 | 5.5 | NC | 16 | a | 1 | a |
| 12N23 | 157.3 | 75 | 8.45 | 5.0 | NC | WIPE | c | WIPE | c |
| 12N24 | 157.3 | 40 | 8.45 | 3.5 | NC | WIPE | c | WIPE | c |
| 13N01 | 253.5 | 180 | 12.48 | 10.0 | NC | 15 | a | 1.1 | a |
| 13N02 | 253.5 | 95 | 12.48 | 4.5 | NC | WIPE | c | WIPE | c |
| 13N03 | 130 | 110 | | | | | | WIPE | c |
| 13N25 | 157.3 | 40 | | | | | | WIPE | c |
| 13N26 | 157.3 | 60 | | | | | | WIPE | c |
| 14N01 | 253.5 | 100 | | | | | | WIPE | c |
| 14N02 | 122.2 | 80 | | | | | | PE | c |
| 14N03 | 130 | 75 | | | | | | | c |
| 14N07 | 170.3 | 100 | | | | | | | |
| 14N08 | 170.3 | 150 | | | | | | | |
| 14N09 | 170.3 | 145 | | | | | | | |
| 14N10 | 170.3 | 85 | | | | | | R | |
| 14N11 | 170.3 | 115 | | | | | | NR | |
| 14N12 | 170.3 | 130 | | | | | | NR | |
| 14N13 | 157.3 | 100 | | | | | | NR | |
| 14N15 | 157.3 | 70 | | | | | | WIPE | c |
| 14N25 | 157.3 | 85 | | | | | | 0.6 | a |
| 14N26 | 157.3 | 80 | 8.45 | 7.5 | NC | 8 | a | 0.7 | a |
| 14N27 | 157.3 | 150 | 8.45 | 9.0 | NC | 20 | a | 0.9 | a |

NR - Not recorded
NC - No sample/reading taken
NA - Reading not taken; contamination criteria not exceeded.
a - Mound Soil Screening Facility detection level not exceeded.
b - Concentration at or above the Mound Soil Screening Facility detection level.
c - Results of the wipe sample were less than 20 disintegrations per minute.
CPM - Counts per minute
KCPM - Counts per minute x 1000
pCi/g - Picocuires per gram

