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ESC-080/98
March 26, 1998

Mr. Tim Fischer
U.S. Environmental Protection Agency
Region 5
77 W. Jackson Blvd.
Chicago, IL 60604-3590

Mr. Brian Nickel
Ohio Environmental Protection Agency
Southwest District Office
401 E. Fifth Street
Dayton, Ohio 45402-2911

SUBJECT: Contract No. DE-AC24-97OH20044
**FINAL RELEASE BUILDING DATA PACKAGES: BUILDINGS C,
33, 43, 35/59**

REFERENCE: Statement of Work Requirement C 5.3.2 -- Stakeholder
Participation in Mound

Dear Mr. Fischer and Mr. Nickel:

During the Public Review of the Building Data Packages for Buildings C, 33, 43 and 35/59, DOE/MEMP received comments from MMCIC. The Core Team has responded to these comments. The attached change pages for the buildings C, 33, 43 and 35/59 Building Data Packages incorporate the comments, responses and necessary changes in the Building Data Packages.

In addition, for the Building 33 Building Data Package, please add the attached radiological survey information to Appendix 6.6.1 and replace the information in Appendix 6.9 with the attached revised Work Plan.

This information has been authorized for release to US EPA, OEPA and ODH by Sam Cheng of MEMP.

Page 2 FINAL RELEASE BUILDING DATA PACKAGES: BUILDINGS C, 33, 43, 35/59

If you require further information, please contact Dave Rakel at extension 4203.

Sincerely,



Linda R. Bauer, Ph.D.
Department Manager, Environmental Safeguards & Compliance

LRB/nmg

Enclosures as stated

cc: Kathy Lee Fox, OEPA, (1) w/attachments
Ray Beaumier, OEPA, (1) w/attachments
Jim Webb, ODH, (1) w/attachments
Dann Bird, MMCIC, (1) w/attachments
Administrative Record, (1) w/attachments
Public Reading Room, (5) w/attachments
DCC

BDP C

REV	DESCRIPTION	DATE
PUBLIC RELEASE 0	Available for comments.	Dec. 23, 1997
1	Cmment period complete. 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 5, 1998. Public comment will be accepted on these packages from January 5, 1998, through February 5, 1998.

BDP C Bldg: Records Storage (Old Cafeteria)

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 C

Background:

Building C is a one-story structure, with a basement, constructed in concrete block with brick face exterior. The roof is a metal built-up membrane of coal tar. Building C was one of the original group of buildings constructed in 1948 and contains 13,403 square feet. The building is bordered by a sidewalk on all sides. Adjacent buildings are Building A to the north, Building M to the south, Building 40 to the east, and Building H to the west. The building is serviced by central steam for heat and roof air conditioning.

The building was originally the old cafeteria and provided that service until 1986. Afterwards the building was used for offices, record storage, engineering project storage, maintenance storage and as an Emergency Shelter. Currently, the building is empty.

Recommendation:

After thorough review of the environmental data and the building data package, the Core Team agrees that all existing environmental concerns associated with Building C have been addressed; therefore, lease or sale of Building C is protective of human health and the environment. The Core Team hereby recommends that the U.S. Department of Energy submit a letter to the Administrator of the U.S. EPA requesting final approval of the lease or sale of this property, as required by Section 120(h) of CERCLA.

Concurrence:

DOE/MEMP:	 Sam Cheng, D&D Team Leader	11-19-97 (date)
USEPA:	 Timothy J. Fischer, Remediation Project Manager	11/19/97 (date)
OEPA:	 Brian K. Nickel, Project Manager	11/19/97 (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* 3/17/98
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

BUILDING DATA PACKAGE (BDP)

BUILDING C

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 C 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 C 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 1/24/96.

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 C and a 15 foot perimeter border. All areas are *in gross* square feet (external wall to external wall).

Building C is a one-story structure, with a basement, constructed in concrete block with brick face exterior. The roof is a metal built-up membrane of coal tar. Building C was one of the original group of buildings constructed in 1948 and contains 13,403 square feet. The building is bordered by a sidewalk on all sides. Adjacent buildings are Building A to the north, Building M to the south, Building 40 to the east, and Building H to the west. The building is serviced by central steam for

heat and roof air conditioning (*Mound Facility Physical Characterization, 12-1-93*).

1.2 Statement of Environmental Concerns

Friable asbestos is present in pipe insulation and the ceiling tile.

Lead is not present in any painted surface but is in the seals of the cast iron drain piping.

Fluorescent lights may contain PCBs in the ballasts.

HVAC contained refrigerant. It has been removed.

Hydraulic fluid is associated with elevator operations.

Tritium is noted in sump water.

2.0 Introduction

2.1 Purpose

The purpose of this Building Data Package is to identify, through due diligence, 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. Jeff L. Boston has been designated as the Building Manager for Building C.

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 C 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. The *Site Survey Project* (1988) indicated no radiological contamination concerns. Samples accomplished as part of utilities excavations support this conclusion. Figure 1, Appendix 7.6.1 displays current Geographic Information System (GIS) data. The noted sampling locations are borings which resulted in non-detects. No CERCLA PRSs exist in the 15-foot perimeter. 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 no further soil samples were 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 January 24, 1997. 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.

- 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 C
- 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 C 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 conveyed 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 C 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 C is located on the main hill. 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 C was constructed in 1948 and acted as the main cafeteria for the site. 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 C

Building C is currently inactive.

3.6 Past Uses of Building C

The building was originally the old cafeteria and provided that service until 1986. Afterwards the building was used for offices, record storage, engineering project storage, maintenance storage and as an Emergency Shelter. Currently, the building is empty. The building is not contaminated with radioactive or energetic materials.

3.7 Current and Past Uses of Adjacent Buildings

Close Proximity to Building	Building Area (Sq. Ft.)	Current Use	Past Use	Direction from Building
40	12,227	Print Shop/ Tech Manuals	Print Shop/ Tech Manuals	Southeast
99	11,412	Security Offices	Security Offices	Northeast
H	17,334	Environmental Labs, Laundry/Change Rooms	Environmental Labs, Laundry/Change Rooms	West
M	56,018	Storage	Machine Shop	South
A/A Annex	55,582	Offices	Offices/ Record Storage	North

These facilities have had no environmental impact on Building C.

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 is currently operating a hazardous waste treatment and storage facility under a new RCRA Part B permit dated October 18, 1996. 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 C in quantities above the regulatory thresholds.

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 Energy 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 C.

4.4.1.1 Associated PRS Overview

No PRSs are associated with activities in or near Building C

4.4.1.2 Occurrence Reports

There are no occurrence reports associated with Building C.

4.4.2 Past Sampling Data

4.4.2.1 Radiation

A radiation survey was conducted on the Building C first floor on November 13, 1995 and on the basement on October 16, 1997. A wipe and scan survey was accomplished per the requirements of the Property/Waste Release Evaluation (PWRE). 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

There are no chemicals stored in the building. Pesticides and herbicides have been sprayed in or around the building. Although the floor drains are open, there was no visual evidence that chemicals have entered the storm or sanitary system. There have been no reported spills from Building C and none would be expected since it is empty and padlocked.

4.4.2.3 Lead Paint

A preliminary field test was accomplished. The use of lead paint is not suspected due to negative results. See Appendix 7.6.3.

4.4.2.4 Asbestos

An asbestos survey was accomplished. There is friable asbestos in the pipe insulation in the basement and in the original ceiling of the first floor. 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 0.8 pCi/l. The acceptable guideline level is 5.0 pCi/l. The EPA recommended standard is 4.0 pCi/l.

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 C is visible in the 1949 aerial photograph.

Table 2
Radiological Characterization Summary
Building C

TYPE	RSDS	LOCATION	SURVEY RESULTS (dpm/100 cm ²)	5400.5 Guidelines for Groups 1, 3, 4 (fixed + loose) (dpm/100 cm ²)	NUREG 1500 Guidelines (loose) (dpm/100 cm ²)	Attachment 1 Limit (fixed + loose) (See Note 2.) (dpm/100 cm ²)	COMMENTS
Highest Alpha Smearable Activity	All	All	<20	20	211	20	No Action Necessary
Highest Alpha Fixed Activity	All	All	<100	100	Note 1	100	No Action Necessary
Highest Beta Smearable Activity	All	All	<1,000	1,000	9940	1,000	No Action Necessary
Highest Beta Fixed Activity	All	All	<5,000	5,000	Note 1	5,000	No Action Necessary
Highest Tritium Smearable Activity	All	All	<1,000	1,000	Note 1	1,000	No Action Necessary
Water Sample from Sum in Basement	14Oct97	Sump	1.56nCi/L Trit 0.03 dpm/ccα =13.5 pCi/Lα	<u>DCG'S</u> 1E-3 uCi/L Trit 4 dpm/ccα (Pu)	<u>MCL's</u> See Note 3.	N/A	No Action Necessary
<p>Note 1: NUREG-1500 gives guidelines for loose beta and alpha only.</p> <p>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.</p> <p>Note 3: MCL's taken from National Primary Drinking Water Regulations 40 CFR part 141 subpart B.16. For gross alpha, 15 pCi/L For Tritium, from Table "A" 20,000 pCi/L average annual concentration would result in a whole body dose equivalent of 4 mrem.</p> <p>Note 4: ND=Non-Detectable Swipe</p> <p>Note 5: ND FIDLER=Non-Detectable Using FIDLER</p> <p>Note 6: AL = Action Level</p> <p>Note 7: MDA=Minimum Detectable Activity</p>							

5.0 Site Reconnaissance

5.1 Hazardous Substances in Connection with Identified Uses

5.1.1 Space

Building C is not in use at this time. There are no indications of the presence of hazardous substances.

5.1.2 Heating/Cooling

Steam for heating is provided to Building C via a below ground concrete trench system of distribution piping running from the powerhouse (Building P).

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

5.1.3 Stains or Corrosion

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 C is served by a sanitary drain line. A storm drain takes water from roof down spouts and from surface water. There are no indications of materials other than storm water flowing into these drains.

5.1.5 Wastewater

Potable water and sanitary service was provided for Building C. 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 not suspected based on 1995 preliminary field sample analysis by Mound's Industrial Hygiene Department. Paint observed to be in good condition. No excessive wear noted.

5.1.9 Fluorescent Lamps

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

5.2 Hazardous Substance Containers and Unidentified Substance Containers

No hazardous substance containers and unidentified substance containers are located in or within the 15'-0" perimeter of Building C.

5.3 Storage Tanks

No storage tanks are associated with the building.

5.4 Indications of PCBs

Fluorescent lighting was used in this building. Since Building C was constructed before the 1979 ban on PCBs in lamp ballast, 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

Lead seals of cast iron piping will be removed as part of demolition. Elevator hydraulic fluid and tritium in sump water are noted.

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. Jeff Boston, has been employed at the Mound plant for 18 years and the Building Manager of this building for the last 1 month. Before Jeff, Mr. Gary Weidenbach was Building Manager for 1½ years and Bill Whitelow was the Building Manager for 1½ years before Gary Weidenbach.

5.8.2 Historical Interviews

Mr. Bill Whitelow has been employed at Mound for 18 years. He was the Building Manager and Supervisor of Building C operations from 1994 until 1996. Bill submitted the Building Manager's Questionnaire as part of the Environmental Appraisal of the Mound Plant, 1996.

6.0 Findings and Observations

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

Energetic Material: No concerns.

Radiological: No concerns.

Lead: Not present in any painted surfaces but is in the seal of the cast iron piping.

HVAC Refrigerants: The HVAC refrigerants have been drained and disposed.

Asbestos: Pipe insulation in the basement and ceiling of the original portion of Building C do contain friable asbestos.

Fluorescent lights may contain PCBs in the ballasts.

Elevator hydraulic fluid, if noted, will be removed.

Tritium in sump does not represent a human health or environmental concern.

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.

6.1 Environmental Concern Evaluation (Matrix)

See the following table.

BUILDING #C: ENVIRONMENTAL CONCERN EVALUATION

DESCRIPTION	PROBLEM?	COMMENT	PROPOSED RESOLUTION	REFERENCE
Lead Paint	No	Painted surfaces, preliminary tests negative	Verify, dispose	Para. 4.4.2.3
HVAC	No	Refrigerant	Salvage, disposal complete	Para. 5.1.2
Asbestos	No	Pipe wrap, ceiling	Remove ACM	Para. 4.4.2.4
Fluorescent Lights	No	PCB in ballasts	Removal	Para 5.1.9
Lead (piping)	No	Seals of cast iron pipe	Removal	Para 5.7
Elevator Hydraulic Fluid	No	Required for elevator operation	Verify, remove	Para. 5.7
Tritium detected in the sump	No	Building to be demolished & filled in below MCL	Note presence	Table 2

7.0 Appendices

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
GIS	Geographical Information System
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
MEMP	Mound Environmental Management Project
MMCIC	Miamisburg Mound Community Improvement Corporation
MRC	Monsanto Research Corporation

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
PWRE	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

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

Appendix 7.2.1 Map of Montgomery County

Appendix 7.2.2 Site Plan and PRS Release Blocks

Appendix 7.2.3 Building Drawings

Appendix 7.2.4 PRS Supplemental Information
(None)

Appendix 7.2.5 Aerial Photographs

Appendix 7.3 Ownership/Historical Documentation: "Title Search"

Appendix 7.4 Regulatory Documentation: "EDR Document"

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

Appendix 7.6 Radiological and Other Survey Reports

Appendix 7.6.1 Radiological

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).

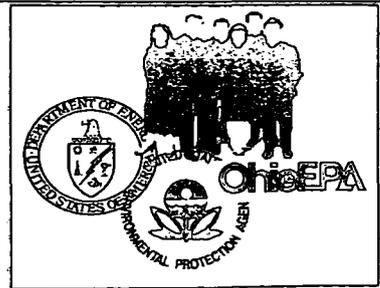
Appendix 7.6.3 Lead

Lead Paint

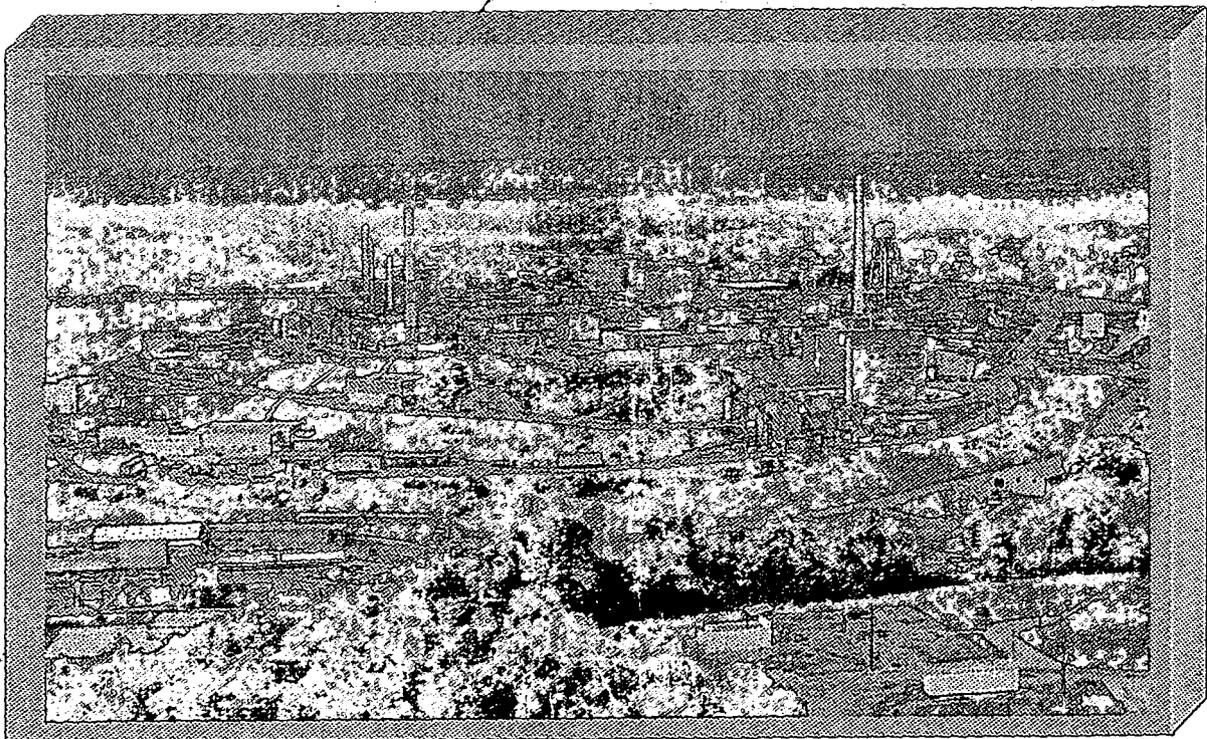
Prior to the 1970s, lead-based paints were nearly exclusively used in U.S. industry. Because of Congressional action, paints used since 1979 are not supposed to contain lead. Therefore, it is said that surfaces painted prior to 1979 "probably contain lead" and those painted after 1979 "may contain lead."

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.

Appendix 7.6.4 Chemical History



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



BDP C

REV	DESCRIPTION	DATE
PUBLIC RELEASE 0	Available for comments.	Dec. 23, 1997
1	Cmment period complete. 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 5, 1998. Public comment will be accepted on these packages from January 5, 1998, through February 5, 1998.

BDP C Bldg: Records Storage (Old Cafeteria)

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 C

Background:

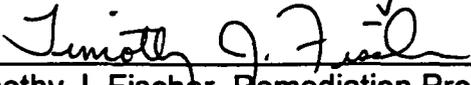
Building C is a one-story structure, with a basement, constructed in concrete block with brick face exterior. The roof is a metal built-up membrane of coal tar. Building C was one of the original group of buildings constructed in 1948 and contains 13,403 square feet. The building is bordered by a sidewalk on all sides. Adjacent buildings are Building A to the north, Building M to the south, Building 40 to the east, and Building H to the west. The building is serviced by central steam for heat and roof air conditioning.

The building was originally the old cafeteria and provided that service until 1986. Afterwards the building was used for offices, record storage, engineering project storage, maintenance storage and as an Emergency Shelter. Currently, the building is empty.

Recommendation:

After thorough review of the environmental data and the building data package, the Core Team agrees that all existing environmental concerns associated with Building C have been addressed; therefore, lease or sale of Building C is protective of human health and the environment. The Core Team hereby recommends that the U.S. Department of Energy submit a letter to the Administrator of the U.S. EPA requesting final approval of the lease or sale of this property, as required by Section 120(h) of CERCLA.

Concurrence:

DOE/MEMP:	<u></u>	<u>11-19-97</u>
	Sam Cheng, D&D Team Leader	(date)
USEPA:	<u></u>	<u>11/19/97</u>
	Timothy J. Fischer, Remediation Project Manager	(date)
OEPA:	<u></u>	<u>11/19/97</u>
	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.

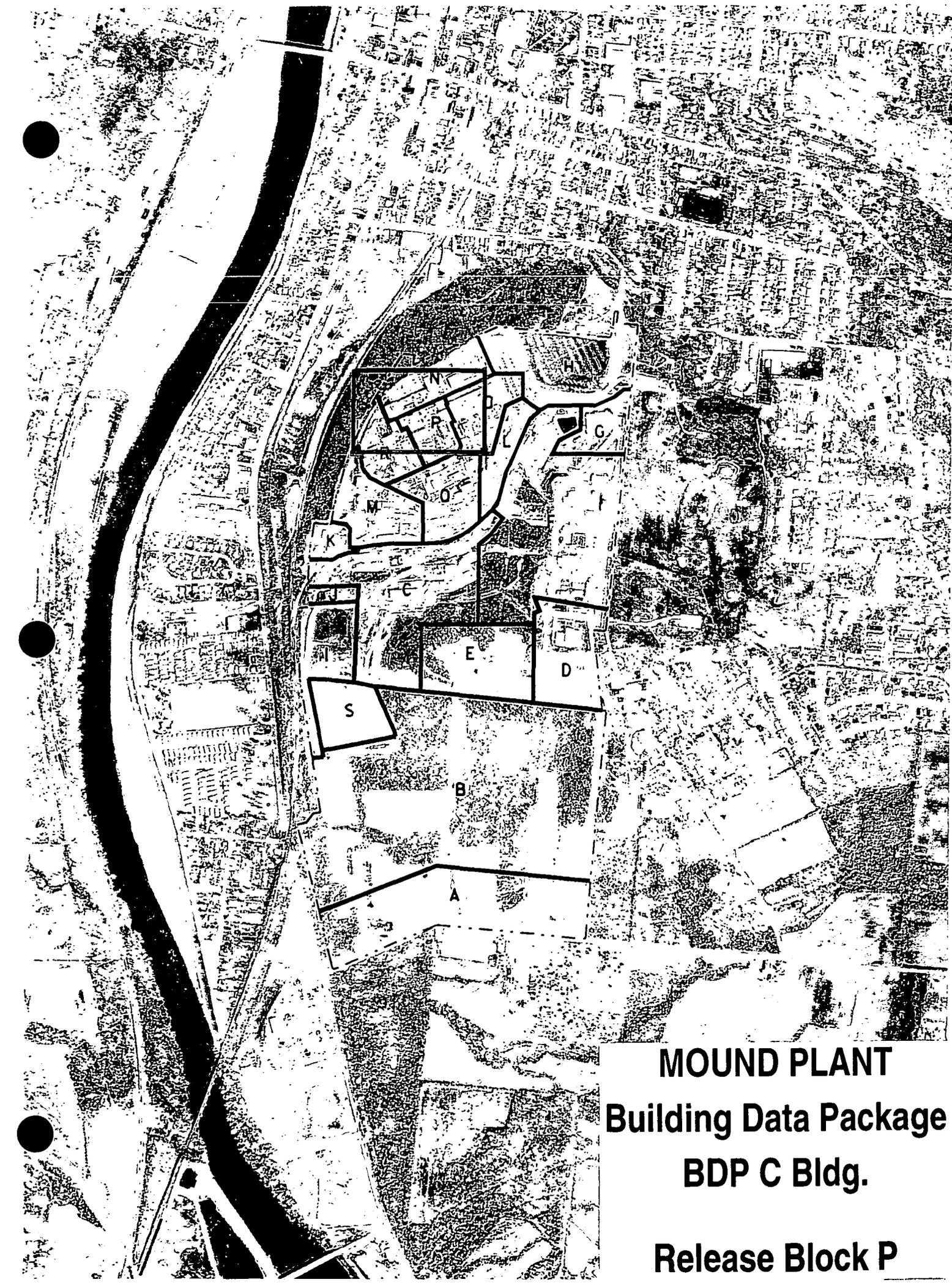
Should the responses to comments require additional detail, please contact Sam Cheng at (937) 865-4778 and we will gladly arrange a meeting or telephone conference.

