FINAL

ENVIRONMENTAL CONDITION OF PROPERTY REPORT

SFC MORGAN L. DOWNS
U.S. ARMY RESERVE CENTER (OH059)
1515 W. HIGH STREET
SPRINGFIELD, OH 43215

Prepared For:

U.S. Army Corps of Engineers – Louisville District
Engineering Division – Environmental Engineering Branch
600 Dr. Martin Luther King, Jr. Place
Louisville, Kentucky 40202-2232

February 2007

CERTIFICATION

All information/documentation provided accurately reflects the environmental condition of the property. This ECP Report is in general accordance with the U.S. Department of Defense (DoD) requirements for completion of an Environmental Condition of Property (ECP) Report.

DAVID L. MOORE **DATE**
Chief, Environmental Division
88th Regional Readiness Command

The undersigned certifies the contents of this report are in general accordance with DoD policies for the completion of an ECP.

LENARD GUNNELL, P.G. **DATE**
Project Geologist
U.S. Army Corps of Engineers

Executive Summary

CH2M HILL, under contract to the U.S. Army Corps of Engineers, Louisville District, has prepared this Environmental Condition of Property Report (ECP) for the SFC Morgan L. Downs U.S. Army Reserve (USAR) Center (Facility ID OH059), hereafter referred to as the "Property" or "USAR Center." The Property is located at 1515 W. High Street, Springfield, Clark County, Ohio, and encompasses approximately 3 acres.

This ECP Report was conducted in conformance with the Department of Defense's Base Redevelopment and Realignment Manual (BRRM), DoD 4165.77-M, Army Regulation 200-1, and American Society for Testing and Materials (ASTM) Designation D6008-96 (2005), *Standard Practice for Conducting Environmental Baseline Surveys.*

This ECP Report details the history of the property, including the U.S. Army Reserve and any prior tenant uses of the Site and the resulting environmental condition of the property.

The USAR Center is on approximately 3 acres of land with two permanent structures: a USARC Building and an Area Maintenance Support Activity (AMSA) Number 58 Building. The Property is currently occupied by 656th Transportation Squadron and the 58th (G) Area Maintenances Support Squadron.

Based on a review of aerial photographs and U.S. Geological Survey topographical maps dating back to 1906, the Property was an undeveloped lot prior to 1956. The buildings were constructed in 1965 and underwent significant renovations in 1985. The property has always functioned as a USAR Center, and AMSA Number 58 relocated to the property in 1986 after the renovations were completed.

Areas of potential environmental concern were reviewed and CH2M HILL found no significant findings relating to the environmental condition of the Property. In accordance with Department of Defense policy defining the classifications (see Sherri Goodman Memorandum dated 21 October 1996), the Property has been classified as Type 1. This classification does not include categorizing the property based on *de minimis* conditions that generally do not present material risk of harm to the public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

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Abbreviations and Acronyms

ACM	asbestos-containing material
AMSA	Area Maintenance Support Activity
AR	Army Regulation
AST	aboveground storage tank
ASTM	American Society for Testing and Materials
BRAC	Base Realignment and Closure
BRRM	Base Redevelopment and Realignment Manual, DoD 4165.77-M
BUSTR	Bureau of Underground Storage Tank Regulations
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	CERCLA Information System
CESQG	conditionally exempt small quantity generator
CFR	Code of Federal Regulations
CORRACTS	RCRA corrective action
DoD	Department of Defense
ECP	Environmental condition of property
EDR	Environmental Data Resources, Inc.
FEMA	Federal Emergency Management Agency
kg	kilogram
LBP	lead-based paint
LUST	leaking underground storage tank
MEC	munitions and explosives of concern
MEP	military equipment parking
NFA	no further action
NFRAP	No Further Remedial Action Planned
NPL	National Priorities List
NRHP	National Register of Historic Places
OWS	oil/water separator
PCB	polychlorinated biphenyl

pCi/L	picoCuries per liter
POL	petroleum, oil, and lubricant
POV	privately owned vehicle
RCRA	Resource Conservation and Recovery Act
RCRIS	RCRA Information System
RRC	Regional Readiness Command
TSD	treatment, storage, or disposal
USACE	U.S. Army Corps of Engineers
USAR	U.S. Army Reserve
USARC	U.S. Army Reserve Center (Building)
USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geological Survey
UST	underground storage tank
VAP	voluntary action program
WSR	Wild and Scenic River