# SOIL SCREENING FACILITY RESULTS
# DECEMBER, 1990

FUEL TANK BLD-453

December 4, 1990
Page # 1

# SOIL SCREENIG FACILITY
## Data Management System

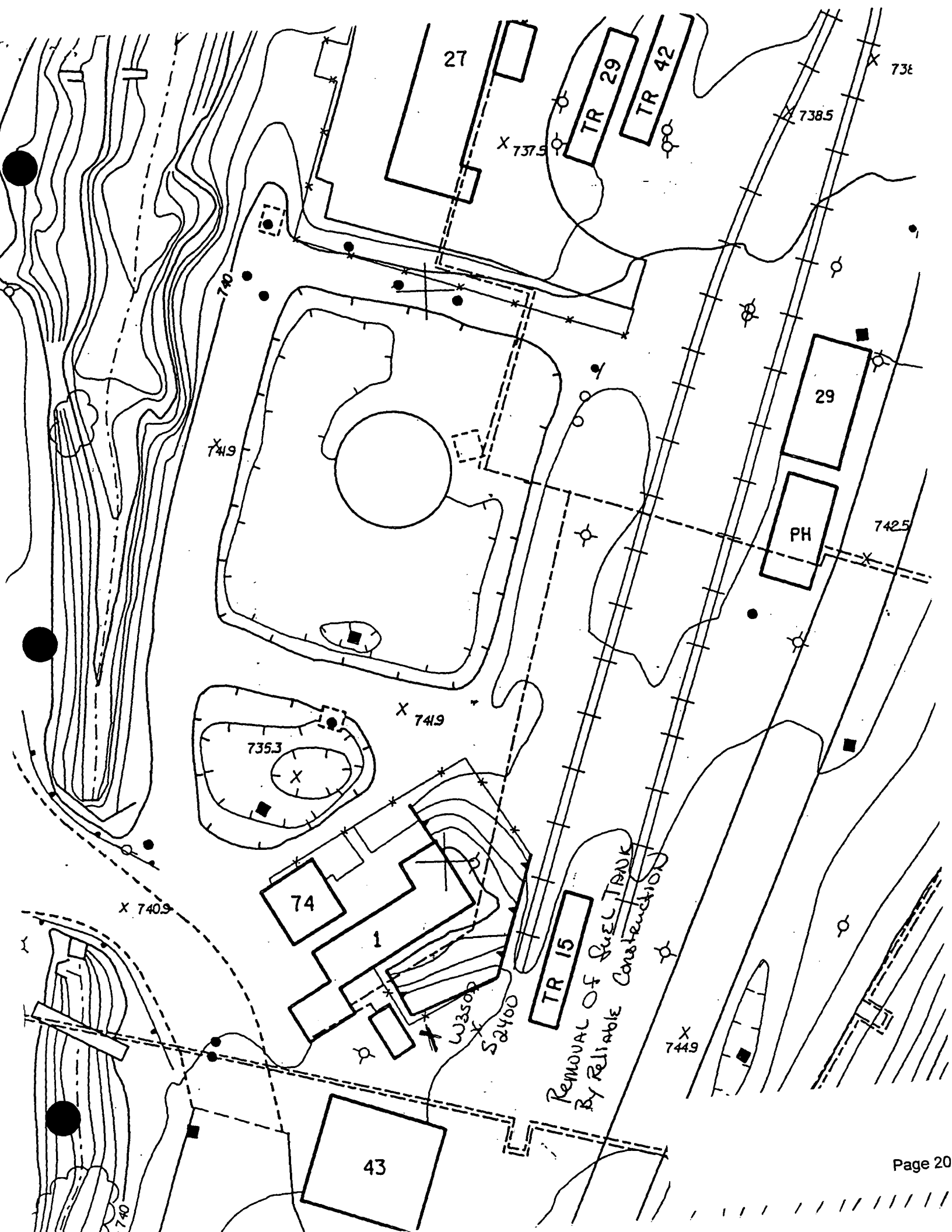
CONT Sample's, taken by B. BRUMLEY [redacted]
DAILY REPORT FOR December 4, 1990

| | SAMPLE NUMBER | DATE SCREEN | SAMPLER | SAMPLE TYPE | TH 232 pCi/g | PU 238 pCi/g | GRID & SAMPLE LOCATION | WELL ID |
|---|---|---|---|---|---|---|---|---|
| 1 | 9012044 | 12/04/90 | B. BRUMLEY [redacted] | CONT | 0.5 | 5 | W3500 X S2400 SS #1 @ SURFACE | C |
| 2 | 9012045 | 12/04/90 | B. BRUMLEY [redacted] | CONT | 0.4 | 1 | W3500 X S2400 SS #2 | C |
| 3 | 9012046 | 12/04/90 | B. BRUMLEY [redacted] | CONT | 0.5 | 25 | W3500 X S2400 SS #3 | A |
| 4 | 9012047 | 12/04/90 | B. BRUMLEY [redacted] | CONT | 1.5 | 0 | W3500 X S2400 SS #4 | B |
| 5 | 9012048 | 12/04/90 | B. BRUMLEY [redacted] | CONT | 0.5 | 3 | W3500 X S2400 SS #5 | A |
| 6 | 9012049 | 12/04/90 | B. BRUMLEY [redacted] | CONT | 0.4 | 0 | W3500 X S2400 SS #6 | B |
| 7 | 90120410 | 12/04/90 | B. BRUMLEY [redacted] | CONT | 0.4 | 42 | W3500 X S2400 SS #7 BM | A |
| 8 | 90120411 | 12/04/90 | B. BRUMLEY [redacted] | CONT | 0.7 | 8 | W3500 X S2400 SS #8 BM | C |
| 9 | 90120412 | 12/04/90 | B. BRUMLEY [redacted] | CONT | 0.3 | 0 | W3500 X S2400 SS #9 BM | B |

Samples taken During Removal of Stainless Steel tank By BLD-43 SandCont. was Found But Soil was left At Removal Site.

COPY

PREPARED BY : TROY J. PEARSON III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TR 29
TR 42
738
7385
X 737.5
740
X 741.9
29
PH
742.5
X 741.9
735.3
X 740.9
74
1
TR 15
W3500
S2400
REMOVAL OF SEPTIC TANK
By Reliable Construction
X 744.9
43
740