3005-9803250001

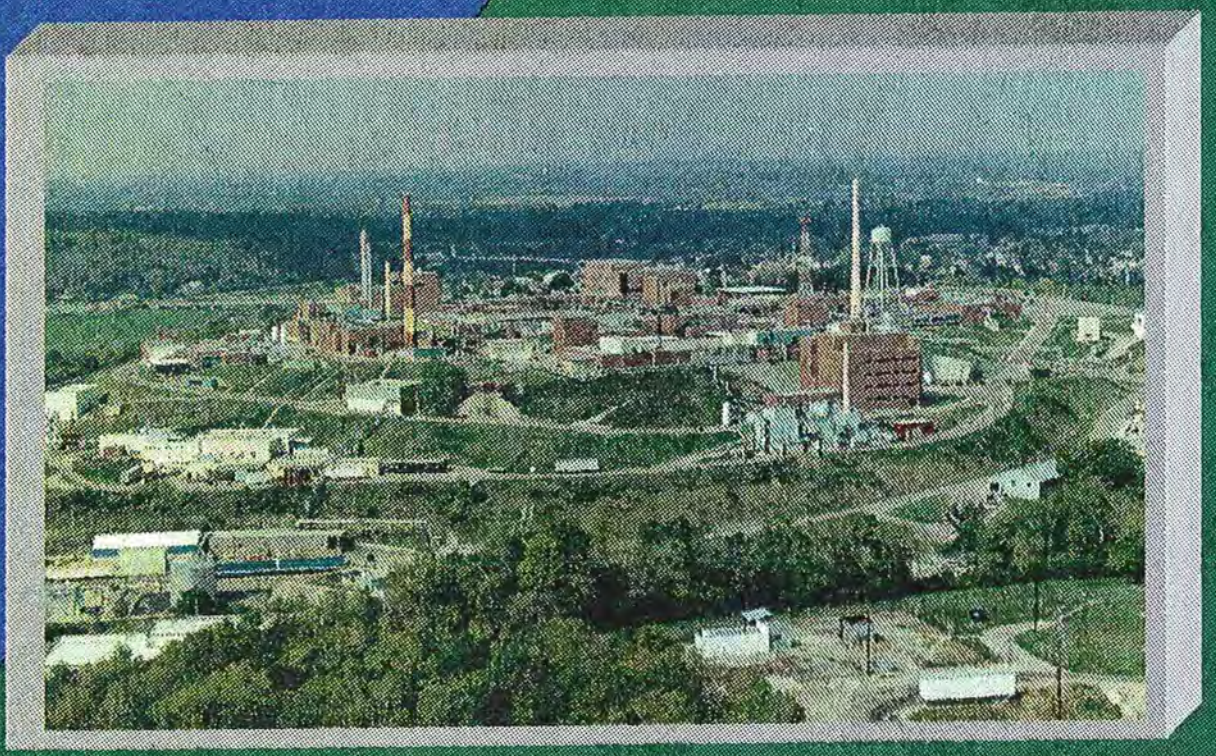
MOUND

Environmental Restoration Program

Mound Site
CERCLA
Reading Room Copy

Ohio EPA

MOUND PLANT
Building Data Package
Building 43
Located within Release Block C



BDP 43

REV	DESCRIPTION	DATE
PUBLIC RELEASE 0	Available for comments.	**Jan. 13, 1998**
FINAL RELEASE 1	Comment period expired. MMCIC comments noted.	**Mar. 25, 1998**

MOUND

Environmental Restoration Program

MOUND PLANT BUILDING DATA PACKAGE

Notice of Public Review Period

The following Building Data Packages will be available for public review in the CERCLA Public Reading Room, 305 E. Central Ave., Miamisburg, Ohio beginning January 15, 1998. Public comment will be accepted on these packages from January 15, 1998, through February 15, 1998.

BDP 43:	**Devices Development**
BDP: 35/59:	**Nondestructive Testing Facility**

Written comments may be sent to U.S. Department of Energy, c/o Jane Greenwalt, P.O. Box 66, Miamisburg, Ohio 45343-0066 or by E-Mail to: *jane.greenwalt@em.doe.gov*

Questions can be referred to DOE Office of Public Affairs at (937) 865-3116.

MOUND PLANT RECOMMENDATION

Building 43

Background:

Building 43 is a one-story, 1516 square-foot, reinforced concrete structure with a built-up membrane (asphalt) roof.

Building 43 was constructed in 1970 in an area known as the lower valley to replace and enlarge the explosive processing facility maintained by Building 1. Building 1 is located adjacent to, and to the east of Building 43. Building 43 acted as a laboratory for the development of energetic thermite materials and devices. There were no other structures, roads or improvements that would impact the environmental conditions of the building.

Recommendation:

Piping insulation containing friable asbestos is present in a damaged state. Residual thermite dust is present in the ventilation system. Oil was visible on the floor in Room 4.

It has been determined that these conditions are not protective of human health and the environment. Therefore, a RESPONSE ACTION is recommended.

Concurrence:

DOE/MEMP: Sam Cheng 11-19-97
Sam Cheng, D&D Team Leader (date)

USEPA: Timothy J. Fischer 11/19/97
Timothy J. Fischer, Remediation Project Manager (date)

OEPA: Brian K. Nickel 11/19/97
Brian K. Nickel, Project Manager (date)

The Mound Core Team
P.O. Box 66
Miamisburg, Ohio 45343-0066

March 18, 1998

Mr. Dann Bird
Planning Manager
MMCIC
P.O. Box 232
Miamisburg, OH
45342-0232

Dear Mr. Bird:

Thank you for your comments on the Building Data Packages for Building C, 33, 43 and 35/59. The Core Team, consisting of the U.S. Department of Energy Miamisburg Environmental Management Project (DOE-MEMP), U.S. Environmental Protection Agency (USEPA), and the Ohio Environmental Protection Agency (OEPA), appreciates the input provided by the public stakeholders of the Mound facility. The public stakeholders have significantly contributed to the forward progress that has been made establishing the safety of the Mound property prior to its return to public use after remediation and residual risk evaluation.

The comments for Building C, 33, 43 and 35/59 all indicated the need for continued cooperation. We concur and were pleased to see your comments also addressed to members of the Partnership Council. This group will be particularly effective in achieving the level of cooperation your comments suggest.

Concerning your question about the timing of a radiation survey of Building 59, our plans are to perform a radiation survey before the building is demolished.

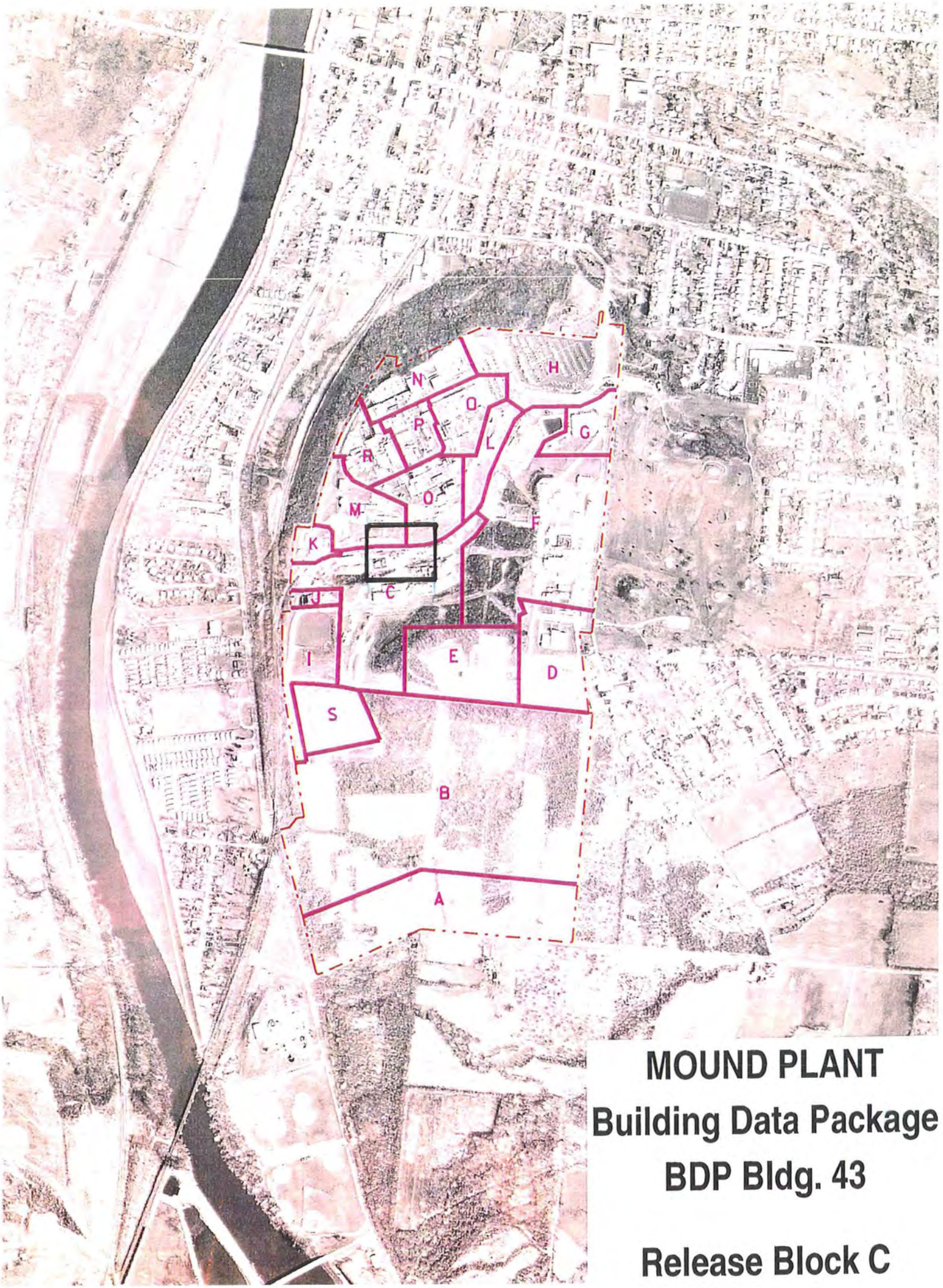
Should the responses to comments require additional detail, please contact Sam Cheng at (937) 865-4778 and we will gladly arrange a meeting or telephone conference.

Sincerely,

DOE/MEMP: Sam Cheng 3/19/98
Sam Cheng, DFR Team Leader

USEPA: Timothy J. Fischer 3/19/98
Timothy J. Fischer, Remedial Project Manager

OHIO EPA: Brian K. Nickel 3/19/98
Brian K. Nickel, Project Manager

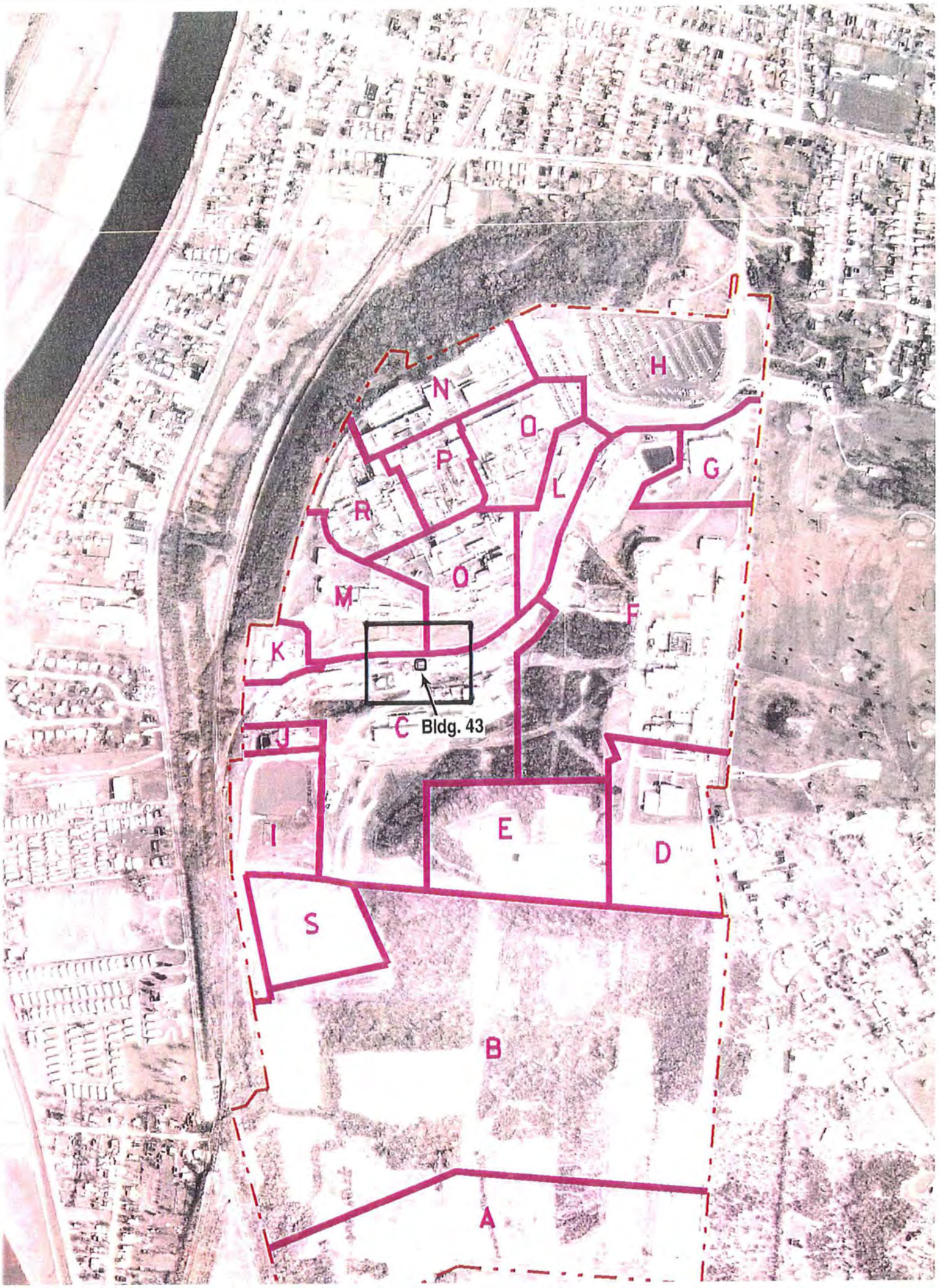


MOUND PLANT

Building Data Package

BDP Bldg. 43

Release Block C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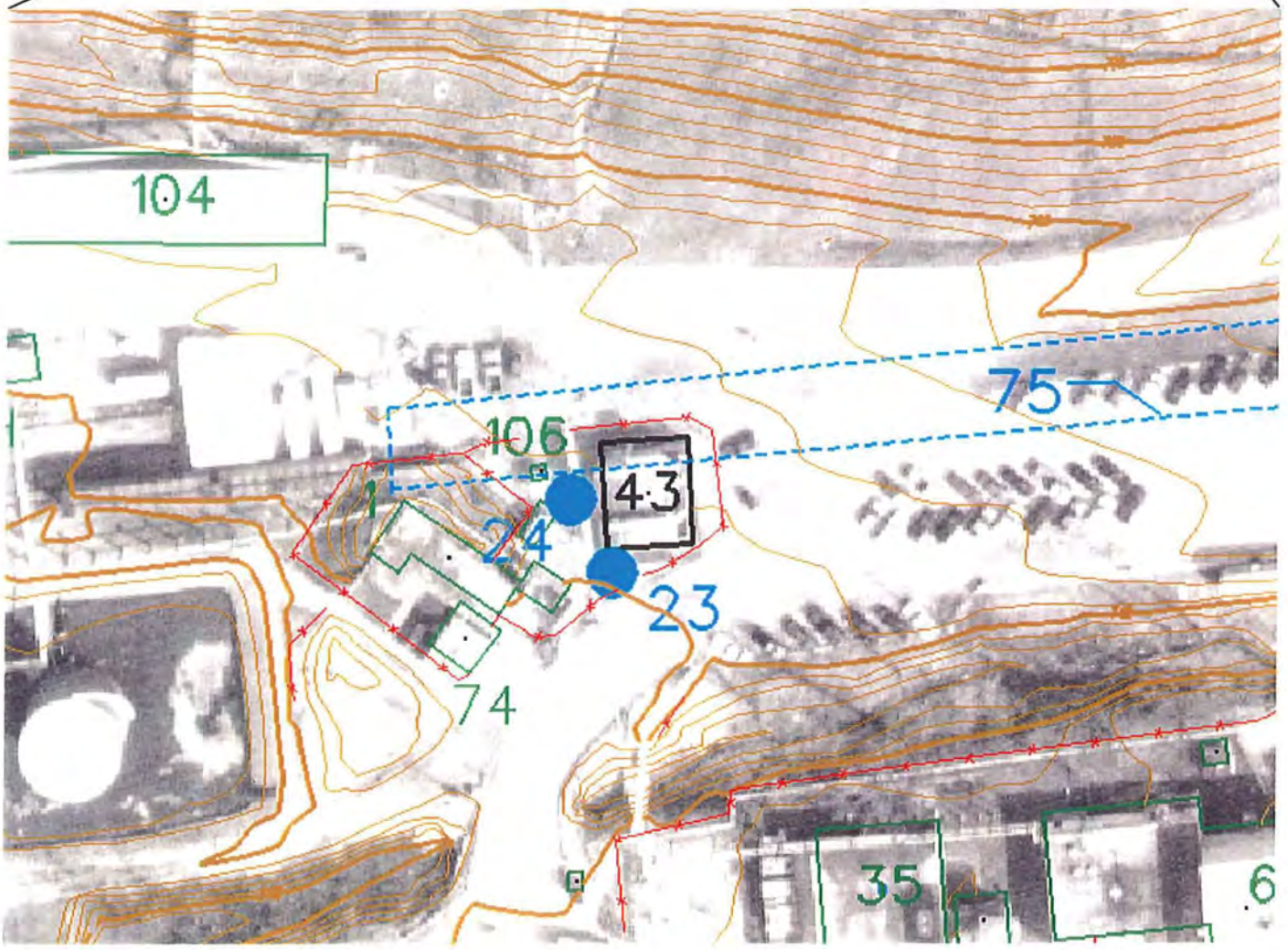
Mound Plant

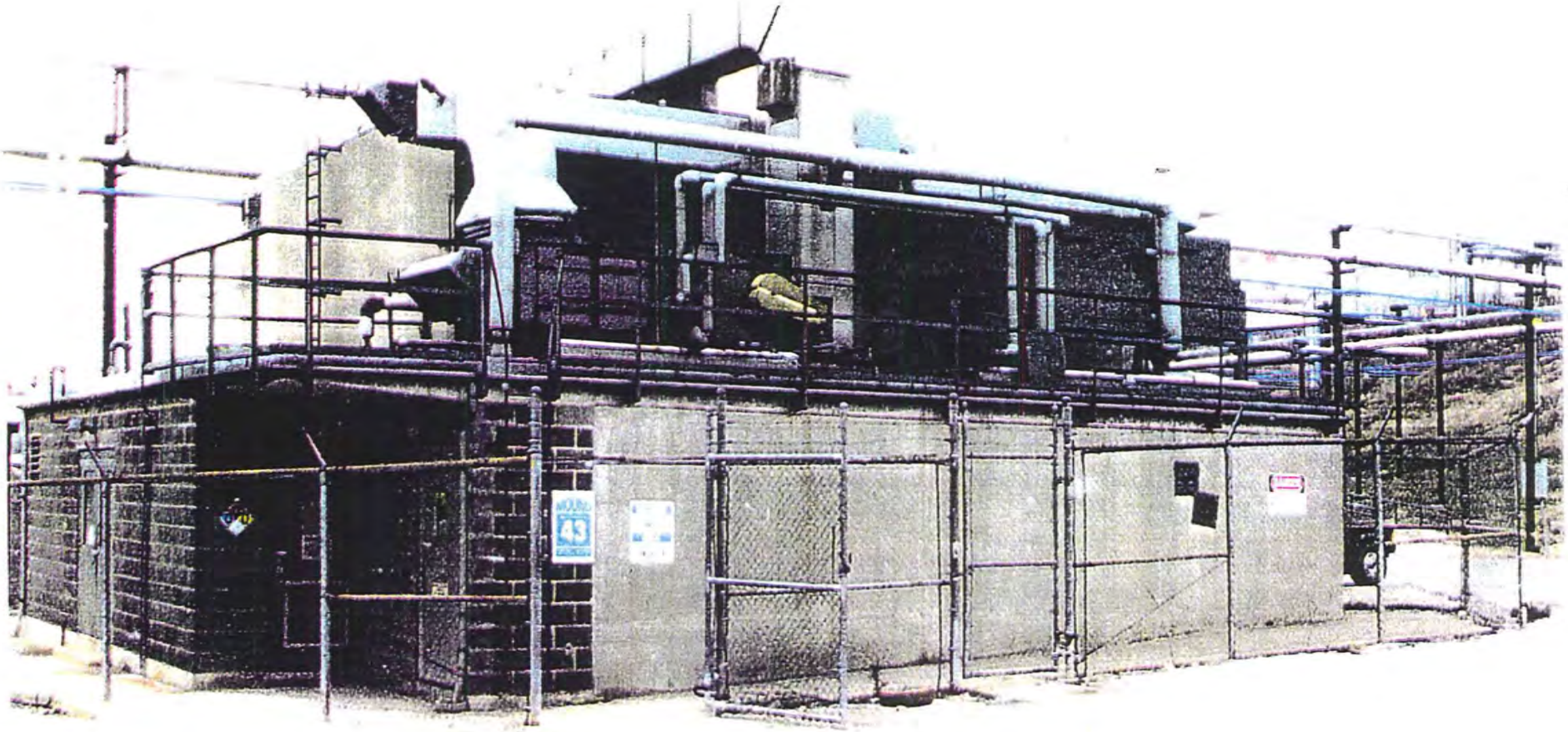
Building 43

Devices Development (Addition to Bldg. 1)

Release Block C

On the map below:
- Building number and location shown in black
- PRS locations and numbers shown in blue
- Surrounding buildings shown in green
- Fencing shown in red
- Elevation contours shown in brown





Waste Plan Building 43

9-25-05

BUILDING DATA PACKAGE (BDP)

BUILDING 43

DOE MOUND PLANT

MIAMISBURG, OHIO 45343

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1.0 Summary

1.1 General

This document has been prepared in response to an agreement between the Department of Energy (DOE), the U.S. Environmental Protection Agency, and the Ohio Environmental Protection Agency. It is a Building Data Package of Building 43 located at the DOE Mound Plant in Miamisburg, Ohio. This investigation was performed in accordance with the procedures laid out in ASTM Standard Practice for Environmental Site Assessments; Phase I Environmental Site Assessment Process (Designation E 1527-94).

The scope of the investigation included the building and a 15-foot wide perimeter border around the building. This perimeter includes roadways, sidewalks, pavement and grass covered areas. The investigation of Building 43 included the following.

1) A building and perimeter inspection
2) An examination of historical aerial photographs and maps.
3) A review of federal and state regulatory agency records.
4) Personnel interviews.
5) A review of Mound Plant records for:
   A) History of spills and releases
   B) Past sampling data
      - Radiological survey
      - Chemical history
      - Lead paint
      - Asbestos
      - Radon

The building investigation was conducted by EG&G personnel on 5/23/95.

Mound Plant is located in the southern portion of the corporation limits of Miamisburg, Ohio. The entire Mound Plant facility is situated on 305 acres of land and contains approximately 130 buildings. The subject property consists of Mound Plant Building 43 and a 15 foot perimeter border. All areas are *in gross* square feet (external wall to external wall).

Building 43 was constructed in 1970 in an area known as the lower valley. It was constructed to replace and enlarge the explosive processing facility maintained by Building 1. This need became obsolete and the building was assigned to thermite work.

1.2 Statement of Environmental Concerns

Energetic material (thermite dusts) may be present in vacuum and exhaust duct work.

Friable asbestos is present in pipe covering.

Lead is suspected to be in any painted surface.

Refrigerant is contained in the HVAC system.

Fluorescent lights may contain PCBs in the ballasts.

Radiological contamination associated with PRS 75 (soils area/railroad spur) near/under Building 43 is possible.

2.0 Introduction

2.1 Purpose

The purpose of this Building Data Package is to identify, if possible, any recognized environmental conditions (defined below) that may affect the subject property.

2.2 Special Terms and Conditions

Key Site Manager – The Key Site Manager is the person identified by the owner of a property as having good knowledge of the uses and physical characteristics of the property. This individual is frequently, but not necessarily always, the Building Manager. Mr. Robert A. Ward has been designated as the Building Manager for Building 43.

Recognized Environmental Condition – The presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a likely release, a past release, or a material threat of a release of any hazardous substances or petroleum into structures or into the ground, ground water, or surface water near the building. The term is not intended to include *deminimis* conditions that generally do not present a material risk of harm to public health or the environment, and generally would not be the subject of an enforcement action brought to the attention of the appropriate governmental agencies.

2.3 Limitations and Exceptions of Assessment

Building 43 as stated above, is covered by the building footprint, the surrounding concrete roadway, concrete sidewalk, asphalt pavement, and grass covered areas 15 feet around the perimeter of the building. Soil conditions beneath the building and the paved areas could not be observed. Based on the process history of the building and the records of soil investigations in the soil areas near the building, it was determined that further soil samples will be required within the 15-foot perimeter.

2.4 Limiting Conditions and Methodology Used

2.4.1 On-Site Methodology

Mound Plant personnel examined the site on May 23, 1995. This examination consisted of a detailed inspection of the site and a survey of the neighboring properties.

2.4.2 Use of Previous Assessments

This report used a variety of previous assessments completed by EG&G Mound and/or its subcontractors. The reports used were as follows.