1 Introduction

CH2M HILL, under contract to the U.S. Army Corps of Engineers (USACE) Louisville District Engineering Division, was authorized to conduct an Environmental Condition of Property (ECP) report for the SFC Morgan L. Downs U.S. Army Reserve (USAR) Center (OH059). The Property is located at 1515 W. High Street, Clark County, Springfield, Ohio, and is hereafter referred to as the "Property" or "USAR Center." CH2M HILL prepared this ECP report under contract number W912QR-04-D-0020, Task Order No. 0018, with the Louisville District USACE.

A visual nonintrusive reconnaissance of the Property was conducted on August 1, 2006, in support of the ECP. The reconnaissance purpose was to visually obtain information indicating the likelihood of recognized environmental conditions associated with the Property or adjacent properties.

In preparing this ECP report, CH2M HILL gathered information from the available records and previous work from others; interviews with individuals purporting to be familiar with the Property; and observations from a site reconnaissance. The accuracy of the information obtained from these sources was not verified by CH2M HILL. As such, CH2M HILL will make no warranty, expressed or implied, relative to the accuracy, completeness, or reliability of the information used to create the reports.

1.1 Purpose of Environmental Condition of Property

The Military Department with real property accountability shall assess, determine, and document the environmental condition of all transferable property in an ECP Report. This ECP Report is based on readily available information. Pursuant to the Department of Defense's (DoD) policy, set forth in the Base Redevelopment and Realignment Manual (BRRM) (DoD 4165.66-M, March 1, 2006) Section C8.3, the primary purposes of the ECP Report include the following:

- Provide the Army with information it may use to make disposal decisions.
- Provide the public with information relative to the environmental condition of the property.
- Assist in community planning for the reuse of Base Realignment and Closure (BRAC) property.
- Assist federal agencies during the property screening process.
- Provide information for prospective buyers.
- Assist prospective new owners in meeting the requirements under U.S. Environmental Protection Agency's (USEPA) "All Appropriate Inquiry" regulations.
- Provide information about completed remedial and corrective actions at the property.

- Assist in determining appropriate responsibilities, asset valuation, and liabilities with other parties to a transaction.

The ECP Report contains the information required to comply with the provisions of 40 Code of Federal Regulations (CFR) Part 373, which require that a notice accompany contracts for the sale of, and deeds entered into, for the transfer of federal property on which any hazardous substance was stored, released, or disposed of. The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Section 120(h) stipulates that a notice is required if certain quantities of designated hazardous substances have been stored on the property for 1 year or more—specifically, quantities exceeding 1,000 kg or the reportable quantity, whichever is greater, of the substances specified in 40 CFR 302.4 or 1 kilogram (kg) of acutely hazardous waste as defined in 40 CFR 261.30. A notice is also required if hazardous substances have been disposed of or released on the property in an amount greater than or equal to the reportable quantity. Army Regulation (AR) 200-1 requires that the ECP Report address asbestos, lead-based paint (LBP), radon, and other substances potentially hazardous to human health.

This ECP Report used the American Society for Testing and materials (ASTM) Designation D6008-96 (2005), *Standard Practice for Conducting Environmental Baseline Surveys*, the BRRM, CERCLA § 120, and AR 200-1.

1.2 Scope of Services

This ECP report covers the 3-acre USAR Center located at 1515 W. High Street, Springfield, Ohio. The Property is bounded by residential areas to the north and west of the facility. A newly constructed office complex is located to the east and the Pepsi Distribution Center is located to the south of the Property.

All site maps, figures, and aerial photographs referenced herein are provided in Appendix A, while Appendix B contains the photographs taken during the August 1, 2006, site reconnaissance. Appendix C contains the Property warranty deeds and chain of title information, and lease or permit agreements if applicable. Relevant historical environmental documents and reports are provided in Appendix D, while Appendix E contains the Environmental Data Resources, Inc. (EDR) radius search reports commissioned for this effort.