Sincerely,

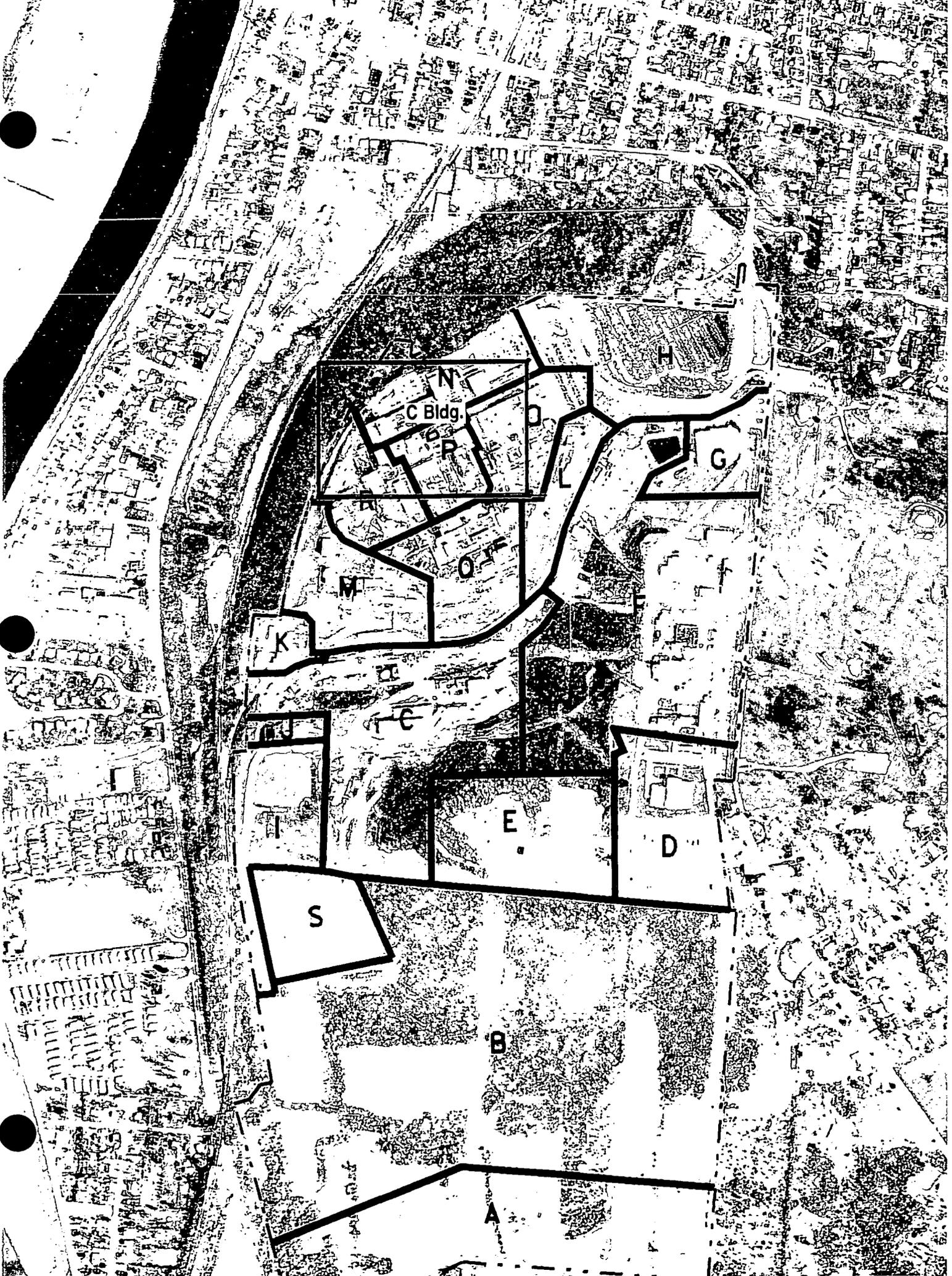
DOE/MEMP: *Sam Cheng* 3/17/98
Sam Cheng, DFR Team Leader

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 C Bldg.
Release Block P



C Bldg.

N

P

O

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S

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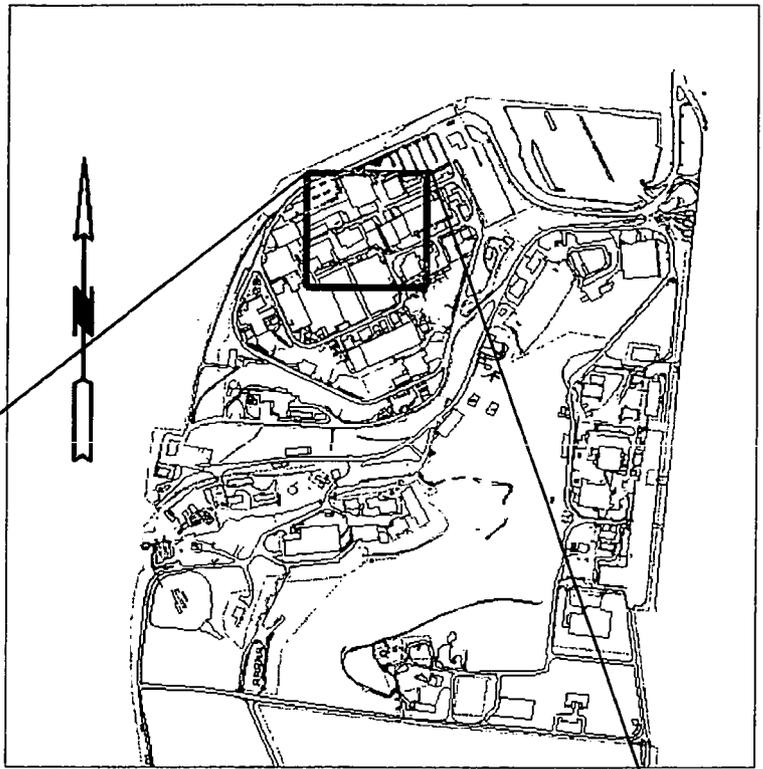
K

Mound Plant

C Building

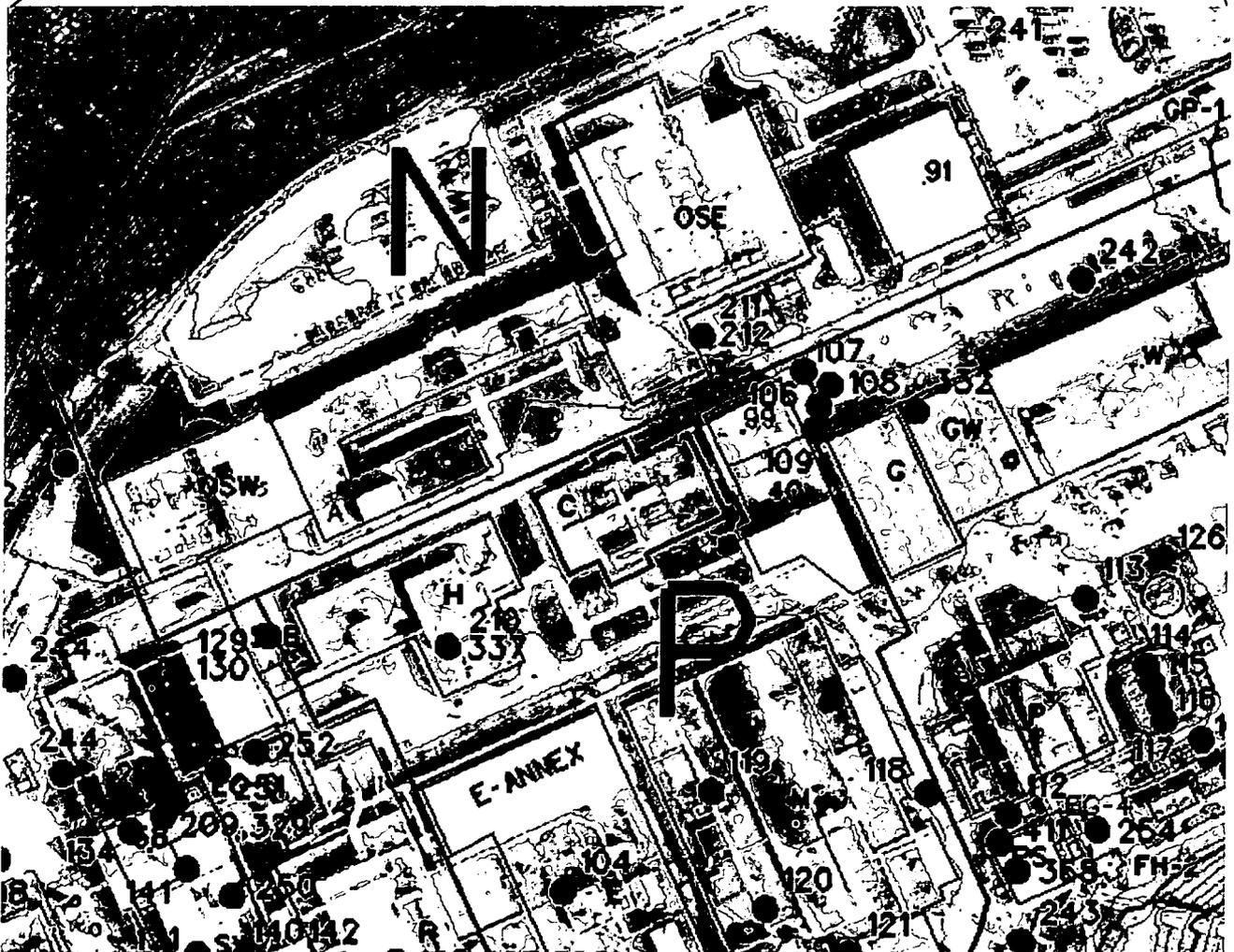
**Records Storage
(Old Cafeteria)**

Release Block P



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





Mound Plant Building C

9-3-69

BUILDING DATA PACKAGE (BDP)

BUILDING C

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 C 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 C 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 1/24/96.

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 C and a 15 foot perimeter border. All areas are *in gross* square feet (external wall to external wall).

Building C is a one-story structure, with a basement, constructed in concrete block with brick face exterior. The roof is a metal built-up membrane of coal tar. Building C was one of the original group of buildings constructed in 1948 and contains 13,403 square feet. The building is bordered by a sidewalk on all sides. Adjacent buildings are Building A to the north, Building M to the south, Building 40 to the east, and Building H to the west. The building is serviced by central steam for

heat and roof air conditioning (*Mound Facility Physical Characterization, 12-1-93*).

1.2 Statement of Environmental Concerns

Friable asbestos is present in pipe insulation and the ceiling tile.

Lead is not present in any painted surface but is in the seals of the cast iron drain piping.

Fluorescent lights may contain PCBs in the ballasts.

HVAC contained refrigerant. It has been removed.

Hydraulic fluid is associated with elevator operations.

Tritium is noted in sump water.

2.0 Introduction

2.1 Purpose

The purpose of this Building Data Package is to identify, through due diligence, 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. Jeff L. Boston has been designated as the Building Manager for Building C.

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 C 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. The *Site Survey Project* (1988) indicated no radiological contamination concerns. Samples accomplished as part of utilities excavations support this conclusion. Figure 1, Appendix 7.6.1 displays current Geographic Information System (GIS) data. The noted sampling locations are borings which resulted in non-detects. No CERCLA PRSs exist in the 15-foot perimeter. 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 no further soil samples were 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 January 24, 1997. 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.

- 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 C
- 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 C 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 conveyed 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 C 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 C is located on the main hill. 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 C was constructed in 1948 and acted as the main cafeteria for the site. 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 C

Building C is currently inactive.

3.6 Past Uses of Building C

The building was originally the old cafeteria and provided that service until 1986. Afterwards the building was used for offices, record storage, engineering project storage, maintenance storage and as an Emergency Shelter. Currently, the building is empty. The building is not contaminated with radioactive or energetic materials.

3.7 Current and Past Uses of Adjacent Buildings

Close Proximity to Building	Building Area (Sq. Ft.)	Current Use	Past Use	Direction from Building
40	12,227	Print Shop/ Tech Manuals	Print Shop/ Tech Manuals	Southeast
99	11,412	Security Offices	Security Offices	Northeast
H	17,334	Environmental Labs, Laundry/Change Rooms	Environmental Labs, Laundry/Change Rooms	West
M	56,018	Storage	Machine Shop	South
A/A Annex	55,582	Offices	Offices/ Record Storage	North

These facilities have had no environmental impact on Building C.

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 is currently operating a hazardous waste treatment and storage facility under a new RCRA Part B permit dated October 18, 1996. 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 C in quantities above the regulatory thresholds.

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 Energy 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 C.

4.4.1.1 Associated PRS Overview

No PRSs are associated with activities in or near Building C

4.4.1.2 Occurrence Reports

There are no occurrence reports associated with Building C.

4.4.2 Past Sampling Data

4.4.2.1 Radiation

A radiation survey was conducted on the Building C first floor on November 13, 1995 and on the basement on October 16, 1997. A wipe and scan survey was accomplished per the requirements of the Property/Waste Release Evaluation (PWRE). 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

There are no chemicals stored in the building. Pesticides and herbicides have been sprayed in or around the building. Although the floor drains are open, there was no visual evidence that chemicals have entered the storm or sanitary system. There have been no reported spills from Building C and none would be expected since it is empty and padlocked.

4.4.2.3 Lead Paint

A preliminary field test was accomplished. The use of lead paint is not suspected due to negative results. See Appendix 7.6.3.

4.4.2.4 Asbestos

An asbestos survey was accomplished. There is friable asbestos in the pipe insulation in the basement and in the original ceiling of the first floor. 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 0.8 pCi/l. The acceptable guideline level is 5.0 pCi/l. The EPA recommended standard is 4.0 pCi/l.

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 C is visible in the 1949 aerial photograph.

Table 2
Radiological Characterization Summary
Building C

TYPE	RSDS	LOCATION	SURVEY RESULTS (dpm/100 cm ²)	5400.5 Guidelines for Groups 1, 3, 4 (fixed + loose) (dpm/100 cm ²)	NUREG 1500 Guidelines (loose) (dpm/100 cm ²)	Attachment 1 Limit (fixed + loose) (See Note 2.) (dpm/100 cm ²)	COMMENTS
Highest Alpha Smearable Activity	All	All	<20	20	211	20	No Action Necessary
Highest Alpha Fixed Activity	All	All	<100	100	Note 1	100	No Action Necessary
Highest Beta Smearable Activity	All	All	<1,000	1,000	9940	1,000	No Action Necessary
Highest Beta Fixed Activity	All	All	<5,000	5,000	Note 1	5,000	No Action Necessary
Highest Tritium Smearable Activity	All	All	<1,000	1,000	Note 1	1,000	No Action Necessary
Water Sample from Sum in Basement	14Oct97	Sump	1.56nCi/L Trit 0.03 dpm/ccα =13.5 pCi/Lα	<u>DCG'S</u> 1E-3 uCi/L Trit 4 dpm/ccα (Pu)	<u>MCL's</u> See Note 3.	N/A	No Action Necessary
<p>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: MCL's taken from National Primary Drinking Water Regulations 40 CFR part 141 subpart B.16. For gross alpha, 15 pCi/L For Tritium, from Table "A" 20,000 pCi/L average annual concentration would result in a whole body dose equivalent of 4 mrem. Note 4: ND=Non-Detectable Swipe Note 5: ND FIDLER=Non-Detectable Using FIDLER Note 6: AL = Action Level Note 7: MDA=Minimum Detectable Activity</p>							

5.0 Site Reconnaissance

5.1 Hazardous Substances in Connection with Identified Uses

5.1.1 Space

Building C is not in use at this time. There are no indications of the presence of hazardous substances.

5.1.2 Heating/Cooling

Steam for heating is provided to Building C via a below ground concrete trench system of distribution piping running from the powerhouse (Building P).

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

5.1.3 Stains or Corrosion

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 C is served by a sanitary drain line. A storm drain takes water from roof down spouts and from surface water. There are no indications of materials other than storm water flowing into these drains.

5.1.5 Wastewater

Potable water and sanitary service was provided for Building C. 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 not suspected based on 1995 preliminary field sample analysis by Mound's Industrial Hygiene Department. Paint observed to be in good condition. No excessive wear noted.

5.1.9 Fluorescent Lamps

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

5.2 Hazardous Substance Containers and Unidentified Substance Containers

No hazardous substance containers and unidentified substance containers are located in or within the 15'-0" perimeter of Building C.

5.3 Storage Tanks

No storage tanks are associated with the building.

5.4 Indications of PCBs

Fluorescent lighting was used in this building. Since Building C was constructed before the 1979 ban on PCBs in lamp ballast, 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

Lead seals of cast iron piping will be removed as part of demolition. Elevator hydraulic fluid and tritium in sump water are noted.

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. Jeff Boston, has been employed at the Mound plant for 18 years and the Building Manager of this building for the last 1 month. Before Jeff, Mr. Gary Weidenbach was Building Manager for 1½ years and Bill Whitelow was the Building Manager for 1½ years before Gary Weidenbach.

5.8.2 Historical Interviews

Mr. Bill Whitelow has been employed at Mound for 18 years. He was the Building Manager and Supervisor of Building C operations from 1994 until 1996. Bill submitted the Building Manager's Questionnaire as part of the Environmental Appraisal of the Mound Plant, 1996.

6.0 Findings and Observations

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

Energetic Material: No concerns.

Radiological: No concerns.

Lead: Not present in any painted surfaces but is in the seal of the cast iron piping.

HVAC Refrigerants: The HVAC refrigerants have been drained and disposed.

Asbestos: Pipe insulation in the basement and ceiling of the original portion of Building C do contain friable asbestos.

Fluorescent lights may contain PCBs in the ballasts.

Elevator hydraulic fluid, if noted, will be removed.

Tritium in sump does not represent a human health or environmental concern.

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.

6.1 Environmental Concern Evaluation (Matrix)

See the following table.

BUILDING #C: ENVIRONMENTAL CONCERN EVALUATION

DESCRIPTION	PROBLEM?	COMMENT	PROPOSED RESOLUTION	REFERENCE
Lead Paint	No	Painted surfaces, preliminary tests negative	Verify, dispose	Para. 4.4.2.3
HVAC	No	Refrigerant	Salvage, disposal complete	Para. 5.1.2
Asbestos	No	Pipe wrap, ceiling	Remove ACM	Para. 4.4.2.4
Fluorescent Lights	No	PCB in ballasts	Removal	Para 5.1.9
Lead (piping)	No	Seals of cast iron pipe	Removal	Para 5.7
Elevator Hydraulic Fluid	No	Required for elevator operation	Verify, remove	Para. 5.7
Tritium detected in the sump	No	Building to be demolished & filled in below MCL	Note presence	Table 2

7.0 Appendices

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
GIS	Geographical Information System
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
MEMP	Mound Environmental Management Project
MMCIC	Miamisburg Mound Community Improvement Corporation
MRC	Monsanto Research Corporation

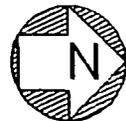
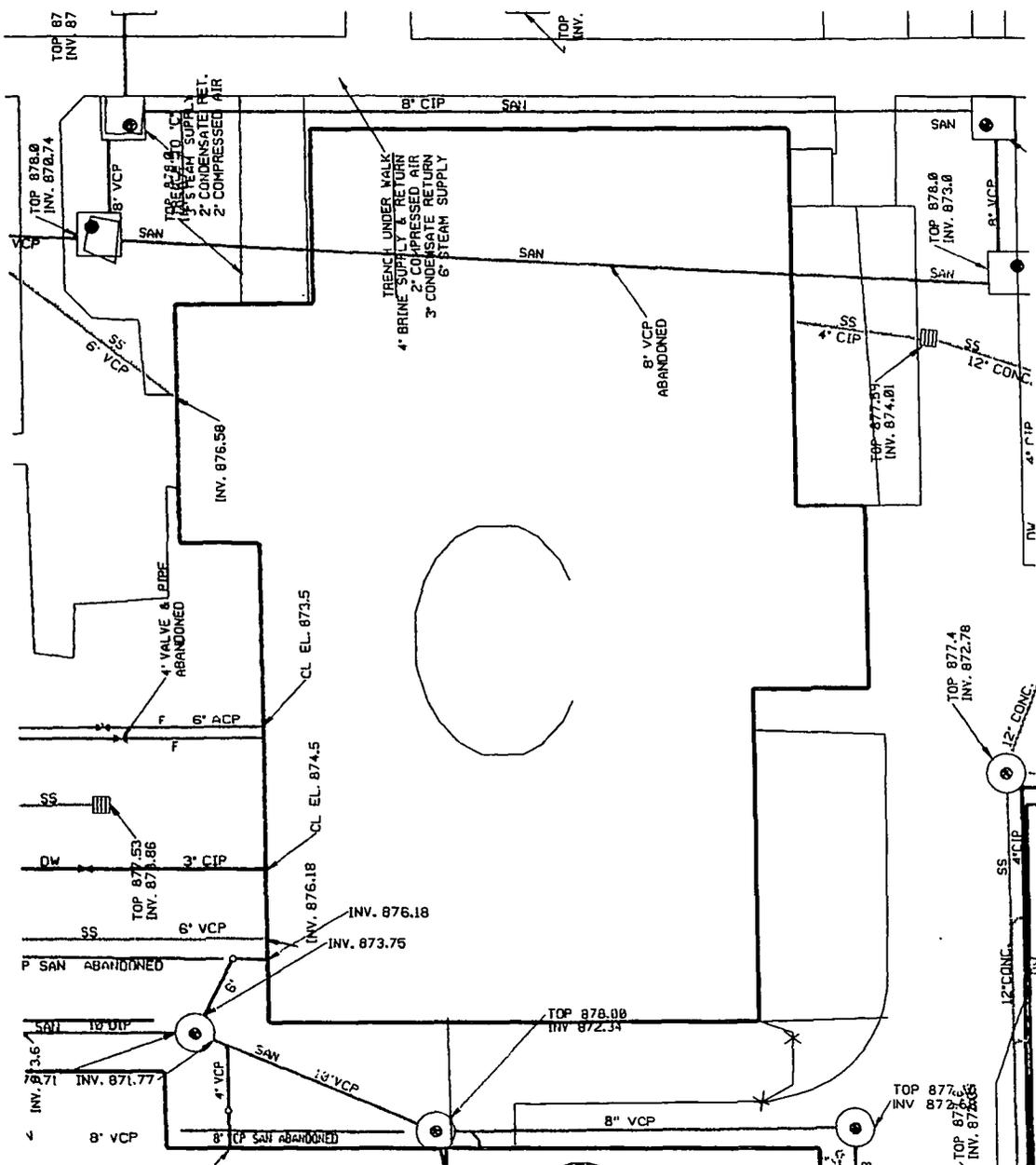
NPDES	National Pollutant Discharge Elimination System
NUREG	Nuclear Regulatory Guide
OEPA	Ohio Environmental Protection Agency
ORPS	Occurrence Reporting and Processing System
PADS	PCB Activity Database
PCB	Polychlorinated Biphenyls
PRS	Potential Release Site
PWRE	Property/Waste Release Evaluation
RAPCA	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