- OU-9 Site Scoping Report, Volumes 1-12
- Mound Facility Physical Characterization, December 1992
- Active Underground Storage Plan, November 1994.
- MD-22153, Mound Site Radionuclides By Location, July 1995
- Asbestos Surveys
- Environmental Appraisal of the Mound Plant, March 1996
- Mound Safe Shutdown Plan for Building 43
- Relevant PRS Documentation

2.4.3 Historical Information

A complete title search of the Mound Plant was completed on June 3, 1995 for the site to determine the previous owners of the site. A copy of the report is in Appendix 7.3.

2.4.4 Records Review

Environmental Data Resources (EDR), Inc., of Southport, Connecticut, a regulatory database search company, was contracted in 1995 to provide environmental regulatory information concerning the site and surrounding properties, consistent with the requirements of ASTM Standard E1527-94. This information was reviewed by Environmental Restoration personnel for indications of recognized environmental conditions. (See Appendix 7.4.)

3.0 Site Description

3.1 Location and Legal Description

Building 43 is located at the U.S. Department of Energy Facility known as Mound Plant. Mound is situated in the city of Miamisburg, Miami Township, Montgomery County, state of Ohio, and is being a track of land containing 305.116 acres, more or less, situated in part of Section 30 and fractional Sections 35 and 36, Town 2, Range MRS and being all of city lots numbered 2259, 2290, 4777, 4778, and 4779 and part of out lot #6 lying within the city of Miamisburg, Ohio; and being the same premises convened in Warranty Deeds recorded in Volume 1214, pages 10, 12, 15, and 17, Volume 1215, page 347, Volume 1214, page 2105, Volume 1246, page 45, Volume 1258, page 74, Volume 1258, Volume 1256, page 179, and microfiche no. 81-376A01 and microfiche #81-323. Deed records, maps, and site plans are in Appendix 7.2 and 7.3.

3.2 Site and Vicinity Characteristics

The subject site consists of Mound Plant Building 43 and a 15-foot wide perimeter border around the building. (See Appendix 7.2 and Introductory Pages.)

The Mound facility is situated on 305 acres of land and contains approximately 130 buildings with a total of approximately 1.4 million square feet of floor space (the number of buildings is constantly diminishing as buildings are decommissioned and either sold or demolished). The original 182-acre site, purchased by the Manhattan Engineering District in 1946, consists of two hills and an intervening valley that runs approximately east and west. Building 43 is located in the lower valley. The 124-acre tract, acquired in 1981, is an undeveloped mixture of fields and woods that undulates and slopes downward to the west, away from the main site. This area was acquired to serve as a buffer and has been used as a staging area and parking area for contractors working on-site.

To the west lies a Conrail Railroad line and the north south trending Miami-Erie Canal. The northern boundaries of the site abuts the historic residential area of Miamisburg, Ohio. Mound Road marks the northern half of the eastern perimeter of the facility then veers east, away from the southern half of the eastern boundary. A public golf course (belonging to the City of Miamisburg), the Miamisburg Mound Memorial Park, old agricultural fields, residential lots, and vacant wooded lots border against the facility along Mound Road. Benner Road forms the southern property line of the Mound Plant, with agricultural fields and farms occupying the lands beyond.

3.3 Description of Structures, Roads, Other Improvements on the Site

Building 43 was constructed in 1970 and acted as a laboratory for the development of energetic thermite materials and devices. There were no other structures, roads or improvements that would impact the environmental conditions of the building.

3.4 Information Reported by User Regarding Environmental Liens or Specialized Knowledge or Experience

The title search completed on June 3, 1995 indicated one lien against the property. That resulted from an unpaid Montgomery County incinerator fee. After this was discovered, the fee was paid and the lien was removed from the title.

3.5 Current Uses of Building 43

Building 43 is currently inactive.

3.6 Past Uses of Building 43

Building 43 has had only one use in its history and previously served as a location for the development of thermite materials and devices.

3.7 Current and Past Uses of Adjacent Buildings

Close Proximity to Building	Building Area (Sq. Ft.)	Current Use	Past Use	Direction from Building
1	1,000	Vacant	Explosive Production	SW
74	400	Vacant	Explosive Packaging	SW

These facilities have had no environmental impact on Building 43.

4.0 Records Review

4.1 Standard Environmental Record Sources, Federal and State

Environmental Data Resources (EDR), Inc., of Southport, Connecticut provided information regarding sites in the vicinity of the subject site, which appear in regulatory agency summaries and databases. Sites under the jurisdiction of various regulatory offices or programs were included in the EDR search report, provided in Appendix 7.4.

There are fourteen sites within the appropriate radii for an ASTM Phase I Environmental Site Assessment search. The properties are designated in Table 1 as well as in the EDR report. (See EDR document, Appendix 7.4)

All of the identified sites listed in Table 1 are located north or west of the Mound Plant. These other sites are as much as 170 feet lower in elevation than the Mound Plant main hill; thus they are down gradient or down slope in terms of surface water, and probably ground water flow. These other sites are very unlikely to adversely effect the soil or ground water conditions at the subject site.

The Mound Plant site was identified as a contaminated site on the National Priority List under CERCLA (Superfund) in 1989. The Mound Plant site was originally listed as a consequence of historic disposal practices including use of a commercial/industrial landfill, various spills, and the use of underground storage tanks, resulting in the contamination of soils and drinking water. The original contaminants of concern were calcium cyanide, copper cyanide, plutonium and its isotopes and compounds, specifically plutonium-238, and uranium, its isotopes and compounds.

The clean-up of the Mound Site was originally to be accomplished under the CERCLA mandated procedures for regulating Superfund Sites using the operable unit (OU) system to define and characterize clean-up areas. As the clean-up effort went forward, it became apparent that the Mound Site did not fit the profile for a clean-up strategy based on the operable units. The Department of Energy (DOE), the United States Environmental Protection Agency (USEPA), and the Ohio Environmental Protection Agency (OEPA) designed a new decision making process for the clean-up of Mound. The new process is known formally as a "removal site evaluation process" and informally as the "Mound 2000 process." The Mound 2000 process system divided Mound in 19 Release Blocks containing over 400 Potential Release Sites (PRSs) with approximately 200 concerned with potentially contaminated soils, and the balance with potential contamination in buildings.

In compliance with permit requirements under RCRA, the Clean Water Act (CWA), the Safe Drinking Water Act (SDWA), and the Clean Air Act (CAA), Mound Plant has applied for or has received permits for its surface water discharges, air emissions, and hazardous waste program. Mound Plant has submitted both RCRA Part A and Part B permit applications and operates as a RCRA hazardous waste treatment and storage facility under an interim status. Mound Plant also maintains a NPDES surface water discharge permit with Facility I.D. number OH 009857. Permits for the open burning of wastes involving explosives and other fuels have been issued by the Regional Air Pollution Control Agency (RAPCA). Other operations that produce particulate or vaporous emissions are registered with RAPCA and OEPA. Mound Plant also submits annual Emergency and Hazardous Chemical Inventory forms to the OEPA, pursuant to SARA, Title III, the Emergency Planning and Community Right-to-Know Act. The 1995 version of this report indicated that no chemicals are stored in Building 43.

Table 1. Properties of ASTM Phase 1 Environmental Sites Assessment

Address and Property Name	Proximity	Status
U.S. DOE Mound Plant	Mound Road Miamisburg, OH (target property)	NPL, PADS, CERLIS, LUST, & TRIS
D.J. Ceramics	611 S. Main Street Miamisburg, OH (WNW)	LUST
CG&R	901 S. Main Street Miamisburg, OH (W)	LUST
GMC Delco Products Division	329 E. First Street Miamisburg, OH (NNW)	RCRIS-SQG, FINDS
Dayton Public Schools	348 W. First Street Miamisburg, OH (NNW)	RCRIS-SQG, FINDS
City of Miamisburg Pump Station	1021 S. Main Street Miamisburg, OH	UST
Richard Church, Sr. Estate	1009 S. Main Street Miamisburg, OH	LUST
Preston Adhesive Paper Co., Inc.	222 Mound Avenue Miamisburg, OH (N)	RCRIS-LQG, FINDS
Plocher Andrew Sons	4128 E. First Street Miamisburg, OH (N)	RCRIS-SQG, FINDS
Shell Oil Co.	1224 S. Main Street Miamisburg, OH	LUST
Point Store	155 S. Main Street Miamisburg, OH (N)	LUST
Miamisburg Water Treatment Plant	302 S. Riverview Miamisburg, OH (NW)	LUST
Miamisburg Well Field/Unknown Source	302 S. Riverview Miamisburg, OH (NW)	LUST
Technicote, Inc.	222 Mound Avenue Miamisburg, OH (N)	RCRIS-SQG, UST, LUST

4.2 Physical Setting Sources(s)

See Appendix 7.2.

4.3 Historical Use Information

A history of the site was developed to identify past uses that may have an environmental impact. A title search was performed on June 3, 1995 to establish a history of ownership. The history of operations comes from other documents. In the summer of 1942, the United States Army organized the Manhattan Engineering District for the purpose of developing an atomic bomb. This undertaking became known as the "Manhattan Project." In 1943, the director of Monsanto Chemical Company (MCC, now Monsanto Corporation) Central Research department in Dayton, Ohio, accepted the responsibility for chemistry and the metallurgy of radioactive polonium-210, and the Dayton Project was launched. MCC operated five (5) units of the Dayton Project at various locations around the Dayton area. For Dayton Unit V (more formally known as the Dayton Engineer Works under the Dayton Engineer District), a 128-acre site on the outskirts of the town of Miamisburg, Montgomery County, Ohio, was selected in 1946 as the location for a permanent research facility in support of the Manhattan Project. In July 1946, the Monsanto Research Corporation (MRC), a subsidiary of MCC, engaged the firm of Giffels and Vallet of Detroit, Michigan, to design the plant. Construction of the new facility, consisting of fourteen (14) original buildings began in February 1947 by Maxon Construction Co., Dayton, Ohio. The plant was the first permanent facility of the Atomic Energy Commission, which succeeded the wartime Manhattan Engineering District. The Mound Plant was occupied by MRC personnel in May 1948 and operations involving radionuclides began in January 1949.

Mound Plant is a Government Owned/Contractor Operated (GOCO) facility, originally administered under the Oak Ridge Operations office of the AEC. The plant was assigned new production and development functions in 1955 when the administrative control was assumed by the AEC's Santa Fe operations office. The Santa Fe Operations Office was changed to the Albuquerque Operations office in April 1956. In January 1975, upon the dissolution of the AEC, the plant formally came under the Energy Research and Development Administration. In October 1977, the plant was incorporated into the DOE complex and the facility designation was changed from Mound Laboratory to Mound Plant. MRC was the sole operating contractor until October 1988 when EG&G Mound Applied Technologies took over.

4.4 Additional Record Sources

4.4.1 History of Past Spills and Releases

There are no records of past spills or releases associated with Building 43.

4.4.1.1 Associated PRS Overview

As a result of the investigations and documentation conducted to comply with the CERCLA cleanup process via the FFA/DOE ER program, DOE and EG&G Mound Applied Technologies have tabulated all the Potential Release Sites (PRSs). Many additional contaminants of concern and types of operations were identified beyond the original NPL listing of site activities. A total of 414 PRSs have been identified. Three (3) PRSs are of interest - PRSs 23, 24, and 75. PRSs 23 and 24 are attributed to operations in Building 43.

PRS 23 - (UGT #201) was identified as a PRS because of the nature of the chemicals potentially contained as a waste water settling basin in a planned explosive production process. Neither the process nor the tank was ever used. This PRS has been binned "No Further Assessment." See Appendix 7.2.4.

PRS 24 - (UGT #221) was identified as a PRS because it was originally designed to store acetone and alcohol solvents for use in the Building 43 production. It was never used and was removed in 1990. This PRS has been binned "No Further Assessment." See Appendix 7.2.4.

PRS 75 - Identified as an abandoned and dismantled extension of the Mound Plant railroad spur extending from north of Building 1, east and under Building 43, to a location near the old Warehouse 9. This PRS was binned RA due to radiological contamination. See Appendix 7.2.4 for the PRS 75 narrative. Reference is made to the pictures and graphics of this Building 43 Building Data Package.

4.4.1.2 Occurrence Reports

There are no occurrence reports associated with Building 43.

4.4.2 Past Sampling Data

4.4.2.1 Radiation

A radiation survey was conducted on Building 43 on September 25, 1995. A wipe and scan survey was accomplished per the requirements of the Property/Waste Release Evaluation (P/WRE). The Radiological Characterization Summary indicates that no radiological contamination was detected above the DOE 5400.5 Guidelines, NUREG 1500 Guidelines or the Attachment 1 Limit (MD-90043). See the following Table 2 and Appendix 7.6.1.

4.4.2.2 Chemical

The bulk of the chemicals used in Building 43 were the oxides of iron and copper, and aluminum metal powder. Some materials were used as thermite modifiers, e.g., Nickel oxide or Nickel or Titanium metal powders. Various inorganic chemicals were on hand in small quantities to support the general R&D. (See Appendix 7.6.4.) Acetone was commonly used in small quantity and evaporation was the disposal method. Alcohol was sometimes used as a solvent/cleaner. Miscellaneous epoxies, cements, tapes, paint and lubricant sprays were used to facilitate device fabrication. The Thermite materials were burned as devices or test vehicles or as waste; these energetic materials were destroyed in the explosive "burn" area. The used alcohols and acetone evaporated. Other chemicals used were not hazardous and wastes went into the general trash. All bulk chemicals were removed in July 1995 for dispensation by Waste Management. See Appendix 7.6.4.

4.4.2.3 Lead Paint

A survey for lead was not made. The use of lead paint is suspected. See Appendix 7.6.3.

4.4.2.4 Asbestos

An asbestos survey was accomplished. There is friable asbestos in the pipe insulation in Room 7. Roofing and floor tile contain non-friable asbestos. See Appendix 7.6.2.

4.4.2.5 Radon

The radon survey of April 1990 reported radon present at 0.5 p Ci/l, i.e., ten times below the acceptable guideline level.

4.4.3 Chemicals Removed After Mission End

See Appendix 7.6.4, 1994 inventory and the Chemical Waste Disposal list.

4.4.4 Reviews of Building Prints

Building prints were reviewed and included in Appendix 7.2.3.

4.4.5 Aerial Photographs

Aerial photographs from 1994, 1983, 1973, 1968, 1965, 1959, 1949, and 1938 were reviewed and copies are found in Appendix 7.2.5.

The 1938 photograph shows that the Mound Plant site was agricultural fields and undeveloped wooded lots. The historic Miamisburg Indian Mound is visible for a location reference.

The 1949 photograph shows the completed initial phase of construction on the Mound Plant Main Hill. Approximately fourteen (14) buildings are visible. Roadways on both the Main Hill and the eastern hill are present.

The overall Mound Plant facilities, as depicted in the 1968, 1973, 1983, and 1994 photographs continue to show change and expansion.

Building 43 is visible in the 1973 aerial photograph.

Table 2

Radiological Characterization Summary

Building 43

TYPE	RSDS	LOCATION	SURVEY RESULTS (dpm/100 cm2)	5400.5 Guidelines for Groups 1, 3, 4 (fixed + loose) (dpm/100 cm2)	NUREG 1500 Guidelines (loose) (dpm/100 cm2)	Attachment 1 Limit (fixed + loose) (See Note 2.) (dpm/100 cm2)	COMMENTS
Highest Alpha Smearable Activity	97-GA-213		1.44	20	211	20	<MDA
Highest Alpha Fixed Activity			ND	100	Note 1	100	ND FIDLER
Highest Beta Smearable Activity	97-GA-213		1.45	1,000	9940	1,000	<MDA
Highest Beta Fixed Activity			ND	5,000	Note 1	5,000	ND FIDLER
Highest Tritium Smearable Activity			23.4	1,000	Note 1	1,000	<AL

Note 1: NUREG-1500 gives guidelines for loose beta and alpha only.
Note 2: The limits referenced above are based on MD-80043, Radiological work Requirements Procedure 400 "Transfer of Radioactive Material and Unrestricted Release of Property/Waste," Attachment 1.
Note 3: ND=Non-Detectable Swipe
Note 4: ND FIDLER=Non-Detectable Using FIDLER
Note 5: AL = Action Level
Note 6: MDA=Minimum Detectable Activity

5.0 Site Reconnaissance

5.1 Hazardous Substances in Connection with Identified Uses

5.1.1 Space

Building 43 is not in use at this time. There are no indications of the presence of hazardous substances, although it is supposed that thermite dusts are present in the vacuum line and exhaust duct work.

5.1.2 Heating/Cooling

Steam for heating is provided to Building 43 via an above ground system of distribution piping running from the powerhouse (Building P).

Ventilation was provided to Building 43 through a roof mounted HVAC system.

5.1.3 Stains or Corrosion

Other than an oil stain on the floor, no stains were observed that would indicate residual chemicals or contaminated waters are present in the facility or drains.

5.1.4 Drains and Sumps

Building 43 is served by a sanitary drain line. Three sinks, one shower and one toilet are connected there also. A storm drain takes water from two roof down spouts and from surface water. There are no indications of materials other than storm water flowing into these drains. A sump, UST-201, is connected to the west side of the building. This tank was a part of the original design of the facility in which to settle solids from waste wash water, but has never been used.

5.1.5 Wastewater

Potable water and sanitary service was provided for Building 43. The Mound Plant facility operates an on-site sanitary and storm water sewer treatment plant (Building 57) to manage the plant's storm water and sanitary waste water pursuant to a National

Pollution Discharge Elimination System (NPDES) permit issued by OEPA. The wastewater that was generated in the building was simple wash or sanitary water.

5.1.6 Septic Systems

No evidence of a septic system was noted or is known to have ever existed in the immediate vicinity of the building.

5.1.7 Asbestos

Observations were consistent with the report on asbestos in Section 4.4.2.4.

5.1.8 Lead Paint

Painted surfaces were noted. Lead paint is suspected. Paint observed to be in good condition. No excessive wear noted.

5.1.9 Fluorescent Lamps

Fluorescent lamps were utilized in Building 43 for overhead lighting. The lamps are still present.

5.2 Hazardous Substance Containers and Unidentified Substance Containers

Process history indicates that the waste water/solvent sump was never used. UST-201 contains water, from snow or run-off.

5.3 Storage Tanks

No storage tanks are associated with the building. PRS 24, a solvent storage tank, was never used and was removed in 1990.

5.4 Indications of PCBs

Fluorescent lighting was used in this building. Since Building 43 was constructed before the 1979 ban on PCBs in lamp ballastics, it is possible that lamp ballast capacitors may contain PCB. No wet type transformers were utilized in the building. There were no other indications of PCBs in the building.

5.5 Indications of Solid Waste Disposal

No solid waste was observed in the building. No evidence of hazardous waste was noted in the immediate vicinity of the building.

5.6 Physical Setting Analysis, If Migrating Hazardous Substances Are An Issue

There are no migrating hazardous substances associated with the building.

5.7 Other Conditions of Concern

Fine thermite dusts generated via machining and other processing were picked up through a vacuum line or in the fume hood exhaust. It must be assumed that thermite dusts still exist in the internal duct work.

PRS 75 is an abandoned and dismantled extension of the Mound Plant railroad spur extending from north of Building 1, east and under Building 43, to a location near the old Warehouse 9. This PRS was binned RA due to radiological contamination.

5.8 Interviews

Information gained in discussions with the following personnel and the historical information have been incorporated within this document.

5.8.1 Recent Interviews

The current Building Manager, Mr. Robert Ward, has been employed at the Mound plant for 20 years and the Building Manager of this building for the last 3 years.

5.8.2 Historical Interviews

Mr. D.A. Buckner has been employed at Mound for 15 years. He was the Building Manager and Supervisor of Building 43 operations from 1982 until 1994.

6.0 Findings and Observations

Mound Personnel accomplished this Building Data Package for Building 43. The following is derived:

Energetic material (thermite dust) contamination is suspect and must be evaluated.

Radiological: No radiological materials were housed within the building. A final safe shutdown survey did not detect any radiological contamination such that might have been tracked in accidentally. PRS 75 soils contamination must be determined and removed.

Lead Paint: A survey of the paint was not done. Because of the age of the building, all painted surfaces must be suspect of containing lead.

HVAC Refrigerants: The HVAC refrigerants will be retained for use by a new landlord; or if demolition is recommended, will be disposed according to law or will be salvaged.

Asbestos: Asbestos is suspected in some tile and roofing materials. Pipe covering in Room 7 (equipment room) does contain friable asbestos.

Fluorescent lights may contain PCBs in the ballasts.

Based on the process history of the building, the records of soil investigation in the soil areas near the building, it was determined that no further soil samples were required in the 15-foot perimeter boundary. However, due to the close proximity of PRS 75, soil sampling will be performed prior to release of the building or building site.

6.1 Environmental Concern Evaluation (Matrix)

See the following table.

BUILDING #43: ENVIRONMENTAL CONCERN EVALUATION

DESCRIPTION	PROBLEM?	COMMENT	PROPOSED RESOLUTION	REFERENCE
Energetic Material (Thermite) in exhaust ducts and vacuum line.	No	Fine dusts (airborne) adherent in duct work.	Decontamination	Para. 5.7
Lead	No	Painted surfaces	Verify, dispose	Para. 4.4.2.3
HVAC	No	Refrigerant	Salvage, dispose	Para. 5.1.2
Asbestos	No	Pipe wrap, floor tile, roofing	Remove ACM	Para. 4.4.2.4
Fluorescent	No	PCB in ballasts	Removal	Para. 5.1.9
Metals	No	Metal Lathing	Removal	Para. 5.7
Chemicals	No	Oil Spill	Evaluate, remove, demolish	Para. 5.1.3
Radiological	No	PRS 75 Soils	Sample, remove	Para. 4.4.1.1

7.0

7.0 Appendices

7.1

Appendix 7.1 Acronyms

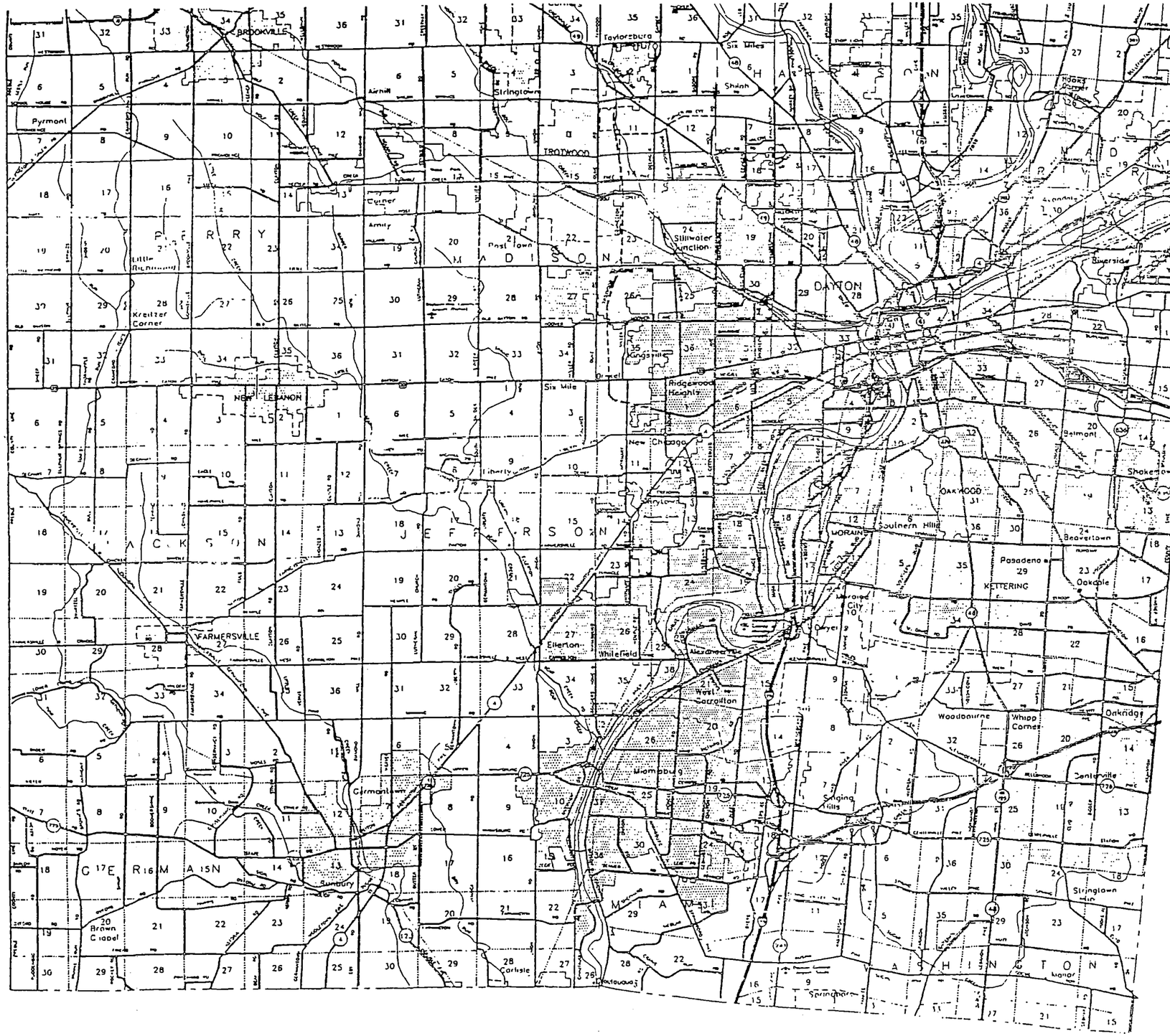
AEA	Atomic Energy Act of 1954
AEC	Atomic Energy Commission
ACM	Asbestos Containing Materials
AL	Action Level
ASTM	American Society for Testing and Materials
BUSTR	Bureau of Underground Storage Tank Regulations
CAA	Clean Air Act
CEG	Conditionally Exempt Generator
CERCLA	Comprehensive Environmental Response, Compensation & Liability Act
COD	Chemical Oxygen Demand
CWA	Clean Water Act
COD	Chemical Oxygen Demand
CWA	Clean Water Act
D&D	Decontamination and Decommissioning
DOE	U.S. Department of Energy
DPM/100 cm^2	Disintegration Per Minute per one hundred square
EMF	Electromagnetic Field
EPA	U.S. Environmental Protection Agency
ER	Environmental Restoration (Program)
ERDA	Energy Research and Development Administration
ERNS	Emergency Response Notification System
FFA	Federal Facility Agreement
FINDS	Facility Index System
FS	Feasibility Study
GSA	General Services Administration
HEPA	High Efficiency Particulate Air
LQG	Large Quantity Generator
LUST	Leaking Underground Storage Tank
M&O	Maintenance and Operations
MAT	Mound Applied Technologies
MCC	Monsanto Chemical Company
MDA	Minimum Detectable Activity
MEMP	Mound Environmental Management Project
MMCIC	Miamisburg Mound Community Improvement Corporation
MRC	Monsanto Research Corporation