This ECP report classifies the property into one of seven DoD Environmental ECP categories as defined by the DoD policy defining the classifications (see Sherri Goodman Memorandum dated 21 October 2006). The property classification categories are as follows:

- ECP Area Type 1—An area or parcel of real property where no release or disposal of hazardous substances or petroleum products or their derivatives has occurred (including no migration of these substances from adjacent properties).
- ECP Area Type 2—An area or parcel of real property where only the release or disposal of petroleum products or their derivatives has occurred.

- ECP Area Type 3—An area or parcel of real property where release, disposal, or migration, or some combination thereof, of hazardous substances has occurred, but at concentrations that do not require a removal or remedial action.
- ECP Area Type 4—An area or parcel of real property where release, disposal, or migration, or some combination thereof, of hazardous substances has occurred and all remedial actions necessary to protect human health and the environment have been taken.
- ECP Area Type 5—An area or parcel of real property where release, disposal, or migration, or some combination thereof, of hazardous substances has occurred and removal or remedial actions, or both, are underway, but all required actions have not yet been taken.
- ECP Area Type 6—An area or parcel of real property where release, disposal, or migration, or some combination thereof, of hazardous substances has occurred, but required response actions have not yet been initiated.
- ECP Area Type 7—An area or parcel of real property that is unevaluated or requires additional evaluation.

Areas classified as Area Types 1 through 4, as defined above, are suitable for deed transfer to a nonfederal recipient, with respect to CERCLA 120(h) requirements.

2 Site Location and Physical Description

2.1 Site Location

The USAR Center is located in Clark County, in the City of Springfield, Ohio, at 1515 W. High Street. A site location map is available as Figure 1 in Appendix A. The 3-acre parcel is triangular shaped and situated between High Street and Dayton Road. Residential areas are located to the north and west of the Property. A newly constructed office complex is located to the east and the Pepsi Distribution Center is located to the south of the Property.

2.2 Asset Information

Facility Name and Address:	SFC Morgan L. Downs U.S. Army Reserve Center 1515 W. High Street Springfield, Ohio
Property Owner:	U.S. Government
Date of Ownership:	January 1957
Current Occupants:	656th Transportation Battalion Area Maintenance Support Activity
Zoning:	Commercial/Residential
County, State:	Clark, Ohio
U.S. Geographical Survey (USGS) Quadrangle(s):	Springfield
Section/Township/Range:	Northwest 1/4 of Section 4, Township 4, Range 9, in the city of Springfield. Assessors Parcel # 34-00600004106-1-001 and 34-0600004106-1-004
Latitude/longitude:	39° 55′ 29.6″N; 83° 50′8.2″W
Legal Description:	

Beginning at a spike at the intersection of the west line of said Section 4 with the south line of High Street; thence with the south line of High Street, south 86° 33' east, 435.00 feet to a bar which is 131 feet west of the west line of the Dayton Pike; thence south 3° 04' west 156.67 feet to a pipe; thence with the west line of the Dayton Pike, south 34° 36' west, 209.54 feet to a pipe at the intersection of the west line of the Dayton Pike with the north line of Washington Street; thence with the north line of Washington Street, north 86° 33' west, 323.50 feet to a pipe on the west line of said Section 4; thence with the west line of said Section, north 2° 44' east, 336.00 feet to the place of beginning. Containing 3.13 acres.

2.3 Physical Description

The USAR Center is located on a 3-acre parcel in Springfield, Ohio, and contains two permanent structures, a personally owned vehicle (POV) parking lot, and one military equipment parking (MEP) area. A site map is included as Figure 2 in Appendix A. The two structures are brick buildings that include a USARC Building and an Area Maintenance Support Activity (AMSA) Number 58 Building, which provides maintenance and major repairs for military vehicles stationed at multiple USAR Centers around the state.