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

Appendix 7.2.1 Map of Montgomery County

Appendix 7.2.2 Site Plan and PRS Release Blocks

9.3-65



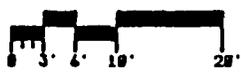
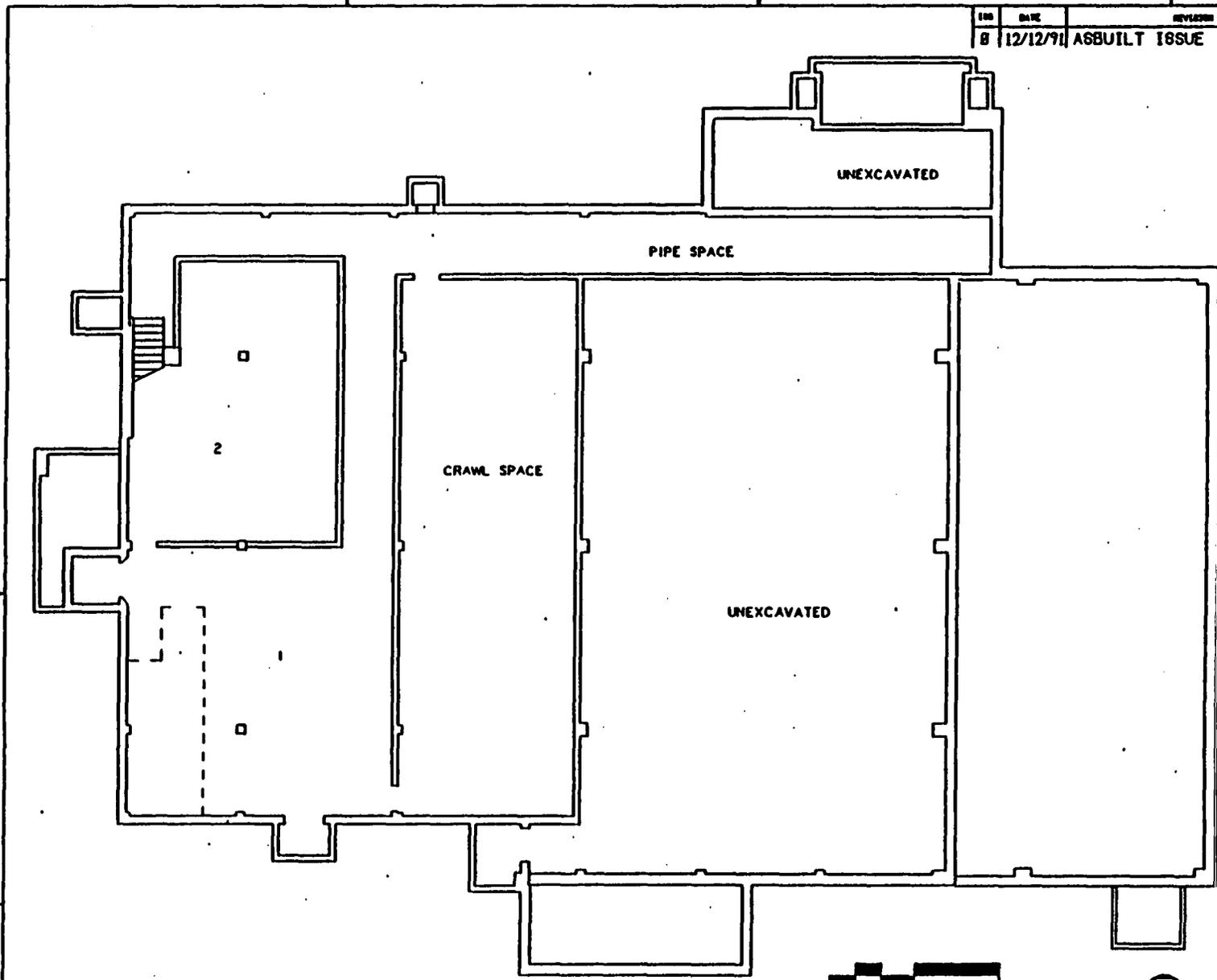
- FIRE
- POTABLE
- RAW
- SANITARY
- STORM
- RADIOLOGICAL

E.G.&G.-MOUND
 UNDERGROUND WATER & WASTE LINES
 BLOC. C
 DATE: 03-12-96

UNCLASSIFIED

Appendix 7.2.3 Building Drawings

REV	DATE	REVISION	BY	CHKD	APP'D	DATE
8	12/12/91	ASBUILT ISSUE				

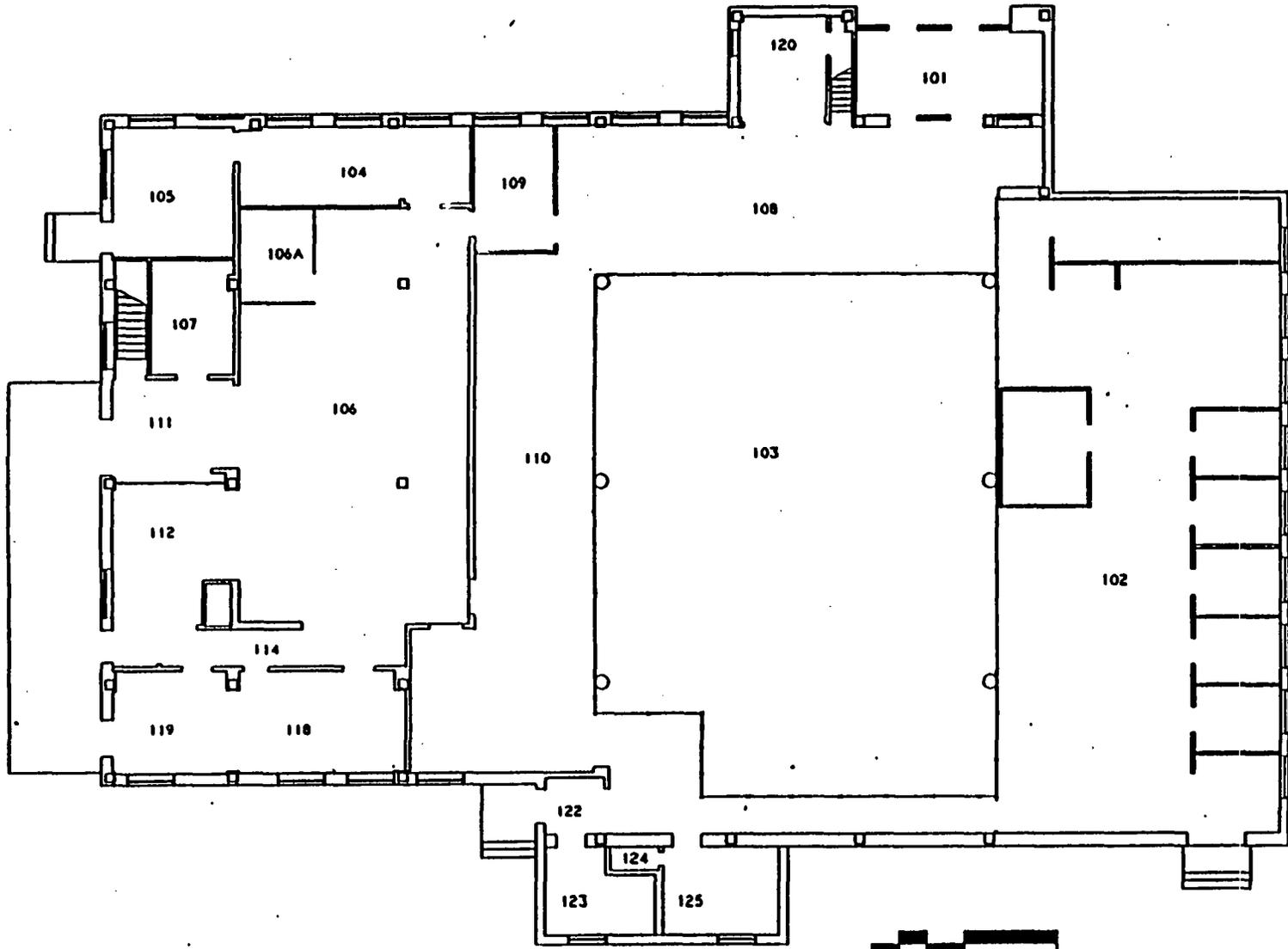


**C BLDG
BASEMENT
BLDG CODE:3502**

APPROVALS:	DATE:
SAFETY COMMITTEE REQUIRED:	
_____ HSE _____ PRC/DOC _____ TESC _____ DBOC	
TECH. REP. _____	
DR. PRG. _____	
TRACER _____	
TESC _____	
DBOC _____	

NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
DESIGN NO.																					
PROJECT NO.																					
DATE																					
CLASSIFICATION																					
UNCLASSIFIED																					
TYPE																					
SFP																					
BLDG																					
NO. 14863																					
SCALE AS NOTED																					
NO. 1 OF 2																					
STATUS																					
MD-CHK-12/12/91																					
ORIGIN																					
MD-BR3-V3.d																					

9.3-59



**C BLDG
FIRST FLOOR
BLDG CODE:3502**



PROJECT NUMBER	FSC911382		JOB NUMBER	12335
CLASSIFICATION	UNCLASSIFIED			
SIZE	C	DATE 14865	SCALE AS NOTED	
		FORM 8	SHEET 2	
STATUS	HD-REL-12/12/91			

Appendix 7.2.4 PRS Supplemental Information
(None)

Appendix 7.2.5 Aerial Photographs

Appendix 7.3 Ownership/Historical Documentation: "Title Search"



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. Zaenke* SECRETARY

Countersigned:

By *Michael Thomas*

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

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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.

EXECUTIVE SUMMARY

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.

<u>Equal/Higher Elevation</u>	<u>Page</u>	<u>Lower Elevation</u>	<u>Page</u>
<i>US DOE MOUND PLANT</i>	<i>8</i>	<i>US DOE MOUND PLANT</i>	<i>8</i>

SHWS: The State Hazardous Waste Sites 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. 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.

<u>Equal/Higher Elevation</u>	<u>Page</u>	<u>Lower Elevation</u>	<u>Page</u>
		<i>MIAMISBURG WELL FIELD / UNK SOURC</i>	<i>18</i>

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, 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.

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.

<u>Equal/Higher Elevation</u>	<u>Page</u>	<u>Lower Elevation</u>	<u>Page</u>
<i>US DOE MOUND PLANT</i>	<i>8</i>	<i>US DOE MOUND PLANT</i>	<i>8</i>

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.

<u>Equal/Higher Elevation</u>	<u>Page</u>	<u>Lower Elevation</u>	<u>Page</u>
<i>US DOE MOUND PLANT</i>	<i>8</i>	<i>US DOE MOUND PLANT</i>	<i>8</i>
		<i>DJ CERAMICS</i>	<i>10</i>
		<i>CG&R</i>	<i>11</i>
		<i>RICHARD CHURCH SR ESTATE</i>	<i>13</i>
		<i>TECHNICOTE INC</i>	<i>14</i>
		<i>POINT STORE</i>	<i>17</i>
		<i>MIAMISBURG WATER TREATMENT PLT</i>	<i>17</i>

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.

<u>Equal/Higher Elevation</u>	<u>Page</u>	<u>Lower Elevation</u>	<u>Page</u>
		<i>CITY OF MIAMISBURG PUMP STATIO</i>	<i>12</i>
		<i>TECHNICOTE INC</i>	<i>14</i>
		<i>SHELL OIL CO. #23420931760</i>	<i>16</i>

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.

<u>Equal/Higher Elevation</u>	<u>Page</u>	<u>Lower Elevation</u>	<u>Page</u>
		<i>GMC DELCO PRODUCTS DIV</i>	<i>12</i>
		<i>DAYTON PUBLIC SCHOOLS</i>	<i>12</i>
		<i>TECHNICOTE INC</i>	<i>14</i>
		<i>PLOCHER ANDREW SONS</i>	<i>16</i>

EXECUTIVE SUMMARY

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.

<u>Equal/Higher Elevation</u>	<u>Page</u>	<u>Lower Elevation</u>	<u>Page</u>
		<i>PRESTO ADHESIVE PAPER CO INC</i>	<i>13</i>

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.

<u>Equal/Higher Elevation</u>	<u>Page</u>	<u>Lower Elevation</u>	<u>Page</u>
<i>US DOE MOUND PLANT</i>	<i>8</i>	<i>US DOE MOUND PLANT</i>	<i>8</i>

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.

<u>Equal/Higher Elevation</u>	<u>Page</u>	<u>Lower Elevation</u>	<u>Page</u>
<i>US DOE MOUND PLANT</i>	<i>8</i>	<i>US DOE MOUND PLANT</i>	<i>8</i>
		<i>GMC DELCO PRODUCTS DIV</i>	<i>12</i>
		<i>DAYTON PUBLIC SCHOOLS</i>	<i>12</i>

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.

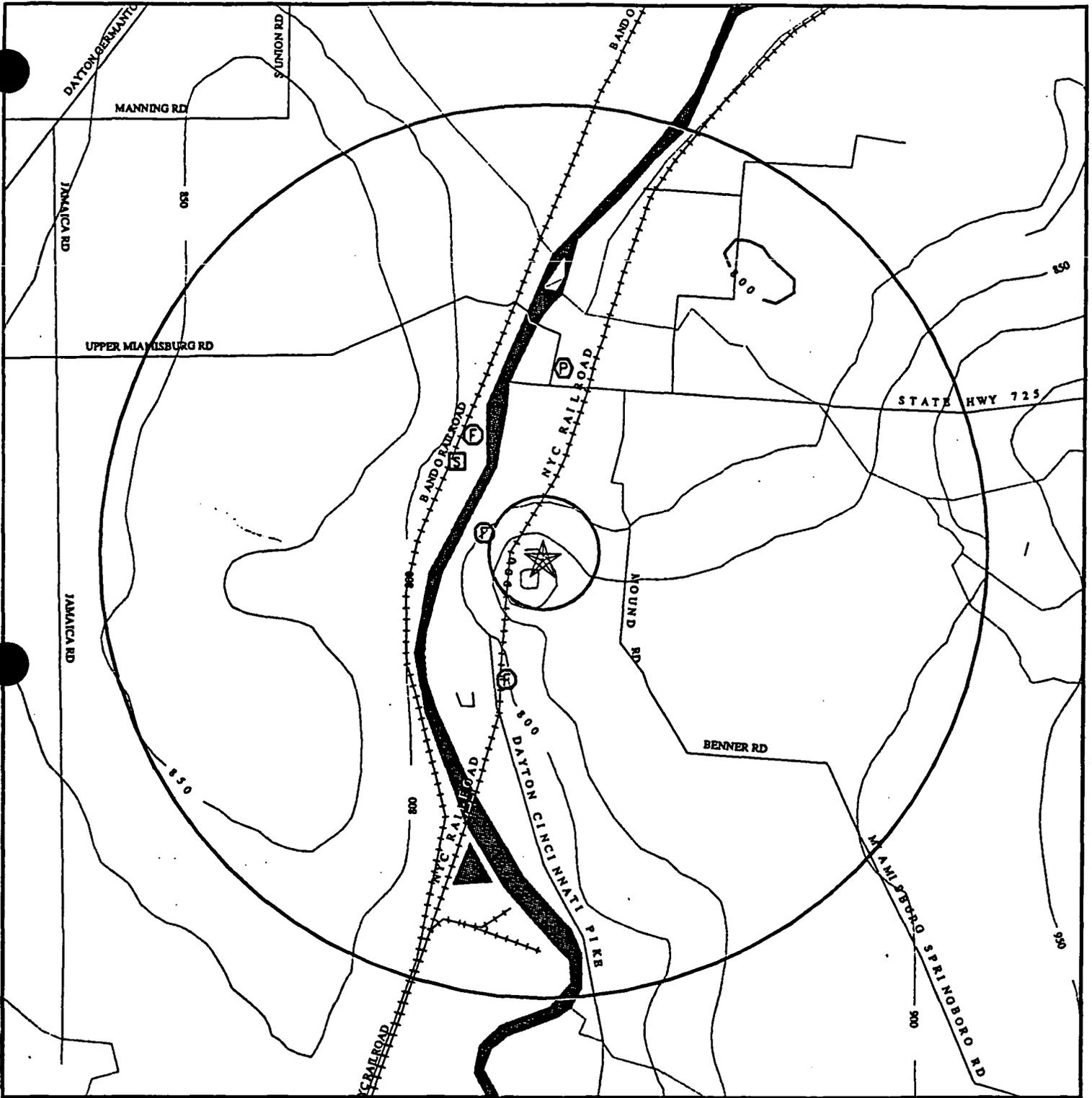
<u>Equal/Higher Elevation</u>	<u>Page</u>	<u>Lower Elevation</u>	<u>Page</u>
<i>US DOE MOUND PLANT</i>	<i>8</i>	<i>US DOE MOUND PLANT</i>	<i>8</i>

EXECUTIVE SUMMARY

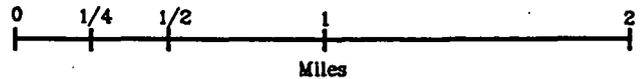
Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
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 SERVICE 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



- Major Roads

- Contour lines (25 foot interval unless otherwise shown)

- Waterways

- Earthquake epicenter, Richter 5 or greater.

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

- 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

<u>WELL QUADRANT</u>	<u>DISTANCE FROM TP</u>	<u>LITHOLOGY</u>	<u>DEPTH TO WATER TABLE</u>
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

<u>WELL QUADRANT</u>	<u>DISTANCE FROM TP</u>
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

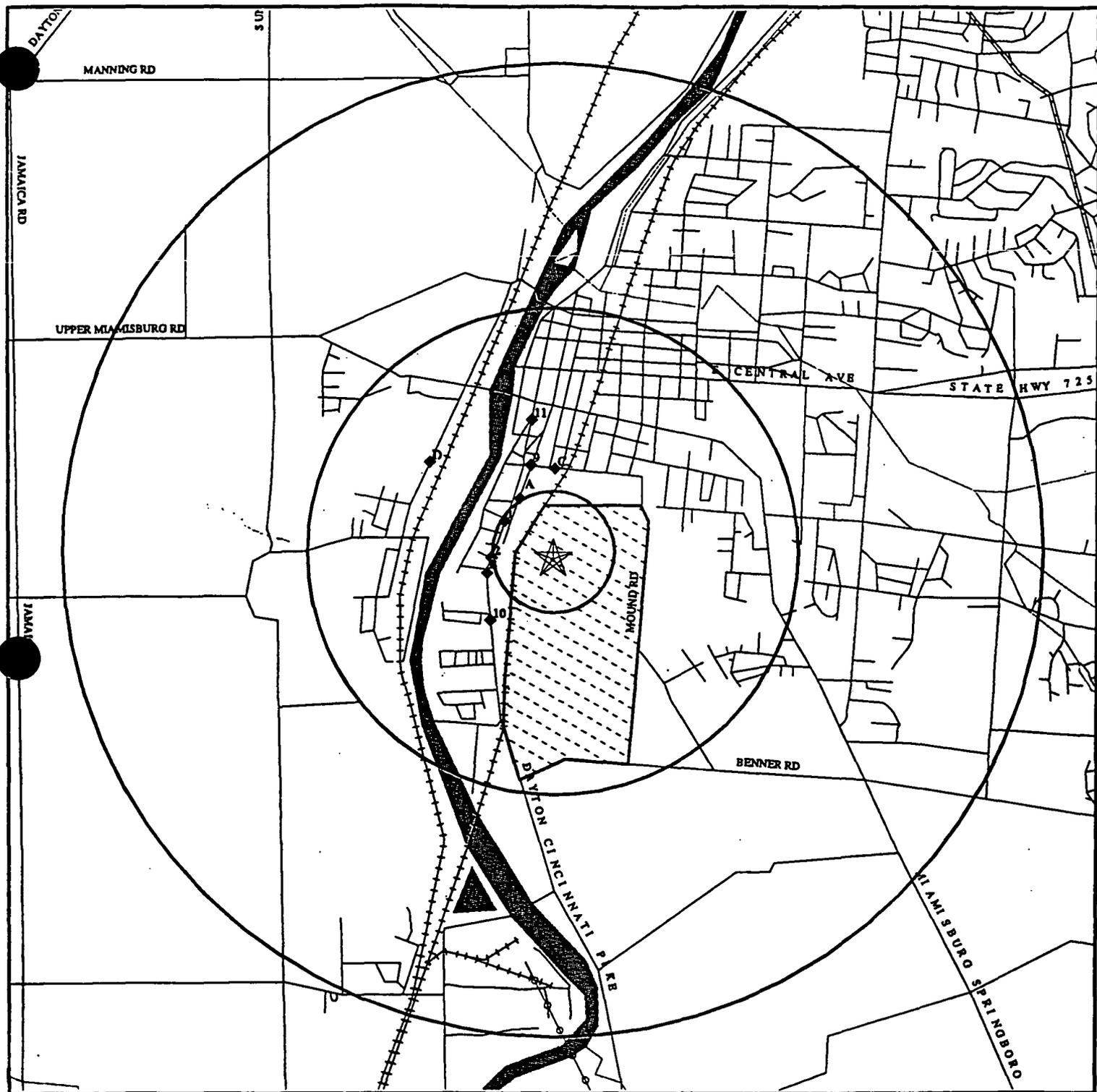
MONTGOMERY COUNTY, OH

Number of sites tested: 35

<u>Area</u>	<u>Average Activity</u>	<u>% <4 pCi/L</u>	<u>% 4-20 pCi/L</u>	<u>% >20 pCi/L</u>
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. Schruben, R.E. Arndt and W.J. Baswiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beilman 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