ND	Non-Detectable Swipe
ND FIDLER	Non-Detectable using FIDLER
NPDES	National Pollutant Discharge Elimination System
NUREG	Nuclear Regulatory Guide
OEPA	Ohio Environmental Protection Agency
ORPS	Occurrence Reporting and Processing System
PADS	PCB Activity Database
PCB	Polychlorinated Biphenyls
PRS	Potential Release Site
P/WRE	Property/Waste Release Evaluation
RAPCA	Regional Air Pollution Control Agency
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
RI	Remedial Investigation
RSDS	Radiological Survey Data Sheet
SARA	Superfund Amendments and Reauthorization Act
SDWA	Safe Drinking Water Act
SHWS	State Hazardous Waste Site
SQG	Small Quantity Generator
SWMU	Solid Waste Management Unit
TRIS	Toxic Chemical Release Inventory System
TSD	Treatment, Storage, & Disposal Facility
UST	Underground Storage Tank
VOC	Volatile Organic Compound

7.2

Appendix 7.2 Maps, Figures, and Photographs, and PRS Supplemental Information

Appendix 7.2.1 Map of Montgomery County



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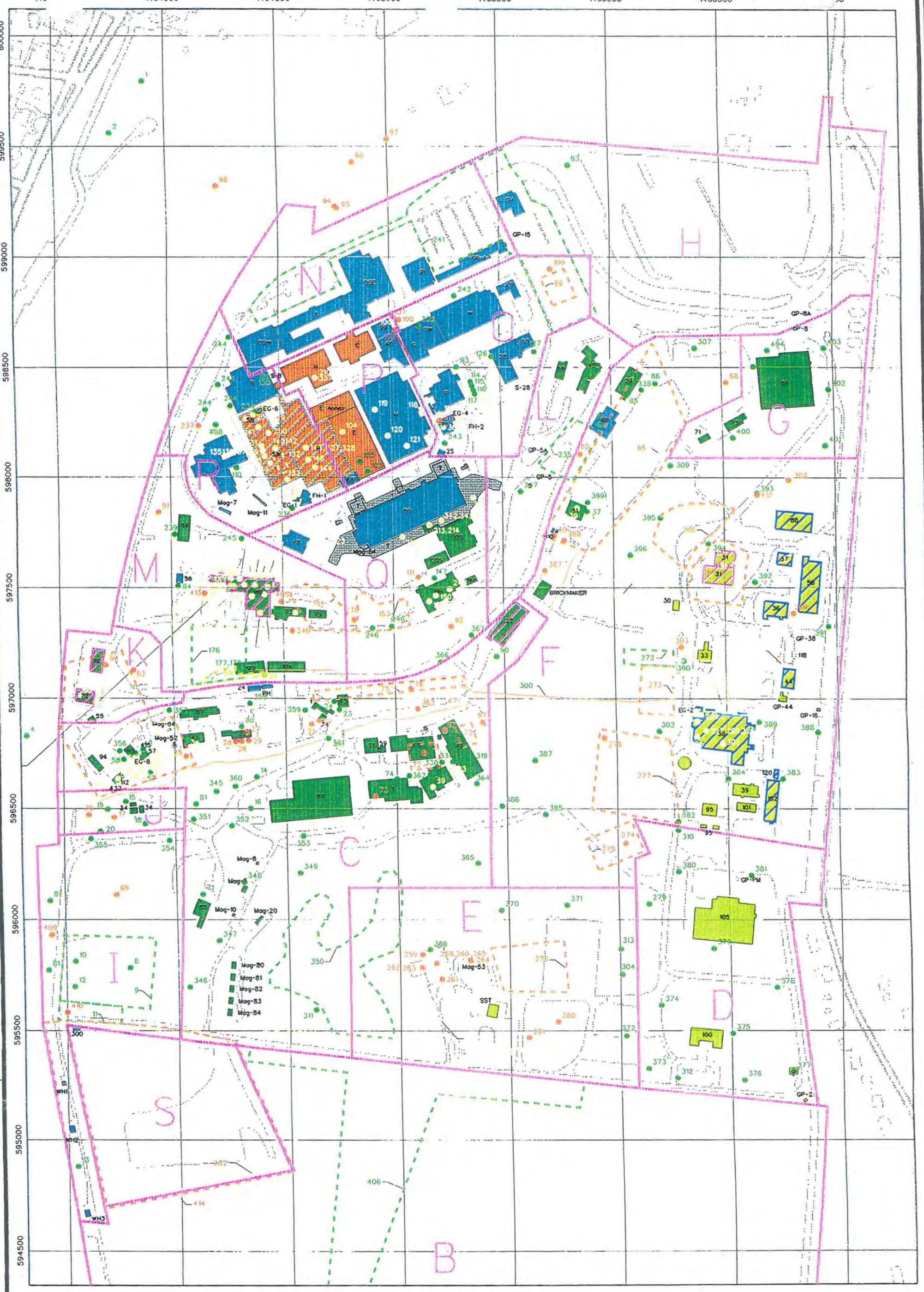
SCALE IN MILES

REX A. DICKEY, P.E.,P.S.

MONTGOMERY COUNTY ENGINEER

FEBRUARY, 1992

Appendix 7.2.2 Site Plan and PRS Release Blocks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F E E D L O T
S E C T I O N
Test Fire Valley
SM/PP Hill
Main Hill Non-RAD
Waste Management
Main Hill Tritium
Main Hill RAD
Isotope Power
PRS STATUS
D & D PRS's
NFA PRS's
NFAPS PRS's
RA,FA,UB PRS's
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Scale in Feet
MOUND
Environmental Restoration Geographic Information System
SHEET 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
ISSUE
SHEET 1 2 3 4 5 6
ISSUE *
PART CLASSIFICATION
( ) TITLE CLASSIFICATION
Building Ownership with PRS's
DRAWING CLASSIFICATION UNCLASSIFIED
SIZE D
DRAWING NUMBER FSD*
JOB NUMBER *
DWG TYPE *
FRMG
CAGEC *
SCALE *
SHEET 1 OF *
STATUS MD-REL-**/**/**
ORIGIN MSTATION 5.0
ISS DATE REVISION BY CHKR ENG M
DRAWING NUMBER FSD*

Appendix 7.2.3 Building Drawings

ISS	DATE	REVISION	DR	CHKR	ENG	LPMEC	APVD	R
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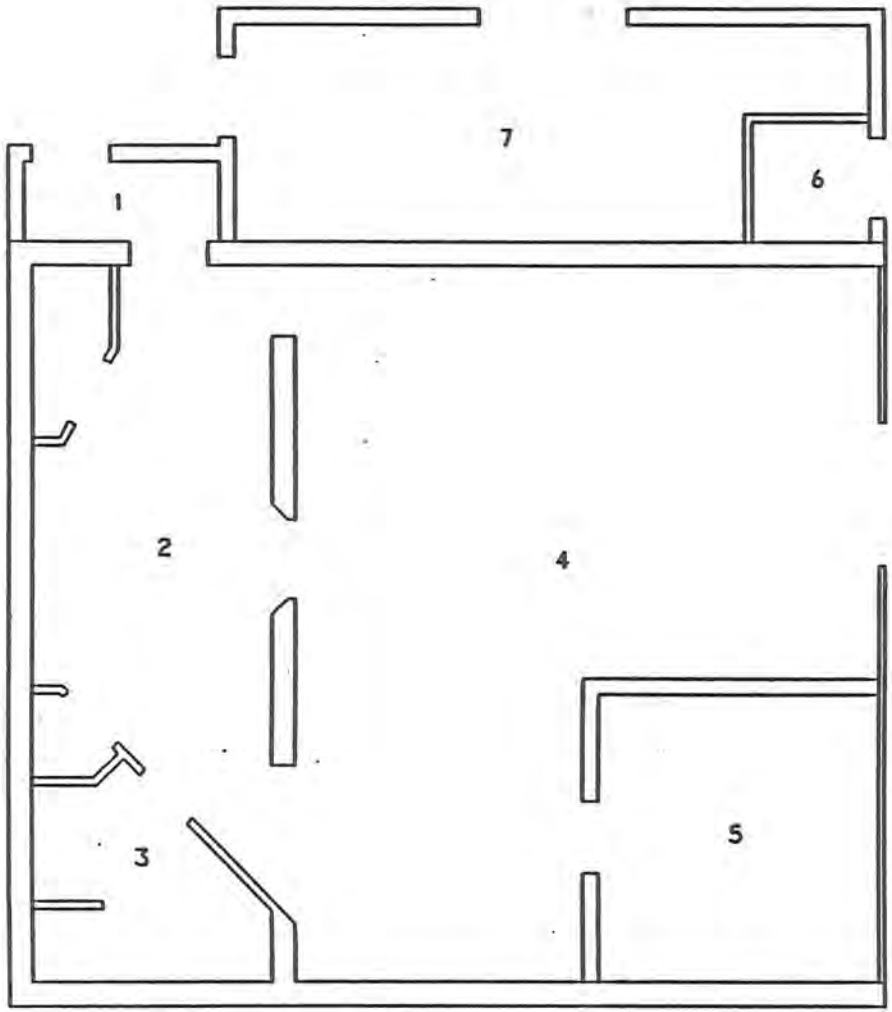


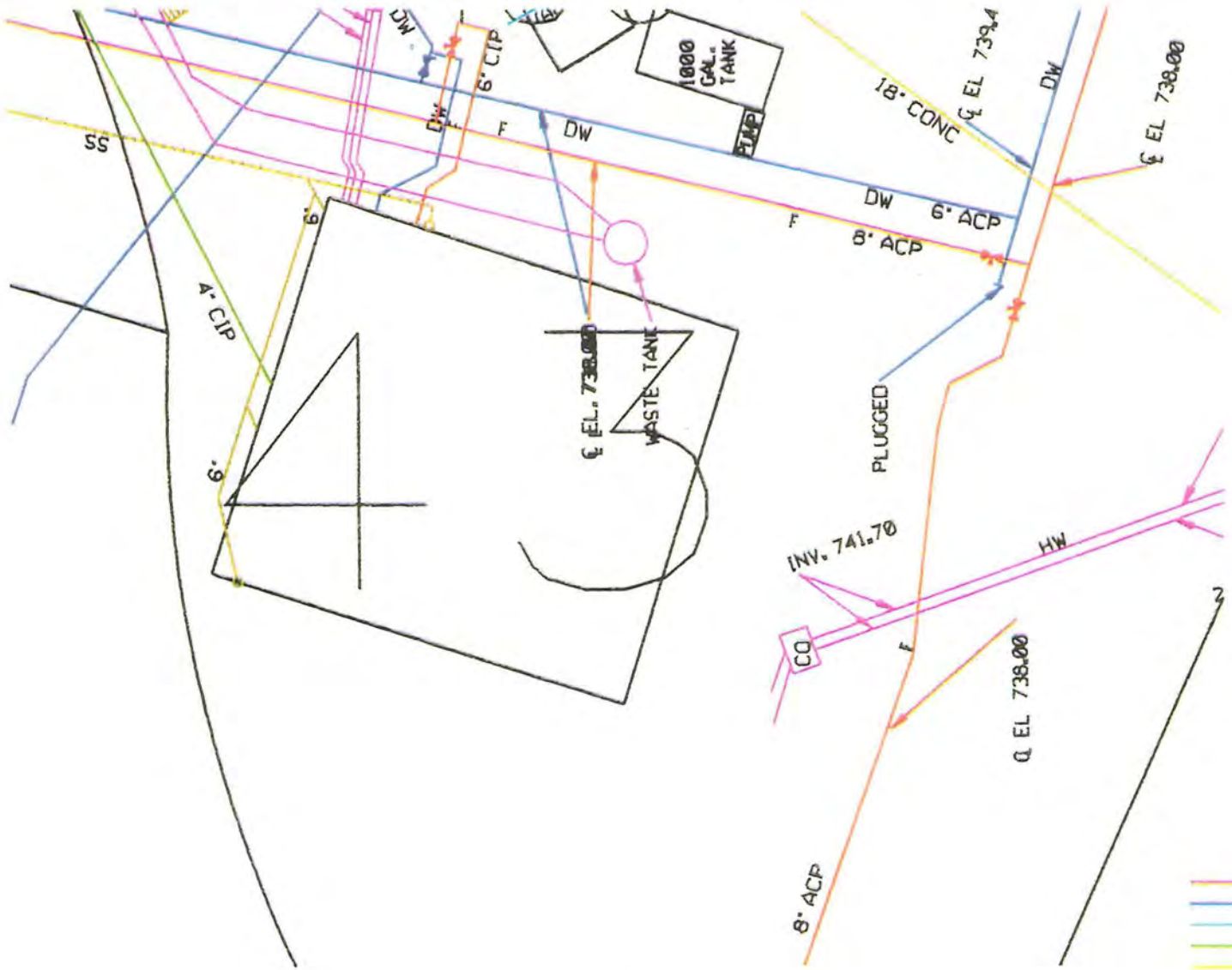
BLDG #43
FIRST FLOOR
BLDG CODE:3043

SHEET 1 2 3 4 5 6	TITLE BLDG #43 FLOOR PLANS				(U) TITLE CLASSIFICATION
ISSUE 0	PART CLASSIFICATION				
	DRAWING CLASSIFICATION UNCLASSIFIED	SIZE C	DRAWING NUMBER FSC911253		JOB NUMBER 12335
	DWG TYPE SFP	FROM BLDG #43	CAGE 14065	SCALE AS NOTED	SHEET 1 OF 1
	STATUS MD-REL-12/12/91		ORIGIN MD-BRJ-V3.0		

APPROVALS: DATE:
SAFETY COMMITTEE REQUIRED:
__NONE __TRIENNIC __YEARLY __EVENT
TECH REP. _____ _____
SR. MGR. _____ _____
TRIENNIC _____ _____
YEARLY _____ _____
EVENT _____ _____

DESIGN ENG | DRAW NUM
SPONS | DWG SUPV
L/P & EC | PROJ REV
DWG TYPE
APVD | DATE

9.65-57



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UNCLASSIFIED

E.G. & G. - MOUND

UNDERGROUND WATER & WASTE LINES
BLDG. 45

DATE: 2/29/96

Appendix 7.2.4 PRS Supplemental Information

MOUND PLANT
PRS 23
SOLVENT WASTE TANK - BUILDING 43 SETTLING BASIN

RECOMMENDATION:

PRS 23 was identified as a concrete tank (tank 201) that was installed in 1969 to filter and settle-out explosive elements from a planned explosive production process slated to be housed in Building 43. The proposed use of Building 43, to purify explosive materials, never took place. Consequently, tank 201 was never used in any process. Therefore, NO FURTHER ASSESSMENT is recommended for PRS 23.

CONCURRENCE:

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

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

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

SUMMARY OF COMMENTS AND RESPONSES:

Comment period from 2/27/97 to 4/3/97

☒ No comments were received during the comment period.

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

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 24.

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 2/27/97 to 4/3/97

☒ No comments were received during the comment period.

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

MOUND PLANT
PRS 75
SOIL CONTAMINATION
HISTORICAL RAILROAD SPUR AREA

RECOMMENDATION:

Potential Release Site (PRS) 75 is a soils area in the vicinity of the railway siding. This PRS was created due to its use as a radioactive drum storage, loading, unloading, and repackaging area. Plans call for the rail siding to be considered an active site, instrumental in the shipment of contaminated soils from the Mound plant.

Mutiple soil samples taken from the PRS 75 area have recorded concentrations of thorium-232 and plutonium-238 in excess of guideline criteria. Radium-226 and uranium-238 has also been found in excess of guideline in at least one sample. Plutonium-238 has been reported as high as 573 pCi/g (Mound ALARA guideline criteria is 25 pCi/g). Thorium-232, radium-226, and uranium-238 have been reported as high as 107 pCi/g, 14 pCi/g, and 13.5 pCi/g, respectively (regulatory guideline criteria for thorium-232, radium-226, and uranium-238 is 5 pCi/g).

Therefore, due to soil radiological concentrations which present an unacceptable risk to potential future construction activities at PRS 75, a <u>RESPONSE ACTION</u> is recommended.

CONCURRENCE:

DOE/MB: Arthur W. Kleinrath — 11/21/96
Arthur W. Kleinrath, Remedial Project Manager (date)

USEPA: Timothy J. Fischer — 11/21/96
Timothy J. Fischer, Remedial Project Manager (date)

OEPA: Brian K. Nickel — 11/21/96
Brian K. Nickel, Project Manager (date)

SUMMARY OF COMMENTS AND RESPONSES:

Comment period from 11/29/96 to 01/01/97

[X] No comments were received during the comment period.

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

Page R

Date: November 17, 1997

REFERENCE: Response to Building 43, Release Block C, October 1997 by Ohio EPA and ODH/BRP

General Comment

There is no reference to PRS 75 in the text or the Building 43: ENVIRONMENTAL CONCERN EVALUATION. A description of the PRS needs to be included in Section 4.4.1.1 of the text and in the Building 43: ENVIRONMENTAL CONCERN EVALUATION. This PRS was binned on May 16, 1996 as a response action based on radioactive contamination.

Also, exactly where are the boundaries of PRS 75? What were the locations of the original railroad spur? The building data package indicates the PRS 75 boundaries extend under Building 43. According to Doug Draper, Babcock & Wilcox of Ohio (BWO), the tracks used to extend past and under Building 43. This represents a concern due to loading and off-loading of material and known radioactive contamination associated with PRS 75 (see the PRS 75 package). The computer-enhanced photo at the beginning of the Building 43 package does not have PRS 75 boundaries consistent with the PRS 75 package. PRS 75 also has high levels of radioactive contaminants which may effect Building 43. The Response Action for PRS 75 is scheduled to occur late in the clean up due to continued use of the rail spur for radioactive waste shipment.

During the inspection of Building 43, it was noted by BWO staff that there had been a cesium and uranium clean up within close proximity of Building 43. It is not known whether or not verification of this clean up occurred. Since it was indicated in the October 22, 1997 building meeting that Building 43 will be demolished, it may be best to address questions regarding PRS 75 in relation to the building by the Mound 2000 Soils PRS Core Team and the response action for PRS 75. If Building 43 remains and is reused, we will need to address protectiveness for any occupant before and during the response action for PRS 75.

> *PRS 75 is now addressed in the Building Data Package for Building 43 (BDP 43). It is the abandoned and dismantled railroad spur with boundaries extending from north of Building 1, east and under Building 43. It is not correctly portrayed in the original PRS 75 package. This package shows the spur terminating at its current position. Only the extreme western edge of PRS 75 is addressed by the current, original PRS 75 document. That part of PRS 75 that affects Building 43 D&D and demolition will be addressed as part of these activities. In general, BWO concurs that it is best to address (remaining) questions regarding PRS 75..."by the Mound 2000 Soils PRS Core Team and the response action for PRS 75." Additionally, the following information is provided in further clarification of the noted cesium and uranium clean up.*
>
> *Low levels of cesium-134 and cesium-137 contamination were detected approximately 10 feet north of Building 43 during the removal of the WTS line using a newly acquired portable hyperpure germanium detector. The contaminated area was very small, less than one square foot in diameter. The contamination was investigated because a FIDLER survey conducted prior to the line removal detected contamination with an unusual response. The contamination was completely removed during the removal of*

the line.

The possible uranium contamination was detected during the same WTS line removal operation. The contamination was discovered in the middle of the roadway approximately 30 feet east of Building 43. Again the contamination was first detected by unusual FIDLER readings. However, the portable hyperpure germanium detector was not available. Soil screening did not indicate the presence of Pu-238 or thorium, but did indicate a general increase count rate in the overall spectrum. This same phenomena was observed later from a sample that had confirmed uranium contamination. A few years following the WTS line removal project, a sanitary (?) line was put in to the Test Fire area. This line was routed through the middle of the street through the area where the contamination had been discovered. A Rad Tech was assigned to closely monitor the job, especially in this specific area. No elevated FIDLER readings or soil screening samples were encountered during this installation.

Appendix 7.2.5 Aerial Photographs

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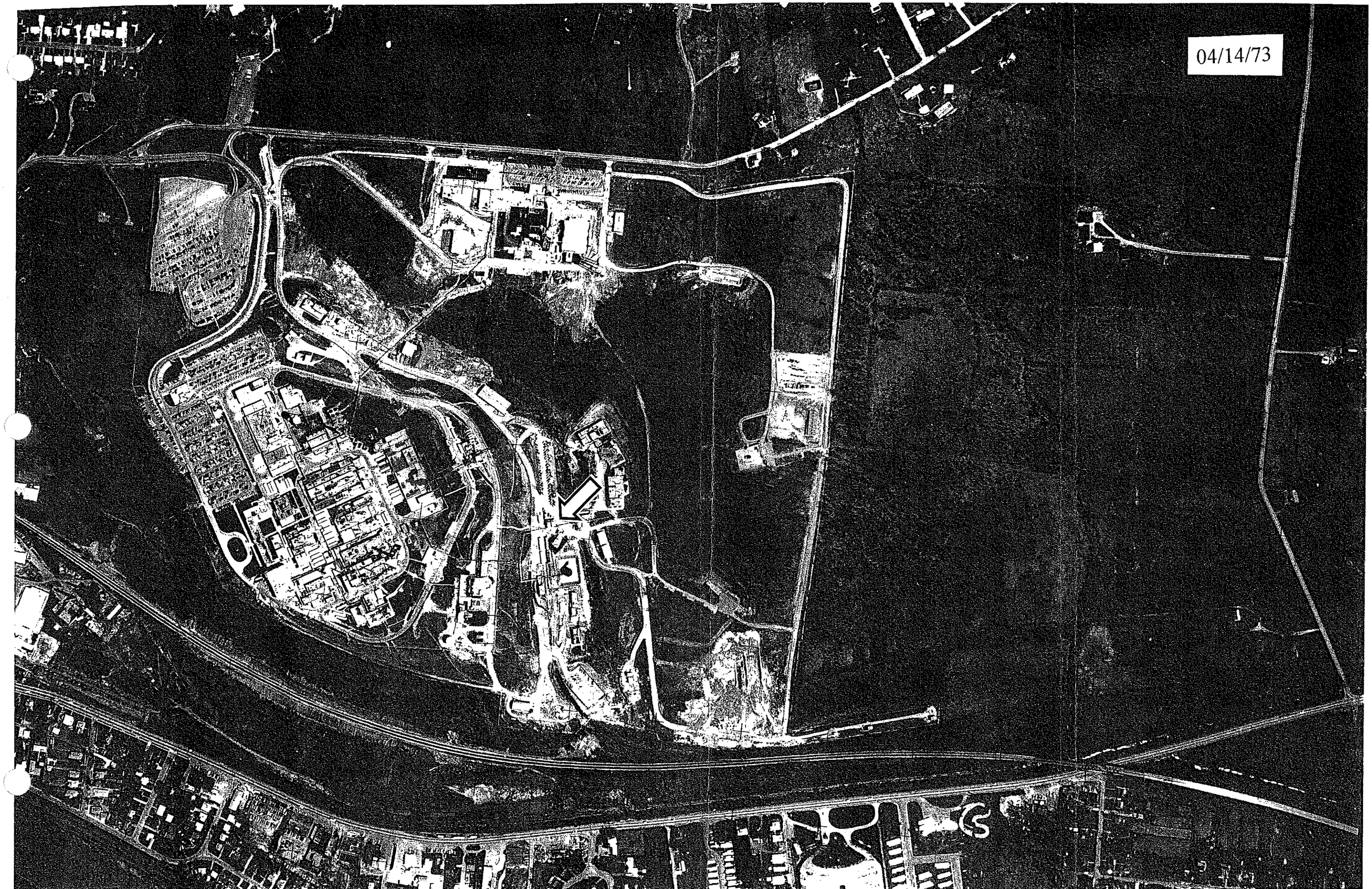
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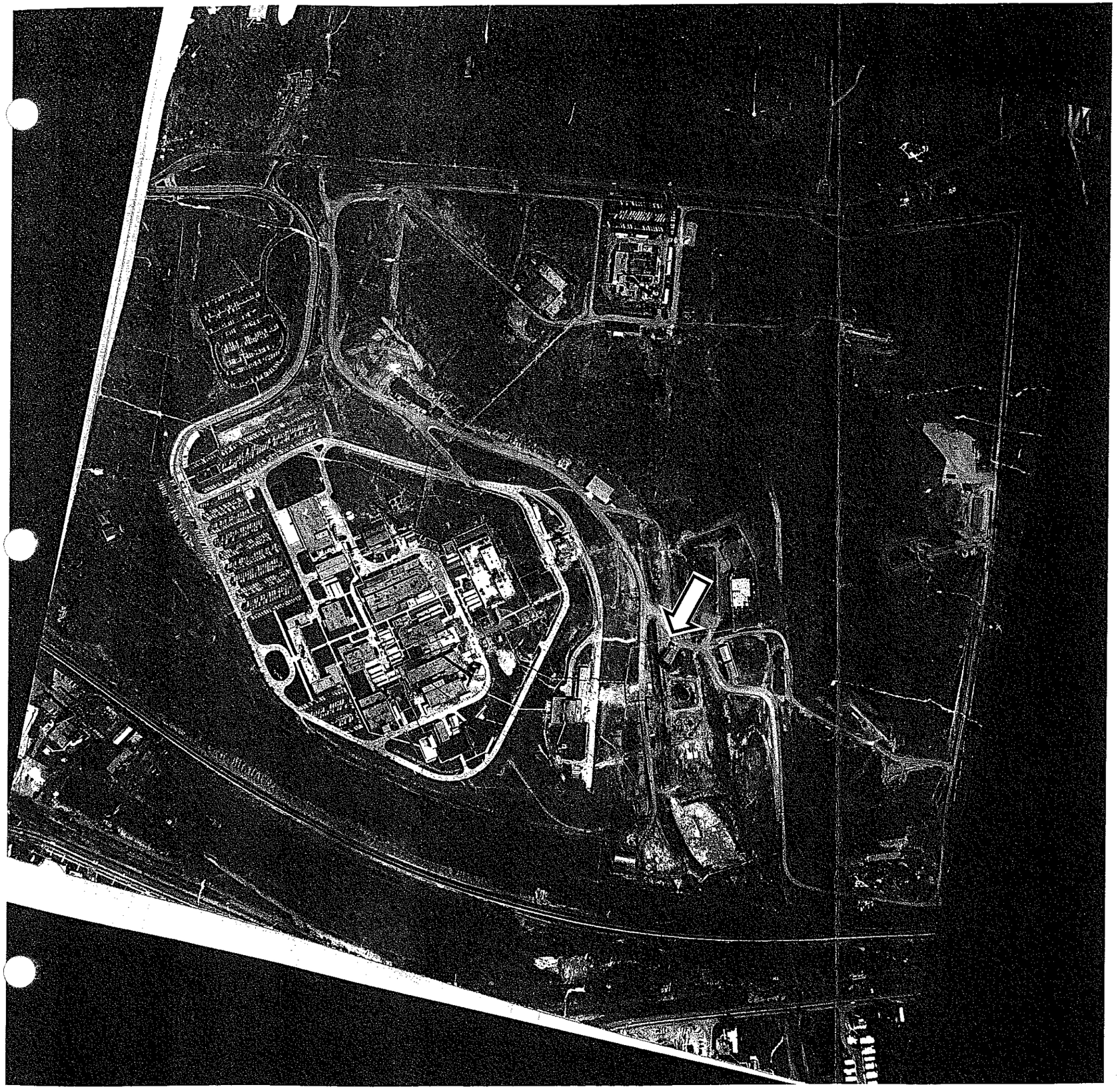