USARC Building

The USARC Building functions as an administrative and drill facility for the USAR Center (Figure 3, Appendix A). The structure was constructed in 1957 as a rectangular building that rested on a concrete foundation with concrete block walls and a brick veneer. The USARC Building underwent an extensive renovation in 1986, when additional space was added to the south and east sections of the building, modifying it into a multiple-level irregular-shaped structure. A gray stucco façade was also installed on the exterior at that time. A recessed entrance containing a pair of glass pedestrian doors is located on the west side of the building. A tiled walkway leads from a POV parking area to the western entrance. Two sets of concrete stairs are located between the public sidewalk and the USARC Building on the west side of the building. Additional entrances include single and paired metal pedestrian doors located on the north, south, east, and west walls. A flat roof covers the structure.

Area Maintenance Support Activity Building

The AMSA Building functions as a full-service vehicle maintenance facility for the USAR Center (Figure 4, Appendix A) that supports many of the USAR Centers located in the State of Ohio. The structure was constructed in 1957 as a rectangular building that rested on a concrete foundation with concrete block walls and a brick veneer. The AMSA Building underwent an extensive renovation in 1986 when additional space was added, modifying it into a multiple-level rectangular structure. A gray stucco façade was also installed on the exterior at that time. Two metal overhead retractable bay doors are located on the north wall of the building. Additional entrances include single and paired metal pedestrian doors along the east and west walls. A flat roof covers the one-and-one-half-story maintenance bay, and a low-pitch shed roof covers the administration area.

2.4 Site Hydrology and Geology

The general topography of the Great Miami River Basin, where Clark County is located, is flat to gently rolling. The Great Miami River Basin is situated in a Pleistocene-age buried valley that follows the course of the river and reaches a width of up to 2 miles in the basin. The Great Miami River Valley and the adjoining upland areas are situated within the basin. The Great Miami River Valley and the adjoining upland areas are situated in the Till Plains Region of the Central Lowland physiological province, with the southern edge of the valley defining the boundary with the northern portion of the Bluegrass Section of the Interior Low Plateau. The till plains range in altitude from around 900 to 1200 feet above mean sea level, where the valley floor and floodplains range in altitude from about 650 to 900 feet above mean sea level. Excluding all valleys, other glacial features, such as kames and moraines, account for the variations in topography throughout the Great Miami River Drainage Basin. The hydrology of Clark County is dominated by the Great Miami River Drainage Basin. The Great Miami River, with its headwaters at Indian Lake in Logan Co. (Ohio), flows through seven southwestern Ohio counties before joining the Ohio River below the City of Cincinnati. The Great Miami River Basin is bordered by the Little Miami River Basin and the Scioto River basin on the east, the Maumee River basin on the north, the Wabash River Basin on the west, and the Mill Creek Basin and the Ohio River on the south.

2.4.1 Surface Water Characteristics

Figure 7 in Appendix A provides the 1966–1981 Springfield, Ohio, USGS topographic map, which includes the Property. As shown, the Property is situated at an elevation of approximately 979 feet above mean sea level and is relatively flat. The topography is somewhat flat on the northern part of the Property and has a steep slope on the southern part of the Property. Surface water flows to the west. Stormwater at the Property that does not infiltrate into the underlying soil generally flows via overland flow toward the west area of the property. Surface water eventually flows into the City of Springfield stormwater system. Additionally, a natural resources survey was performed at the USAR Center in 2005. Although a copy of the document was not supplied for review for this ECP report, USAR representatives state that the report documents that no wetlands are located on the Property.

2.4.2 Hydrogeological Characteristics

Groundwater occurrence in the Springfield area is strongly controlled by the glacial geologic deposits in the region. The principal aquifer in Springfield is a productive sand and gravel aquifer deposited in the former erosional valley of the ancestral Mad River. In the vicinity of the Property, groundwater production potential is limited due to the relatively low permeability of the glacial drift (principally till) overlying carbonate bedrock (Haubner et al., 2006)

2.5 Site Utilities

Water Service— The City of Springfield provides potable water service to the Property.

Sanitary Sewer System— The City of Springfield provides sanitary sewer service to the Property. The primary source of wastewater that is directed to the city sewer system includes nonprocess wastewater (bathrooms, sinks, etc.).

Gas and Electric— Columbia Gas of Ohio provides natural gas service to the Property, while Ohio Edison provides electric service to the Property.