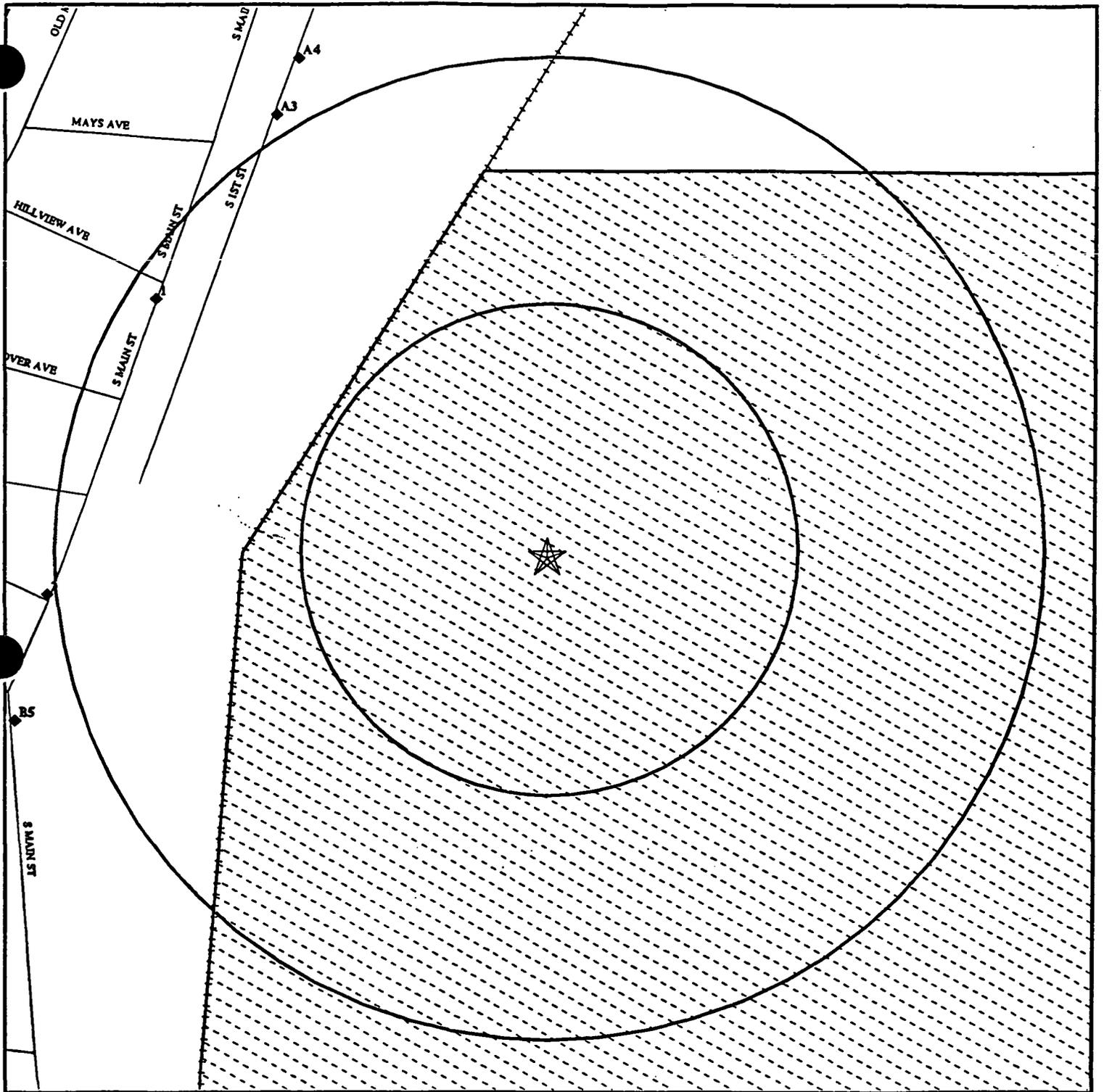


- ⚡ - Power transmission lines (USGS DLG, 1993)
- ⚡ - Oil & Gas pipelines (USGS DLG, 1993)

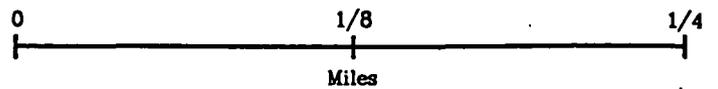
TARGET PROPERTY: US Department of Energy
ADDRESS: Off Mound Rd.
CITY/STATE/ZIP: Miamisburg OH 45432
LAT/LONG: 39.6312 / 84.2884

CUSTOMER: HOK/K Industrial
CONTACT: Shelby R. Politte
INQUIRY #: 100553.1s
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



- ⚡ - Power transmission lines (USGS DLG, 1993)
- ⚡ - Oil & Gas pipelines (USGS DLG, 1993)

TARGET PROPERTY: US Department of Energy
 ADDRESS: Off Mound Rd.
 CITY/STATE/ZIP: Miamisburg OH 45432
 LAT/LONG: 39.6312 / 84.2884

CUSTOMER: HOK/K Industrial
 CONTACT: Shelby R. Polite
 INQUIRY #: 100553.1s
 DATE: December 13, 1995

MAP FINDINGS SUMMARY SHOWING ALL SITES

<u>Database</u>	<u>Target Property</u>	<u>Search Distance (Miles)</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
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**

<u>Database</u>	<u>Target Property</u>	<u>Search Distance (Miles)</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
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 FINDINGS

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
Region

US DOE MOUND PLANT
MOUND RD
MIAMISBURG, OH 45342

PADS
CERCLIS
FINDS
NPL
TRIS
LUST

1000190772
OH6890008984

CERCLIS Classification Data:

Site Incident Category: Not reported
Ownership Status: FEDERALLY OWNED
EPA Notes: Not reported

Federal Facility: YES
NPL Status: CURRENTLY ON THE FINAL NPL

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)

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

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 FINDINGS

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 Response:	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

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

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 Response:	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 Response:	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 FINDINGS

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 FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

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 Respse:	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 FINDINGS

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) 855-2600

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

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

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 Response:	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		

MAP FINDINGS

Map ID
Direction
Distance
Elevation

EDR ID Number
EPA ID Number

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

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		

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL OIL CO. #23420931760 (Continued)

U000894456

Facility ID: 0-570157
Capacity: 10,000
Tank Age: 24
Product: Gasoline
Material: Fiberglass
Piping Material: Fiberglass
Piping Type: Pressure
Remed. Des. Tanks: Not reported
Remed. Des. Piping: Not reported

Tank ID: 3
Tank Status: Curr
Owner Name: SHELL OIL CO.
Owner Address: 7777 WASHINGTON VILLAGE DR
City, State, Zip: DAYTON, OH 45459
Facility Contact: MIKE HORVATH
Telephone: Not reported

Facility ID: 0-570157
Capacity: 1,000
Tank Age: 22
Product: Used Oil
Material: Bare Steel
Piping Material: Bare Steel
Piping Type: Pressure
Remed. Des. Tanks: Not reported
Remed. Des. Piping: Not reported

Tank ID: 4
Tank Status: Curr
Owner Name: SHELL OIL CO.
Owner Address: 7777 WASHINGTON VILLAGE DR
City, State, Zip: DAYTON, OH 45459
Facility Contact: MIKE HORVATH
Telephone: Not reported

11
North
1/2-1
Lower

POINT STORE
155 S MAIN ST
MIAMISBURG, OH 45342

LUST

S100648047
N/A

LUST:

Facility ID: 570738
Report No: 5731824
Facility Tel: -0-
Owner: -0-

Incident ID: 573182400
Facility Track: 0
Responsibility: -0-

-0-
-0-, OH -0-
-0-
Operator: -0-
-0-
-0-, OH -0-
-0-

Inspector: -0-
Fiscal Track: FY93
Facility Status: Reported

Revised Date: -0-
Coordinator: Central Office Closure

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 Response: 2
Vacant: -, -0-

Response By: -0-
County Num: 57
Authorize Date: 09/07/93

Authorized By: GILL
Remarks: -0-
Summary: -0-

Added Date: 09/23/93
Response Srch: -0-

Entry By: UNGER
Priority: 2

D12
NW
1/2-1
Lower

MIAMISBURG WATER TREATMENT PLT
302 S RIVERVIEW
MIAMISBURG, OH 45342

LUST

S101565457
N/A

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site		Database(s)	EDR ID Number EPA ID Number
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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-	
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 Response: 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
 302 S RIVERVIEW AVE
 MIAMISBURG, OH 45342

SHWS

S100037719
 N/A

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 SERVICE	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 PENSKEY-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

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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 CYANIDE NI(CN) ₂
P098	POTASSIUM CYANIDE
P098	POTASSIUM CYANIDE K(CN)
P104	SILVER CYANIDE
P104	SILVER CYANIDE AG(CN)

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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 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 Made Active at EDR: 12/04/95

Date of Data Arrival at EDR: 11/02/95

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 Made Active at EDR: 05/25/95

Date of Data Arrival at EDR: 04/11/95

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 Made Active at EDR: 10/25/95

Date of Data Arrival at EDR: 10/17/95

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 Made Active at EDR: 08/22/95

Date of Data Arrival at EDR: 06/28/95

Elapsed ASTM days: 55

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 Made Active at EDR: 12/05/95

Date of Data Arrival at EDR: 11/06/95

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 Made Active at EDR: 05/16/95

Date of Data Arrival at EDR: 04/24/95

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 Made Active at EDR: 07/27/95

Date of Data Arrival at EDR: 06/26/95

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 Made Active at EDR: 10/10/95

Date of Data Arrival at EDR: 09/18/95

Elapsed ASTM days: 22

STATE OF OHIO NON-ASTM RECORDS:

SPILLS: Included 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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

Environmental Appraisal of the Mound Plant

9.3 BUILDING C

9.3.1 Scope of Building C 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 C on January 24, 1996. The Environmental Appraisal Checklist (EAC) was used to record findings. The EAC is found in Attachment 1 (Section 9.3.6.1). The appraisers were accompanied the manager responsible for the Safe Shutdown of Building C. The building manager was not present during the walk-through. Other information was supplied by the building manager and recorded on the Building Manager's Questionnaire (BMQ), included as Attachment 2 (Section 9.3.6.2).

9.3.2 Description of Building C

Building C is a one-story structure, with a basement, constructed of concrete block with brick face exterior. The roof is a metal built-up membrane of coal tar. Building C was one of the original group of buildings constructed in 1948 and contains 13,403 square feet. The location is shown in Attachment 3 (Section 9.3.6.3). The building is bordered by a sidewalk on all sides. Adjacent buildings are Building A to the north, Building M to the south, Building 40 to the east, and Building H to the west. The building is serviced by central steam for heat and roof air conditioning (*Mound Facility Physical Characterization*, 12-1-93).

The building was originally the old cafeteria and provided that service until 1986. Afterwards the building was used for offices, record storage, engineering project storage, maintenance storage and as an Emergency Shelter. Floor plans are presented as Attachment 4 (Section 9.3.6.4). Currently, the building is empty and in Safe Shutdown. The building is not contaminated with radioactive or energetic materials.

9.3.3 Summary of Findings

Building C has been emptied, shut down and padlocked. Utility services are maintained at a minimum in order to prevent the fire suppression system and water lines from freezing. Future shutdown plans include shutting down the following services in March 1996: the fire suppression system, domestic water, and steam for heating. Electric service will probably remain on, however, all fans, blowers, and motors will be shut off. Projected plans are to demolish and remove the building, but no time schedule has been established. Safe Shutdown radiation surveys have been completed on Building C and all surveys indicate no contamination exists within the building. One issue of environmental concern was identified during the walk-through and during the review of reference materials.

Environmental Appraisal of the Mound Plant

9.3.4 Observations

9.3.4.1 Air Emissions

No air emissions permit application has been submitted to the Regional Air Pollution Control Agency (RAPCA). No sources of air emissions are listed in Mound's air emission inventory database or observed during the walk-through. There are no fuel-burning units in the building. There was no visual evidence of fugitive dust.

9.3.4.2 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.

9.3.4.2.1 Sanitary Wastewater

The building has sanitary services. According to a diagram of underground utility lines, presented as Attachment 5 (Section 9.3.6.5), the building is serviced by a sanitary line. It should be noted that, according to drawings, there is an abandoned segment of sanitary line that runs beneath the building. The confirmation of drainage of sanitary waste into sanitary conveyance lines was not within the scope of this effort, therefore, neither dye tests nor smoke tests were conducted. There are no sinks or toilets in the building. Floor drains on both the first floor and in the basement appear to discharge to the sanitary sewer. According to the building manager, the sump pump in the basement discharges to the sanitary sewer. The sump was active at the time of the inspection and it appears to be a concrete pit. Water entering the sump is probably associated with drainage from around the building. The sump is not listed in the Active Underground Storage Tank (UST) Plan. There is no monitoring of building effluent. Based on current operations identified by the process owner, effluent from Building C should not deviate from that expected by the sanitary treatment plant manager.

9.3.4.2.2 Storm Wastewater

The building is also serviced by storm drains according to Attachment 5 (Section 9.3.6.5). In particular, roof drains discharge to the storm drains. Exterior grates and drains were not tested

Environmental Appraisal of the Mound Plant

to confirm that they connect to the storm drainage system. Inspection showed no sign of odors, colored discharges, or scarring which would indicate that any materials other than storm water have entered the storm drainage system.

9.3.4.2.3 Process Wastewater

This building does not create or discharge radioactive wastewater to the WD facility. According to Attachment 5 (Section 9.3.6.5), no radioactive wastewater lines service Building C.

9.3.4.2.4 Chemicals

There are no chemicals stored in the building. Pesticides and herbicides have been sprayed in or around the building. At the time of the inspection, a lingering odor of a pesticide was noticeable in the basement. Although the floor drains are open, there was no visual evidence that chemicals have entered the storm or sanitary system. There have been no reported spills from Building C and none would be expected since it is empty and padlocked.

9.3.4.3 Potable and Service Water

Potable water is supplied to the building although there are no fountains or sinks in the building. Backflow prevention devices are installed at all visible points of potential cross-connections. Potable and service water lines are properly marked and easily identified.

9.3.4.4 Chemical Storage and Hazardous Materials

There are no chemicals or hazardous materials stored in the building. All entrances to Building C are secured by padlock to ensure this condition. Only Halon 1211 wall mounted fire extinguishers are in the building as part of its fire protection. There is an Emergency Evacuation Plan and signs remain posted in the building.

There are no aboveground or underground storage tanks associated with this building. There are no separators or catch basins in or around the building.

The building was tested and does contain asbestos-containing building material (MD-10391, *Asbestos Program Manual*, 9-14-95). There is no visual evidence of friable asbestos. The areas which contain asbestos materials were identified and signs are posted indicating the presence of asbestos.

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

9.3.4.5 Solid, Hazardous, and Radioactive Wastes

No waste, solid or hazardous, is generated in the building. There are no drums of waste in or around the building.

Environmental Appraisal of the Mound Plant

9.3.4.6 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.

The building has undergone Safe Shutdown, waste minimization and pollution prevention activities are not applicable to an empty building. A cost savings will be incurred by not having to heat the building when the utilities are shutdown.

As a pollution prevention measure, oil was drained from a compressor and the hydraulic pump for the elevator. The air conditioner on the roof and the antiquated refrigeration equipment in the basement were drained of Freon.

9.3.5 Findings and Recommendations

Photographs were taken to document the environmental appraisal. They are included as Attachment 6 (Section 9.3.6.6). The environmental appraisal of Building C indicates that the following action items, in priority order, should be planned and scheduled for accomplishment thus assuring that best management and operating practices are in place.

- C-1. There is no inventory of sumps at Mound. This sump should be included in a site inventory, and it should be routinely inspected.
- C-2. Power to the sump should be maintained to ensure that the basement remains dry. If the basement should flood, the water could possibly be contaminated with asbestos fibers. The sump should be checked periodically to ensure that the basement remains dry.

Appendix 7.6 Radiological and Other Survey Reports

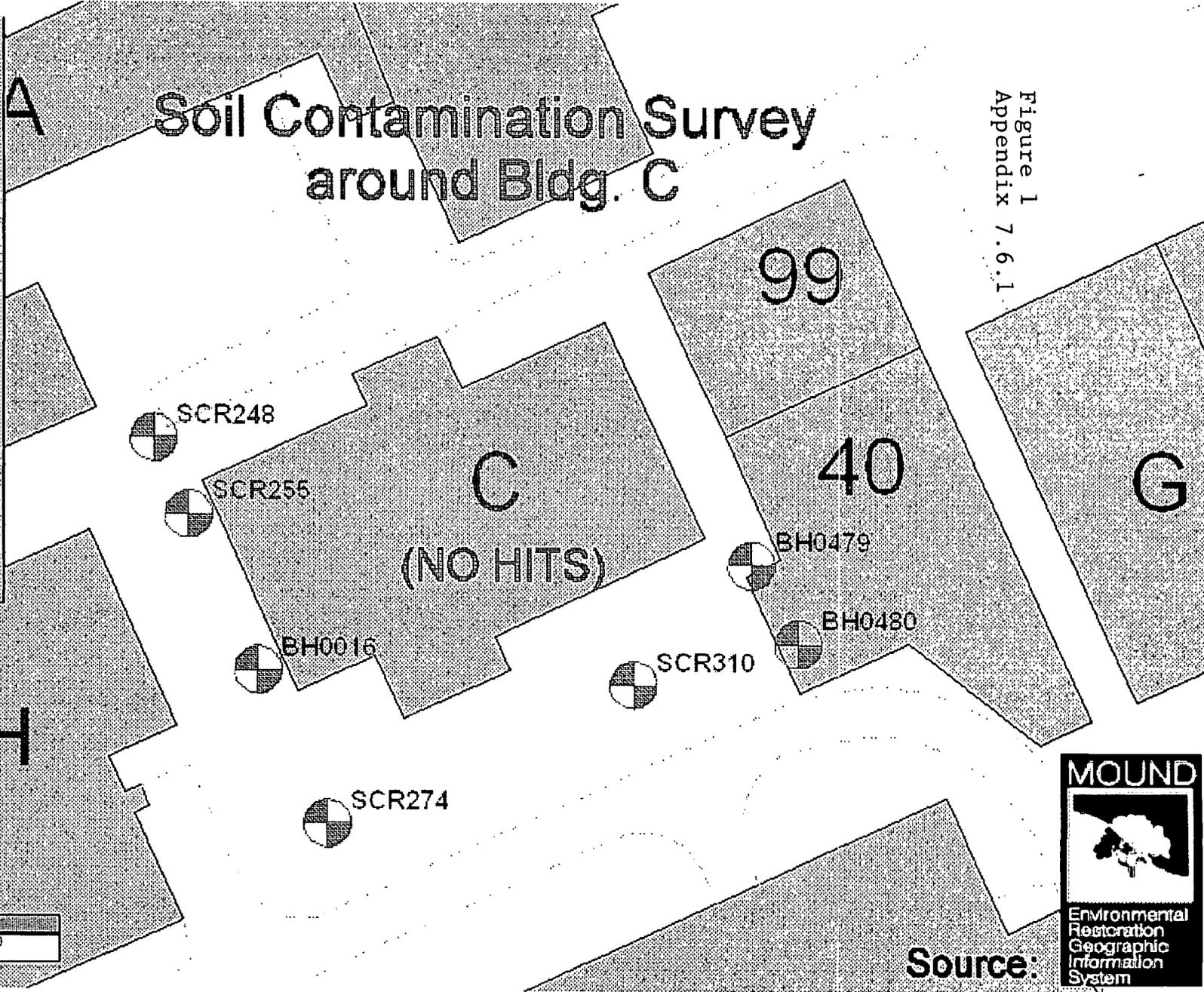
Appendix 7.6.1 Radiological

Soil Contamination Survey around Bldg. C

Figure 1
Appendix 7.6.1

Legend

- Highlight
- RedLine
- Default
- Soil Sample Label
- Soil Sample
- Site Boundary - Current
- Primary Roads
- Paved Drives_parking
- River
- Pond
- Creek_Stream
- Building Label
- Building Outline
- Hidden Building Outline
- Building



Source:

**Radiological Characterization
Summary
Building C**

Type	RSDS	Location	Amount (dpm/100 cm ²)	5400.5 Guidelines for Groups 1,3,4 (fixed + loose) (dpm/100 cm ²)	NUREG 1500 Guidelines (loose) (dpm/100 cm ²)	Attachment 1 Limit (fixed + loose) (See Note 2) (dpm/100 cm ²)	Comments
Highest Alpha Smearable Activity	All	All	<20	20	211	20	No Action Necessary
Highest Alpha Fixed Activity	All	All	< 100	100	Note 1	100	No Action Necessary
Highest Beta Smearable Activity	All	All	<1000	1,000	9940	1,000	No Action Necessary
Highest Beta Fixed Activity	All	All	< 5,000	5,000	Note 1	5,000	No Action Necessary
Highest Tritium Smearable Activity	All	All	<1000	1,000	Note 1	1,000	No Action Necessary
Water Sample from sump in basement	14 Oct 97	Sump	7.56 nCi/L Trit 0.03 dpm/cc "	<u>DCG's</u> 1E-3 uCi/L Trit 4 dpm/cc "	Note 1	N/A	No Action Necessary

Note 1 NUREG-1500 gives guidelines for loose beta and alpha only.

Note 2 The limits referenced above is based on MD-80043, Radiological Work Requirements Procedure 400 A Transfer of Radioactive Material and Unrestricted Release of Property/Waste@ Attachment 1.

From: A. Stephen Collas
To: HOODWS
Date: 10/20/97 7:46am
Subject: C bldg report.

Scott,

Here is the summary of the survey data taken from C bldg.

The top floor was surveyed in Nov of '95 after all equipment was removed. The survey was performed in accordance with an approved radiological operations procedure in effect at that time.

The basement was surveyed last week in accordance with the generic guidelines for disposition of buildings.

A water sample was taken from the sump with results included in the summary.