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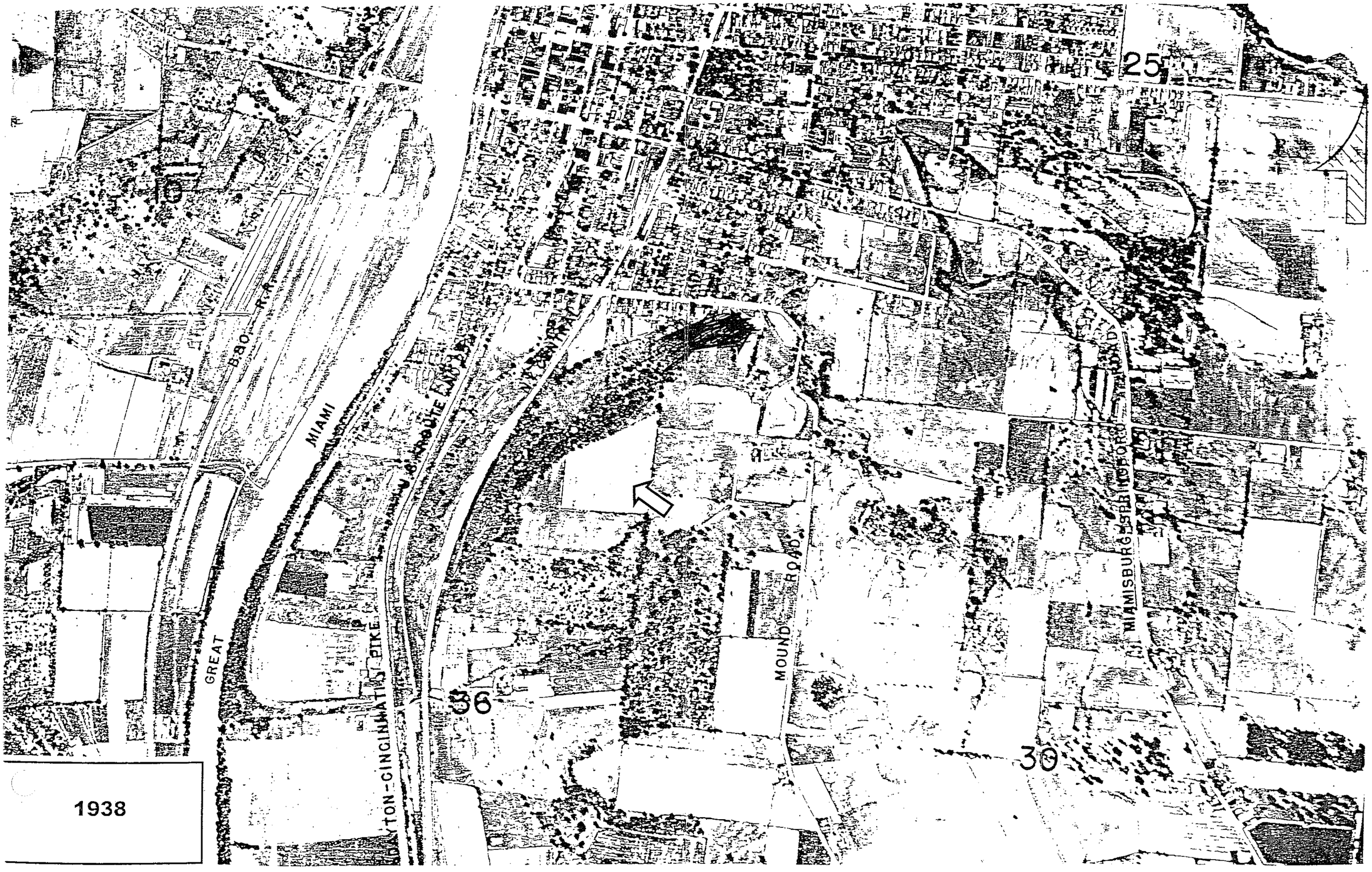
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Appendix 7.3 Ownership/Historical Documentation: "Title Search"

FORM 1020
TITLE INSURANCE
COMMITMENT

COMMITMENT FOR TITLE INSURANCE

First American Title Insurance Company

FIRST AMERICAN TITLE INSURANCE COMPANY, A CALIFORNIA CORPORATION, herein called the Company, for valuable consideration, hereby commits to issue its policy or policies of title insurance, as identified in Schedule A, in favor of the proposed Insured named in Schedule A, as owner or mortgagee of the estate or interest covered hereby in the land described or referred to in Schedule A, upon payment of the premiums and charges therefor: all subject to the provisions of Schedule A and B and to the Conditions and Stipulations hereof.

This Commitment shall be effective only when the identity of the proposed Insured and the amount of the policy or policies committed for have been inserted in Schedule A hereof by the Company, either at the time of the issuance of this Commitment or by subsequent indorsement.

This Commitment is preliminary to the issuance of such policy or policies of title insurance and all liability and obligations hereunder shall cease and terminate six (6) months after the effective date hereof or when the policy or policies committed for shall issue, whichever first occurs, provided that the failure to issue such policy or policies is not the fault of the Company. This Commitment shall not be valid or binding until countersigned by an authorized officer or agent.

IN WITNESS WHEREOF, the Company has caused its corporate name and seal to be hereunto affixed.

Issued By:

MIDLAND TITLE SECURITY, INC.

First American Title Insurance Company

BY Parker S. Kennedy PRESIDENT

ATTEST William C. Gaylord SECRETARY

Countersigned:

By _____

Validating Signatory

FIRST AMERICAN TITLE INSURANCE COMPANY

Commitment No: 9-41914

Schedule A

Effective date: June 3, 1995 at 7:59 A.M.

1. **Policy or Policies to be issued:**	**Amount**
a. **Owner's Policy** **Proposed Insured:** The United States of America	$TBD
b. **Loan Policy** **Proposed Insured:** To Be Determined, its successors and/or assigns	$TBD

2. **The estate or interest in the land described or referred to in this Commitment and covered herein is a Fee Simple and title to the estate or interest in said land is at the effective date hereof vested in:**
The United States of America

3. **The land referred to in this Commitment is described as follows:**

The examined property consists of all legal descriptions as shown on source deeds listed on Schedule B, Section II, note regarding vesting of title. A new legal description with appropriate approvals must be obtained prior to title transfer.

FIRST AMERICAN TITLE INSURANCE COMPANY

Commitment No: 9-41914

Schedule B Section I

The following are the requirements to be complied with:

Instrument(s) creating the estate or interest to be insured must be approved, executed, delivered and filed for record.

End of Schedule B - Section I

Schedule B Section II

Schedule B of the policy or policies to be issued will contain exceptions to the following matters unless the same are disposed of to the satisfaction of the Company:

1. Defects, liens, encumbrances, adverse claims or other-matters, if any, created, first appearing in the public records or attaching subsequent to the effective date hereof but prior to the date the proposed Insured acquires for value of record the estate or interest or mortgage thereon covered by this Commitment.

2. Any facts, rights, interests, or claims which are not shown by the public records but which could be ascertained by an inspection of said land or by making inquiry of persons in possession thereof.

3. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by public records.

4. Any lien, or right to an lien, for services labor or material theretofore or hereafter furnished, imposed by law and not shown by the public records.

5. Rights of parties in actual possession of all or any part of the premises.

6. Special assessments and special taxes, if any, and taxes not yet due and payable.

FIRST AMERICAN TITLE INSURANCE COMPANY

Commitment No: 9-41914

Continuation of Schedule B - Section II :

Note: Title Holder took Title in Deed Book 1256-179, Deed Book 1265-361, Deed Book 1214-12, Deed Book 1214-248, Deed Book 1215-347, Deed Book 1246-45 , Deed Book 1258-56, Deed Book 1258-74, Deed Microfiche 81-376-A01, Deed Microfiche 81-323-A11, Deed Book 1214-10, Deed Book 1214-15 and Deed Book 1214-17

7. Subject to restrictions as shown of record in Deed Book 939, Page 322, Volume 1116-262, Volume 1116-265, Volume 1116-268 and Microfiche 89-560-E08.

8. Easement to The Dayton Power and Light Co. as shown of record in Deed Book 2341-323, Deed Book 1275-9, Deed Book 2341-43 and Deed Book 2437-611.

9. Easement to the City of Miamisburg as shown of record in Deed Book 2260-228.

10. Subject to a Reservation as shown of record in Deed Book 548-218.

11. Subject to an Agreement between The New York Central Railroad Company and the Cleveland, Cincinnati, Chicago and St. Louis Railway Company and The United States of America as shown of record in Deed Book 1282-401.

12. Subject to an Affidavit as shown of record in Deed Microfiche 90-616-D02.

13. Subject to an Agreement between William F. Mobley and Margaret Mobley and William Hamilton and Janet W. Hamilton as shown of record in Deed Book 1214, Page 8.

14. Subject to conditions as shown in Quitclaim Deed Book 1212, Page 87.

NOTE: The Mound Property has all been annexed to City of Miamisburg, which makes some USA deed Descriptions obsolete.

15. 1994 Duplicate for Aud. Parcel Number K46-3-34-14 & 21 (2.390 Acres) lists taxes in the name of The United States of America
First Installment due January 1995 is $ 0.00.
Second Installment due July 1995 is $ 0.00.
Land: 7,530.00 Building: 0.00 Total: 7,530.00.

Aud. Parcel Number K46-5-3-13 (88.320 Acres, Lot 2290)
First Installment due January 1995 is $ 0 .00.
Second Installment due July 1995 is $ 0.00.
Land: 618,240.00 Building: 0.00 Total: 618,240.00.

Aud. Parcel Number K46-11-9-1 (21.170 Acres, Lot 4777)
First Installment due January 1995 is $ 0.00.
Second Installment due July 1995 is $ 0.00.
Land: 29,650.00 Building: 0.00 Total: 29,650.00.

Aud. Parcel Number K46-11-9-2 (42.877 Acres, Lot 4778)
First Installment due January 1995 is $ 0.00.

FIRST AMERICAN TITLE INSURANCE COMPANY

Commitment No: 9-41914

Continuation of Schedule B - Section II :

Second Installment due July 1995 is $ 0.00.
Land: 60,030.00 Building: 0.00 Total: 60,030.00.

Aud. Parcel Number K46-11-9-3 (1.6 Acres, Lot 4779)
First Installment due January 1995 is $ 0.00.
Second Installment due July 1995 is $ 0.00.
Land: 2,240.00 Building: 0.00 Total: 2,240.00.

Aud. Parcel Number K46-5-1-2 & 9 (86.198 Acres, Lot 2259)
First Installment due January 1995 is $ 36.91, which includes a Delinquent Incinerator Assessment of $ 34.46, plus a $ 2.45 penalty. (First Installment is not paid.)
Second Installment due July 1995 is $ 0.00.
Land: 814,380.00 Building: 0.00 Total: 814,380.00.

Aud. Parcel Number K46-15-7-1 (35.500 Acres, Lot 6127)
First Installment due January 1995 is $ 0.00.
Second Installment due July 1995 is $ 0.00.
Land: 49,700.00 Building: 0.00 Total: 49,700.00.

Aud. Parcel Number K46-15-7-2 (24.197 Acres, Lot 6128)
First Installment due January 1995 is $ 0.00.
Second Installment due July 1995 is $ 0.00.
Land: 33,530.00 Building: 0.00 Total: 33,530.00.

End of Schedule B - Section II

Appendix 7.4 Regulatory Documentation: "EDR Document"

The EDR-Radius Map
with GeoCheck™

US Department of Energy
Off Mound Rd.
Miamisburg, OH 45432

Inquiry Number: 100553.1s

December 13, 1995

Environmental Data Resources, Inc.

Creators of Toxicheck/®

The Source For Environmental Risk Management Data

3530 Post Road
Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer

This Report contains information obtained from a variety of public sources and EDR makes no representation or warranty regarding the accuracy, reliability, quality, or completeness of said information or the information contained in this report. The customer shall assume full responsibility for the use of this report.
No warranty of merchantability or of fitness for a particular purpose, expressed or implied, shall apply and EDR specifically disclaims the making of such warranties. In no event shall EDR be liable to anyone for special, incidental, consequential or exemplary damages.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The search met the specific requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-94, or custom distances requested by the user.

The address of the subject property for which the search was intended is:

OFF MOUND RD.
MIAMISBURG, OH 45432

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the subject property or within the ASTM E 1527-94 search radius around the subject property for the following Databases:

Delisted NPL:..... NPL Deletions
RCRIS-TSD:..... Resource Conservation and Recovery Information System
CERC-NFRAP:..... Comprehensive Environmental Response, Compensation, and Liability Information System
CORRACTS:..... Corrective Action Report
State LF:..... Licensed Solid Waste Facilities
RAATS:..... RCRA Administrative Action Tracking System
HMIRS:..... Hazardous Materials Information Reporting System
ERNS:..... Emergency Response Notification System
NPL Liens:..... Federal Superfund Liens
TSCA:..... Toxic Substances Control Act
MLTS:..... Material Licensing Tracking System
RODS:..... Records Of Decision
CONSENT:..... Superfund (CERCLA) Consent Decrees
OH Spills:..... Not reported
Coal Gas:..... Former Manufactured gas (Coal Gas) Sites

Unmapped (orphan) sites are not considered in the foregoing analysis.

Search Results:

Search results for the subject property and the search radius, are listed below:

Subject Property:

The subject property was not listed in any of the databases searched by EDR.

Surrounding Properties:

Sites with an elevation equal to or higher than the subject property are in the left hand column; those with a lower elevation are in the right hand column. Page numbers refer to the EDR Radius Map report where detailed data on individual sites may be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 09/01/1995 has revealed that there is 1 NPL site within approximately 1.33 Miles of the subject property.

Equal/Higher Elevation	Page	Lower Elevation	Page
US DOE MOUND PLANT	***8***	***US DOE MOUND PLANT***	***8***

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already by listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data comes from the Ohio Environmental Protection Agency's Master Sites List.

A review of the State Haz. Waste list, as provided by EDR, and dated 04/01/1995 has revealed that there is 1 State Haz. Waste site within approximately 1.33 Miles of the subject property.

Equal/Higher Elevation	Page	Lower Elevation	Page
		MIAMISBURG WELL FIELD / UNK SOURC	18

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, persuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).
CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 08/31/1995 has revealed that there is 1 CERCLIS site within approximately 0.83 Miles of the subject property.

Equal/Higher Elevation	Page	Lower Elevation	Page
US DOE MOUND PLANT	***8***	***US DOE MOUND PLANT***	***8***

EXECUTIVE SUMMARY

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data comes from the Department of Commerce Division of State Fire Marshal's List of Reported Petroleum Underground Storage Tank Release Incidents.

A review of the LUST list, as provided by EDR, and dated 11/01/1995 has revealed that there are 7 LUST sites within approximately 0.83 Miles of the subject property.

Equal/Higher Elevation	Page
US DOE MOUND PLANT	*8*

Lower Elevation	Page
US DOE MOUND PLANT	*8*
DJ CERAMICS	10
CG&R	11
RICHARD CHURCH SR ESTATE	13
TECHNICOTE INC	*14*
POINT STORE	17
MIAMISBURG WATER TREATMENT PLT	17

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data comes from the Department of Commerce Division of State Fire Marshal's Facility File.

A review of the UST list, as provided by EDR, and dated 09/01/1995 has revealed that there are 3 UST sites within approximately 0.58 Miles of the subject property.

Equal/Higher Elevation	Page

Lower Elevation	Page
CITY OF MIAMISBURG PUMP STATIO	12
TECHNICOTE INC	*14*
SHELL OIL CO. #23420931760	16

RCRIS: The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-SQG list, as provided by EDR, and dated 05/31/1995 has revealed that there are 4 RCRIS-SQG sites within approximately 0.58 Miles of the subject property.

Equal/Higher Elevation	Page

Lower Elevation	Page
GMC DELCO PRODUCTS DIV	*12*
DAYTON PUBLIC SCHOOLS	*12*
TECHNICOTE INC	*14*
PLOCHER ANDREW SONS	*16*

RCRIS: The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-LQG list, as provided by EDR, and dated 05/31/1995 has revealed that there is 1 RCRIS-LQG site within approximately 0.58 Miles of the subject property.

Equal/Higher Elevation	Page	Lower Elevation	Page
		PRESTO ADHESIVE PAPER CO INC	*13*

PADS: The PCB Activity Database identifies generators, transporters, commercial storers and/or brokers and disposers of PCBs who are required to notify the United States Environmental Protection Agency of such activities. The source of this database is the U.S. EPA.

A review of the PADS list, as provided by EDR, and dated 10/14/1994 has revealed that there is 1 PADS site within approximately 0.33 Miles of the subject property.

Equal/Higher Elevation	Page	Lower Elevation	Page
US DOE MOUND PLANT	*8*	*US DOE MOUND PLANT*	*8*

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 07/27/1994 has revealed that there are 3 FINDS sites within approximately 0.33 Miles of the subject property.

Equal/Higher Elevation	Page	Lower Elevation	Page
US DOE MOUND PLANT	*8*	*US DOE MOUND PLANT*	*8*
		GMC DELCO PRODUCTS DIV	*12*
		DAYTON PUBLIC SCHOOLS	*12*

TRIS: The Toxic Chemical Release Inventory System identifies facilities that release toxic chemicals to the air, water, and land in reportable quantities under SARA Title III, Section 313. The source of this database is the U.S. EPA.

A review of the TRIS list, as provided by EDR, and dated 12/31/1992 has revealed that there is 1 TRIS site within approximately 0.33 Miles of the subject property.

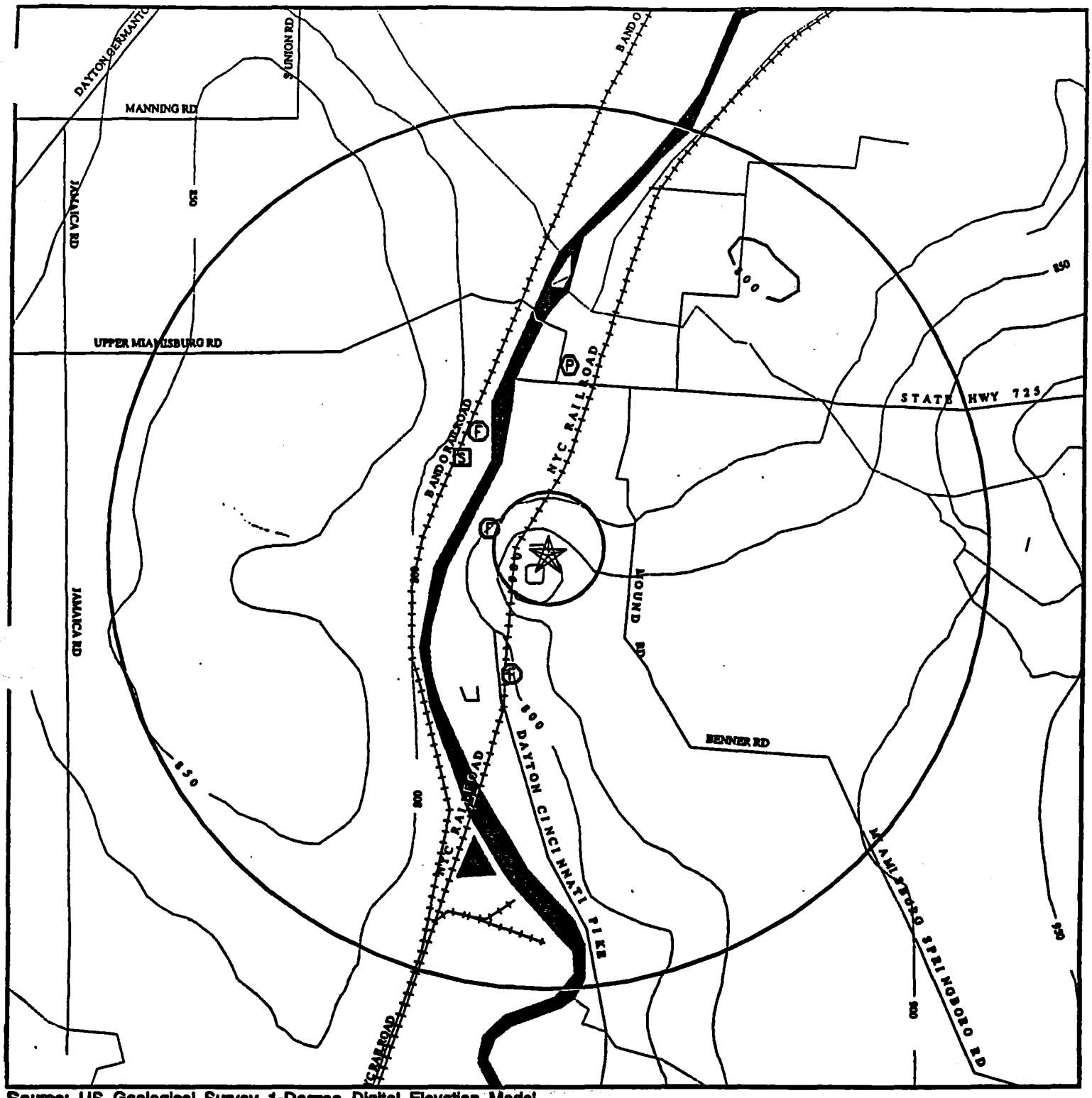
Equal/Higher Elevation	Page	Lower Elevation	Page
US DOE MOUND PLANT	*8*	*US DOE MOUND PLANT*	*8*

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
PHILLIPS SAND & GRAVEL	FINDS,CERC-NFRAP,State Haz. Waste
US DOE MOUND FACILITY*	State Haz. Waste
DYES PENNZOIL	LUST
TOMS QUICK LUBE	LUST
KNOLLWOOD GARDEN CENTER	LUST
BOONE WATER SYSTEMS, INC.	UST,LUST
UNKNOWN	LUST
CATES SALES & SERVICE	UST
KNOLLWOOD MARATHON	UST
DYE'S KNOLLWOOD PENNZOIL	UST
TOM'S SUTO QUICK LUBE SERVIE I	UST
KNOLLWOOD FLORIST, INC.	UST
PENNZOIL	UST
GARY L. JESTICE	UST
WYLIE F. FAULKNER	UST
C G & R	UST
THE POINTE	UST
FRALEY FENCE	UST
CITY OF MIAMISBURG	UST
MONARCH MARKING SYS INC	UST
UES INC	RCRIS-SQG

TOPOGRAPHIC MAP - 100553.1s - HOK/K Industrial



Source: US Geological Survey 1-Degree Digital Elevation Model
Compiled 09/15/92

0 1/4 1/2 1 2
Miles

N - Major Roads

N - Contour lines (25 foot interval unless otherwise shown)

- Waterways

O - Earthquake epicenter, Richter 5 or greater.

F S - Closest well according to (F)ederal or (S)tate database in quadrant.

P - Closest public water supply well.

TARGET PROPERTY:	US Department of Energy	CUSTOMER:	HOK/K Industrial
ADDRESS:	Off Mound Rd.	CONTACT:	Shelby R. Politte
CITY/STATE/ZIP:	Miamisburg OH 45432	INQUIRY #:	100553.1s
LAT/LONG:	39.6312 / 84.2884	DATE:	December 13, 1995

GEOCHECK VERSION 2.1
SUMMARY

GEOLOGIC AGE IDENTIFICATION†

Geologic Code:	O3
Era:	Paleozoic
System:	Ordovician
Series:	Upper Ordovician (Cincinnatian)

ROCK STRATIGRAPHIC UNIT†

Category:	Stratified Sequence

GROUNDWATER FLOW INFORMATION

General Topographic Gradient:	General North
General Hydrogeologic Gradient:	The hydrogeologic data for this report indicates that groundwater flow generally is to the South. However, because of the number and/or location of wells, the various depths of aquifers or other insufficient data, the direction of groundwater flow is uncertain.

Note: In a general way, the water table typically conforms to surface topography.‡

USGS TOPOGRAPHIC MAP ASSOCIATED WITH THIS SITE

Target Property: 2439084-F3 MIAMISBURG, OH

FEDERAL DATABASE WELL INFORMATION

WELL QUADRANT	DISTANCE FROM TP	LITHOLOGY	DEPTH TO WATER TABLE
North	1/2 - 1 Mile	Sand and silt	12 ft.
South	1/2 - 1 Mile	Outwash	Not Reported
West	1/4 - 1/2 Mile	Not Reported	24 ft.

STATE DATABASE WELL INFORMATION

WELL QUADRANT	DISTANCE FROM TP
Northern	1/2 - 1 Mile
Southern	>2 Miles

PUBLIC WATER SUPPLY SYSTEM INFORMATION (EPA-FRDS)

Searched by Nearest Well.

Location Relative to TP:	1/2 - 1 Mile North
PWS Name:	MOUND PLANT MANAGER, MAINTENANCE EG&G PO BOX 3000 MIAMISBURG, OH 45343

Well currently has or has had major violation(s): No

AREA RADON INFORMATION

MONTGOMERY COUNTY, OH

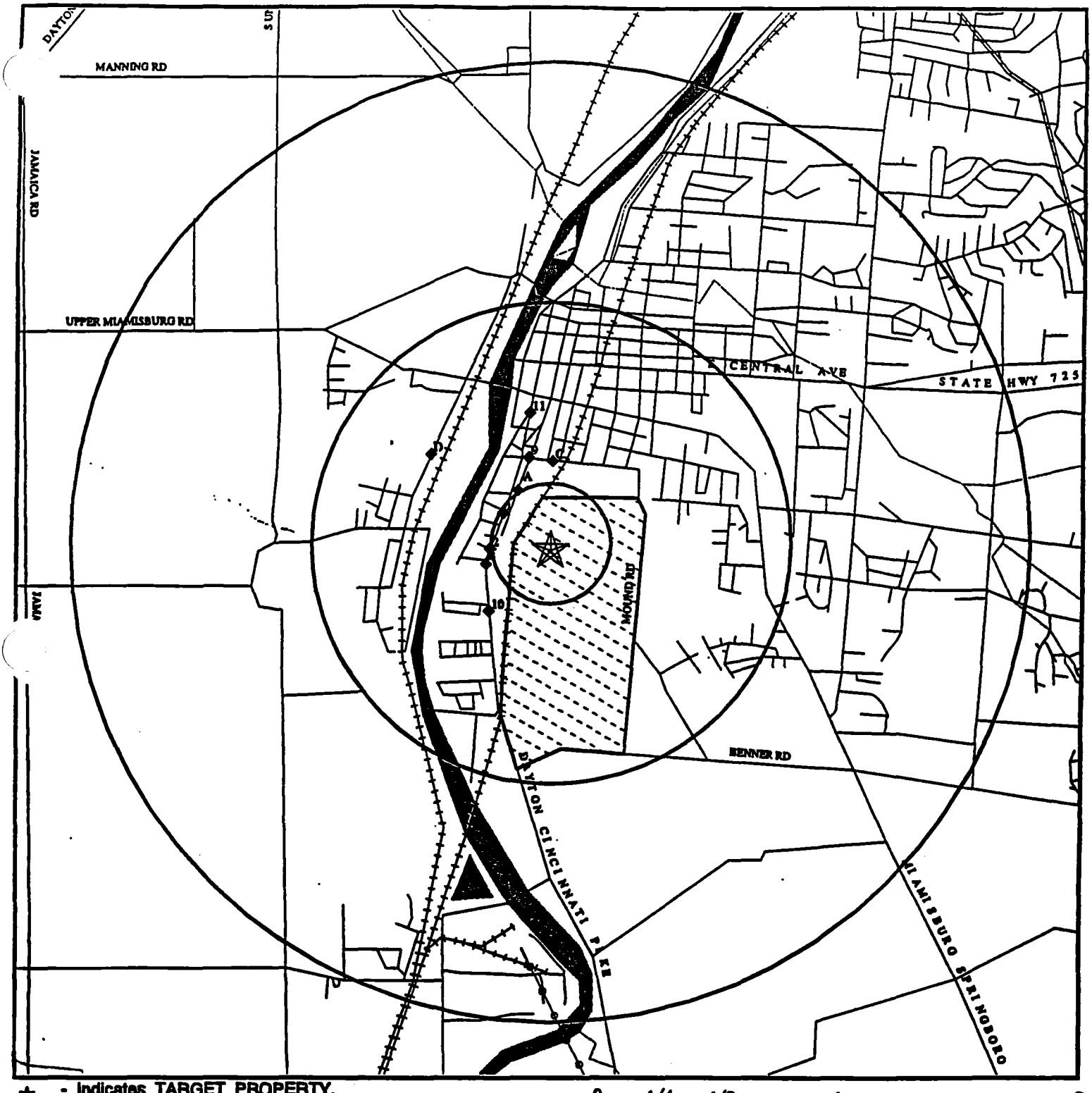
Number of sites tested: 35

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	2.966 pCi/L	77%	23%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	5.963 pCi/L	67%	27%	7%

† Source: P.G. Schnabel, R.E. Arndt and W.J. Sevon, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

‡ U.S. EPA Ground Water Handbook, Vol I: Ground Water and Contamination, Office of Research and development EPA/625/6-90/016a,Chapter 4, page 78, September 1990.

OVERVIEW MAP - 100553.1s - HOK/K Industrial



★ - Indicates TARGET PROPERTY.

▲ - Indicates sites at elevations higher than or equal to the target property.

● - Indicates sites at elevations lower than the target property.

- Coal Gasification Sites (if requested)

- National Priority List Sites

0 1/4 1/2 1 2
Miles

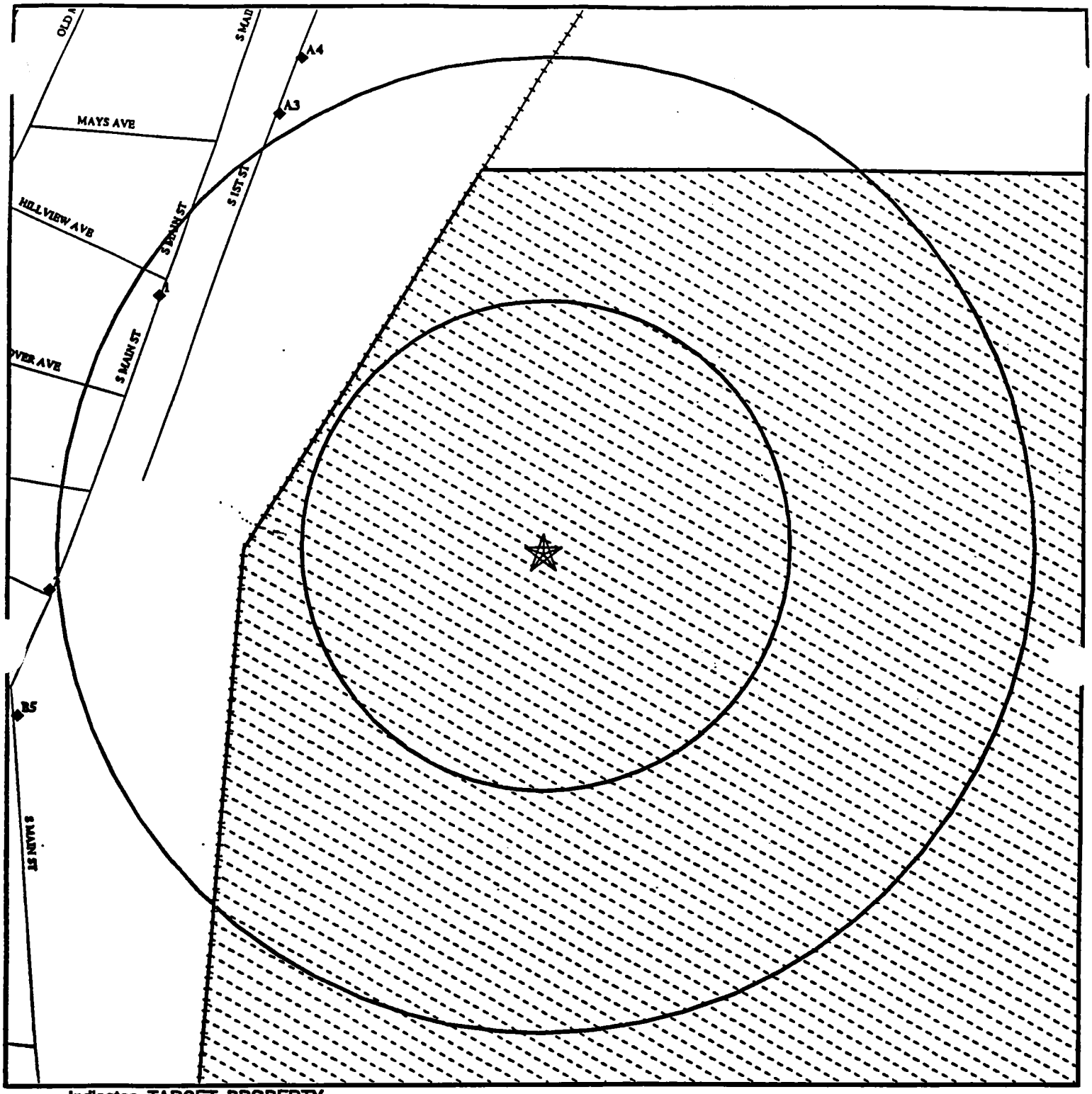
N

- Power transmission lines (USGS DLG, 1993)

- Oil & Gas pipelines (USGS DLG, 1993)

TARGET PROPERTY:	US Department of Energy	CUSTOMER:	HOK/K Industrial
ADDRESS:	Off Mound Rd.	CONTACT:	Shelby R. Politte
CITY/STATE/ZIP:	Miamisburg OH 45432	INQUIRY #:	100553.1s
LAT/LONG:	39.6312 / 84.2884	DATE:	December 13, 1995

DETAIL MAP - 100553.1s - HOK/K Industrial



★ - Indicates TARGET PROPERTY.

▲ - Indicates sites at elevations higher than or equal to the target property.

◆ - Indicates sites at elevations lower than the target property.

- Coal Gasification Sites (if requested)

- Sensitive Receptors

- National Priority List Sites

0 1/8 1/4

Miles

- Power transmission lines (USGS DLG, 1993)

- Oil & Gas pipelines (USGS DLG, 1993)

TARGET PROPERTY:	US Department of Energy	CUSTOMER:	HOK/K Industrial
ADDRESS:	Off Mound Rd.	CONTACT:	Shelby R. Politte
CITY/STATE/ZIP:	Miamisburg OH 45432	INQUIRY #:	100553.1s
LAT/LONG:	39.6312 / 84.2884	DATE:	December 13, 1995

MAP FINDINGS SUMMARY SHOWING ALL SITES

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NPL		1.330	1	0	0	0	0	1
Delisted NPL		0.330	0	0	0	NR	NR	0
RCRIS-TSD		1.330	0	0	0	0	0	0
State Haz. Waste		1.330	0	0	0	1	0	1
CERCLIS		0.830	1	0	0	0	NR	1
CERC-NFRAP		0.330	0	0	0	NR	NR	0
CORRACTS		1.330	0	0	0	0	0	0
State Landfill		0.830	0	0	0	0	NR	0
LUST		0.830	1	1	3	2	NR	7
UST		0.580	0	0	3	0	NR	3
RAATS		0.330	0	0	0	NR	NR	0
RCRIS Sm. Quan. Gen.		0.580	0	0	4	0	NR	4
RCRIS Lg. Quan. Gen.		0.580	0	0	1	0	NR	1
HMIRS		0.330	0	0	0	NR	NR	0
PADS		0.330	1	0	0	NR	NR	1
ERNS		0.330	0	0	0	NR	NR	0
FINDS		0.330	1	0	4	NR	NR	5
TRIS		0.330	1	0	0	NR	NR	1
NPL Liens		0.330	0	0	0	NR	NR	0
TSCA		0.330	0	0	0	NR	NR	0
MLTS		1.330	0	0	0	0	0	0
ROD		1.330	0	0	0	0	0	0
CONSENT		1.330	0	0	0	0	0	0
OH Spills		0.330	0	0	0	NR	NR	0
Coal Gas		1.000	0	0	0	0	NR	0

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

MAP FINDINGS SUMMARY SHOWING ONLY SITES HIGHER THAN OR THE SAME ELEVATION AS TP

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NPL		1.330	0	0	0	0	0	0
Delisted NPL		0.330	0	0	0	NR	NR	0
RCRIS-TSD		1.330	0	0	0	0	0	0
State Haz. Waste		1.330	0	0	0	0	0	0
CERCLIS		0.830	0	0	0	0	NR	0
CERC-NFRAP		0.330	0	0	0	NR	NR	0
CORRACTS		1.330	0	0	0	0	0	0
State Landfill		0.830	0	0	0	0	NR	0
LUST		0.830	0	0	0	0	NR	0
UST		0.580	0	0	0	0	NR	0
RAATS		0.330	0	0	0	NR	NR	0
RCRIS Sm. Quan. Gen.		0.580	0	0	0	0	NR	0
RCRIS Lg. Quan. Gen.		0.580	0	0	0	0	NR	0
HMIRS		0.330	0	0	0	NR	NR	0
PADS		0.330	0	0	0	NR	NR	0
ERNS		0.330	0	0	0	NR	NR	0
FINDS		0.330	0	0	0	NR	NR	0
TRIS		0.330	0	0	0	NR	NR	0
NPL Liens		0.330	0	0	0	NR	NR	0
TSCA		0.330	0	0	0	NR	NR	0
MLTS		1.330	0	0	0	0	0	0
ROD		1.330	0	0	0	0	0	0
CONSENT		1.330	0	0	0	0	0	0
OH Spills		0.330	0	0	0	NR	NR	0
Coal Gas		1.000	0	0	0	0	NR	0

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number

Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.

NPL	US DOE MOUND PLANT	PADS	1000190772
Region	MOUND RD	CERCLIS	OH6890008984
	MIAMISBURG, OH 45342	FINDS	
		NPL	
		TRIS	
		LUST	

CERCLIS Classification Data:

Site Incident Category:	Not reported	Federal Facility:	YES
Ownership Status:	FEDERALLY OWNED	NPL Status:	CURRENTLY ON THE FINAL NPL
EPA Notes:	Not reported		

CERCLIS Assessment History:

Assessment:	DISCOVERY	Completed:	11/01/1980
Assessment:	PRELIMINARY ASSESSMENT	Completed:	03/25/1986
Assessment:	SCREENING SITE INSPECTION	Completed:	07/14/1989
Assessment:	HAZARD RANKING DETERMINED	Completed:	07/14/1989
Assessment:	PROPOSAL TO NPL	Completed:	07/14/1989
Assessment:	FINAL LISTING ON NPL	Completed:	11/24/1989
Assessment:	TECHNICAL ASSISTANCE	Completed:	Not reported
Assessment:	TECHNICAL ASSISTANCE	Completed:	Not reported
Assessment:	REMOVAL ACTION	Completed:	Not reported
Assessment:	COMBINED RI/FS	Completed:	06/12/1995
Assessment:	REMEDIAL ACTION	Completed:	Not reported
Assessment:	REMEDIAL DESIGN	Completed:	Not reported
Assessment:	RECORD OF DECISION	Completed:	06/12/1995
Assessment:	COMBINED RI/FS	Completed:	Not reported
Assessment:	RECORD OF DECISION	Completed:	Not reported
Assessment:	COMBINED RI/FS	Completed:	Not reported
Assessment:	RECORD OF DECISION	Completed:	Not reported
Assessment:	COMBINED RI/FS	Completed:	Not reported
Assessment:	RECORD OF DECISION	Completed:	Not reported
Assessment:	COMBINED RI/FS	Completed:	Not reported
Assessment:	RECORD OF DECISION	Completed:	Not reported
Assessment:	COMBINED RI/FS	Completed:	Not reported
Assessment:	RECORD OF DECISION	Completed:	Not reported

CERCLIS Site Status:

This site is currently under investigation by the government to assess the extent of further action

CERCLIS Alias Name(s):

US DOE MOUND FACIL
MOUND PLANT (USDOE)

US DOE MOUND PLANT (Continued) 1000190772

NPL:

ID:	05OH073
Date Listed:	11/21/89 (FINAL)
EPA/ID:	Not reported
Haz. Rank Score:	34.61
Status:	LISTED ON NPL
Rank:	Not reported
Group:	15
Ownership:	Federal
Ownership:	Govt. Owned, Contract. Oper.
Permit:	NPDES
Permit:	Air
Permit:	RCRA Interim Status
Permit:	Radioactive
Site Activities:	Landfill, Comm./Indus.
Site Activities:	Spill
Site Activities:	Tank, below ground
Site Condition:	Contam. Drinking Water
Waste Type:	Metals
Waste Type:	Radioactive Substances

Contaminant:	Media Affected:
CALCIUM CYANIDE	Not reported
COPPER CYANIDE	Not reported
PLUTONIUM AND COMPOUNDS, NOS (PU	Not reported
URANIUM AND COMPOUNDS, NOS (U)	Not reported
PLUTONIUM 238	Surface Water

Distance to nearest Population:	Not reported
Population within a 1 Mile Radius:	Not reported
Population within a 2 Mile Radius:	Not reported
Population within a 4 Mile Radius:	Not reported
Vertical Distance to Aquifer:	21 Feet to 75 Feet
Ground Water Use:	Used as Drinking Water, Alternative Source not Available
Distance to nearest Surface Water:	Not reported

Other Pertinent Environmental Activity Identified at Site:
facility has active water discharge permits
facility has an emission permit under the Clean Air Act
civil judicial and administrative enforcement cases against facility
facility is a PCB generator, storer, transporter or permitted disposer

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
	US DOE MOUND PLANT (Continued)		1000190772

LUST:

Facility ID:	570630	Incident ID:	579108400
Report No:	5791084	Facility Track:	0
Facility Tel:	513-865-4020	Responsibility:	-0-
Owner:	US DEPT OF ENERGY -0- -0-, OH -0- -0-		
Operator:	-0- -0- -0-, OH -0- -0-		
Inspector:	-0-	Revised Date:	07/16/91
Fiscal Track:	F900	Coordinator:	Central Office Corrective Actions
Facility Status:	Initial Corrective Action Program Report		
Classification:	Known suspected or confirmed source and responsible person is voluntarily, or under an informal enforcement action, proceeding with investigation of corrective actions.		
Trust Fund:	Incident eligible for LTF oversight and/or spending - a suspected or confirmed release of petroleum from a regulated UST.		
Emerg Respnse:	2	Response By:	-0-
Vacant:	-, -0-	County Num:	57
Authorized By:	HODNETT	Authorize Date:	07/12/91
Remarks:	0		
Summary:	-0-		
Added Date:	12/18/89	Entry By:	UNGER
Response Srch:	-0-	Priority:	2

1 WNW 1/8-1/4 Lower	DJ CERAMICS 611 S MAIN ST MIAMISBURG, OH 45342	LUST	S101424591 N/A

DJ CERAMICS (Continued) S101424591

LUST:

Facility ID:	-0-	Incident ID:	575048600
Report No:	5750486	Facility Track:	0
Facility Tel:	-0-	Responsibility:	-0-
Owner:	-0- -0- -0-, OH -0- -0-		
Operator:	-0- -0- -0-, OH -0- -0-		
Inspector:	-0-	Revised Date:	-0-
Fiscal Track:	FY95	Coordinator:	Central Office Closure
Facility Status:	Reported		
Classification:	Known suspected or confirmed source and responsible person is voluntarily, or under an informal enforcement action, proceeding with investigation of corrective actions.		
Trust Fund:	Closure of an underground storage tank.		
Emerg Respnse:	2	Response By:	-0-
Vacant:	-, -0-	County Num:	57
Authorized By:	GILL	Authorize Date:	04/20/95
Remarks:	-0-		
Summary:	-0-		
Added Date:	04/20/95	Entry By:	UNGER
Response Srch:	-0-	Priority:	2

---

2 West 1/4-1/2 Lower — CG&R, 901 S MAIN ST, MIAMISBURG, OH 45342 — LUST — S101565590 N/A

LUST:

Facility ID:	572444	Incident ID:	574126900
Report No:	5741269	Facility Track:	0
Facility Tel:	-0-	Responsibility:	-0-
Owner:	-0- -0- -0-, OH -0- -0-		
Operator:	-0- -0- -0-, OH -0- -0-		
Inspector:	-0-	Revised Date:	-0-
Fiscal Track:	FY94	Coordinator:	Central Office Closure
Facility Status:	Reported		
Classification:	Known suspected or confirmed source and responsible person is voluntarily, or under an informal enforcement action, proceeding with investigation of corrective actions.		
Trust Fund:	Closure of an underground storage tank.		
Emerg Respnse:	2	Response By:	-0-
Vacant:	-, -0-	County Num:	57
Authorized By:	GILL	Authorize Date:	07/26/94
Remarks:	-0-		
Summary:	CLOS RPT RECD		
Added Date:	07/26/94	Entry By:	UNGER
Response Srch:	-0-	Priority:	2

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
A3 NNW 1/4-1/2 Lower	GMC DELCO PRODUCTS DIV 329 EAST FIRST STREET DAYTON, OH 45402	RCRIS-SQG FINDS	1000110283 OHD000817593

RCRIS:
Owner: NAME NOT REPORTED
(312) 555-1212

Contact: KARENANN BERNER
(513) 258-7621

Waste	Quantity	Info Source	Waste	Quantity	Info Source
D000	.00000 (N)	Notification	D001	.00000 (N)	Notification
D002	.00000 (N)	Notification	D003	.00000 (N)	Notification
F001	.00000 (N)	Notification	F002	.00000 (N)	Notification
F003	.00000 (N)	Notification	F005	.00000 (N)	Notification
F006	.00000 (N)	Notification	F007	.00000 (N)	Notification
F008	.00000 (N)	Notification	F009	.00000 (N)	Notification
F010	.00000 (N)	Notification	F011	.00000 (N)	Notification
F012	.00000 (N)	Notification	P029	.00000 (N)	Notification
P030	.00000 (N)	Notification	P074	.00000 (N)	Notification
P098	.00000 (N)	Notification	P104	.00000 (N)	Notification
P106	.00000 (N)	Notification	P121	.00000 (N)	Notification
U159	.00000 (N)	Notification	U160	.00000 (N)	Notification
U188	.00000 (N)	Notification	U210	.00000 (N)	Notification
U220	.00000 (N)	Notification	U226	.00000 (N)	Notification
U239	.00000 (N)	Notification			

(P) = Pounds, (K) = Kilograms, (M) = Metric Tons, (T) = Tons, (N) = Not Reported

A4 NNW 1/4-1/2 Lower	DAYTON PUBLIC SCHOOLS 348 W FIRST ST DAYTON, OH 45402	RCRIS-SQG FINDS	1000558707 OHD100060912

RCRIS:
Owner: DAYTON PUBLIC SCHOOLS
(513) 461-3000

Contact: PETER WEIMER
(513) 439-0863

Waste	Quantity	Info Source	Waste	Quantity	Info Source
D000	.00000 (N)	Notification	D001	.00000 (N)	Notification
D002	.00000 (N)	Notification	D003	.00000 (N)	Notification
F001	.00000 (N)	Notification	F002	.00000 (N)	Notification
F003	.00000 (N)	Notification	F004	.00000 (N)	Notification
F005	.00000 (N)	Notification			

(P) = Pounds, (K) = Kilograms, (M) = Metric Tons, (T) = Tons, (N) = Not Reported

Other Pertinent Environmental Activity Identified at Site:
facility is involved with pesticide/toxic substances production

B5 WSW 1/4-1/2 Lower	CITY OF MIAMISBURG PUMP STATIO 1021 S MAIN ST MIAMISBURG, OH 45342	UST	U000694613 N/A

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Numbe
	CITY OF MIAMISBURG PUMP STATIO (Continued)		U000694613

UST:

Facility ID:	0-576024	Tank ID:	1
Capacity:	1,000	Tank Status:	Curr
Tank Age:	7	Owner Name:	CITY OF MIAMISBURG
Product:	Diesel	Owner Address:	PO BOX 570
Material:	Fiberglass	City, State, Zip:	MIAMISBURG, OH 45343
Piping Material:	Copper	Facility Contact:	JESSE MULLINS
Piping Type:	Suction -- No Valve	Telephone:	Not reported
Remed. Des. Tanks:	Not reported		
Remed. Des. Piping:	Not reported		

B6 WSW 1/4-1/2 Lower	RICHARD CHURCH SR ESTATE 1009 S MAIN ST MIAMISBURG, OH 45342	LUST	S101565323 N/A

LUST:

Facility ID:	571192	Incident ID:	570118000
Report No:	5701180	Facility Track:	0
Facility Tel:	-0-	Responsibility:	-0-
Owner:	Not reported -0- -0-, OH -0- -0-		
Operator:	-0- -0- -0-, OH -0- -0-		
Inspector:	-0-	Revised Date:	04/21/92
Fiscal Track:	F900	Coordinator:	Central Office Closure
Facility Status:	No Further Action		
Classification:	Known suspected or confirmed source and responsible person is voluntarily, or under an informal enforcement action, proceeding with investigation of corrective actions.		
Trust Fund:	Closure of an underground storage tank.		
Emerg Respnse:	2	Response By:	-0-
Vacant:	1, -0-	County Num:	57
Authorized By:	GILL	Authorize Date:	04/17/92
Remarks:	0		
Summary:	CLOS RPT RECD		
Added Date:	05/24/90	Entry By:	UNGER
Response Srch:	-0-	Priority:	2

C7 North 1/4-1/2 Lower	PRESTO ADHESIVE PAPER CO INC 222 MOUND AVE MIAMISBURG, OH 45342	FINDS RCRIS-LQG	1000389064 OHD004243614

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number

PRESTO ADHESIVE PAPER CO INC (Continued) 1000389064

RCRIS:
Owner: PITNEY BOWES
(312) 555-1212

Contact: ALAN GORSKI
(513) 865-2600

Waste	Quantity	Info Source	Waste	Quantity	Info Source
D001	.00000 (N)	Notification	D003	.00000 (N)	Notification
F005	.00000 (N)	Notification	U002	.00000 (N)	Notification
U112	.00000 (N)	Notification	U140	.00000 (N)	Notification
U159	.00000 (N)	Notification	U220	.00000 (N)	Notification
U239	.00000 (N)	Notification			

(P) = Pounds , (K) = Kilograms , (M) = Metric Tons , (T) = Tons , (N) = Not Reported

Other Pertinent Environmental Activity Identified at Site:
facility has an emission permit under the Clean Air Act

C8 North 1/4-1/2 Lower

TECHNICOTE INC
222 MOUND AVE
MIAMISBURG, OH 45342

RCRIS-SQG 1000243045
UST OHD980896468
LUST

RCRIS:
Owner: TECHNICOTE
(312) 555-1212

Contact: TOM BLOSSER
(513) 859-4448

Waste	Quantity	Info Source
D001	.00000 (N)	Notification

(P) = Pounds , (K) = Kilograms , (M) = Metric Tons , (T) = Tons , (N) = Not Reported

There are 1 compliance/violation record(s) reported at this site:

Evaluation	Date	Violations
COMPLIANCE EVALUATION INSPECTION (CEI)	14-JAN-88	YES

TECHNICOTE INC (Continued) 1000243045

LUST:

Facility ID:	570319	Incident ID:	573000600
Report No:	5730006	Facility Track:	0
Facility Tel:	-0-	Responsibility:	-0-
Owner:	-0- -0- -0-, OH -0- -0-		
Operator:	-0- -0- -0-, OH -0- -0-		
Inspector:	-0-	Revised Date:	-0-
Fiscal Track:	FY93	Coordinator:	Central Office Closure
Facility Status:	Reported		
Classification:	Known suspected or confirmed source and responsible person is voluntarily, or under an informal enforcement action, proceeding with investigation of corrective actions.		
Trust Fund:	Closure of an underground storage tank.		
Emerg Respnse:	2	Response By:	-0-
Vacant:	-, -0-	County Num:	57
Authorized By:	GILL	Authorize Date:	01/11/93
Remarks:	-0-		
Summary:	-0-		
Added Date:	01/11/93	Entry By:	UNGER
Response Srch:	-0-	Priority:	2

UST:

Facility ID:	0-570319	Tank ID:	1
Capacity:	8,000	Tank Status:	Remv
Tank Age:	Unk	Owner Name:	TECHNICOTE, INC.
Product:	HAZ-69742-89-8	Owner Address:	222 MOUND AVE
Material:	Bare Steel	City, State, Zip:	MIAMISBURG, OH 45342
Piping Material:	Bare Steel	Facility Contact:	MILES D. TREECE
Piping Type:	Suction -- Valve	Telephone:	(513) 859-4448
Remed. Des. Tanks:	Not reported		
Remed. Des. Piping:	Not reported		

Facility ID:	0-570319	Tank ID:	2
Capacity:	8,000	Tank Status:	Remv
Tank Age:	Unk	Owner Name:	TECHNICOTE, INC.
Product:	Not reported	Owner Address:	222 MOUND AVE
Material:	Bare Steel	City, State, Zip:	MIAMISBURG, OH 45342
Piping Material:	Bare Steel	Facility Contact:	MILES D. TREECE
Piping Type:	Suction -- Valve	Telephone:	(513) 859-4448
Remed. Des. Tanks:	Not reported		
Remed. Des. Piping:	Not reported		

TECHNICOTE INC (Continued) — 1000243045

Facility ID:	0-570319	Tank ID:	3
Capacity:	500	Tank Status:	Remv
Tank Age:	Unk	Owner Name:	TECHNICOTE, INC.
Product:	Not reported	Owner Address:	222 MOUND AVE
Material:	Bare Steel	City, State, Zip:	MIAMISBURG, OH 45342
Piping Material:	Bare Steel	Facility Contact:	MILES D. TREECE
Piping Type:	Suction -- Valve	Telephone:	(513) 859-4448
Remed. Des. Tanks:	Not reported		
Remed. Des. Piping:	Not reported		

9
NNW
1/4-1/2
Lower

PLOCHER ANDREW SONS
418 E FIRST ST
DAYTON, OH 45402

RCRIS-SQG 1000170454
FINDS OHD004243937

RCRIS:
Owner: PLOCHER ANDREW SONS
(312) 555-1212
Contact: CHUCK KRAFT
(513) 228-6128

Waste	Quantity	Info Source	Waste	Quantity	Info Source
D001	.00000 (N)	Notification	F003	.00000 (N)	Notification
F005	.00000 (N)	Notification			

(P) = Pounds , (K) = Kilograms , (M) = Metric Tons , (T) = Tons , (N) = Not Reported

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10
SW
1/4-1/2
Lower

SHELL OIL CO. #23420931760
1224 S MAIN ST
DAYTON, OH 45409

UST U000894456
N/A

UST:

Facility ID:	0-570157	Tank ID:	1
Capacity:	8,000	Tank Status:	Curr
Tank Age:	25	Owner Name:	SHELL OIL CO.
Product:	Gasoline	Owner Address:	7777 WASHINGTON VILLAGE DR
Material:	Fiberglass	City, State, Zip:	DAYTON, OH 45459
Piping Material:	Fiberglass	Facility Contact:	MIKE HORVATH
Piping Type:	Pressure	Telephone:	Not reported
Remed. Des. Tanks:	Not reported		
Remed. Des. Piping:	Not reported		

Facility ID:	0-570157	Tank ID:	2
Capacity:	10,000	Tank Status:	Curr
Tank Age:	25	Owner Name:	SHELL OIL CO.
Product:	Gasoline	Owner Address:	7777 WASHINGTON VILLAGE DR
Material:	Fiberglass	City, State, Zip:	DAYTON, OH 45459
Piping Material:	Fiberglass	Facility Contact:	MIKE HORVATH
Piping Type:	Pressure	Telephone:	Not reported
Remed. Des. Tanks:	Not reported		
Remed. Des. Piping:	Not reported		

SHELL OIL CO. #23420931760 (Continued) U000894456

Facility ID:	0-570157	Tank ID:	3
Capacity:	10,000	Tank Status:	Curr
Tank Age:	24	Owner Name:	SHELL OIL CO.
Product:	Gasoline	Owner Address:	7777 WASHINGTON VILLAGE DR
Material:	Fiberglass	City, State, Zip:	DAYTON, OH 45459
Piping Material:	Fiberglass	Facility Contact:	MIKE HORVATH
Piping Type:	Pressure	Telephone:	Not reported
Remed. Des. Tanks:	Not reported		
Remed. Des. Piping:	Not reported		

Facility ID:	0-570157	Tank ID:	4
Capacity:	1,000	Tank Status:	Curr
Tank Age:	22	Owner Name:	SHELL OIL CO.
Product:	Used Oil	Owner Address:	7777 WASHINGTON VILLAGE DR
Material:	Bare Steel	City, State, Zip:	DAYTON, OH 45459
Piping Material:	Bare Steel	Facility Contact:	MIKE HORVATH
Piping Type:	Pressure	Telephone:	Not reported
Remed. Des. Tanks:	Not reported		
Remed. Des. Piping:	Not reported		

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11 North 1/2-1 Lower — POINT STORE, 155 S MAIN ST, MIAMISBURG, OH 45342 — LUST — S100648047 N/A

LUST:

Facility ID:	570738	Incident ID:	573182400
Report No:	5731824	Facility Track:	0
Facility Tel:	-0-	Responsibility:	-0-
Owner:	-0- -0- -0-, OH -0- -0-		
Operator:	-0- -0- -0-, OH -0- -0-		
Inspector:	-0-	Revised Date:	-0-
Fiscal Track:	FY93	Coordinator:	Central Office Closure
Facility Status:	Reported		
Classification:	Known suspected or confirmed source and responsible person is voluntarily, or under an informal enforcement action, proceeding with investigation of corrective actions.		
Trust Fund:	Closure of an underground storage tank.		
Emerg Respnse:	2	Response By:	-0-
Vacant:	-, -0-	County Num:	57
Authorized By:	GILL	Authorize Date:	09/07/93
Remarks:	-0-		
Summary:	-0-		
Added Date:	09/23/93	Entry By:	UNGER
Response Srch:	-0-	Priority:	2

D12 NW 1/2-1 Lower — MIAMISBURG WATER TREATMENT PLT, 302 S RIVERVIEW, MIAMISBURG, OH 45342 — LUST — S101565457 N/A

MIAMISBURG WATER TREATMENT PLT (Continued) — S101565457

LUST:

Facility ID:	570747	Incident ID:	572089900
Report No:	5720899	Facility Track:	0
Facility Tel:	-0-	Responsibility:	-0-
Owner:	-0- -0- -0-, OH -0- -0-		
Operator:	-0- -0- -0-, OH -0- -0-		
Inspector:	-0-	Revised Date:	05/14/92
Fiscal Track:	FY92	Coordinator:	Central Office Closure
Facility Status:	No Further Action		
Classification:	Known suspected or confirmed source and responsible person is voluntarily, or under an informal enforcement action, proceeding with investigation of corrective actions.		
Trust Fund:	Closure of an underground storage tank.		
Emerg Respnse:	2	Response By:	-0-
Vacant:	1, -0-	County Num:	57
Authorized By:	GILL	Authorize Date:	05/13/92
Remarks:	-0-		
Summary:	CLOS RPT RECD		
Added Date:	04/23/92	Entry By:	UNGER
Response Srch:	-0-	Priority:	2

D13 NW 1/2-1 Lower — MIAMISBURG WELL FIELD / UNK SOURCE — SHWS — S100037719 / N/A
302 S RIVERVIEW AVE
MIAMISBURG, OH 45342

SHWS:

Facility ID:	557-1359	EPA ID:	NOT ASSIGNED	Prelim. Assessment Date:	Not reported
Priority:	HIGH - There is evidence or it is suspected that hazardous waste has been managed and there is evidence of a release of hazardous waste which which may present a substantial threat to public health or safety.				
Problem:	GW ORGANICS				

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)	Facility ID
BEAVERCREEK	U001964051	CATES SALES & SERVICE	3310 DAYTON XENIA RD	45432	UST	0-292261
BEAVERCREEK	S101562515	DYES PENNZOIL	3851 DAYTON XENIA RD	45432	LUST	-0-
BEAVERCREEK	S101562533	TOMS QUICK LUBE	3815 DAYTON XENIA RD	45432	LUST	-0-
BEAVERCREEK	S101562553	KNOLLWOOD GARDEN CENTER	3766 DAYTON XENIA RD	45432	LUST	-0-
BEAVERCREEK	U000892037	KNOLLWOOD MARATHON	3844 DAYTON-XENIA RD	45432	UST	0-290099
BEAVERCREEK	U000696152	DYE'S KNOLLWOOD PENNZOIL	3851 DAYTON-XENIA RD	45432	UST	0-294274
DAYTON	U001431511	BOONE WATER SYSTEMS, INC.	1519 S CENTRAL DR	45432	UST, LUST	290587
DAYTON	U000892071	TOM'S SUTO QUICK LUBE SERVIE I	3815 DAYTON XENIA RD	45432	UST	0-293719
DAYTON	U000894584	KNOLLWOOD FLORIST, INC.	3766 DAYTON XENIA RD	45432	UST	0-570895
DAYTON	1000990750	UES INC	4401 DAYTON-XENIA RD	45432	RCRIS-SQG	
DAYTON	1000289261	PHILLIPS SAND & GRAVEL	NORTH FAIRFIELD RD	45432	FINDS, CERC-NFRAP, SHWS	
MIAMISBURG	S100031602	UNKNOWN	ADJ 150 RIVERVIEW AVE	45342	LUST	-0-
MIAMISBURG	U002223400	PENNZOIL	8681 DAYTON CINCINNATI PIKE	45342	UST	0-572210
MIAMISBURG	U000894692	GARY L. JESTICE	72 N MAIN ST	45342	UST	0-577617
MIAMISBURG	U000894676	WYLIE F. FAULKNER	110 N MAIN ST	45342	UST	0-576514
MIAMISBURG	U001964188	C G & R	901 S MAIN ST	45342	UST	0-572444
MIAMISBURG	U001431648	THE POINTE	155 S MAIN ST	45342	UST	0-570738
MIAMISBURG	U001431608	FRALEY FENCE	311 N MAIN ST	45342	UST	0-570049
MIAMISBURG	U000894675	CITY OF MIAMISBURG	600 N MAIN ST	45342	UST	0-576023
MIAMISBURG	S100779275	US DOE MOUND FACILITY*	MOUND RD	45342	SHWS	
MIAMISBURG	U001431691	MONARCH MARKING SYS INC	ST RT 725 AND BYERS RD	45432	UST	0-574851

GEOCHECK VERSION 2.1 ADDENDUM
FEDERAL DATABASE WELL INFORMATION

Well Closest to Target Property (North Quadrant)

BASIC WELL DATA

Site ID:	393819084173900	Distance from TP:	1/2 - 1 Mile
Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1990	County:	Montgomery
Altitude:	692.17 ft.	State:	Ohio
Well Depth:	44.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	11.50 ft.	Prim. Use of Site:	Observation
Date Measured:	11271990	Prim. Use of Water:	Unused

LITHOLOGIC DATA

Geologic Age ID (Era/System/Series):	Cenozoic-Quaternary-Pleistocene
Principal Lithology of Unit:	Sand and silt
Further Description:	SILT/SAND BROWN

WATER LEVEL VARIABILITY

Not Reported

GEOCHECK VERSION 2.1
FEDERAL DATABASE WELL INFORMATION

Well Closest to Target Property (South Quadrant)

BASIC WELL DATA

Site ID:	393724084172900	Distance from TP:	1/2 - 1 Mile
Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1964	County:	Montgomery
Altitude:	698.00 ft.	State:	Ohio
Well Depth:	226.00 ft.	Topographic Setting:	Valley flat
Depth to Water Table:	Not Reported	Prim. Use of Site:	Withdrawal of water
Date Measured:	Not Reported	Prim. Use of Water:	Industrial

LITHOLOGIC DATA

Geologic Age ID (Era/System/Series):	Cenozoic-Quaternary-Pleistocene
Principal Lithology of Unit:	Outwash
Further Description:	Not Reported

WATER LEVEL VARIABILITY

Not Reported

GEOCHECK VERSION 2.1
FEDERAL DATABASE WELL INFORMATION

Well Closest to Target Property (West Quadrant)

BASIC WELL DATA

Site ID:	393757084173600	Distance from TP:	1/4 - 1/2 Mile
Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1955	County:	Montgomery
Altitude:	691.00 ft.	State:	Ohio
Well Depth:	95.00 ft.	Topographic Setting:	Valley flat
Depth to Water Table:	24.13 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	12311975	Prim. Use of Water:	Public supply

LITHOLOGIC DATA

Not Reported

WATER LEVEL VARIABILITY

Not Reported

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Water Well Information:

Well Within 1/2 - 1 Mile of Target Property (Northern Quadrant)

PWS ID:	5701212	Population Served:	18,500
Latitude:	0393813	Longitude:	0841744
Owner:	MIAMISBURG,CITY OF		
Source:	Ground		

Well Within >2 Miles of Target Property (Southern Quadrant)

PWS ID:	8301412	Population Served:	7,800
Latitude:	0393505	Longitude:	0841733
Owner:	SPRINGBORO,VLG.OF-CHAUTAUQUA		
Source:	Ground		

GEOCHECK VERSION 2.1
PUBLIC WATER SUPPLY SYSTEM INFORMATION

Searched by Nearest Well.

PWS SUMMARY:

PWS ID:	OH5744912	PWS Status:	Active	Distance from TP:	1/2 - 1 Mile
Date Initiated:	Not Reported	Date Deactivated:	Not Reported	Dir relative to TP:	North
PWS Name:	MOUND PLANT MANAGER, MAINTENANCE EG&G PO BOX 3000 MIAMISBURG, OH 45343				

Addressee / Facility Type:	Not Reported		
Facility Name:	Not Reported		
Facility Latitude:	39 38 34	Facility Longitude:	084 17 12
City Served:	Not Reported:		
Treatment Class:	Treated	Population Served:	1,001 - 2,500 Persons

Well currently has or has had major violation(s): No

EPA Waste Codes Addendum

Code	Description
D000	NOT DEFINED
D001	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
D002	A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
D003	A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.
F001	THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F002	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F003	THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F004	THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: CRESOLS AND CRESYLIC ACID, AND

Code	Description
	NITROBENZENE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F005	THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F006	WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.
F007	SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS
F008	PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS WHERE CYANIDES ARE USED IN THE PROCESS.
F009	SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS WHERE CYANIDES ARE USED IN THE PROCESS.
F010	QUENCHING BATH RESIDUES FROM OIL BATHS FROM METAL HEAT TREATING OPERATIONS WHERE CYANIDES ARE USED IN THE PROCESS.
F011	SPENT CYANIDE SOLUTIONS FROM SALT BATH POT CLEANING FROM METAL HEAT TREATING OPERATIONS.
F012	QUENCHING WASTE WATER TREATMENT SLUDGES FROM METAL HEAT TREATING OPERATIONS WHERE CYANIDES ARE USED IN THE PROCESS.
P029	COPPER CYANIDE
P029	COPPER CYANIDE CU(CN)
P030	CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED
P074	NICKEL CYANIDE
P074	NICKEL CYNAIDE NI(CN)2
P098	POTASSIUM CYANIDE
P098	POTASSIUM CYANIDE K(CN)
P104	SILVER CYANIDE
P104	SILVER CYANIDE AG(CN)

EPA Waste Codes Addendum

Code	Description
P106	SODIUM CYANIDE
P106	SODIUM CYANIDE NA(CN)
P121	ZINC CYANIDE
P121	ZINC CYANIDE ZN(CN)2
U002	ACETONE (I)
U002	2-PROPANONE (I)
U112	ACETIC ACID ETHYL ESTER (I)
U112	ETHYL ACETATE (I)
U140	ISOBUTYL ALCOHOL (I,T)
U140	1-PROPANOL, 2-METHYL- (I,T)
U159	2-BUTANONE (I,T)
U159	METHYL ETHYL KETONE (MEK) (I,T)
U160	2-BUTANONE, PEROXIDE (R,T)
U160	METHYL ETHYL KETONE PEROXIDE (R,T)
U188	PHENOL
U210	ETHENE, TETRACHLORO-
U210	TETRACHLOROETHYLENE
U220	BENZENE, METHYL-
U220	TOLUENE
U226	ETHANE, 1,1,1-TRICHLORO-
U226	METHYL CHLOROFORM
U239	BENZENE, DIMETHYL- (I,T)
U239	XYLENE (I)

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM RECORDS:

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System
Source: EPA/NTIS
Telephone: 703-416-0702
CERCLIS: CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 08/31/95 — Date of Data Arrival at EDR: 11/02/95
Date Made Active at EDR: 12/04/95 — Elapsed ASTM days: 32

ERNS: Emergency Response Notification System
Source: EPA
Telephone: 202-260-2342
ERNS: Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/94 — Date of Data Arrival at EDR: 04/11/95
Date Made Active at EDR: 05/25/95 — Elapsed ASTM days: 44

NPL: National Priority List
Source: EPA
Telephone: 703-603-8852
NPL: National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, it is EDR's policy to plot NPL sites greater than approximately 500 acres in size as areas (polygons). Sites smaller in size are point-geocoded at the site's address.

Date of Government Version: 09/01/95 — Date of Data Arrival at EDR: 10/17/95
Date Made Active at EDR: 10/25/95 — Elapsed ASTM days: 8

RCRIS: Resource Conservation and Recovery Information System
Source: EPA/NTIS
Telephone: 703-308-7907
RCRIS: Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Date of Government Version: 05/31/95 — Date of Data Arrival at EDR: 06/28/95
Date Made Active at EDR: 08/22/95 — Elapsed ASTM days: 55

FEDERAL NON-ASTM RECORDS:

CONSENT: Superfund (CERCLA) Consent Decrees
Source: EPA Regional Offices
Telephone: Varies
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: Varies — Date of Next Scheduled Update: 09/01/95

CORRACTS: Corrective Action Report
Source: EPA
Telephone: 703-308-7907
CORRACTS: CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 04/10/95 — Date of Next Scheduled Update: 12/18/95

FINDS: Facility Index System
Source: EPA/NTIS
Telephone: 800-908-2493
FINDS: Facility Index System. FINDS contains both facility information and "pointers" to other sources that contain more detail. These include: RCRIS, PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]), CERCLIS, DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), FRDS (Federal Reporting Data System), SIA (Surface Impoundments), CICIS (TSCA Chemicals in Commerce Information System), PADS, RCRA-J (medical waste transporters/disposers), TRIS and TSCA.

Date of Government Version: 07/27/94 — Date of Next Scheduled Update: 01/08/96

HMIRS: Hazardous Materials Information Reporting System
Source: U.S. Department of Transportation
Telephone: 202-366-4555
HMIRS: Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/94 — Date of Next Scheduled Update: 04/30/96

MLTS: Material Licensing Tracking System
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/01/95 — Date of Next Scheduled Update: 01/15/96

NPL LIENS: Federal Superfund Liens
Source: EPA
Telephone: 202-260-8969
NPL LIENS: Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/91 — Date of Next Scheduled Update: 02/26/96

PADS: PCB Activity Database System
Source: EPA
Telephone: 202-260-3992
PADS: PCB Activity Database. PADS identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 10/14/94 — Date of Next Scheduled Update: 02/19/96

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RAATS: RCRA Administrative Action Tracking System
Source: EPA
Telephone: 202-564-4104
RAATS: RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA.

Date of Government Version: 04/17/95 Date of Next Scheduled Update: 12/18/95

ROD: Records Of Decision
Source: NTIS
Telephone: 703-416-0703
Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 03/31/95 Date of Next Scheduled Update: 03/04/96

TRIS: Toxic Chemical Release Inventory System
Source: EPA/NTIS
Telephone: 202-260-2320
TRIS: Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/92 Date of Next Scheduled Update: 04/12/96

TSCA: Toxic Substances Control Act
Source: EPA/NTIS
Telephone: 202-260-1444
TSCA: Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site. USEPA has no current plan to update and/or re-issue this database.

Date of Government Version: 01/31/95 Date of Next Scheduled Update: 03/18/96

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STATE OF OHIO ASTM RECORDS:

LUST: List of Reported Petroleum Underground Storage Tank Release Incidents
Source: Department of Commerce
Telephone: 614-752-7926
LUST: Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 11/01/95 — Date of Data Arrival at EDR: 11/06/95
Date Made Active at EDR: 12/05/95 — Elapsed ASTM days: 29

SHWS: Master Sites List
Source: Ohio Environmental Protection Agency
Telephone: 614-644-3143
SHWS: State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 04/01/95 — Date of Data Arrival at EDR: 04/24/95
Date Made Active at EDR: 05/16/95 — Elapsed ASTM days: 22

SWF/LS: Licensed Solid Waste Facilities
Source: Ohio Environmental Protection Agency
Telephone: 614-644-2621
SWF/LS: Solid Waste Facilities/Landfill Sites. SWF/LS type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Section 2004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 04/22/95 — Date of Data Arrival at EDR: 06/26/95
Date Made Active at EDR: 07/27/95 — Elapsed ASTM days: 31

UST: Facility File
Source: Department of Commerce
Telephone: 614-752-7926
UST: Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 09/01/95 — Date of Data Arrival at EDR: 09/18/95
Date Made Active at EDR: 10/10/95 — Elapsed ASTM days: 22

STATE OF OHIO NON-ASTM RECORDS:

SPILLS: Inclused Reported Incidents, Spills or Releases to The Environment
Source: Ohio EPA
Telephone: 614-644-2084
SPILLS: All reported incidents, spills or releases to the environment.

Date of Government Version: 12/31/93 — Date of Next Scheduled Update: 12/18/95

Historical and Other Database(s)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

Disclaimer Provided by Real Property Scan, Inc.

The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

DELISTED NPL: Delisted NPL Sites
Source: EPA
Telephone: 703-603-8769
DELISTED NPL: The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

NFRAP: No Further Remedial Action Planned
Source: EPA/NTIS
Telephone: 703-416-0702
NFRAP: As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

FRDS: Federal Reporting Data System
Source: EPA/Office of Drinking Water
Telephone: 202-260-2805
FRDS provides information regarding public water supplies and their compliance with monitoring requirements, maximum contaminant levels (MCL's), and other requirements of the Safe Drinking Water Act of 1986.