VR/Steve

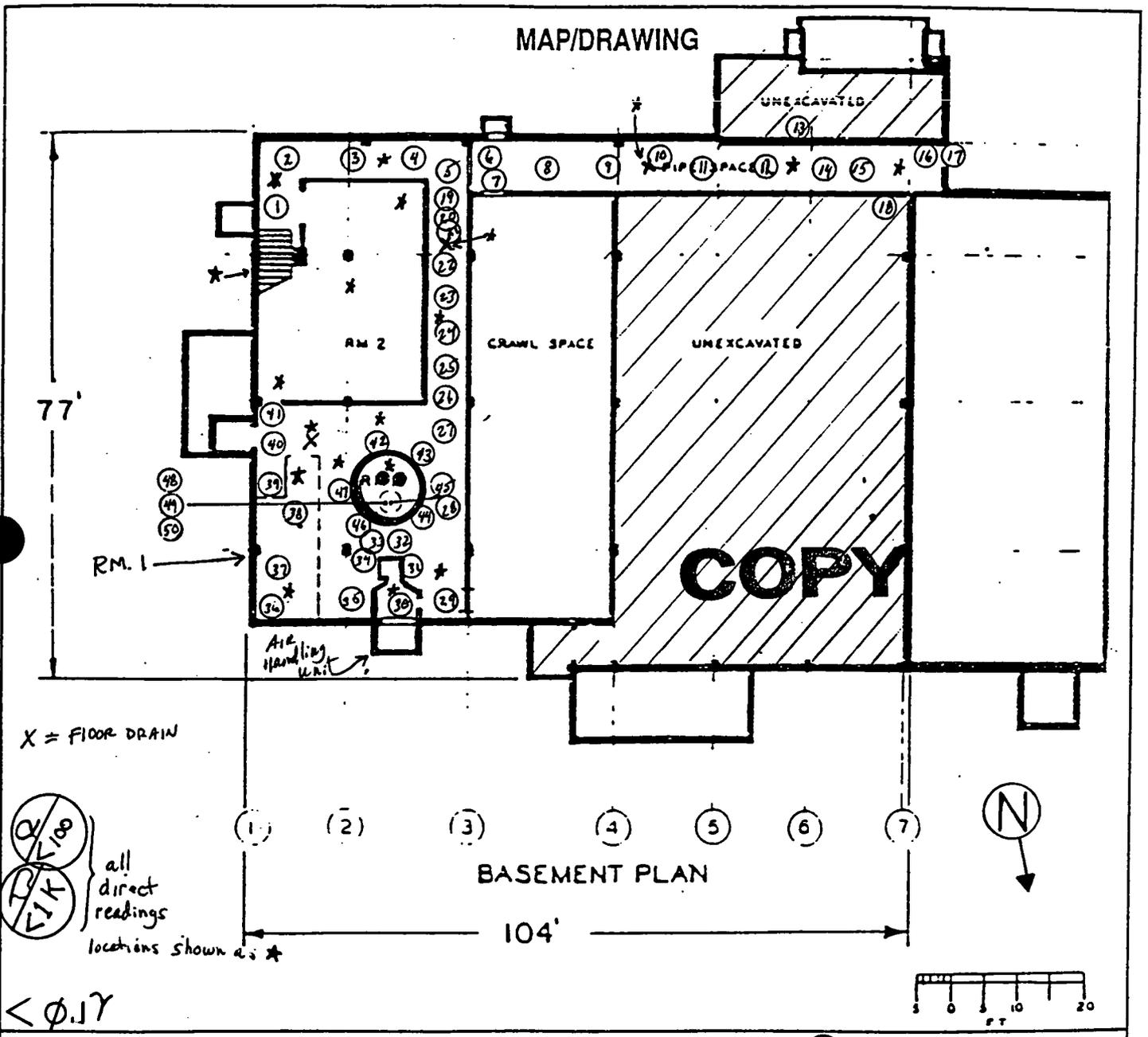
CC: NICHJW, DOE_OH.MOUND.Spesard Alan

D1/D50

RADIOLOGICAL SURVEY DATA SHEET

LOCATION: (BLDG/AREA/ROOM)	C BUILDING BASEMENT	SURVEY NO.	97-C-0002-MHR
PURPOSE:	CONFIRMATORY SURVEY	RWP NO.	N/A
		DATE:	OCT 14 1997
		TIME:	1500

MAP/DRAWING



X = FLOOR DRAW

α/β
 β/α

all direct readings
locations shown as *

< ϕ γ

LEGEND: # = mrem/hr (γ) whole body
 # E = mrem/hr ($\beta + \eta + \gamma$) extremity on contact

\triangle # = mrem/hr neutron
 \square # = air sample number

= swipe number
 #/ α or #/ β = direct cont. measurement in dpm/100cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
NElectronics 30/DP-6	5264/5277	10-29-97
RO-20 EBELINE	3746	12-06-97

	5891	Date: OCT 14 1997
	5379	Date: 10-15-97
		Date:

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Charge Authorization No. _____

<input checked="" type="checkbox"/> Removable Contamination <input type="checkbox"/> Airborne Activity (check one)				
Swipes (dpm/100cm ²) or Airborne (μCi/cc)				
Sample #	β/γ	Alpha	Tritium	Comments
01	See	Attached	Sheets	FLOOR
02				↓
03				
04				
05				
06				↓
07				Crawlspace door
08				FLOOR
09				FLOOR DIRECT READING DRAIN 92 160 P
10				FLOOR DIRECT READING DRAIN 92 160 P
11				FLOOR
12				FLOOR
13				PIPECHASE
14				FLOOR
15				↓
16				
17				pipe chase
18				pipe chase
19				FLOOR
20				FLOOR
21				FLOOR DRAIN 92 DIRECT READING 85 P
22				FLOOR
23				↓
24				
25				
26				
27				
28				
29				↓
30				(INSIDE) PLENUM of AIR HANDLING UNIT

<input checked="" type="checkbox"/> Removable Contamination <input type="checkbox"/> Airborne Activity (check one)				
Swipes (dpm/100cm ²) or Airborne (μCi/cc)				
Sample #	β/γ	Alpha	Tritium	Comments
31	See	Attached	Sheets	FLOOR
32				↓
33				
34				
35				
36				
37				
38				
39				
40				
41				↓
42				Sump
43				Sump
44				Sump
45				Sump cover
46				Sump
47				Sump
48				INSump
49				INSump
50				IN Sump
51	No Further Entries this page			
52				
53				
54				
55				
56				
57				
58				
59				
60				

COPY

COMMENTS:
 9707638 H₂O Sample Lab ID# results on page 7 of 7

Max. Activity on Large Area Wipe (dpm)	Tritium Airborne Activity (μCi/m ³)
N/A	N/A

- NOTES:
- LSC results #1 corresponds to Sample #1 on this RSDS. *435891*
 - See MD-80036 10002 for calculations of WB, extremity and skin dose rates *14 OCT 97*
 - To request RO Count Room analysis for β/γ, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.
 - Annotate special sample type (e.g. soil, water), special identifiers or other info in Comments. If not needed, mark N/A.

Smear Analysis

Unit Type: LB4100/W
 Counting Unit ID: Aqua
 Data file name: SMEAR011
 Batch Ended: 10/15/97 8:29

Alpha activity action level (DPM): 20
 Beta activity action level (DPM): 200

Certainty level for MDA and flags: 95%

Crosstalk correction performed.

Batch ID: T 97-C-0002-MHR BECKER [50] 10-15-97 TAS

Recalibration Date: 8/20/98
 Serial Number: 26966-1

Detector ID	Sample ID
A1	1
A2	2
A3	3
A4	4
B1	5
B2	6
B3	7
B4	8
C1	9
C2	10
C3	11
C4	12
D1	13
D2	14
D3	15
D4	16
A1	17
A2	18
A3	19
A4	20
B1	21
B2	22
B3	23
B4	24
C1	25
C2	26
C3	27
C4	28
D1	29
D2	30
D3	31
D4	32
A1	33

COPY

Alpha Activity		
DPM	σ	flags
0.00	2.15	<MDA
0.00	2.11	<MDA
0.00	2.01	<MDA
3.53	2.74	<AL
1.88	2.04	<AL
0.00	2.03	<MDA
0.00	1.97	<MDA
0.00	1.91	<MDA
0.00	2.12	<MDA
0.00	2.18	<MDA
1.70	1.99	<AL
0.00	1.95	<MDA
4.02	2.99	<AL
0.00	2.08	<MDA
1.74	1.94	<AL
0.00	1.93	<MDA
1.73	2.15	<AL
1.90	2.12	<AL
0.00	2.01	<MDA
1.60	1.96	<AL
1.87	2.08	<AL
0.00	2.03	<MDA
0.00	1.98	<MDA
0.00	1.87	<MDA
1.91	2.14	<AL
0.00	2.18	<MDA
0.00	2.00	<MDA
0.00	1.98	<MDA
0.00	2.12	<MDA
1.84	2.08	<AL
0.00	1.95	<MDA
0.00	1.90	<MDA
1.73	2.14	<AL

W3 ✓

Beta Activity		
DPM	σ	flags
0.57	2.27	<MDA
0.00	1.32	<MDA
0.00	1.23	<MDA
0.00	1.71	<MDA
0.96	2.15	<MDA
1.02	2.14	<MDA
3.70	2.62	<AL
5.78	3.06	<AL
0.00	1.83	<MDA
0.00	1.86	<MDA
0.21	1.69	<MDA
0.00	1.21	<MDA
0.94	2.14	<MDA
0.57	2.05	<MDA
0.10	1.62	<MDA
2.73	2.61	<MDA
0.42	2.27	<MDA
0.00	1.85	<MDA
0.00	1.24	<MDA
3.32	2.69	<AL
4.67	3.04	<AL
1.02	2.14	<MDA
4.87	2.88	<AL
1.18	2.00	<MDA
1.07	2.23	<MDA
0.00	1.86	<MDA
1.55	2.07	<MDA
3.63	2.67	<AL
0.02	1.75	<MDA
0.39	2.05	<MDA
1.40	1.98	<MDA
0.00	1.66	<MDA
0.00	1.86	<MDA

W3 ✓

W3 ✓

Smear Analysis

Unit Type: LB4100/W
 Counting Unit ID: Aqua
 Data file name: SMEAR011
 Batch Ended: 10/15/97 8:29

Alpha activity action level (DPM): 20
 Beta activity action level (DPM): 200

Certainty level for MDA and flags: 95%

Crosstalk correction performed.

Batch ID: T 97-C-0002-MHR BECKER [50] 10-15-97 TAS

Recalibration Date: 8/20/98
 Serial Number: 26966-1

Detector ID	Sample ID
A2	34
A3	35
A4	36
B1	37
B2	38
B3	39
B4	40
C1	41
C2	42
C3	43
C4	44
D1	45
D2	46
D3	47
D4	48
A1	49
A2	50

Alpha Activity		
DPM	σ	flags
0.00	2.13	<MDA
0.00	2.03	<MDA
0.00	1.95	<MDA
0.00	2.03	<MDA
0.00	2.01	<MDA
0.00	1.93	<MDA
0.00	1.87	<MDA
1.91	2.12	<AL
0.00	2.17	<MDA
0.00	1.98	<MDA
0.00	1.96	<MDA
0.00	2.12	<MDA
0.00	2.07	<MDA
0.00	1.95	<MDA
0.00	1.96	<MDA
0.00	2.16	<MDA
0.00	2.14	<MDA

WB ✓

Beta Activity		
DPM	σ	flags
1.16	2.26	<MDA
1.63	2.12	<MDA
1.04	2.08	<MDA
0.00	1.76	<MDA
0.00	1.75	<MDA
0.19	1.66	<MDA
1.18	2.00	<MDA
0.00	1.83	<MDA
0.00	1.32	<MDA
0.00	1.20	<MDA
0.06	1.70	<MDA
0.02	1.75	<MDA
0.00	1.46	<MDA
1.40	1.98	<MDA
6.22	3.31	<AL
1.87	2.61	<MDA
2.46	2.61	<MDA

WB ✓

COPY

pg 4 of 7

Protocol #: 3

PW H3 403728

User : 3950

Time: 2.00

Data Mode: DPM

Nuclide: SMVIAL

Quench Set: SMVIAL

Background Subtract: 1st Vial

R99
pg 5 of 7

	LL	UL	LCR	25%	BKG
Region A:	0.5 - 18.6		0	0.0	7.90
Region B:	2.0 - 18.6		0	0.0	7.80
Region C:	20.0 - 2000		0	0.0	13.50

Quench Indicator: tSIE/AEC

Ext Std Terminator: Count

T 97-C-0002-MHR BARRER [D1-D50] JM

Luminescence Correction On

Coincidence Time(ns): 18

Delay Before Burst(ns): Normal

Protocol Data Filename: c:\data\PROT3.DAT

Count Data Filename: c:\data\SDATA3.DAT

Spectrum Data Drive & Path: c:\data

The first value listed is background (7.90). The second number is a lab standard (472.60). The remaining data are sample results. Organization of results in this way is standard count room practice.

S#	TIME	CPMA	LUM	FLAG	tSIE	DPM1	2Sigma	CPMC
-1	10.00	7.90	3	B	648.73		0.00	13.50
0	2.00	472.60	0		622.45	936.20	83.30	1.00
1	2.00	5.10	0		549.52	10.79	11.44	0.00
2	2.00	2.60	0		526.49	5.70	10.78	0.00
3	2.00	0.10	0		495.91	0.23	9.87	1.50
4	2.00	1.10	0		547.92	2.33	9.75	0.00
5	2.00	2.10	0		497.62	4.73	10.84	3.00
6	2.00	0.00	0		518.00	0.00	0.00	0.00
7	2.00	5.10	0		434.10	12.22	12.96	0.00
8	2.00	2.10	0		566.72	4.34	9.95	0.50
9	2.00	1.60	0		492.97	3.62	10.65	0.00
10	2.00	0.00	0		399.35	0.00	0.00	0.00
11	2.00	2.60	0		606.95	5.18	9.81	0.00
12	2.00	0.00	0		524.07	0.00	0.00	0.00
13	2.00	0.10	0		447.22	0.24	10.34	0.00
14	2.00	3.60	0		471.05	8.31	11.82	0.00
15	2.00	1.60	0		549.53	3.38	9.96	0.00
16	2.00	0.00	0		529.53	0.00	0.00	0.00
17	2.00	0.00	0		521.62	0.00	0.00	0.00
18	2.00	0.00	0		567.78	0.00	0.00	0.00
19	2.00	0.00	0		495.21	0.00	0.00	0.00
20	2.00	0.10	0		509.65	0.22	9.74	0.50
21	2.00	0.10	0		462.19	0.23	10.19	0.00
22	2.00	0.00	0		452.45	0.00	0.00	0.00
23	2.00	2.60	0		479.19	5.96	11.26	0.50
24	2.00	0.00	0		534.14	0.00	0.00	0.00
25	2.00	0.00	0		565.43	0.00	0.00	0.00
26	2.00	0.00	0		562.29	0.00	0.00	1.50
27	2.00	0.00	0		534.25	0.00	0.00	0.00
28	2.00	1.60	0		521.35	3.52	10.37	0.00
29	2.00	0.00	0		504.55	0.00	0.00	0.00
30	2.00	0.00	0		493.87	0.00	0.00	4.00
31	2.00	0.00	0		528.49	0.00	0.00	0.00
32	2.00	0.00	0		516.42	0.00	0.00	0.00
33	2.00	0.10	0		558.13	0.21	9.13	0.00
34	2.00	0.00	0		540.28	0.00	0.00	0.50

COPY

WB ✓

S#	TIME	CPMA	LUM FLAG	tSIE	DFM1	2Sigma	CPMC
35	2.00	0.00	0	513.33	0.00	0.00	0.00
36	2.00	0.00	0	504.83	0.00	0.00	0.00
37	2.00	0.00	0	522.15	0.00	0.00	0.00
38	2.00	0.00	0	541.63	0.00	0.00	1.50
39	2.00	0.00	0	512.28	0.00	0.00	0.00
40	2.00	0.00	0	492.66	0.00	0.00	0.00
41	2.00	0.10	0	498.28	0.22	9.85	0.00
42	2.00	0.00	0	528.21	0.00	0.00	0.00
43	2.00	0.00	0	407.01	0.00	0.00	1.00
44	2.00	0.00	0	540.91	0.00	0.00	3.00
45	2.00	0.00	0	459.81	0.00	0.00	2.00
46	2.00	0.00	0	495.26	0.00	0.00	1.50
47	2.00	0.00	0	530.51	0.00	0.00	3.50
48	2.00	0.00	0	513.15	0.00	0.00	0.00
49	2.00	0.00	0	397.36	0.00	0.00	0.00
50	2.00	0.00	0	418.89	0.00	0.00	0.00

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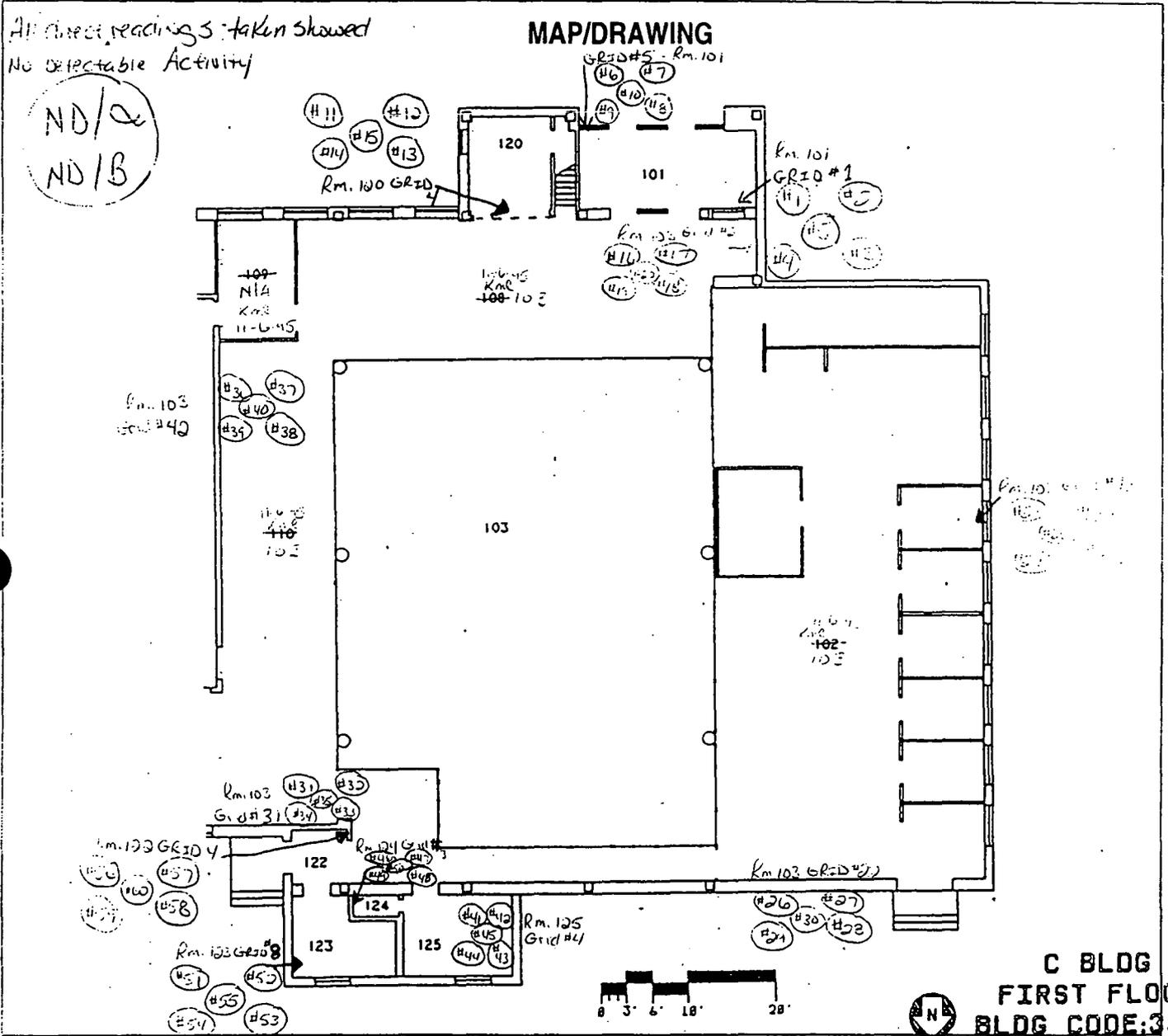
WBV

COPY

RADIOLOGICAL SURVEY DATA SHEET

K1-K66

LOCATION: (BLDG./AREA/ROOM)	C-bldg Rm. 101, 120, 103, 122, 123, 124 + 125	SURVEY NO.	C-144-95
PURPOSE:	walls only	RWP NO.	N/A
		DATE:	11/6/95
	Final Status Survey (SAFE SHUTDOWN)	TIME:	0845-1545



LEGEND: # = mrem/hr (γ) whole body
 # E = mrem/hr ($\beta + \eta + \gamma$) extremity on contact
 # = mrem/hr neutron
 # = air sample number
 # = swipe number
 #/a or β = direct cont. measurement in dpm/100cm²

INSTRUMENTS USED		
Instrument	Serial Number	Cal. Due Date
308/5784	671	4/18/96
3410	30747	11/16/95

Completed by: (Signature/HP#)	Date:
Kelly M Ramsey	11/6/95
Counted by: (Signature/HP#)	Date:
[Redacted]	11-7-95
[Redacted] 5737	Date:
[Redacted] Signature/HP#	11/05/95
[Redacted] 5781	

ML-9620 (10-95) Unit #4, Group F

HPCL # 5 Pm 1 # 1

Health Physics Counting Lab -- Wipe Analysis

Date: 11/7/95
 Counting Unit id: 4
 Data file name: C:\LBXL\UNIT4\WIP4F001.XLD
 Batch Ended: 11/7/95 12:45
 Crosstalk Correction: Applied

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

Batch ID: RAYNEY SUR #C-144-95 (60)/BKS

Carrier	Sample	Alpha Activity			Beta Activity			Count time (min)	Completion Date - Time
		DPM	σ	flags	DPM	σ	flags		
74	1	0.000	2.04	<MDA	5.18	4.24	<AL	1.50	11/7/95 10:48
122	2	0.000	2.02	<MDA	0.00	2.67	<MDA	1.50	11/7/95 10:50
7	3	1.839	2.03	<AL	1.23	3.28	<MDA	1.50	11/7/95 10:52
61	4	0.000	2.02	<MDA	0.00	2.67	<MDA	1.50	11/7/95 10:54
56	5	0.000	2.02	<MDA	0.00	2.67	<MDA	1.50	11/7/95 10:56
20	6	0.000	2.02	<MDA	0.00	2.67	<MDA	1.50	11/7/95 10:58
40	7	0.000	2.01	<MDA	0.00	1.90	<MDA	1.50	11/7/95 11:00
77	8	0.000	2.05	<MDA	7.07	4.64	<AL	1.50	11/7/95 11:02
27	9	0.000	2.01	<MDA	0.00	1.90	<MDA	1.50	11/7/95 11:04
113	10	0.000	2.01	<MDA	0.00	1.90	<MDA	1.50	11/7/95 11:06
53	11	0.000	2.03	<MDA	3.29	3.78	<MDA	1.50	11/7/95 11:08
25	12	0.000	2.02	<MDA	0.00	2.67	<MDA	1.50	11/7/95 11:10
48	13	0.000	2.01	<MDA	0.00	1.90	<MDA	1.50	11/7/95 11:12
52	14	0.000	2.01	<MDA	0.00	1.90	<MDA	1.50	11/7/95 11:14
6	15	1.839	2.03	<AL	1.23	3.28	<MDA	1.50	11/7/95 11:16
74	16	1.869	2.02	<AL	0.00	2.67	<MDA	1.50	11/7/95 11:18
72	17	1.898	2.01	<AL	0.00	1.90	<MDA	1.50	11/7/95 11:20
70	18	0.000	2.01	<MDA	0.00	1.90	<MDA	1.50	11/7/95 11:22
109	19	0.000	2.01	<MDA	0.00	1.90	<MDA	1.50	11/7/95 11:24
40	20	0.000	2.03	<MDA	3.29	3.78	<MDA	1.50	11/7/95 11:26
78	21	1.780	2.04	<AL	5.00	4.23	<AL	1.50	11/7/95 11:28
39	22	0.000	2.01	<MDA	0.00	1.90	<MDA	1.50	11/7/95 11:30
69	23	13.791	5.35	At AL	3.95	4.23	<MDA	1.50	11/7/95 11:32
95	24	0.000	2.02	<MDA	0.00	2.67	<MDA	1.50	11/7/95 11:34
82	25	0.000	2.01	<MDA	0.00	1.90	<MDA	1.50	11/7/95 11:36
28	26	3.900	2.84	<AL	0.00	1.90	<MDA	1.50	11/7/95 11:38
12	27	0.000	2.04	<MDA	5.18	4.24	<AL	1.50	11/7/95 11:40
62	28	0.000	2.01	<MDA	0.00	1.90	<MDA	1.50	11/7/95 11:42
64	29	0.000	2.01	<MDA	0.00	1.90	<MDA	1.50	11/7/95 11:44

Health Physics Counting Lab -- Wipe Analysis

Date: 11/7/95
 Counting Unit id: 4 Alpha activity action level (DPM): 20.00
 Data file name: C:\LBXL\UNIT4\WIP4F001.XLD Beta activity action level (DPM): 200.00
 Batch Ended: 11/7/95 12:45
 Crosstalk Correction: Applied

Batch ID: RAYNEY SUR #C-144-95 (60)/BKS

Carrier	Sample	Alpha Activity			Beta Activity			Count time (min)	Completion Date - Time
		DPM	σ	flags	DPM	σ	flags		
3	30	0.000	2.02	<MDA	1.40	3.28	<MDA	1.50	11/7/95 11:46
46	31	0.000	2.03	<MDA	3.29	3.78	<MDA	1.50	11/7/95 11:48
45	32	0.000	2.02	<MDA	0.00	2.67	<MDA	1.50	11/7/95 11:50
13	33	0.000	2.02	<MDA	1.40	3.28	<MDA	1.50	11/7/95 11:52
47	34	0.000	2.02	<MDA	1.40	3.28	<MDA	1.50	11/7/95 11:54
30	35	0.000	2.02	<MDA	0.00	2.67	<MDA	1.50	11/7/95 11:56
54	36	0.000	2.01	<MDA	0.00	1.90	<MDA	1.50	11/7/95 11:57
122	37	0.000	2.02	<MDA	0.00	2.67	<MDA	1.50	11/7/95 12:00
32	38	1.898	2.01	<AL	0.00	1.90	<MDA	1.50	11/7/95 12:02
3	39	0.000	2.03	<MDA	3.29	3.78	<MDA	1.50	11/7/95 12:04
14	40	0.000	2.02	<MDA	1.40	3.28	<MDA	1.50	11/7/95 12:05
72	41	0.000	2.02	<MDA	1.40	3.28	<MDA	1.50	11/7/95 12:07
71	42	0.000	2.01	<MDA	0.00	1.90	<MDA	1.50	11/7/95 12:09
32	43	1.869	2.02	<AL	0.00	2.67	<MDA	1.50	11/7/95 12:11
68	44	0.000	2.01	<MDA	0.00	1.90	<MDA	1.50	11/7/95 12:13
11	45	0.000	2.02	<MDA	0.00	2.67	<MDA	1.50	11/7/95 12:15
146	46	1.750	2.05	<AL	6.89	4.64	<AL	1.50	11/7/95 12:17
99	47	0.000	2.02	<MDA	1.40	3.28	<MDA	1.50	11/7/95 12:19
30	48	0.000	2.02	<MDA	0.00	2.67	<MDA	1.50	11/7/95 12:21
63	49	0.000	2.03	<MDA	3.29	3.78	<MDA	1.50	11/7/95 12:23
9	50	0.000	2.03	<MDA	3.29	3.78	<MDA	1.50	11/7/95 12:25
29	51	0.000	2.01	<MDA	0.00	1.90	<MDA	1.50	11/7/95 12:27
35	52	0.000	2.03	<MDA	3.29	3.78	<MDA	1.50	11/7/95 12:29
75	53	0.000	2.03	<MDA	3.29	3.78	<MDA	1.50	11/7/95 12:31
15	54	0.000	2.01	<MDA	0.00	1.90	<MDA	1.50	11/7/95 12:33
49	55	0.000	2.01	<MDA	0.00	1.90	<MDA	1.50	11/7/95 12:35
121	56	0.000	2.02	<MDA	0.00	2.67	<MDA	1.50	11/7/95 12:37
65	57	0.000	2.03	<MDA	3.29	3.78	<MDA	1.50	11/7/95 12:39
80	58	0.000	2.02	<MDA	0.00	2.67	<MDA	1.50	11/7/95 12:41

Health Physics Counting Lab -- Wipe Analysis

Date: 11/7/95
 Counting Unit id: 4
 Data file name: C:\LBXL\UNIT4\WIP4F001.XLD
 Batch Ended: 11/7/95 12:45
 Crosstalk Correction: Applied

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

Batch ID: RAYNEY SUR #C-144-95 (60)/BKS

Carrier	Sample	Alpha Activity			Beta Activity			Count time (min)	Completion Date - Time
		DPM	σ	flags	DPM	σ	flags		
72	59	0.000	2.01	<MDA	0.00	1.90	<MDA	1.50	11/7/95 12:43
14	60	0.000	2.03	<MDA	3.29	3.78	<MDA	1.50	11/7/95 12:45

Protocol #: 1 Name: Pw H3 #401388 08-Nov-95 09:10
 Region A: LL-UL= 0.5-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region B: LL-UL= 2.0-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region C: LL-UL= 0.0- 0.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Time = 2.00 QIP = tSIE/AEC ES Terminator = Count
 WAYNEY C-144-95 [11-6-95] JC

Conventional DFM
 Nuclide 1 = 800
 Luminescence Correction On

S#	TIME	CPMA	CPMB	FLAG	LUM	tSIE	DFM1	2Sigma
1	10.00	10.70	10.10	B	1	690.		0.00
2	2.00	399.80	377.90		1	597.	863.71	128.19
3	2.00	0.00	0.00		0	663.	0.00	0.00
4	2.00	0.00	0.00		0	674.	0.00	0.00
5	2.00	3.30	3.40		4	658.	6.91	12.28
6	2.00	0.00	0.00		0	648.	0.00	0.00
7	2.00	0.00	0.00		6	615.	0.00	0.00
8	2.00	0.00	0.00		14	655.	0.00	0.00
9	2.00	0.30	0.00		0	665.	0.62	10.65
10	2.00	2.80	1.40		4	660.	5.85	12.07
11	2.00	0.00	0.00		20	645.	0.00	0.00
12	2.00	1.30	0.40		4	646.	2.76	11.68
13	2.00	0.00	0.00		9	651.	0.00	0.00
14	2.00	3.30	1.40		4	639.	7.05	12.55
15	2.00	10.30	4.40		2	639.	22.02	15.12
16	2.00	0.00	0.00		0	666.	0.00	0.00
17	2.00	1.30	0.00		4	640.	2.78	11.76
18	2.00	0.00	0.00		0	658.	0.00	0.00
19	2.00	0.00	0.00		5	634.	0.00	0.00
20	2.00	2.80	1.40		4	664.	5.82	12.02
21	2.00	0.00	0.00		8	642.	0.00	0.00
22	2.00	0.00	0.00		0	653.	0.00	0.00
23	2.00	0.30	1.40		9	660.	0.63	11.87
24	2.00	0.00	0.00		0	661.	0.00	0.00
25	2.00	0.00	0.00		0	660.	0.00	0.00
26	2.00	0.00	0.00		0	640.	0.00	0.00
27	2.00	0.80	1.40		0	662.	1.67	10.89
28	2.00	0.30	0.40		9	662.	0.63	11.47
29	2.00	6.80	3.40		0	671.	14.03	13.05
30	2.00	0.00	0.00		0	663.	0.00	0.00
31	2.00	0.00	0.00		7	650.	0.00	0.00
32	2.00	4.80	4.40		0	656.	10.07	12.53
33	2.00	0.00	0.00		0	543.	0.00	0.00
34	2.00	0.00	0.00		8	576.	0.00	0.00
35	2.00	1.30	1.40		0	654.	2.73	11.19
36	2.00	0.00	0.00		0	631.	0.00	0.00
37	2.00	7.30	3.90		0	662.	15.22	13.37
38	2.00	9.80	8.40		5	677.	20.09	14.60
39	2.00	4.80	3.40		7	651.	10.13	13.28
40	2.00	5.30	4.40		3	632.	11.42	13.41
41	2.00	0.30	0.90		9	632.	0.65	11.86
42	2.00	0.00	0.00		0	647.	0.00	0.00
43	2.00	0.00	0.00		14	669.	0.00	0.00
44	2.00	0.30	0.00		0	677.	0.61	10.51
45	2.00	0.00	0.00		6	666.	0.00	0.00
46	2.00	0.00	0.00		7	667.	0.00	0.00

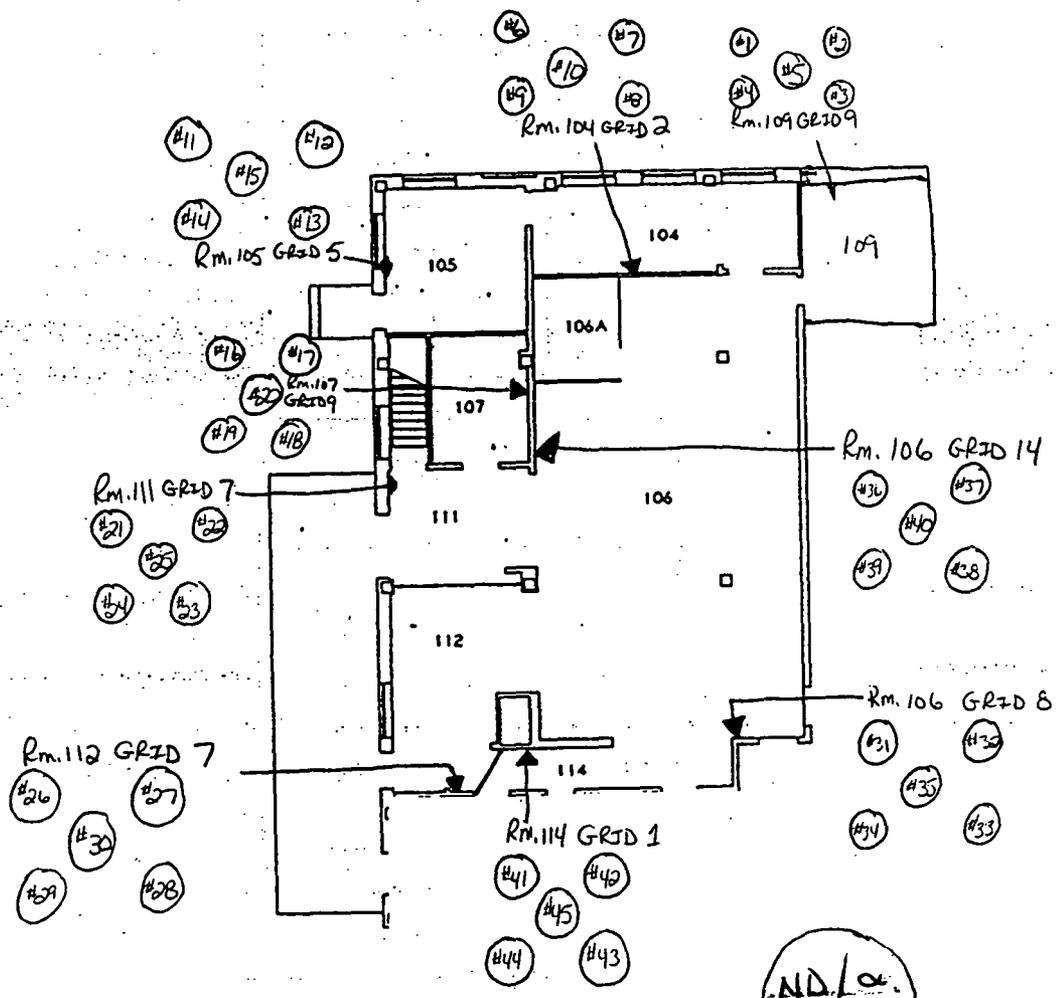
S#	TIME	CPMA	CPMB	FLAG	LUM	tSIE	DFM1	2Sigma
47	2.00	0.00	0.00		0	675.	0.00	0.00
48	2.00	0.00	0.00		0	660.	0.00	0.00
49	2.00	0.00	0.00		7	642.	0.00	0.00
50	2.00	0.00	0.00		0	678.	0.00	0.00
51	2.00	0.00	0.00		10	660.	0.00	0.00
52	2.00	0.00	0.00		0	657.	0.00	0.00
53	2.00	0.00	0.00		0	666.	0.00	0.00
54	2.00	0.00	0.00		0	672.	0.00	0.00
55	2.00	0.00	0.00		16	691.	0.00	0.00
56	2.00	1.80	1.40		4	677.	3.69	11.47
57	2.00	6.30	3.90		0	661.	13.15	13.01
58	2.00	5.30	1.90		3	664.	11.02	12.94
59	2.00	1.80	0.00		4	638.	3.85	11.98
60	2.00	0.00	0.00		22	669.	0.00	0.00
61	2.00	0.00	0.00		0	672.	0.00	0.00
62	2.00	0.00	0.00		11	662.	0.00	0.00

VI-V45

RADIOLOGICAL SURVEY DATA SHEET

LOCATION: (BLDG/AREA/ROOM)	C-hlds. Rms 109, 104, 105, 107, 111, 112, 106 + 114	SURVEY NO.	C-153-95
PURPOSE:	Final Status Survey (SAFE-shutdown)	RWP NO.	N/A
		DATE:	11/7/95
		TIME:	0730-1545

MAP/DRAWING



All direct readings taken & shown as detectable activity

LEGEND: # = mrem/hr (γ) whole body # = mrem/hr neutron # = swipe number
 # E = mrem/hr (β+γ) extremity on contact # = air sample number #/α or #/β = direct cont. measurement in dpm/100cm²

INSTRUMENTS USED		
Instrument	Serial Number	Cal. Due Date
3440	36747	11/16/95
5268/5284	671	4/18/96

Completed by: (Signature/HP#)	Date:
Kelly M. Rayney	11/7/95
Counted by: (Signature/HP#)	Date:
[Redacted]	11-8-95
Counted by: (Signature/HP#)	Date:
[Redacted]	11/15/95

Unit 1 Group J HPCL # 6 Prot # 3

Health Physics Counting Lab -- Wipe / Air Filter Analysis

Date: 11/8/95
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\WIP1J001.XLD
 Batch Ended: 11/8/95 7:24
 Crosstalk Correction: Applied
 Alpha activity action level (DPM): 20.00
 Beta activity action level (DPM): 200.00

Batch ID: RAYNEY C-153-95 [11-7-95] JC

Carrier	Sample	Alpha Activity			Beta Activity			Count time (min)	Completion Date - Time
		DPM	σ	flags	DPM	σ	flags		
56	1	1.663	2.10	<AL	0.00	2.42	<MDA	1.50	11/8/95 5:58
126	2	1.583	2.13	<MDA	2.65	3.42	<MDA	1.50	11/8/95 6:00
106	3	0.000	2.10	<MDA	0.00	2.42	<MDA	1.50	11/8/95 6:02
91	4	0.000	2.15	<MDA	4.61	3.83	<AL	1.50	11/8/95 6:04
105	5	0.000	2.10	<MDA	0.00	2.42	<MDA	1.50	11/8/95 6:06
64	6	0.000	2.13	<MDA	2.91	3.42	<MDA	1.50	11/8/95 6:08
53	7	0.000	2.10	<MDA	0.00	2.42	<MDA	1.50	11/8/95 6:10
7	8	0.000	2.13	<MDA	2.91	3.42	<MDA	1.50	11/8/95 6:11
107	9	0.000	2.08	<MDA	0.00	1.72	<MDA	1.50	11/8/95 6:13
126	10	0.000	2.15	<MDA	4.61	3.83	<AL	1.50	11/8/95 6:15
72	11	0.000	2.15	<MDA	4.61	3.83	<AL	1.50	11/8/95 6:17
93	12	0.000	2.10	<MDA	0.00	2.42	<MDA	1.50	11/8/95 6:19
43	13	0.000	2.08	<MDA	0.00	1.72	<MDA	1.50	11/8/95 6:21
128	14	1.623	2.12	<MDA	0.94	2.96	<MDA	1.50	11/8/95 6:23
36	15	0.000	2.08	<MDA	0.00	1.72	<MDA	1.50	11/8/95 6:25
60	16	0.000	2.08	<MDA	0.00	1.72	<MDA	1.50	11/8/95 6:27
47	17	0.000	2.10	<MDA	0.00	2.42	<MDA	1.50	11/8/95 6:29
55	18	0.000	2.08	<MDA	0.00	1.72	<MDA	1.50	11/8/95 6:31
90	19	0.000	2.08	<MDA	0.00	1.72	<MDA	1.50	11/8/95 6:33
149	20	0.000	2.13	<MDA	2.91	3.42	<MDA	1.50	11/8/95 6:35
10	21	0.000	2.10	<MDA	0.00	2.42	<MDA	1.50	11/8/95 6:37
28	22	0.000	2.13	<MDA	2.91	3.42	<MDA	1.50	11/8/95 6:39
77	23	0.000	2.10	<MDA	0.00	2.42	<MDA	1.50	11/8/95 6:41
99	24	0.000	2.10	<MDA	0.00	2.42	<MDA	1.50	11/8/95 6:43
63	25	0.000	2.11	<MDA	1.20	2.96	<MDA	1.50	11/8/95 6:45
46	26	0.000	2.13	<MDA	2.91	3.42	<MDA	1.50	11/8/95 6:47
83	27	0.000	2.08	<MDA	0.00	1.72	<MDA	1.50	11/8/95 6:49
47	28	1.583	2.13	<MDA	2.65	3.42	<MDA	1.50	11/8/95 6:51
17	29	1.583	2.13	<MDA	2.65	3.42	<MDA	1.50	11/8/95 6:53

Health Physics Counting Lab – Wipe / Air Filter Analysis

Date: 11/8/95
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\WIP1J001.XLD
 Batch Ended: 11/8/95 7:24
 Crosstalk Correction: Applied

Alpha activity action level (DPM): 20.00

Beta activity action level (DPM): 200.00

Batch ID: RAYNEY C-153-95 [11-7-95] JC

Carrier	Sample	Alpha Activity			Beta Activity			Count time (min)	Completion Date - Time
		DPM	σ	flags	DPM	σ	flags		
94	30	0.000	2.10	<MDA	0.00	2.42	<MDA	1.50	11/8/95 6:55
57	31	1.583	2.13	<MDA	2.65	3.42	<MDA	1.50	11/8/95 6:57
53	32	0.000	2.11	<MDA	1.20	2.96	<MDA	1.50	11/8/95 6:59
27	33	0.000	2.10	<MDA	0.00	2.42	<MDA	1.50	11/8/95 7:01
16	34	0.000	2.11	<MDA	1.20	2.96	<MDA	1.50	11/8/95 7:03
132	35	0.000	2.08	<MDA	0.00	1.72	<MDA	1.50	11/8/95 7:05
19	36	0.000	2.08	<MDA	0.00	1.72	<MDA	1.50	11/8/95 7:07
130	37	0.000	2.08	<MDA	0.00	1.72	<MDA	1.50	11/8/95 7:09
44	38	1.663	2.10	<AL	0.00	2.42	<MDA	1.50	11/8/95 7:11
89	39	1.703	2.08	<AL	0.00	1.72	<MDA	1.50	11/8/95 7:13
10	40	0.000	2.08	<MDA	0.00	1.72	<MDA	1.50	11/8/95 7:14
43	41	0.000	2.11	<MDA	1.20	2.96	<MDA	1.50	11/8/95 7:16
117	42	0.000	2.08	<MDA	0.00	1.72	<MDA	1.50	11/8/95 7:18
96	43	0.000	2.08	<MDA	0.00	1.72	<MDA	1.50	11/8/95 7:20
29	44	0.000	2.08	<MDA	0.00	1.72	<MDA	1.50	11/8/95 7:22
37	45	0.000	2.13	<MDA	2.91	3.42	<MDA	1.50	11/8/95 7:24

Protocol #: 3

Pw H3 20cc #403728

User : 232

Time: 2.00

Data Mode: DPM

Nuclide: PW-3H-UG

Quench Set: PW_3H_UG

Background Subtract: 1st Vial

	LL	UL	LCR	25%	BKG
Region A:	0.5 - 18.6		0	0.0	8.40
Region B:	2.0 - 18.6		0	0.0	7.30
Region C:	0.0 - 0.0		0	0.0	0.00