Area Radon Information: The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

Oil/Gas Pipelines/Electrical Transmission Lines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines and electrical transmission lines.

Sensitive Receptors: There are individuals who, due to their fragile immune systems, are deemed to be especially sensitive to environmental discharges. These typically include the elderly, the sick, and children. While the exact location of these sensitive receptors cannot be determined, EDR indicates those facilities, such as schools, hospitals, day care centers, and nursing homes, where sensitive receptors are likely to be located.

USGS Water Wells: In November 1971 the United States Geological Survey (USGS) implemented a national water resource information tracking system. This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on more than 900,000 wells, springs, and other sources of groundwater.

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1994 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Water Dams: National Inventory of Dams
Source: Federal Emergency Management Agency
Telephone: 202-646-2801
WATER DAMS: National computer database of more than 74,000 dams maintained by the Federal Emergency Management Agency.

Ohio Public Water Systems
Source: Ohio EPA, Division of Drinking & Groundwater

7.5

Appendix 7.5 Environmental Appraisal Report of the Mound Plant (Extract)

9.65 BUILDING 43

9.65.1 Scope of Building 43 Report

In late 1995 and the early months of 1996, EG&G MAT performed a review of environmental conditions at the Mound Plant. The purpose was to develop a performance baseline, and to identify areas for improvement on a building and a sitewide basis. EG&G MAT did not perform a "due diligence" or Phase I Environmental Site Assessment as specified by ASTM 1527 or ASTM 1528. The scope of the appraisal effort and a discussion of the appraisal methodology are detailed in Sections 2.0 and 5.0, found in Volume 1 of this report.

The appraisal team performed a walk-through of Building 43 on the morning of February 7, 1996. The Environmental Appraisal Checklist (EAC) (Attachment 1—Section 9.65.6.1) was used to record findings. The appraisers were accompanied by the building manager. Other information was supplied by the building manager and recorded on the Building Manager's Questionnaire (BMQ), included as Attachment 2 (Section 9.65.6.2).

9.65.2 Description of Building 43

Building 43 is a one-story, 1516-square-foot, reinforced concrete structure. Its location is shown in Attachment 3 (Section 9.65.6.3). Building 1 is adjacent, to the east. The roof is of built-up membrane (asphalt). Floor plans are presented as Attachment 4 (Section 9.65.6.4). The building is serviced with electrical service of 240V, and central steam and chilled water (*Mound Facility Physical Characterization*, 12-1-93).

Building 43 was constructed in 1971 (MD-10391, *Asbestos Program Manual*, 9-14-95). The facility has been used for the same purpose since construction. Research and development activities involving thermite have been conducted in the building (*Mound Facility Physical Characterization*, 12-1-93). It is currently undergoing Safe Shutdown.

9.65.3 Summary of Findings

There were two issues of environmental concern identified during the walk-through or during review of reference materials.

9.65.4 Observations

9.65.4.1 Air Emissions

There is one fumehood in the building, which was not documented in the Mound Air Emissions Database. It is no longer being used. No air emission permit applications have been submitted to the Regional Air Pollution Control Agency (RAPCA) for activities in the building. There are no fuel-burning units in the building. There is no evidence of fugitive dust.

9.65.4.2 Wastewater Emissions

The Mound Facility has three wastewater collection systems: a sanitary wastewater system; a storm water system; and a radioactively contaminated process wastewater system. Sanitary wastewater is treated at an onsite tertiary treatment plant and subsequently discharged by hard pipe to the Great Miami River. Storm water and any non-process wastewater, single pass cooling water, and softener backwash may be discharged directly to the Great Miami River, via the Miami-Erie Canal, or may be diverted to a 3.1-million-gallon holding pond for settling prior to discharge. Radioactively contaminated wastewater is treated in Building WD by physical-chemical treatment. If appropriate, wastewater may be discharged by hard pipe to the Great Miami River. If concentrations of radioactive contaminants cannot be reduced to acceptable levels, wastewater is solidified and shipped to the Nevada Test Site or Envirocare for disposal. All outfalls are permitted under an active NPDES permit. Routine monitoring activities are in place. Based on NPDES monitoring report data reviewed, it appears that the facility is in compliance with qualitative and quantitative conditions of the permit.

9.65.4.2.1 Sanitary Wastewater

Building 43 is serviced by a sanitary line, according to the diagram of underground utilities in Attachment 5 (Section 9.65.6.5). It is equipped with a fire sprinkler system. Confirmation of drainage of sanitary waste and floor drains into sanitary conveyance lines was not within the scope of the effort; therefore, neither dye tests nor smoke test were conducted.

Sanitary effluent is conveyed to the onsite tertiary wastewater treatment facility, and subsequently discharged to the Great Miami River. There is no monitoring of building effluent. Based on operations data, supplied by the process owner, effluent from Building 43 does not deviate from that expected by the sanitary treatment plant manager.

9.65.4.2.2 Storm Wastewater

The building is partially serviced by storm drains, through two roof downspouts, according to drawings presented in Attachment 5 (Section 9.65.6.5). Storm water also becomes part of the surface water and is either absorbed into the ground or flows to the nearest storm drain inlet. Exterior grates and drains were not tested to confirm that they connect to the storm drainage system. Inspection showed no signs of odors, colored discharges, or scarring which would indicate that any materials other than storm water had entered the storm drainage system.

9.65.4.2.3 Chemicals

A review of the procedures and requirements contained in MD-10431, *Safe Shutdown Standards Operating Procedures*, and the Safe Shutdown process manager's records indicate that once Phase II Activities (i.e., commencement of Safe Shutdown) begin, all chemicals within the building are inventoried (chemicals contained in idle equipment are handled separately). Chemicals which can be reused, either at Mound or transferred to the City of Miamisburg—subject to age and condition—are identified and processed separately.

Subsequently, all the remaining chemicals are placed in containers, characterized, and transferred to Waste Management for disposition. A copy of the inventory, chemical profile of each container, and Waste Management's acceptance becomes a permanent part of the Mound Safe Shutdown Plan for the specific building. As chemicals are transferred to Waste Management, a central chemical database in the program manager's office is updated monthly to reflect the disposition. All activities are conducted in accordance with MD-70523, 40 CFR 265, and OAC 3745.52. As hazardous waste generators, all Safe Shutdown process managers have received training in accordance with 40 CFR 265.16. There is no evidence that chemicals entered the storm or sanitary drains.

9.65.4.3 Potable and Service Water

The building was equipped with potable water. There were no water coolers or fountains. A backflow prevention device was installed in the janitor's deep sink.

9.65.4.4 Chemical Storage and Hazardous Material

There are no chemicals stored in the building. The exhaust collection system may contain thermite dust particles, due to past process activities. Idle equipment has not been cleaned.

There are no aboveground storage tanks in or around the building. The diagram of underground utility lines presented in Attachment 5 (Section 9.65.6.5) indicates a 1,000-gallon storage tank. Visual inspection shows it no longer exists. There are no sumps, separators, or catch basins, in or around the building. There are no underground storage tanks associated with this building.

The building has been tested and does contain asbestos-containing building material (MD-10391, *Asbestos Program Manual*, 9-14-95). There was no evidence of friable asbestos; the Safe Shutdown process is not disturbing the asbestos.

There are no capacitors or transformers containing polychlorinated biphenyls (PCB's) located in the building. (1995 PCB Annual Document Log).

9.65.4.5 Solid, Hazardous, and Radioactive Wastes

During the Safe Shutdown process, hazardous materials and/or mixed wastes are generated in the process of cleaning idle equipment, furnishings, and personal property; removing tanks, cylinders, and process piping; and cleaning sumps and pits; etc. A review of procedures and requirements contained in MD-10431, *Safe Shutdown Standard Operating Procedures*, and the Safe Shutdown process manager's records indicate that the wastes are placed in containers, characterized (including testing for radionuclides), and then transferred to Waste Management for disposition. A copy of the inventory, chemical profile of each container, and Waste Management's acceptance become a permanent part of the Mound Safe Shutdown Plan for the specific building. All activities are conducted in accordance with MD-70523, 40 CFR 265, and OAC 3745.52. As hazardous waste generators, all Safe Shutdown process managers have received training in

accordance with 40 CFR 265.16. There is no evidence that hazardous waste entered either the storm or sanitary systems.

9.65.4.6 Waste Minimization and Pollution Prevention

At Mound there is an active program to minimize waste streams in accordance with state and federal requirements and Executive Order 12856. As part of the Safe Shutdown process, equipment and supplies were evaluated for reuse. They were handled in several ways: reused at Mound; sent to other DOE facilities; claimed by the City of Miamisburg; sold at auction; sold to recycle; or disposed of.

9.65.5 Findings and Recommendations

The environmental appraisal of Building 43 indicates that the following action item should be planned and scheduled for accomplishment thus assuring that best management and operating practices are in place.

43-1 Resource Conservation and Recovery Act (RCRA) regulations require that waste be removed from idled manufacturing and waste producing equipment within 90 days. ("Idle" is defined as occurring either from the cessation of production or idled between production runs). In the EG&G Mound Safe Shutdown Program, equipment is not addressed until funding, resources, and schedule permits, and/or ultimate disposition is known. The Safe Shutdown Program should review 40 CFR 261.4 and develop appropriate procedures for handling idle equipment.

43-2 The exhaust collection system may contain thermite dust particles due to past process activities.

7.6

Appendix 7.6 Radiological and Other Survey Reports

Appendix 7.6.1 Radiological

SAFE SHUTDOWN PROCEDURE

Title : Preradiological Assessment for non Radiological Buildings and Areas

1. **PURPOSE**

To establish that radiological contamination DOES NOT exist in buildings/areas normally treated as non-radiological areas of the plant before Safe Shutdown activities begin.

2. **SCOPE**

This procedure applies to all buildings and areas that are part of Mound's Safe Shutdown Program.

3. **REFERENCES**

MLM-3791 Mound Facility Physical Characterization, W. R. Tonne et. al.

Note: In the 1960 - 1980 era, Thoria and Urania were routinely used as non radioactive stand-ins for Plutonia. They were treated as non radioactive materials. Thus, contamination from these materials may exist in "cold" development areas that supported the Radioisotopic Thermoelectric Generator Program. as well as "Cold" side analytical laboratories.

4. **PROCEDURE**

1. List building or area covered by this review.

   Bldg 43/106

2. Review published documents on characterization of building and /or sites at the Mound Facility e.g., MLM - 3791.

   List documents or other reference material reviewed.

   MLM-3791
   Wayne King Report, Rough Draft 4/10/95

3. Review previously reported RAD incidents (check with Health Physics Section)

   List Incidents if any.

   None

4. Review Existing RAD Survey Records Wipes and FIDLER.
Summarize results. - No direct or removable contamination on the building floors or corridors. Fidler readings, Alpha and Beta wipes and meter readings were utilized during this survey.

5. From above reviews, identify known or suspect rooms/areas and list here:

None

5. RESULTS OF REVIEW

(A.) No Radiological Issues Suspected. Conduct standard H.P. Survey at conclusion of Phase II Shutdown Activities.

B. Potential Radiological Issues Suspected. Conduct special H.P. Survey before beginning Safe Shutdown Deactivation / Equipment activities.

C. Contamination found or suspected. Develop appropriate QA Plan and Work Package.

D. Comments:

Person responsible for this review: (sign and date) Don Horman 6/20/95

Approvals

Team Leader [signature] Date 6/20/95
Unit Manager Don Horman Date 6/20/95
Quality Harold Anderson Date 6/20/95

QUALITY ASSURANCE REVIEW

TITLE: Bldg 43 - Safe Shutdown	
AES:	LOCATION:
SPONSER: Don Homan	WBS: 5030709
ENGINEER:	HP NO.: [redacted]
QA MEETING DATE:	

PROJECT/FUNCTION ANALYSIS

DESCRIPTION/SCOPE: This project is to perform a safe shutdown process on Bldg 43/106, preparing the building for leasing to the City of Miamisburg for economic development. The City is planning to lease the facility to EG&G Star City to be used for similar activities as were performed under EG&G Mound. Bldg 43/106 has been used for the manufacture of thermite devices.

TASK RISK REVIEW, MAJOR CONCERNS, & JUSTIFICATION FOR LEVEL ASSIGNMENT:

Bldg 43/106 never contained RAD materials. The asbestos has been sealed and labeled. All thermite source materials (Iron Oxide, Aluminum Oxide, etc.) have been moved to the storage building 106. The building has been wiped down per an EMSOC-approved procedure to assure that the building meets the XXX clean criteria specified in the DOE Explosives Safety Manual.

OTHER CONSIDERATIONS/SPECIAL PLANS:

ANTICIPATED QA REQUIREMENT
LEVEL 1 ☐
LEVEL 2 ☐
LEVEL 3 ☒

APPROVALS		DATE
TEAM LEADER:	James A. Johnson Jr	6/20/95
BLDG MGR:	Leroy J. Allison	6/20/95
UNIT MGR:	Don Homan	6/20/95
QUALITY:	Harold J. Anderson	6/20/95

PROJECT QUALITY LEVEL DETERMINATION

PROJECT DESCRIPTION:

Bldg 43/106 - Safe Shutdown

POTENTIAL HAZARD	CONSEQUENCES	CONSEQUEN CATEGORY	FREQ / PRO CATEGORY	QA LEVEL	REF#	MITIGATING CORRECTIVE ACTIONS: EXISTING OR PROPOSED
RAD Materials	Potential contamination	1	1	3	1	
Chemicals (Starter materials for making thermite)	Spills and personnel contamination	2	1	3	2	Moved to Bldg 106
Asbestos	Respiratory uptake	2	2	3		Sealed over - DO NOT DISTURB
Thermite source materials	Ignition	1	1	3	3	

PROBABILITY \ CONSEQUENCE	1	2	3	4	5
5	3	2B	2B	1	1
4	3	2B	2B	1	1
3	3	3	2B	1	1
2	3	3	2B	1	1
1	3	3	2B	2B	1

INCREASING SEVERITY

CONSEQUENCE

FREQ

3 = ACCEPTABLE RISK / QUALITY LEVEL 3

2B = UNDESIRABLE RISK / QUALITY LEVEL 2

1 = UNACCEPTABLE RISK / QUALITY LEVEL 1

CATEGORY	CONSEQUENCE	FREQ / PROB
1	NONE	UNLIKELY
2	NEGLIBLE	POSSIBLE
3	MARGINAL	OCCURRED 1
4	SIGNIFICANT	OCCURRED 1+
5	CATASTROPHIC	OCCURRED YEARL

REFERENCES

1 See Preradiological Assessment for Bldg 43
2 Metal Oxides in bulk state
3 Sanitized per SOA 950118
4
5
6
7
8
9
10
11

Estimator _____ Date _____

SSQA85 WK4

Attached is the data from the building 43 Safe Shutdown Survey. This survey indicated no direct or removable contamination on the building or contents. Fidler readings, alpha & beta wipes and readings were utilized during this survey.

If you have any questions please call me at ext. 3937.

Roy Mowen
Health Physics Operations

No.

Health Physics Counting Laboratories
Request for Analysis and Health Physics Data Sheet
G Area Specific

To be filled out by Submitter

Name: Collas	HP #: [redacted]	RWP #:
Isotope: all	Analysis Required: ☒ Alpha ☒ Beta ☒ H^3	

Type of Sample: ☒ Paper Wipe ☐ Q-tip ☐ Millipore Filter ☐ Glass Fiber Filter ☐ Oil ☐ Water ☐ Other: Explain _____ (i.e. Hazardous Waste)

Description: ☐ Air Sample ☐ Personnel Sample (HP#) _____ ☒ Structural Sample ☐ Other: Explain _____ ☒ Equipment Sample

Time and Date Sample Was Taken:	Pre-screened:	No. of Samples:
2-24-95	☐ Yes ☒ No	17

Remarks: Bldg 43 + 106 (Shed) N/D - non Detectable
electra # 5271/5287 used to monitor Beta Readings

WIPE AREA: ☒ 100 cm² ☐

Fidler Check	# 3175/3613	3041/3434	
Next Cal. Due	2-24-95	5-3-95	

CHANNEL		One	Out	Two
	Bkg	150	6K	N/A
	Pu	22K	33K	✓
Field Inst. Res.	Th	2.5K	36K	N/A

Sample ID #	Sample Description	Alpha/Beta DPM/CPM Results	Alpha/Beta Inst. ID	Fidler/CPM One	Fidler/CPM Out	Fidler/CPM Two	PAC DPM/100 CM² #5266	PAC DPM/100 CM² #5281		
Background	Background									
	Check Standard						(A)	(B)		
43-1-1	Floor			N/D	N/D	N/A	N/D	N/D		
43-7-1	Floor									
43-7-2	Door									
43-7-3	Equipment									
43-7-4	Floor									
43-6-1	Floor									
43-2-1	Door									
43-2-2	Floor									
43-2-3	Floor									
43-2-4	Counter top									
43-2-5	Floor									
43-2-6	Floor									
43-2-7	Floor									
43-2-8	Floor									
43-3-1	Floor									
106-1	Floor									
106-2	Equipment			N/D	N/D	N/A	N/D	N/D		

Counting Facility Technician's Signature: Francine Kenney HP #: [redacted]

Radiological Control Technician's Signature: Cindy P Collas HP #: [redacted]

Date Submitted: 2-27-95 Date Completed: 2-27-95

Reviewed By: Mike O'Donoghue HP #: [redacted] Date: 4/4/95

Fidler # 3175/3613 used to monitor at channel Fidler # 3041/3434 used to monitor channel 1

ML-9380 (6-94) G AREA SPECIFIC

Unit #2 Group B HPCL #5 Prot #4

Health Physics Counting Lab – Wipe Analysis

Date: 02/28/95
Counting Unit Id: 2
Data file name: C:\LBXL\UNIT2\WIP2B003.XLD
Batch Ended: 02/27/95 21:05
Crosstalk Correction: Applied

Alpha activity action level (DPM): 20.00
Beta activity action level (DPM): 200.00

Batch ID: COLLAS BLDG. 43/106(SHED) 2-24-95 (17) FMK

		Alpha Activity			Beta Activity			Count	Completion
Carrier	Sample	DPM	σ	flags	DPM	σ	flags	time (min)	Date - Time
53	1	0.000	1.92	<MDA	0.00	2.49	<MDA	1.50	02/27/95 20:33
90	2	0.000	1.92	<MDA	0.00	2.49	<MDA	1.50	02/27/95 20:35
79	3	0.000	1.92	<MDA	0.00	2.49	<MDA	1.50	02/27/95 20:37
25	4	0.000	1.91	<MDA	0.00	1.76	<MDA	1.50	02/27/95 20:39
35	5	0.000	1.91	<MDA	0.00	1.76	<MDA	1.50	02/27/95 20:41
64	6	0.000	1.92	<MDA	0.00	2.49	<MDA	1.50	02/27/95 20:43
66	7	0.000	1.92	<MDA	0.00	2.49	<MDA	1.50	02/27/95 20:45
60	8	0.000	1.91	<MDA	0.00	1.76	<MDA	1.50	02/27/95 20:47
12	9	0.000	1.91	<MDA	0.00	1.76	<MDA	1.50	02/27/95 20:49
51	10	0.000	1.91	<MDA	0.00	1.76	<MDA	1.50	02/27/95 20:51
36	11	1.436	1.91	<MDA	0.00	1.76	<MDA	1.50	02/27/95 20:53
61	12	0.000	1.92	<MDA	0.00	2.49	<MDA	1.50	02/27/95 20:55
26	13	0.000	1.92	<MDA	0.00	2.49	<MDA	1.50	02/27/95 20:57
25	14	0.000	1.91	<MDA	0.00	1.76	<MDA	1.50	02/27/95 20:59
37	15	0.000	1.91	<MDA	0.00	1.76	<MDA	1.50	02/27/95 21:01
78	16	0.000	1.92	<MDA	0.00	2.49	<MDA	1.50	02/27/95 21:03
60	17	0.000	1.93	<MDA	1.45	3.04	<MDA	1.50	02/27/95 21:05

Test #: 4 Name:Pw H3 20cc UG 01-Mar-95 12:00
n A: LL-UL= 0.5-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
on B: LL-UL= 2.0-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
gion C: LL-UL= 0.0- 0.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
ime = 2.00 QIP = tSIE/AEC ES Terminator = Count
TAS BLDG.43/106 (SHED) 3-1-95 FMK
entional DPM
de 1 = 830
nescence Correction On

S#	TIME	CPMA	FLAG	LUM	tSIE	DPM1	2Sigma
1	10.00	8.70	B	7	673.		0.00
2	2.00	294.30		2	397.	777.64	140.08
3	2.00	0.80		0	644.	1.64	9.74
4	2.00	11.30		10	622.	23.40	15.14
5	2.00	1.30		5	599.	2.75	10.67
6	2.00	3.80		0	568.	8.26	11.65
7	2.00	5.80		4	609.	12.13	12.38
8	2.00	9.30		3	578.	20.04	14.12
9	2.00	3.30		4	652.	6.76	11.16
10	2.00	3.30		4	631.	6.81	11.23
11	2.00	9.80		3	629.	20.23	13.69
12	2.00	8.80		3	616.	18.29	13.42
13	2.00	0.00		22	636.	0.00	0.00
14	2.00	0.00		6	641.	0.00	0.00
15	2.00	2.30		0	623.	4.76	10.47
16	2.00	3.80		0	644.	7.80	11.00
17	2.00	6.30		7	620.	13.06	12.79
18	2.00	0.00		0	631.	0.00	0.00
19	2.00	7.80		3	468.	18.45	15.28

Appendix 7.6.2 Asbestos

ACM in buildings can be found in five (5) forms: sprayed or troweled on ceilings and walls (surfacing materials); insulation around pipes, ducts, boilers and tanks (pipe and boiler insulation); transite (in ground piping); and in roofing materials (shingles and roofing felts); other products such as ceiling and floor tiles and wall boards (miscellaneous materials).

ASBESTOS SURVEY REQUEST

COPY

A. PROJECT ENGINEER COMPLETES THIS SECTION

PROJECT TITLE: Building 43 Data Package

CHARGE NO.:

LOCATION (CRAWL SPACE, PENTHOUSE, ETC.) AND TYPE OF MATERIAL TO BE SAMPLED:

Provide synopsis of existing building data on asbestos and lead.

KNOWN HISTORICAL ASBESTOS INFORMATION (Review the drawings for this project, if asbestos is identified briefly indicate the location, quantity, and identity.)

PROJECT ENGINEER:	PHONE:	DATE SUBMITTED:
Dean Buckner	x3407	8/18/97

B. INDUSTRIAL HYGIENE COMPLETES THIS SECTION

FINDINGS:

- TSI is asbestos containing material (Pipe insulation and condensate tape).
- Roof materials are assumed to be asbestos containing materials.
- Floor-tile in rooms 4 and 5 is assumed asbestos-containing material.
- Due to the building's age and date of construction all painted surfaces should be considered to contain lead.

↳ Findings are based on PEI (1989 survey), BWS+C (1993 survey) and Mound IH 1996 resurvey of asbestos management plans. Reinspection forms (1996) are attached.

IF HIDDEN ASBESTOS IS ENCOUNTERED DURING THIS PROJECT, STOP WORK AND CALL INDUSTRIAL HYGIENE.

IS ALL ASBESTOS ACCOUNTED FOR ACCORDING TO PAST SURVEYS? ☑ YES ☐ NO

ABATEMENT ACTION REQUIRED:

- No materials to be disturbed prior to Industrial Hygiene being notified.
- Pipe insulation in Room 7 is damaged in numerous areas and needs repaired.
- Other materials are in fair to good condition and pose no exposure potential to plant personnel at present time.