Quench Indicator: tSIE/AEC

Ext Std Terminator: Count

RAYNEY C-153-95 [11-07-95] JC

Luminescence Correction On

Coincidence Time(ns): 18

Delay Before Burst(ns): Normal

Protocol Data Filename: c:\data\PROT3.DAT

Count Data Filename: c:\data\SDATA3.DAT

Spectrum Data Drive & Path: c:\data

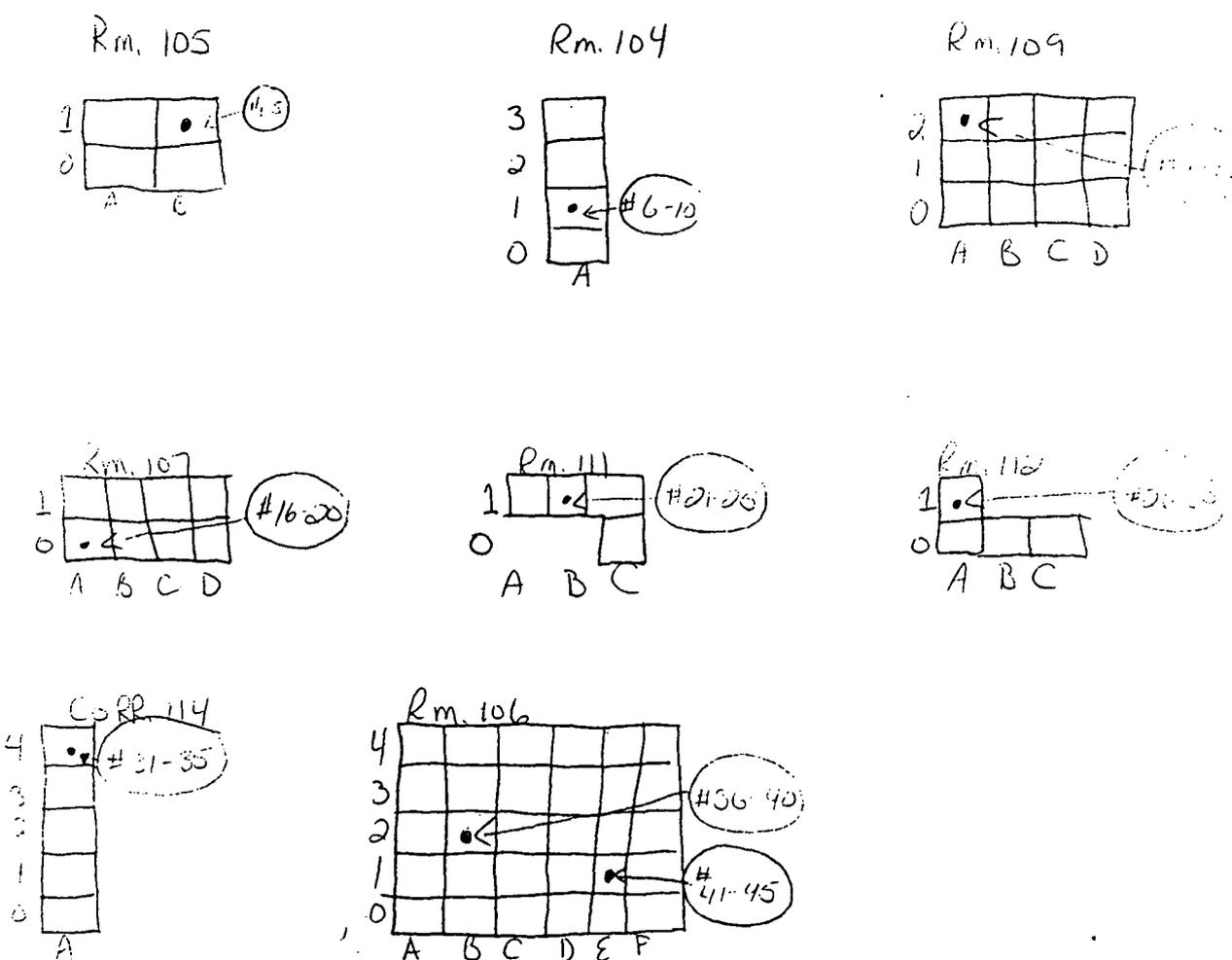
S#	SMPL_ID	TIME	CPMA	LUM	FLAG	tSIE	DPM1	2Sigma
1		10.00	8.40	1	B	708.91		0.00
2	SOURCE	2.00	420.10	0	E	620.54	874.31	164.73
3		2.00	0.60	0	E	666.95	1.20	9.28
4		2.00	0.00	8	E	680.16	0.00	0.00
5		2.00	0.00	0	E	695.56	0.00	0.00
6		2.00	2.60	5	E	695.43	5.11	9.94
7		2.00	6.10	0	E	695.18	11.99	11.38
8		2.00	0.00	0	E	700.76	0.00	0.00
9		2.00	0.00	0	E	697.34	0.00	0.00
10		2.00	0.60	6	E	667.54	1.20	9.28
11		2.00	1.10	0	E	676.66	2.19	9.43
12		2.00	2.10	0	E	690.60	4.14	9.76
13		2.00	0.00	0	E	611.53	0.00	0.00
14		2.00	0.00	0	E	681.29	0.00	0.00
15		2.00	0.00	0	E	688.51	0.00	0.00
16		2.00	0.60	0	E	662.13	1.21	9.32
17		2.00	0.00	0	E	674.91	0.00	0.00
18		2.00	0.00	0	E	702.30	0.00	0.00
19		2.00	0.00	0	E	711.40	0.00	0.00
20		2.00	0.00	0	E	696.86	0.00	0.00
21		2.00	4.60	0	E	693.70	9.05	10.78
22		2.00	0.00	0	E	709.88	0.00	0.00
23		2.00	0.00	9	E	706.37	0.00	0.00
24		2.00	0.60	0	E	679.15	1.19	9.20
25		2.00	1.60	0	E	682.69	3.18	9.61
26		2.00	0.00	0	E	669.50	0.00	0.00
27		2.00	0.00	0	E	706.16	0.00	0.00
28		2.00	1.60	0	E	666.48	3.21	9.73
29		2.00	3.10	0	E	672.34	6.20	10.33
30		2.00	0.00	0	E	692.33	0.00	0.00
31		2.00	1.10	0	E	655.16	2.23	9.59
32		2.00	1.10	0	E	689.91	2.17	9.34
33		2.00	4.60	8	E	624.43	9.54	11.37
34		2.00	1.60	5	E	635.42	3.29	9.96
35		2.00	2.10	10	E	650.97	4.27	10.06
36		2.00	2.10	10	E	639.85	4.31	10.15

S#	SMPL_ID	TIME	CPMA	LUM	FLAG	tSIE	DPM1	2Sigma
37		2.00	2.60	5	E	648.50	5.30	10.30
38		2.00	2.10	9	E	642.49	4.30	10.13
39		2.00	0.00	13	E	649.63	0.00	0.00
40		2.00	0.00	13	E	637.18	0.00	0.00
41		2.00	1.60	5	E	656.85	3.24	9.80
42		2.00	0.00	14	E	659.37	0.00	0.00
43		2.00	0.00	6	E	608.28	0.00	0.00
44		2.00	1.10	11	E	635.13	2.26	9.74
45		2.00	0.10	6	E	633.94	0.21	9.29
46		2.00	0.60	6	E	566.45	1.30	10.05
47		2.00	0.60	10	E	639.40	1.23	9.48

RADIOLOGICAL SURVEY DATA SHEET

LOCATION: (BLDG./AREA/ROOM) C-bldg. Rm. 105, 104, 109, 107, 111, 112, 106 & 114	SURVEY NO. C-159-95
PURPOSE: Final Status Survey (Safe Shutdown)	RWP NO. N/A
	DATE: 11/9/95
	TIME: 0900-1200

MAP/DRAWING



N ↓

LEGEND: # = mrem/hr (γ) whole body Δ # = mrem/hr neutron # = swipe number
 # E = mrem/hr (β+η+γ) extremity on contact # = air sample number #/α or #/β = direct cont. measurement in dpm/100cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
5202/5204	671	4/18/96
3440	30747	11/16/95

Completed by: (Signature/HP#) Kelly M. Ramsey	Date: 11/11/95
[Redacted Signature]	Date: 11-10-95
[Redacted Signature]	Date: 11/15/95

UNIT 2 Group F H2 F

Health Physics Counting Lab -- Wipe / Air Filter Analysis

Date: 11/10/95
 Counting Unit id: 2
 Data file name: C:\LBXL\UNIT2\WIP2\F002.XLD
 Batch Ended: 11/9/95 17:41
 Crosstalk Correction: Applied

Alpha activity action level (DPM): 20.00
 Beta activity action level (DPM): 200.00
 System Serial #: 15764-2

Batch ID: # C-159-95

Carrier	Sample	Alpha Activity			Beta Activity			Count time (min)	Completion Date - Time
		DPM	σ	flags	DPM	σ	flags		
79	1	0.000	2.08	<MDA	0.07	3.61	<MDA	1.50	11/9/95 16:14
86	2	0.000	2.08	<MDA	0.00	2.11	<MDA	1.50	11/9/95 16:16
32	3	0.000	2.08	<MDA	0.00	2.11	<MDA	1.50	11/9/95 16:18
33	4	0.000	2.10	<MDA	6.30	5.11	<AL	1.50	11/9/95 16:20
81	5	0.000	2.08	<MDA	0.07	3.61	<MDA	1.50	11/9/95 16:22
76	6	0.000	2.09	<MDA	2.15	4.17	<MDA	1.50	11/9/95 16:24
66	7	0.000	2.08	<MDA	0.00	2.96	<MDA	1.50	11/9/95 16:26
75	8	0.000	2.09	<MDA	4.22	4.66	<MDA	1.50	11/9/95 16:28
76	9	0.000	2.08	<MDA	0.00	2.13	<MDA	1.50	11/9/95 16:30
11	10	0.000	2.08	<MDA	0.07	3.61	<MDA	1.50	11/9/95 16:32
44	11	0.000	2.08	<MDA	0.00	2.11	<MDA	1.50	11/9/95 16:34
120	12	0.000	2.08	<MDA	0.07	3.61	<MDA	1.50	11/9/95 16:36
15	13	0.000	2.08	<MDA	0.00	2.13	<MDA	1.50	11/9/95 16:38
11	14	0.000	2.08	<MDA	0.00	2.96	<MDA	1.50	11/9/95 16:40
20	15	0.000	2.08	<MDA	0.07	3.61	<MDA	1.50	11/9/95 16:41
33	16	0.000	2.08	<MDA	0.00	2.11	<MDA	1.50	11/9/95 16:43
34	17	1.829	2.09	<AL	0.00	3.61	<MDA	1.50	11/9/95 16:45
56	18	0.000	2.08	<MDA	0.00	2.96	<MDA	1.50	11/9/95 16:48
75	19	0.000	2.08	<MDA	0.00	2.96	<MDA	1.50	11/9/95 16:50
31	20	1.829	2.09	<AL	0.00	3.61	<MDA	1.50	11/9/95 16:52
56	21	0.000	2.08	<MDA	0.00	2.96	<MDA	1.50	11/9/95 16:53
113	22	0.000	2.09	<MDA	2.15	4.17	<MDA	1.50	11/9/95 16:55
91	23	0.000	2.09	<MDA	2.15	4.17	<MDA	1.50	11/9/95 16:57
24	24	0.000	2.09	<MDA	2.15	4.17	<MDA	1.50	11/9/95 16:59
118	25	0.000	2.08	<MDA	0.07	3.61	<MDA	1.50	11/9/95 17:01
40	26	0.000	2.08	<MDA	0.07	3.61	<MDA	1.50	11/9/95 17:03
78	27	0.000	2.08	<MDA	0.00	2.96	<MDA	1.50	11/9/95 17:06
24	28	0.000	2.08	<MDA	0.00	2.11	<MDA	1.50	11/9/95 17:07
119	29	0.000	2.08	<MDA	0.07	3.61	<MDA	1.50	11/9/95 17:09

Health Physics Counting Lab -- Wipe / Air Filter Analysis

Date: 11/10/95
 Counting Unit id: 2
 Data file name: C:\LBXL\UNIT2\WIP2F002.XLD
 Batch Ended: 11/9/95 17:41
 Crosstalk Correction: Applied

Alpha activity action level (DPM): 20.00
 Beta activity action level (DPM): 200.00
 System Serial #: 15764-2

Batch ID: # C-159-95

Carrier	Sample	Alpha Activity			Beta Activity			Count time (min)	Completion Date - Time
		DPM	σ	flags	DPM	σ	flags		
78	30	0.000	2.08	<MDA	0.00	2.96	<MDA	1.50	11/9/95 17:11
3	31	0.000	2.08	<MDA	0.00	2.96	<MDA	1.50	11/9/95 17:13
109	32	0.000	2.09	<MDA	2.15	4.17	<MDA	1.50	11/9/95 17:15
26	33	0.000	2.08	<MDA	0.00	2.96	<MDA	1.50	11/9/95 17:17
58	34	0.000	2.09	<MDA	4.22	4.66	<MDA	1.50	11/9/95 17:19
63	35	1.841	2.08	<AL	0.00	2.96	<MDA	1.50	11/9/95 17:21
48	36	0.000	2.10	<MDA	8.38	5.52	<AL	1.50	11/9/95 17:23
120	37	0.000	2.08	<MDA	0.07	3.61	<MDA	1.50	11/9/95 17:25
108	38	1.841	2.08	<AL	0.00	2.96	<MDA	1.50	11/9/95 17:27
8	39	0.000	2.08	<MDA	0.00	2.11	<MDA	1.50	11/9/95 17:29
77	40	1.841	2.08	<AL	0.00	2.96	<MDA	1.50	11/9/95 17:31
124	41	0.000	2.09	<MDA	4.22	4.66	<MDA	1.50	11/9/95 17:33
46	42	0.000	2.10	<MDA	6.30	5.11	<AL	1.50	11/9/95 17:35
33	43	0.000	2.08	<MDA	0.07	3.61	<MDA	1.50	11/9/95 17:37
71	44	0.000	2.08	<MDA	0.00	2.11	<MDA	1.50	11/9/95 17:39
93	45	0.000	2.08	<MDA	0.00	2.96	<MDA	1.50	11/9/95 17:41

Protocol #: 5 Name: Pw H3 #401393 13-Nov-95 10:31
 Region A: LL-UL= 0.5-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region B: LL-UL= 2.0-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Region C: LL-UL= 0.0- 0.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
 Time = 2.00 QIP = tSIE/AEC ES Terminator = Count
 EY C-159-95, [11-09-95] JC
 Conventional DPM
 Nuclide 1 = B00
 Luminescence Correction On

S#	TIME	LUM	EFFA	FLAG	CPMA	CPMB	tSIE	DFM1	2Sigma
1	10.00	10	0.000	B	8.20	7.90	694.		0.00
2	2.00	2	0.298		242.30	233.10	320.	813.95	181.19
3	2.00	10	0.491		1.80	3.10	699.	3.66	10.64
4	2.00	0	0.486		3.30	1.60	688.	6.79	10.58
5	2.00	0	0.481		1.30	1.10	679.	2.70	9.81
6	2.00	7	0.000		0.00	0.00	688.	0.00	0.00
7	2.00	10	0.000		0.00	0.00	696.	0.00	0.00
8	2.00	0	0.000		0.00	0.00	658.	0.00	0.00
9	2.00	34	0.000		0.00	0.10	664.	0.00	0.00
10	2.00	0	0.000		0.00	0.00	641.	0.00	0.00
11	2.00	8	0.472		3.30	3.60	660.	6.99	11.69
12	2.00	0	0.476		0.80	0.10	668.	1.68	9.69
13	2.00	7	0.000		0.00	0.00	656.	0.00	0.00
14	2.00	23	0.475		1.30	2.10	665.	2.74	11.98
15	2.00	11	0.484		0.80	0.60	684.	1.65	10.38
16	2.00	0	0.484		4.80	3.60	684.	9.92	11.24
17	2.00	6	0.000		0.00	0.60	657.	0.00	0.00
18	2.00	12	0.000		0.00	0.00	649.	0.00	0.00
19	2.00	20	0.000		0.00	0.00	648.	0.00	0.00
20	2.00	16	0.000		0.00	0.00	701.	0.00	0.00
21	2.00	6	0.481		0.80	0.60	678.	1.65	10.03
22	2.00	0	0.477		4.30	3.10	669.	9.02	11.22
23	2.00	14	0.000		0.00	0.00	683.	0.00	0.00
24	2.00	6	0.477		0.80	0.60	670.	1.68	10.12
25	2.00	0	0.476		0.80	0.00	668.	1.68	9.69
26	2.00	18	0.000		0.00	0.10	675.	0.00	0.00
27	2.00	18	0.000		0.00	0.00	666.	0.00	0.00
28	2.00	27	0.000		0.00	0.00	685.	0.00	0.00
29	2.00	14	0.000		0.00	0.00	669.	0.00	0.00
30	2.00	9	0.000		0.00	0.00	686.	0.00	0.00
31	2.00	6	0.485		0.30	0.10	685.	0.62	9.74
32	2.00	14	0.000		0.00	0.00	647.	0.00	0.00
33	2.00	5	0.474		1.30	1.60	665.	2.74	10.39
34	2.00	29	0.000		0.00	0.00	678.	0.00	0.00
35	2.00	8	0.000		0.00	0.00	673.	0.00	0.00
36	2.00	13	0.000		0.00	0.00	673.	0.00	0.00
37	2.00	11	0.469		0.30	1.10	652.	0.64	10.52
38	2.00	0	0.478		2.30	1.60	671.	4.82	10.34
39	2.00	14	0.000		0.00	0.00	676.	0.00	0.00
40	2.00	0	0.000		0.00	0.00	660.	0.00	0.00
41	2.00	20	0.000		0.00	0.00	685.	0.00	0.00
42	2.00	25	0.481		0.30	1.10	677.	0.62	11.45
43	2.00	18	0.000		0.00	0.00	675.	0.00	0.00
44	2.00	8	0.477		3.80	4.10	671.	7.96	11.76
45	2.00	6	0.000		0.00	0.00	687.	0.00	0.00
46	2.00	6	0.477		0.30	0.00	670.	0.63	9.89

S#	TIME	LUM	EFFA	FLAG	CPMA	CPMB	tSIE	DPM1	2Sigma
.47	2.00	8	0.000		0.00	0.00	664.	0.00	0.00

1-25C

RADIOLOGICAL SURVEY DATA SHEET

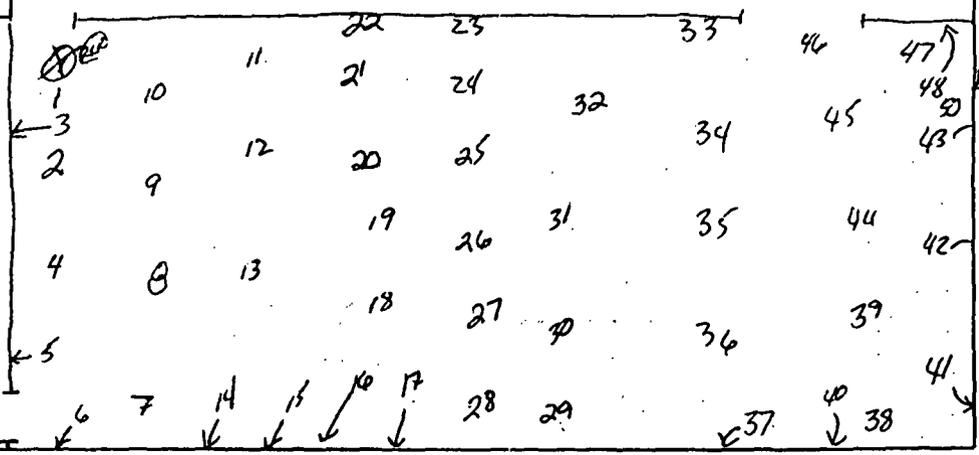
Survey No. _____

Facility EG+G Mound RWP _____ Date 9/15/95 Time 1300 Page 1 of 1

Location C-3106 Bldg. No. C Level GROUND Room # N/A

Purpose Characterize for Release Inst. No.(s): _____ Model- Electra Bat. OK Model- _____ Bat. _____
Serial- 5293 Source OK Serial- _____ Source _____
Cal. Date 7/20/95 Bkd. N/A Cal. Date _____ Bkd. _____

REMOVABLE CONTAMINATION dpm/100cm ²		TOTAL CONTAMINATION (DIRECT + REMOVABLE)	MAX. LARGE AREA WIPE ACTIVITY IN dpm	ANALYSIS REQUESTED: <input checked="" type="checkbox"/> Alpha <input checked="" type="checkbox"/> Beta <input checked="" type="checkbox"/> Gamma <input type="checkbox"/> Tritium			
Beta-Gamma or Tritium (circle one)	Alpha			If more space is needed, use separate piece of paper and attach to this data sheet.			
Counter ID #							
1			T ³ Airborne Activity				
2			<u>N/A</u>				
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							



Surveyed By: Raymond C. Robinson Reviewed By: Collas
 Name _____ Name _____ Date 11/15/95
 Signature _____ Signature _____ Date 11/15/95
 Comments: CR - JC

- E Extremity dose rate $[(OW-CW) \times BCF_C] + CW + n$
- S Skin dose rate $[(OW-CW) \times BCF_F] + CW + n$
- Whole body dose rate at 30 cm = CW + n
- GA Whole body dose rate General Area
- Δ neutron dose rate
- Total Contamination by direct measurement
- Air Sample

NOTE: When instruments with a single beta-correction factor are used, the correction factor on the instrument calibration label will be used for both contact (BCF_C) and free-field (BCF_F) measurements.

ML-9620 Limit 1 dpm/100cm² F

Health Physics Counting Lab -- Wipe / Air Filter Analysis

Date: 09/16/95
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\WIP1F000.XLD
 Batch Ended: 09/15/95 16:22
 Crosstalk Correction: Applied
 Alpha activity action level (DPM): 20.00
 Beta activity action level (DPM): 200.00

Batch ID: RODRIGEZ C-BLDG CHAR. FOR RELRASE 9-15-95 [50] JC

Carrier	Sample	Alpha Activity			Beta Activity			Count time (min)	Completion Date - Time
		DPM	σ	flags	DPM	σ	flags		
50	1	0.000	2.10	<MDA	0.00	2.42	<MDA	1.50	09/15/95 14:46
73	2	0.000	2.10	<MDA	0.00	2.42	<MDA	1.50	09/15/95 14:47
30	3	1.663	2.10	<AL	0.00	2.42	<MDA	1.50	09/15/95 14:49
78	4	0.000	2.10	<MDA	0.00	2.42	<MDA	1.50	09/15/95 14:51
7	5	0.000	2.11	<MDA	1.20	2.96	<MDA	1.50	09/15/95 14:53
93	6	0.000	2.11	<MDA	1.20	2.96	<MDA	1.50	09/15/95 14:55
65	7	0.000	2.15	<MDA	4.61	3.83	<AL	1.50	09/15/95 14:57
69	8	0.000	2.08	<MDA	0.00	1.72	<MDA	1.50	09/15/95 14:59
33	9	1.742	2.08	<AL	0.00	1.73	<MDA	1.50	09/15/95 15:01
122	10	1.663	2.10	<AL	0.00	2.42	<MDA	1.50	09/15/95 15:03
117	11	0.000	2.10	<MDA	0.00	2.42	<MDA	1.50	09/15/95 15:05
103	12	0.000	2.11	<MDA	1.20	2.96	<MDA	1.50	09/15/95 15:07
70	13	0.000	2.11	<MDA	1.20	2.96	<MDA	1.50	09/15/95 15:09
91	14	0.000	2.10	<MDA	0.00	2.42	<MDA	1.50	09/15/95 15:11
77	15	1.623	2.12	<MDA	0.94	2.96	<MDA	1.50	09/15/95 15:13
119	16	0.000	2.18	<MDA	8.03	4.54	<AL	1.50	09/15/95 15:15
17	17	0.000	2.10	<MDA	0.00	2.42	<MDA	1.50	09/15/95 15:17
24	18	0.000	2.15	<MDA	4.61	3.83	<AL	1.50	09/15/95 15:19
126	19	0.000	2.13	<MDA	2.91	3.42	<MDA	1.50	09/15/95 15:21
97	20	1.663	2.10	<AL	0.00	2.42	<MDA	1.50	09/15/95 15:23
128	21	0.000	2.10	<MDA	0.00	2.42	<MDA	1.50	09/15/95 15:25
95	22	0.000	2.13	<MDA	2.91	3.42	<MDA	1.50	09/15/95 15:27
22	23	0.000	2.08	<MDA	0.00	1.72	<MDA	1.50	09/15/95 15:29
79	24	0.000	2.10	<MDA	0.00	2.42	<MDA	1.50	09/15/95 15:31
118	25	0.000	2.20	<MDA	9.74	4.86	<AL	1.50	09/15/95 15:33
69	26	0.000	2.11	<MDA	1.20	2.96	<MDA	1.50	09/15/95 15:35
76	27	0.000	2.11	<MDA	1.20	2.96	<MDA	1.50	09/15/95 15:37
82	28	0.000	2.10	<MDA	0.00	2.42	<MDA	1.50	09/15/95 15:39
77	29	0.000	2.08	<MDA	0.00	1.72	<MDA	1.50	09/15/95 15:41

Health Physics Counting Lab -- Wipe / Air Filter Analysis

Date: 09/16/95
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\WIP1F000.XLD
 Batch Ended: 09/15/95 16:22
 Crosstalk Correction: Applied
 Alpha activity action level (DPM): 20.00
 Beta activity action level (DPM): 200.00

Batch ID: RODRIGEZ C-BLDG CHAR. FOR RELRASE 9-15-95 [50] JC

Carrier	Sample	Alpha Activity			Beta Activity			Count time (min)	Completion Date - Time
		DPM	σ	flags	DPM	σ	flags		
16	30	0.000	2.08	<MDA	0.00	1.72	<MDA	1.50	09/15/95 15:43
28	31	0.000	2.11	<MDA	1.20	2.96	<MDA	1.50	09/15/95 15:45
85	32	1.583	2.13	<MDA	2.65	3.42	<MDA	1.50	09/15/95 15:47
23	33	0.000	2.08	<MDA	0.00	1.72	<MDA	1.50	09/15/95 15:48
46	34	1.623	2.12	<MDA	0.94	2.96	<MDA	1.50	09/15/95 15:50
38	35	0.000	2.08	<MDA	0.00	1.72	<MDA	1.50	09/15/95 15:52
42	36	1.663	2.10	<AL	0.00	2.42	<MDA	1.50	09/15/95 15:54
28	37	0.000	2.10	<MDA	0.00	2.42	<MDA	1.50	09/15/95 15:56
115	38	0.000	2.10	<MDA	0.00	2.42	<MDA	1.50	09/15/95 15:58
28	39	1.623	2.12	<MDA	0.94	2.96	<MDA	1.50	09/15/95 16:00
78	40	0.000	2.11	<MDA	1.20	2.96	<MDA	1.50	09/15/95 16:02
32	41	0.000	2.10	<MDA	0.00	2.42	<MDA	1.50	09/15/95 16:04
64	42	0.000	2.08	<MDA	0.00	1.72	<MDA	1.50	09/15/95 16:06
17	43	0.000	2.13	<MDA	2.91	3.42	<MDA	1.50	09/15/95 16:08
47	44	1.623	2.12	<MDA	0.94	2.96	<MDA	1.50	09/15/95 16:10
83	45	0.000	2.10	<MDA	0.00	2.42	<MDA	1.50	09/15/95 16:12
45	46	3.803	2.93	<AL	0.00	1.73	<MDA	1.50	09/15/95 16:14
44	47	0.000	2.11	<MDA	1.20	2.96	<MDA	1.50	09/15/95 16:16
35	48	0.000	2.08	<MDA	0.00	1.72	<MDA	1.50	09/15/95 16:18
120	49	1.663	2.10	<AL	0.00	2.42	<MDA	1.50	09/15/95 16:20
11	50	1.703	2.08	<AL	0.00	1.72	<MDA	1.50	09/15/95 16:22

Protocol #: 5 Name: Pw H3 #401393 16-Sep-95 09:01

Region A: LL-UL= 0.5-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00

Region B: LL-UL= 2.0-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00

Region C: LL-UL= 0.0- 0.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00

Time = 2.00 QIP = tSIE/AEC ES Terminator Count

RODRIGUEZ C-BLDG CHAR. 9-15-95 [50] JC

Conventional DPM

Nuclide 1 = 800

Luminescence Correction On

S#	TIME	LUM	EFFA	FLAG	CPMA	CPMB	tSIE	DPM1	2Sigma
1	10.00	4	0.000	B	10.50	10.10	700.		0.00
2	2.00	1	0.331		264.00	253.90	369.	797.11	161.15
3	2.00	0	0.000		0.00	0.00	656.	0.00	0.00
4	2.00	0	0.481		0.50	0.40	678.	1.04	10.64
5	2.00	0	0.461		0.50	0.40	627.	1.08	11.10
6	2.00	11	0.000		0.00	0.00	657.	0.00	0.00
7	2.00	0	0.000		0.00	0.00	640.	0.00	0.00
8	2.00	7	0.000		0.00	0.00	652.	0.00	0.00
9	2.00	14	0.000		0.00	0.00	667.	0.00	0.00
10	2.00	10	0.000		0.00	0.00	666.	0.00	0.00
11	2.00	15	0.000		0.00	0.40	656.	0.00	0.00
12	2.00	7	0.000		0.00	0.00	673.	0.00	0.00
13	2.00	29	0.000		0.00	0.00	682.	0.00	0.00
14	2.00	4	0.476		1.50	2.40	668.	3.15	11.55
15	2.00	6	0.000		0.00	0.00	630.	0.00	0.00
16	2.00	0	0.000		0.00	0.00	648.	0.00	0.00
17	2.00	6	0.000		0.00	0.00	589.	0.00	0.00
18	2.00	13	0.000		0.00	0.00	529.	0.00	0.00
19	2.00	0	0.000		0.00	0.00	605.	0.00	0.00
20	2.00	8	0.000		0.00	0.00	663.	0.00	0.00
21	2.00	0	0.469		1.50	1.40	652.	3.20	11.33
22	2.00	5	0.456		0.50	0.90	608.	1.10	11.64
23	2.00	9	0.000		0.00	0.00	660.	0.00	0.00
24	2.00	10	0.000		0.00	0.40	677.	0.00	0.00
25	2.00	0	0.000		0.00	0.00	675.	0.00	0.00
26	2.00	0	0.000		0.00	0.00	651.	0.00	0.00
27	2.00	0	0.483		1.00	0.40	681.	2.07	10.81
28	2.00	8	0.000		0.00	0.00	657.	0.00	0.00
29	2.00	0	0.000		0.00	0.00	612.	0.00	0.00
30	2.00	0	0.000		0.00	0.00	639.	0.00	0.00
31	2.00	6	0.000		0.00	0.00	654.	0.00	0.00
32	2.00	0	0.000		0.00	0.00	667.	0.00	0.00
33	2.00	0	0.475		4.00	3.40	666.	8.42	12.18
34	2.00	0	0.000		0.00	0.00	594.	0.00	0.00
35	2.00	16	0.000		0.00	0.00	642.	0.00	0.00
36	2.00	5	0.000		0.00	0.40	584.	0.00	0.00
37	2.00	9	0.464		0.50	0.00	637.	1.08	11.85
38	2.00	11	0.000		0.00	0.00	653.	0.00	0.00
39	2.00	0	0.465		1.00	0.40	641.	2.15	11.22
40	2.00	19	0.000		0.00	0.00	664.	0.00	0.00
41	2.00	17	0.000		0.00	0.00	663.	0.00	0.00
42	2.00	7	0.000		0.00	0.00	624.	0.00	0.00
43	2.00	16	0.000		0.00	0.00	632.	0.00	0.00
44	2.00	0	0.000		0.00	0.00	639.	0.00	0.00
45	2.00	14	0.000		0.00	0.00	671.	0.00	0.00
46	2.00	0	0.000		0.00	0.00	673.	0.00	0.00

S#	TIME	LUM	EFFA	FLAG	CPMA	CPMB	tSIE	DPM1	2Sigma
47	2.00	16	0.000		0.00	0.00	580.	0.00	0.00
48	2.00	5	0.000		0.00	0.00	631.	0.00	0.00
49	2.00	8	0.000		0.00	0.00	636.	0.00	0.00
50	2.00	0	0.000		0.00	0.00	682.	0.00	0.00
51	2.00	17	0.000		0.00	0.00	614.	0.00	0.00
52	2.00	6	0.000		0.00	0.00	664.	0.00	0.00

RADIOLOGICAL SURVEY DATA SHEET

Survey No. _____

Facility MOOND RWP N/A Date 9/15/95 Time 1530 Page 1 of 1

Location N/A Bldg. No. C Bldg Level Ground Room # S-ENN

Purpose SAFE shut down survey Inst. No.(s): Model- Electra Bat. Model- _____ Bat. _____
 Serial- 5355 Source L Serial- N/A Source N/A
 Cal. Date 11-15-95 Bkd. 13 or 14000 R - dpm Cal. Date _____ Bkd. _____

REMOVABLE CONTAMINATION dpm/100cm ²		TOTAL CONTAMINATION (DIRECT + REMOVABLE)	MAX. LARGE AREA WIPE ACTIVITY IN dpm	ANALYSIS REQUESTED: <input type="checkbox"/> Alpha <input type="checkbox"/> Beta <input type="checkbox"/> Gamma <input type="checkbox"/> Tritium			
Beta-Gamma or Tritium (circle one)	Alpha			If more space is needed, use separate piece of paper and attach to this data sheet.			
Counter ID #				<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p style="text-align: center;">"C" Bldg South End</p> <p style="text-align: center;">This AREA DIRECT FRISKED NO ACTIVITY Detected,</p> <p style="text-align: center;">CARPET →</p> <p style="text-align: center;">← TILE</p> <p style="text-align: right;">N ↓</p> </div>			
1			T ³ Airborne Activity				
2							
3							
4							
5		N/A					
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Surveyed By: Name Henderson, R.L. Signature [Signature] Comments: This survey is direct scan only (FLOOR)

Reviewed By: Name [Signature] Signature [Signature] Date 11/15/95
 Date 11/15/95

- E** Extremity dose rate* $[(OW-CW) \times BCF_C] + CW + n$
- S** Skin dose rate $[(OW-CW) \times BCF_F] + CW + n$
- #** Whole body dose rate at 30 cm = CW + n
- GA** Whole body dose rate General Area
- Δ** neutron dose rate
- *Total Contamination by direct measurement
- #** Air Sample

NOTE: When instruments with a single beta-correction factor are used, the correction factor on the instrument calibration label will be used for both contact (BCF_C) and free-field (BCF_F) measurements.

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 Quantification and Assessment Summary
of C Building**

Type of Material	Estimated Quantity	Estimated Quantity to be Removed Prior to Demolition of Structure	Estimated Quantity not to be Removed Prior to Demolition
Thermal System Insulation (includes preformed block insulation, layered paper insulation, and cementitious insulation)	2750 linear feet	2750 linear feet	0
Surfacing Materials (includes plaster, both ceiling and wall)	6970 square feet acoustical ceiling material. Unknown at this time. Wall materials to be determined.	6970 square feet acoustical ceiling material. Unknown at this time. Wall materials to be determined.	0
Miscellaneous (includes roofing and flooring materials)	6000 square feet built up roofing materials (approx). 3000 square feet floor tile/mastic material (approx). 3000 square feet carpet/mastic material (approx).	None.	6000 square feet built up roofing materials (approx). 3000 square feet floor tile/mastic material (approx). 3000 square feet carpet/mastic material

Note: Wall materials have not yet been determined, pending laboratory analysis.

M o u n d

Electronic Message/AOS

From :EVAN KIRK
KIRKET3
Dept. :Administration
Tel. No :
Date :25-Sep-1995 03:03pm EST
Subject :C Building Inspection Report

TO :Mark Allen Tibbs (TIBBMA)
TO :Mitchell Phillabaum (PHILMR2)
CC :Randall Wood (WOODRL)

The following items were noticed by Industrial Hygiene during the Safe Shutdown review of C Building. Two major issues were noticed during the inspection on September 21, 1995.

The first of these concerns was the poor condition of the paint which was peeling in numerous locations throughout the building. Field tests conducted by I.H. personnel (R. Wood & E. Kirk) yielded negative results for lead content. However, these test results offer no quantifiable result and simply cause a color change at the tip of a sample swab if lead is detected, and should therefor be analyzed by an accredited laboratory for before renovation / demolition.

The second issue of concern was the amount and location of asbestos located in the building. Records indicate that the structure contains eight positively identified asbestos containing materials (Barge, Waggoner, Sumner, and Cannon Management Plan) and five materials assumed to contain asbestos (ceiling tiles, ceiling tile mastic, floor tiles, floor tile mastic, & carpet mastic). The materials assumed to contain asbestos will require laboratory analysis to confirm / cancel this assumption in accordance with current regulations, prior to renovation / demolition.

The basement of C building contains a considerable amount of asbestos pipe insulation and hard joint insulation that is significantly damaged and has significant potential for asbestos fiber release if disturbed. The crawlspace of C building is significantly contaminated with asbestos insulation debris and will require remedial action by the appropriately trained personnel prior to any renovation / demolition of this structure. Mound Industrial Hygiene personnel will be required to implement a strategy to deal with these concerns prior to activities that may disturb the materials in question.

If there are questions, please contact me at ext.4172

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.

M o u n d

Electronic Message/AOS

From :EVAN KIRK
KIRKET3
Dept. :Administration
Tel. No :
Date :25-Sep-1995 03:03pm EST
Subject :C Building Inspection Report

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If there are questions, please contact me at ext.4172.

Appendix 7.6.4 Chemical History

CHEMICAL INVENTORY TOTALS ON BUILDING

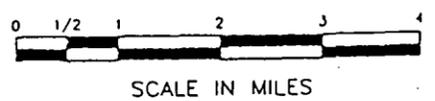
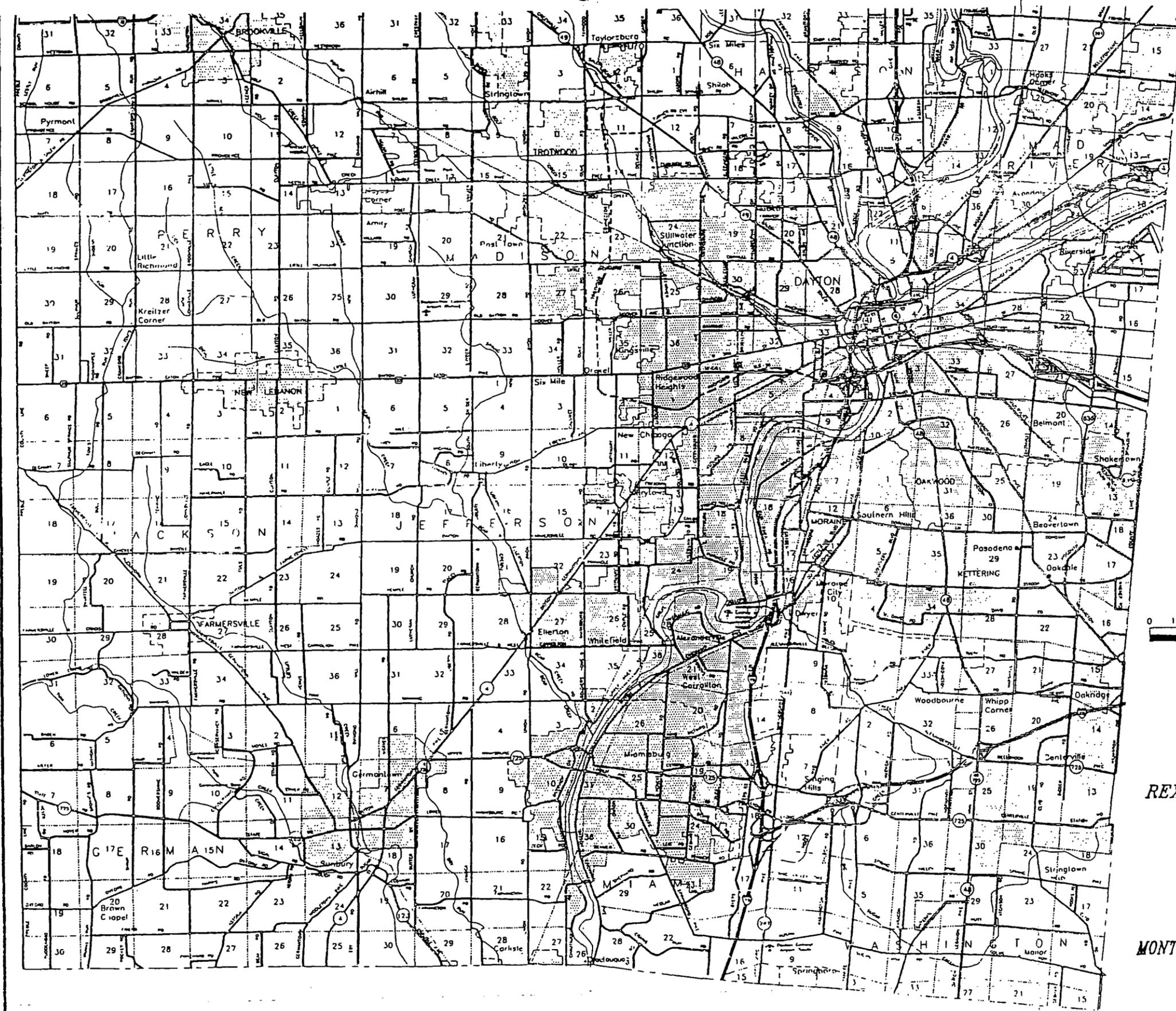
BY CHEMICAL STATE

BUILDING: C

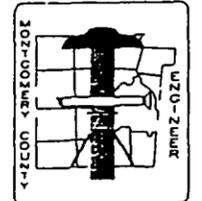
ROOM	CONTAINER ID	CHEMICAL NAME	SOLID QTY (LBS)	LIQUID QTY (GAL)	GAS QTY (CYL)	LABEL DATE	LAST TRANACT DATE	LAST TRANSACTION
BASEMENT	CI17094	MOLDING COMPOUND	12.000			16-JAN-96	29-MAY-96	DISPOSED
BASEMENT	CI17095	MOLDING COMPOUND	12.000			16-JAN-96	29-MAY-96	DISPOSED
BASEMENT	CI17096	MOLDING COMPOUND	12.000			16-JAN-96	29-MAY-96	DISPOSED
BASEMENT	CI17097	PLASTER OF PARIS	8.000			17-JAN-96	29-MAY-96	DISPOSED
BASEMENT	CI17098	PLASTER OF PARIS	8.000			17-JAN-96	29-MAY-96	DISPOSED
BASEMENT	CI17099	PLASTER OF PARIS	8.000			17-JAN-96	29-MAY-96	DISPOSED
BASEMENT	CI17100	FAST N FINAL	2.000			16-JAN-96	29-MAY-96	DISPOSED
BASEMENT	CI17101	FAST N FINAL	2.000			16-JAN-96	29-MAY-96	DISPOSED
BASEMENT	CI17102	FAST N FINAL	2.000			16-JAN-96	29-MAY-96	DISPOSED
BASEMENT	CI17103	33 GLAZING	2.000			17-JAN-96	29-MAY-96	DISPOSED
BASEMENT	CI17104	33 GLAZING	2.000			17-JAN-96	29-MAY-96	DISPOSED
BASEMENT	CI17105	33 GLAZING	2.000			17-JAN-96	29-MAY-96	DISPOSED
BASEMENT	CI17106	33 GLAZING	2.000			17-JAN-96	29-MAY-96	DISPOSED
BASEMENT	CI17107	33 GLAZING	2.000			17-JAN-96	29-MAY-96	DISPOSED
BASEMENT	CI17108	33 GLAZING	2.000			17-JAN-96	29-MAY-96	DISPOSED
BASEMENT	CI17109	33 GLAZING	2.000			17-JAN-96	29-MAY-96	DISPOSED
BASEMENT	CI17110	WALCOVERING ADHESIVE	.002			17-JAN-96	29-MAY-96	DISPOSED
BASEMENT	CI17111	SILICON SEALER	.000			17-JAN-96	29-MAY-96	DISPOSED
			80.002	.000	.000			
UPSTAIRS	RM003201	NO CHEMICALS			.000	16-JAN-96	29-MAY-96	DISPOSED
			.000	.000	.000			

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



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



MONTGOMERY COUNTY ENGINEER

04/04/94



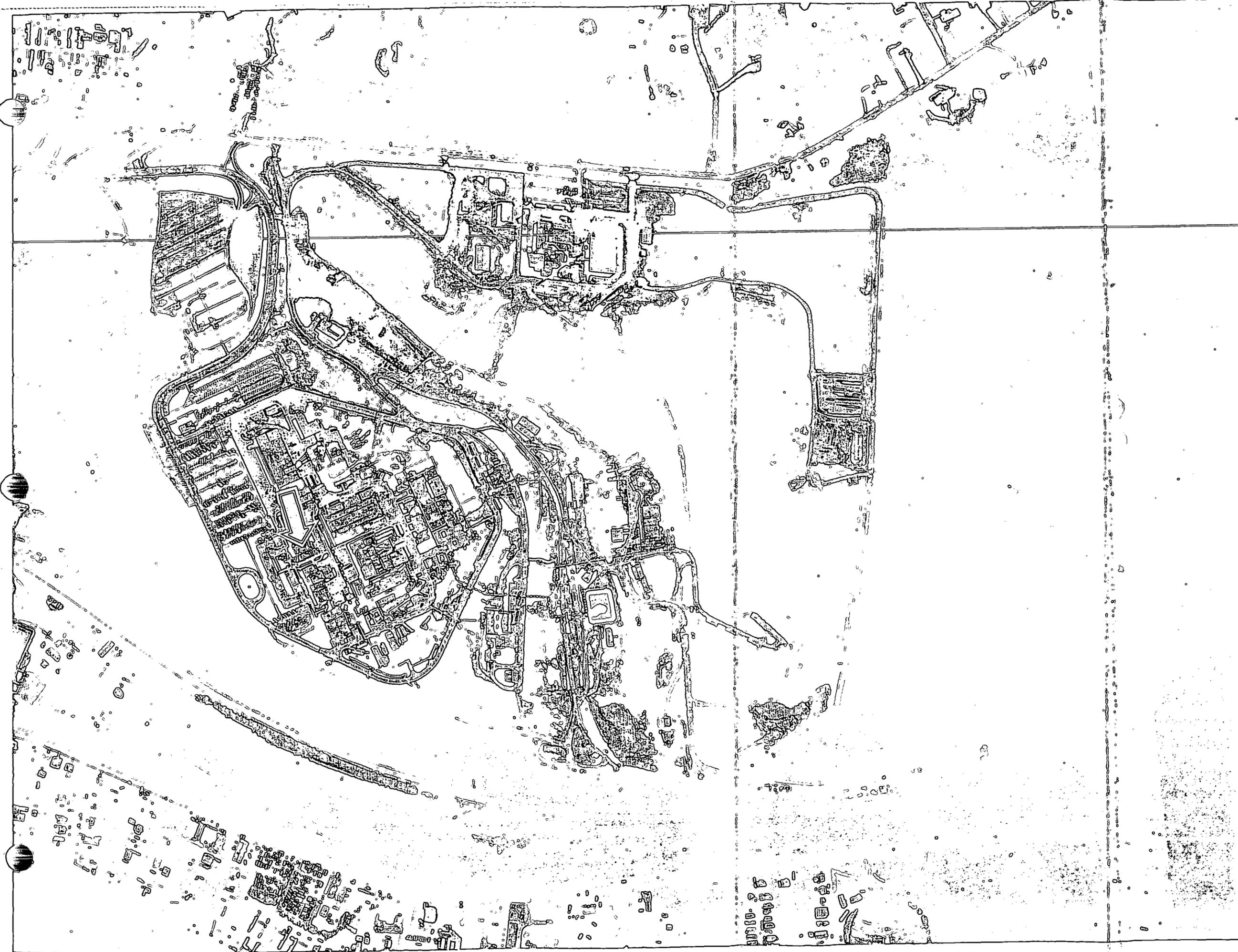
06/83



04/14/73



03/30/68



04/07/65



11/19/59



1355-20-20

11-17
11-18
11-19



11/08/49

1938

GREAT

B&O R.R.

MIAMI

ANTON-CINCINNATI PIKE

ROUTE 25

25

MOUND ROAD

30

MIAMISBURG

25

MIAMISBURG