↳ Asbestos Management via Mound Technical Manual MD-10391
↳ Lead Paint Management via Mound Technical Manual MD-10286, section D18

DATE:	APPROVED:
9-2-97	[signature] AHAS, AIHES INDUSTRIAL HYGIENE REP. QC Jim Elkins 9/4/97

ML-8682 (3-94)

COPY

ASBESTOS INSPECTION FORM

A. PRE-SURVEY DATA:

BUILDING: 43	SURVEY DATE: 5/96
RESPONSE AREA DESIGNATION: A	RESPONSE AREA DESCRIPTION: PIPE COVERINGS
ROOMS INCLUDED: 7	
MATERIAL INCLUDED: PIPE WRAP CONDENSATE TAPE - WHITE	

MATERIAL PREVIOUSLY INSPECTED? (CHECK ONE RESPONSE):	PREVIOUS HAZARD RANKING:	PREVIOUS PRIORITY LEVEL:
[X] YES [ ] NO [ ] N/A	[ ] 2	[ ] PLANNED

B. INSPECTION DATA:

IS MATERIAL FRIABLE? (CHECK ONE RESPONSE): [X] YES [ ] NO	ARE ASBESTOS LABELS PRESENT & IN GOOD CONDITION? (CHECK ONE): [X] YES [ ] NO [ ] N/A
WHAT IS THE PHYSICAL CONDITION? (CHECK ONE): [ ] GOOD [ ] DAMAGED [X] SIGNIFICANTLY DAMAGED	
SAMPLING OF MATERIAL REQUIRED? (CHECK ONE): [ ] YES [X] NO	
SAMPLE NUMBERS: [X] N/A	
WHAT IS THE POTENTIAL FOR DAMAGE? (CHECK ONE): [ ] LOW POTENTIAL [ ] POTENTIAL FOR DAMAGE [X] POTENTIAL FOR SIGNIFICANT DAMAGE	
CURRENT HAZARD RANKING: 5	CURRENT PRIORITY LEVEL: 3
RESPONSE OPTIONS (CHECK OPTIONS THAT APPLY): [X] REMOVE [X] ENCAPSULATE [X] REPAIR [ ] ENCLOSE [ ] MANAGE IN PLACE	
COMMENTS (NOTE LOCATION OF ANY DAMAGED MATERIAL IN THIS SECTION): Numerous areas broken, exposed, water damaged, the straight runs are fiberglass, while the fittings are asbestos.	
NAME OF INSPECTOR: Evan T. Kirk	HP NUMBER: [redacted]

T.Eilers\\b:inspect.frm

ASBESTOS INSPECTION FORM COPY

A. PRE-SURVEY DATA:

BUILDING: 43	SURVEY DATE: 5/96
RESPONSE AREA DESIGNATION: B	RESPONSE AREA DESCRIPTION: FLOORING
ROOMS INCLUDED: 4; 5	
MATERIAL INCLUDED: FLOOR TILE MASTIC	

MATERIAL PREVIOUSLY INSPECTED? (CHECK ONE RESPONSE):	PREVIOUS HAZARD RANKING:	PREVIOUS PRIORITY LEVEL:
[X] YES [ ] NO [ ] N/A	[ ] 1	[ ] PLANNED

B. INSPECTION DATA:

IS MATERIAL FRIABLE? (CHECK ONE RESPONSE): [ ] YES [X] NO	ARE ASBESTOS LABELS PRESENT & IN GOOD CONDITION? (CHECK ONE): [ ] YES [ ] NO [X] N/A
WHAT IS THE PHYSICAL CONDITION? (CHECK ONE): [X] GOOD [ ] DAMAGED [ ] SIGNIFICANTLY DAMAGED	
SAMPLING OF MATERIAL REQUIRED? (CHECK ONE): [X] YES [ ] NO	
SAMPLE NUMBERS: [X] N/A	
WHAT IS THE POTENTIAL FOR DAMAGE? (CHECK ONE): [X] LOW POTENTIAL [ ] POTENTIAL FOR DAMAGE [ ] POTENTIAL FOR SIGNIFICANT DAMAGE	
CURRENT HAZARD RANKING: 2	CURRENT PRIORITY LEVEL: 6
RESPONSE OPTIONS (CHECK OPTIONS THAT APPLY): [ ] REMOVE [ ] ENCAPSULATE [ ] REPAIR [ ] ENCLOSE [X] MANAGE IN PLACE	
COMMENTS (NOTE LOCATION OF ANY DAMAGED MATERIAL IN THIS SECTION): All flooring products were assumed to contain asbestos and should be sampled and analyzed prior to disturbance.	
NAME OF INSPECTOR: Evan T. Kirk	HP NUMBER: [redacted]

Appendix 7.6.3 Lead

Lead Paint

Prior to the 1970s, lead-based paints were nearly exclusively used in U.S. industry. Because of Congressional action, paints used since 1979 are not supposed to contain lead. Therefore, it is said that surfaces painted prior to 1979 "probably contain lead" and those painted after 1979 "may contain lead."

If a building is to be demolished, the paint film is a minuscule portion of the weight of the debris and all may be discarded in a land fill. If a building is to be refurbished, the costly lead survey may be requested to be completed to the degree required by the end use.

ASBESTOS SURVEY REQUEST COPY

A. PROJECT ENGINEER COMPLETES THIS SECTION

PROJECT TITLE: Building 43 Data Package

CHARGE NO.:

LOCATION (CRAWL SPACE, PENTHOUSE, ETC.) AND TYPE OF MATERIAL TO BE SAMPLED:

Provide synopsis of existing building data on asbestos and lead.

KNOWN HISTORICAL ASBESTOS INFORMATION (Review the drawings for this project, if asbestos is identified briefly indicate the location, quantity, and identity.)

PROJECT ENGINEER:	PHONE:	DATE SUBMITTED:
Dean Buckner	x3407	8/18/97

B. INDUSTRIAL HYGIENE COMPLETES THIS SECTION

FINDINGS:

- TSI is asbestos containing material (Pipe insulation and condensate tape).
- Roof materials are assumed to be asbestos containing materials.
- Floor-tile in rooms 4 and 5 is assumed asbestos-containing material.
- Due to the building's age and date of construction all painted surfaces should be considered to contain lead.

→ Findings are based on PEI (1989 survey), BWS+C (1993 survey) and Mound IH 1996 resurvey of asbestos management plans. Reinspection forms (1996) are attached.

IF HIDDEN ASBESTOS IS ENCOUNTERED DURING THIS PROJECT, STOP WORK AND CALL INDUSTRIAL HYGIENE.

IS ALL ASBESTOS ACCOUNTED FOR ACCORDING TO PAST SURVEYS? ☑ YES ☐ NO

ABATEMENT ACTION REQUIRED:

- No materials to be disturbed prior to Industrial Hygiene being notified.
- Pipe insulation in Room 7 is damaged in numerous areas and needs repaired.
- Other materials are in fair to good condition and pose no exposure potential to plant personnel at present time.

→ Asbestos Management via Mound Technical Manual MD-10391
→ Lead Paint Management via Mound Technical Manual MD-10286, section D18

DATE:	APPROVED:
9-2-97	[signature] AHAS, AIHES INDUSTRIAL HYGIENE REP. QC Tom Elkins 9/4/97

ML-8682 (3-94)

Appendix 7.6.4 Chemical History

CHEMICAL INVENTORY FOR BLDG.106

(Stored for use in Building 43.)

MATERIAL	QUANITY	UNITS	S-L-G	CONTAINER
FERRIC OXIDE	3	500G	S	GLASS BOTTLE
FERRIC OXIDE BLACK	4	500G	S	GLASS BOTTLE
FERRIC OXIDE	7	1GAL	S	CAN
FERRIC-FERRIOUS OXIDE	1	1GAL	S	CAN
IRON OXIDE	16	1000G	S	CAN
COPPER	1		S	PLASTIC BOTTLE
IRON OXIDE	1	1QT.	S	CAN
CUPRIC OXIDE	4	5LBS.	S	PLASTIC BOTTLE
CUPROUS OXIDE	4		S	PLASTIC BOTTLE
CUPRIC OXIDE	6		S	PLASTIC BOTTLE
COPPER OXIDE	13	100G	S	GLASS BOTTLE
CUOROUS OXIDE	10	1/2GAL.	S	CAN
CUPRIC OXIDE	15	1/2GAL.	S	CAN
NICKEL OXIDE	2	500G	S	GLASS BOTTLE
NICKLE OXIDE	4	2500G	S	CAN
NICKLE OXIDE	4	1000G	S	CAN
ALUMINUM OXIDE	1	12 1/2LBS.	S	PLASTIC BOTTLE
IRON OXIDE	2	5KG.	S	CARDBOARD BOX
TITANIUM	6	3.5LBS	S	PLASTIC BOTTLE
TITANIUM POWDER	1	500G	S	GLASS BOTTLE
NICKEL POWDER	61	500G	S	GLASS BOTTLE
NICKEL POWDER	48	100G	S	GLASS BOTTLE
NICKEL POWDER	1		S	GLASS BOTTLE
TITANIUM	2	100G	S	PLASTIC BOTTLE
NICKEL METAL	2	2500G	S	CAN
TITANIUM POWDER	3	5LBS.	S	CAN
ALUMINUM POWDER	41	2LBS.	S	CAN
ALUMINUM POWDER	46	10LBS.	S	CAN
COPPER POWDER	8	5LBS	S	PLSATIC BOTTLE
BORON	2	5LBS.	S	CAN
ALUMINUM POWDER	4	3LBS.	S	PLASTIC BOTTLE
BORON POWDER	1	250G	S	PLASTIC BOTTLE
ALUMINUM METAL	1	500G	S	PLASTIC BOTTLE
ALUMINUM OXIDE	6	1LBS.	S	CAN
NICKEL POWDER	2	500G	S	PLASTIC BOTTLE
ALUMINUM OXIDE	1	10LBS.	S	CAN
ALUMINUM POWDER	11	2LBS.	S	PLASTIC BOTTLE
BORON	1	10LBS.	S	PLASTIC BOTTLE
ALUMINUM SILICON POWDER	1	50LBS.	S	CARDBOARD BOX
FERRIC-FERRIOUS OXIDE	1	50LBS.	S	CAN
FERRIC OXIDE	1	5KG	S	CARDBOARD BOX
ALUMINUM POWDER	4	1LBS.	S	CAN

1994 Inventory, Typical of Thermite Usage

Chemical Waste Disposal List
of July, 1995

Epoxy Hardener
Epoxy
Silver oxide
Magnesium Perchlorate
Chromium oxide
Zirconium oxide
Titanium oxide
Barium oxide
Potassium Permanganate
Dust Burst
Rust Preventative
RTV
M.R.T.U. Part A
Foot spray
Paint
M.R.T.U., Part B
Plastic coating
Hydraulic fluid
Glass Plus
Teflon powder
Aluminum Silicon
Zirconium
WD-40
Iron powder
Tantalum
Silica
Silicon carbide
Magnesium metal
Silicon rod
Magnesium aluminum
Hydrochloric acid
Electro temp cement
K-poxy
Vacuum fluid
Permalon
Spray-ment adhesive
Duco cement
Duct seal

CHEMICAL INVENTORY TOTALS ON BUILDING

BY CHEMICAL STATE

BUILDING: 43

ROOM	CONTAINER ID	CHEMICAL NAME	SOLID QTY (LBS)	LIQUID QTY (GAL)	GAS QTY (CYL)	LABEL DATE	LAST TRANACT DATE	LAST TRANSACTION
1	CI02158	ALUMINUM SILICON	55.000			16-JAN-96	29-MAY-96	DISPOSED
1	CI02159	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
1	CI02160	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
1	CI02161	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
1	CI02162	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
1	CI02163	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
1	CI02164	BORON	10.000			17-JAN-96	29-MAY-96	DISPOSED
1	CI13321	ALUMINUM POWDER	8.981			17-JAN-96	29-MAY-96	DISPOSED
1	CI13322	ALUMINUM POWDER	8.981			17-JAN-96	29-MAY-96	DISPOSED
1	CI13323	ALUMINUM POWDER	8.981			17-JAN-96	29-MAY-96	DISPOSED
1	CI13324	ALUMINUM POWDER	8.981			17-JAN-96	29-MAY-96	DISPOSED
1	CI13325	ALUMINUM POWDER	2.245			17-JAN-96	29-MAY-96	DISPOSED
1	CI13326	ALUMINUM POWDER	2.245			17-JAN-96	29-MAY-96	DISPOSED
1	CI13327	ALUMINUM POWDER	4.490			17-JAN-96	29-MAY-96	DISPOSED
1	CI13328	ALUMINUM POWDER	4.490			17-JAN-96	29-MAY-96	DISPOSED
1	CI13329	ALUMINUM METAL	1.101			17-JAN-96	29-MAY-96	DISPOSED
1	CI13334	D DUSTIT ALUMINUM	.561			17-JAN-96	29-MAY-96	DISPOSED
1	CI13366	TEFLON	.220			17-JAN-96	29-MAY-96	DISPOSED
1	CI13385	ALUMINUM POWDER	1.101			16-JAN-96	29-MAY-96	DISPOSED
1	CI13386	ALUMINUM POWDER	1.101			16-JAN-96	29-MAY-96	DISPOSED
1	CI13388A	ALUMINUM POWDER	1.101			01-AUG-94	29-MAY-96	DISPOSED
1	CI13395	ALUMINUM POWDER	1.101			16-JAN-96	29-MAY-96	DISPOSED
1	CI13396A	ALUMINUM POWDER	1.101			01-AUG-94	29-MAY-96	DISPOSED
1	CI13398	ALUMINUM POWDER	1.101			16-JAN-96	29-MAY-96	DISPOSED
	CI13404	ALUMINUM POWDER	1.101			16-JAN-96	29-MAY-96	DISPOSED
	CI13406A	ALUMINUM POWDER	1.101			01-AUG-94	29-MAY-96	DISPOSED
1	CI13409	ALUMINUM POWDER	1.101			16-JAN-96	29-MAY-96	DISPOSED
1	CI13410	ALUMINUM POWDER	1.101			16-JAN-96	29-MAY-96	DISPOSED
1	CI13418	ALUMINUM POWDER	1.101			16-JAN-96	29-MAY-96	DISPOSED
1	CI13419	ALUMINUM POWDER	1.101			16-JAN-96	29-MAY-96	DISPOSED
1	CI13420	ALUMINUM POWDER	1.101			16-JAN-96	29-MAY-96	DISPOSED
1	CI13421	ALUMINUM POWDER	1.101			16-JAN-96	29-MAY-96	DISPOSED
1	CI13422	ALUMINUM POWDER	1.101			16-JAN-96	29-MAY-96	DISPOSED
1	CI13423	ALUMINUM POWDER	1.101			16-JAN-96	29-MAY-96	DISPOSED
1	CI13424	ALUMINUM POWDER	1.101			16-JAN-96	29-MAY-96	DISPOSED
1	CI13431	ALUMINUM POWDER	1.101			16-JAN-96	29-MAY-96	DISPOSED
1	CI13433	ALUMINUM POWDER	1.101			16-JAN-96	29-MAY-96	DISPOSED
1	CI13435	ALUMINUM POWDER	1.101			16-JAN-96	29-MAY-96	DISPOSED
1	CI13437	ALUMINUM POWDER	1.101			16-JAN-96	29-MAY-96	DISPOSED
1	CI13438	ALUMINUM POWDER	1.101			16-JAN-96	29-MAY-96	DISPOSED
1	CI13439	ALUMINUM POWDER	1.101			16-JAN-96	29-MAY-96	DISPOSED
1	CI13441	ALUMINUM POWDER	1.101			16-JAN-96	29-MAY-96	DISPOSED
1	CI13442	ALUMINUM POWDER	1.101			16-JAN-96	29-MAY-96	DISPOSED
2	CI00900	WD-40	.000			16-JAN-96	29-MAY-96	DISPOSED
2	CI00901	GLASS PLUS	.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI00902	CEMENT	.000			16-JAN-96	29-MAY-96	DISPOSED
2	CI02113	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02114	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02115	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02116	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02117	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02118	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02119	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02120	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02121	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02122	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02123	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED

CHEMICAL INVENTORY TOTALS ON BUILDING

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BUILDING: 43

ROOM	CONTAINER ID	CHEMICAL NAME	SOLID QTY (LBS)	LIQUID QTY (GAL)	GAS QTY (CYL)	LABEL DATE	LAST TRANACT DATE	LAST TRANSACTION
2	CI02124	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02125	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02126	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02127	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02128	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02129	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02130	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02131	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02132	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02133	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02134	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02135	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02136	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02137	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02138	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02139	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02140	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02141	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02142	ALUMINUM POWDER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02143	COPPER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02144	COPPER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02145	COPPER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02146	COPPER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02147	COPPER	5.000			17-JAN-96	29-MAY-96	DISPOSED
	CI02148	COPPER	5.000			17-JAN-96	29-MAY-96	DISPOSED
	CI02149	COPPER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02150	COPPER	5.000			17-JAN-96	29-MAY-96	DISPOSED
2	CI02151	ALUMINUM SILICON	5.507			16-JAN-96	29-MAY-96	DISPOSED
2	CI02152	ALUMINUM SILICON	5.507			16-JAN-96	29-MAY-96	DISPOSED
2	CI02153	ALUMINUM SILICON	5.507			16-JAN-96	29-MAY-96	DISPOSED
2	CI02154	ALUMINUM SILICON	5.507			16-JAN-96	29-MAY-96	DISPOSED
2	CI02155	ALUMINUM SILICON	2.203			16-JAN-96	29-MAY-96	DISPOSED
2	CI02156	FERRIC-OUS OX	11.013			16-JAN-96	29-MAY-96	DISPOSED
2	CI02157	FERRIC-OUS OX	50.000			16-JAN-96	29-MAY-96	DISPOSED
4	CI00903	DUST PRO	.000			17-JAN-96	29-MAY-96	DISPOSED
4	CI00904	DUST PRO	.000			17-JAN-96	29-MAY-96	DISPOSED
4	CI00905	PAINT	.000			17-JAN-96	29-MAY-96	DISPOSED
4	CI00906	DUST AWAY	.000			17-JAN-96	29-MAY-96	DISPOSED
4	CI00907	WD-40	.000			16-JAN-96	29-MAY-96	DISPOSED
4	CI00908	DEVCON EPOXY	.000			17-JAN-96	29-MAY-96	DISPOSED
4	CI00909	DEVCON EPOXY	.000			17-JAN-96	29-MAY-96	DISPOSED
4	CI00910	CASTING COMPOUND	.003			17-JAN-96	29-MAY-96	DISPOSED
4	CI00911	CASTING COMPOUND	.003			17-JAN-96	29-MAY-96	DISPOSED
4	CI00912	PAINT	.000			17-JAN-96	29-MAY-96	DISPOSED
4	CI00913	PLASTIC COAT	.000			17-JAN-96	29-MAY-96	DISPOSED
4	CI00917	HYDRAULIC OIL DTE26	.001			16-JAN-96	29-MAY-96	DISPOSED
4	CI02001	IRON OXIDE	.002			17-JAN-96	29-MAY-96	DISPOSED
4	CI02002	IRON OXIDE	.002			17-JAN-96	29-MAY-96	DISPOSED
4	CI02003	IRON OXIDE	.002			17-JAN-96	29-MAY-96	DISPOSED
4	CI02004	IRON OXIDE	.002			17-JAN-96	29-MAY-96	DISPOSED
4	CI02005	IRON OXIDE	.002			17-JAN-96	29-MAY-96	DISPOSED
4	CI02006	IRON OXIDE	.002			17-JAN-96	29-MAY-96	DISPOSED
4	CI02007	IRON OXIDE	.002			17-JAN-96	29-MAY-96	DISPOSED
4	CI02008	FERRIC-OUS OX	1.101			16-JAN-96	29-MAY-96	DISPOSED
4	CI02009	FERRIC-OUS OX	1.101			16-JAN-96	29-MAY-96	DISPOSED
4	CI02010	FERRIC-OUS OX	1.101			16-JAN-96	29-MAY-96	DISPOSED
4	CI02011	FERRIC FERROUS OXIDE	1.101			17-JAN-96	29-MAY-96	DISPOSED

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BUILDING: 43

ROOM	CONTAINER ID	CHEMICAL NAME	SOLID QTY (LBS)	LIQUID QTY (GAL)	GAS QTY (CYL)	LABEL DATE	LAST TRANACT DATE	LAST TRANSACTION
4	CI02012	FERRIC FERROUS OXIDE	1.101			17-JAN-96	29-MAY-96	DISPOSED
4	CI02013	FERRIC FERROUS OXIDE	1.101			17-JAN-96	29-MAY-96	DISPOSED
4	CI02014	FERRIC FERROUS OXIDE	1.101			17-JAN-96	29-MAY-96	DISPOSED
4	CI02015	FERRIC FERROUS OXIDE	2.203			17-JAN-96	29-MAY-96	DISPOSED
4	CI02016	FERRIC FERROUS OXIDE	2.203			17-JAN-96	29-MAY-96	DISPOSED
4	CI02017	FERRIC FERROUS OXIDE	2.203			17-JAN-96	29-MAY-96	DISPOSED
4	CI02018	FERRIC FERROUS OXIDE	2.203			17-JAN-96	29-MAY-96	DISPOSED
4	CI02019	FERRIC FERROUS OXIDE	2.203			17-JAN-96	29-MAY-96	DISPOSED
4	CI02020	FERRIC FERROUS OXIDE	2.203			17-JAN-96	29-MAY-96	DISPOSED
4	CI02021	FERRIC FERROUS OXIDE	2.203			17-JAN-96	29-MAY-96	DISPOSED
4	CI02022	FERRIC FERROUS OXIDE	2.203			17-JAN-96	29-MAY-96	DISPOSED
4	CI02023	FERRIC FERROUS OXIDE	2.203			17-JAN-96	29-MAY-96	DISPOSED
4	CI02024	FERRIC FERROUS OXIDE	2.203			17-JAN-96	29-MAY-96	DISPOSED
4	CI02026	FERRIC FERROUS OXIDE	2.203			17-JAN-96	29-MAY-96	DISPOSED
4	CI02027	FERRIC FERROUS OXIDE	2.203			17-JAN-96	29-MAY-96	DISPOSED
4	CI02028	FERRIC FERROUS OXIDE	2.203			17-JAN-96	29-MAY-96	DISPOSED
4	CI02029	FERRIC FERROUS OXIDE	2.203			17-JAN-96	29-MAY-96	DISPOSED
4	CI02030	FERRIC FERROUS OXIDE	2.203			17-JAN-96	29-MAY-96	DISPOSED
4	CI02031	FERRIC FERROUS OXIDE	10.000			17-JAN-96	29-MAY-96	DISPOSED
4	CI02032	FERRIC-OUS OX	2.203			16-JAN-96	29-MAY-96	DISPOSED
4	CI02033	CUPRIC OXIDE	5.000			17-JAN-96	29-MAY-96	DISPOSED
4	CI02034	CUPRIC OXIDE	5.000			17-JAN-96	29-MAY-96	DISPOSED
4	CI02035	CUPRIC OXIDE	5.000			17-JAN-96	29-MAY-96	DISPOSED
4	CI02036	CUPRIC OXIDE	5.000			17-JAN-96	29-MAY-96	DISPOSED
			#######	.000	.000			
4	CI02037	CUPRIC OXIDE			.000	17-JAN-96	29-MAY-96	DISPOSED
4	CI02038	CUPRIC OXIDE			.000	17-JAN-96	29-MAY-96	DISPOSED
4	CI02039	CUPRIC OXIDE			.000	17-JAN-96	29-MAY-96	DISPOSED
4	CI02041	CUPRIC OXIDE			.000	17-JAN-96	29-MAY-96	DISPOSED
4	CI02042	CUPRIC OXIDE			.000	17-JAN-96	29-MAY-96	DISPOSED
4	CI02043	CUPRIC OXIDE			.000	17-JAN-96	29-MAY-96	DISPOSED
4	CI02044	CUPRIC OXIDE			.000	17-JAN-96	29-MAY-96	DISPOSED
4	CI02045	UNKNOWN			.000	16-JAN-96	29-MAY-96	DISPOSED
4	CI02046	UNKNOWN			.000	16-JAN-96	29-MAY-96	DISPOSED
4	CI02047	COPPER			.000	17-JAN-96	29-MAY-96	DISPOSED
			.000	.000	.000			
4	CI02049	CUPRIC OXIDE	.000			17-JAN-96	29-MAY-96	DISPOSED
4	CI02050	CUPRIC OXIDE	.000			17-JAN-96	29-MAY-96	DISPOSED
4	CI02051	CUPRIC OXIDE	.000			17-JAN-96	29-MAY-96	DISPOSED
4	CI02052	CUPRIC OXIDE	.000			17-JAN-96	29-MAY-96	DISPOSED
4	CI02053	CUPRIC OXIDE	.000			17-JAN-96	29-MAY-96	DISPOSED
4	CI02054	CUPRIC OXIDE	.000			17-JAN-96	29-MAY-96	DISPOSED
4	CI02055	CUPRIC OXIDE	.000			17-JAN-96	29-MAY-96	DISPOSED
4	CI02056	CUPRIC OXIDE	.000			17-JAN-96	29-MAY-96	DISPOSED
4	CI02057	CUPRIC OXIDE	.000			17-JAN-96	29-MAY-96	DISPOSED
4	CI02058	CUPRIC OXIDE	.000			17-JAN-96	29-MAY-96	DISPOSED
4	CI02101	COPPER OXIDE	.220			17-JAN-96	29-MAY-96	DISPOSED
4	CI02102	COPPER OXIDE	.220			17-JAN-96	29-MAY-96	DISPOSED
4	CI02103	COPPER OXIDE	.220			17-JAN-96	29-MAY-96	DISPOSED
4	CI02104	COPPER OXIDE	.220			17-JAN-96	29-MAY-96	DISPOSED
4	CI02105	COPPER OXIDE	.220			17-JAN-96	29-MAY-96	DISPOSED

CHEMICAL INVENTORY TOTALS ON BUILDING

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BUILDING: 43

ROOM	CONTAINER ID	CHEMICAL NAME	SOLID QTY (LBS)	LIQUID QTY (GAL)	GAS QTY (CYL)	LABEL DATE	LAST TRANACT DATE	LAST TRANSACTION
4	CI02106	COPPER OXIDE	.220			17-JAN-96	29-MAY-96	DISPOSED
4	CI02107	COPPER OXIDE	.220			17-JAN-96	29-MAY-96	DISPOSED
4	CI02108	COPPER OXIDE	.220			17-JAN-96	29-MAY-96	DISPOSED
4	CI02109	COPPER OXIDE	.220			17-JAN-96	29-MAY-96	DISPOSED
			1.980	.000	.000			
4	CI02110	UNKNOWN			.000	16-JAN-96	29-MAY-96	DISPOSED
4	CI02111	UNKNOWN			.000	16-JAN-96	29-MAY-96	DISPOSED
			.000	.000	.000			
4	CI02025	FERRIC FERROUS OXIDE	2.203			17-JAN-96	29-MAY-96	DISPOSED
7	CI00914	GAS LEAK DETECTOR	.000			17-JAN-96	29-MAY-96	DISPOSED
			2.203	.000	.000			
7	CI00915	CATCH ALL			.000	17-JAN-96	29-MAY-96	DISPOSED
7	CI00916	CATCH ALL			.000	17-JAN-96	29-MAY-96	DISPOSED
7	CI03443	JANITORIAL CLOSET			.000	16-JAN-96	29-MAY-96	DISPOSED
7	CI03444	FREON R-22			.000	17-JAN-96	29-MAY-96	DISPOSED
	CI03445	FREON R-22			.000	17-JAN-96	29-MAY-96	DISPOSED
	CI02112	CLEANER, SS			.000	16-JAN-96	29-MAY-96	DISPOSED
			.000	.000	.000			