2.6 Water Supply Wells and Septic Systems

Based upon a review of available historical site and agency records and interviews with site personnel, there are no water supply wells located currently or historically at the Property. Potable water is supplied by the City of Springfield. The City of Springfield has supplied potable water to the USARC and AMSA Buildings since they were constructed.

3 Site History

3.1 History of Ownership

A Historical Chain of Title Report for the Property and a Warranty Deed are included in Appendix C. The title report indicated that the property was purchased by the government in January 1957.

According to a city directory provided by EDR and dated July 24, 2006, the address of the USAR Center was first listed in the Polk City Directory in 2005. Subsequent city directory searches do not list the Property. Historical documentation supports the 1957 construction date. A copy of the city directory is included in Appendix E.

3.2 Past Uses and Operations

In 1957, the U.S. Government purchased the 3 acres of land for construction of the USARC and AMSA Buildings. In 1986, the facilities underwent significant renovation. The USARC Building has always served as a USAR Center and the AMSA Number 58 was relocated from Ft. Hayes Memorial USAR Center (Columbus, Ohio) in 1996.

The USARC Building is an administrative and educational facility, while the AMSA Building is used for heavy mechanical maintenance of military vehicles. The Property was historically used by reservists for drill activities on various weekends throughout the year. The AMSA Building was used to perform limited maintenance activities on military equipment. Activities inside the AMSA Building involved heavy vehicle maintenance activities and major engine overhaul activities for equipment sent to the Property from other USAR Centers.

Topographic maps (dated 1906, 1955, 1966, 1973, and 1981) and historical aerial photographs (dated 1956, 1968, 1987, 1998, and 2003) were the primary source of information on the past use and operations at the Property. Figures 5–14 in Appendix A provide USGS topographical maps and aerial views of the Property and surrounding areas.

The 1906 USGS topographic map (Figure 9 of Appendix A) shows the City of Springfield to be established and that the future location of the USAR Center is in the western area of the city. The 1955, 1966, 1970, and 1984 USGS topographic maps (Figures 5 through 8, in Appendix A) show the Property is in a well developed area, but little change is noted over time.

The 1956 aerial photographic quality (Figure 10, Appendix A) is poor, but shows the Property as having two small rectangular features that may be small buildings. The lot to the east is undeveloped, but the overall area is developed with residences, a school, and light industrial/commercial structures. The 1968 aerial photograph quality (Figure 11, Appendix A) is poor, but shows the Property developed with the USAR Center and the lot immediately east of the Property has a small structure on it. In general, the surrounding area shows similar development as in 1956.

The 1987, 1998, and 2003 aerial photographs (Figures 12, 13, and 14, Appendix A) show the Property after the renovation activities, the undeveloped property to the southeast, and the residential and light industrial propertied in the area. According to AMSA Number 58, the construction of the office complex on the vacant property to southeast of the USAR Center was completed just prior to the site visit on August 1, 2006.

3.3 Past Use, Storage, Disposal, and Release of Hazardous Substances

3.3.1 Past Use and Storage of Hazardous Substances

Information related to the past use and storage of hazardous substances at the Property was compiled through review of available site records, search of federal and state environmental databases, and interviews with Army Reserve personnel. Chemicals formerly used and stored at the Property were associated with vehicle and facility maintenance activities, and janitorial services. Vehicle maintenance products and petroleum, oil, and lubricant (POL) products were stored in designated areas within the AMSA Building.

Certain types of chemical products used and stored at the Property would have contained CERCLA hazardous substances and would have been stored on a rotational basis in amounts necessary to support the unit through direct support level maintenance. However, there is no evidence that CERCLA hazardous substances were stored at the Property for 1 year or more in excess of corresponding reportable quantities.

3.3.2 Past Disposal and Release of Hazardous Substances

Information related to past disposal and potential release of hazardous substances at the Property was compiled through review of available site records, search of federal and state environmental databases, and interviews with Army Reserve personnel. Disposal of hazardous materials and hazardous waste had been accomplished through the Defense Reutilization and Marketing Office or an authorized vendor, such as Safety-Kleen. No stained soil or stressed vegetation was observed during the August 2006 site reconnaissance. Additionally, the MEP area and POV parking area did not show any signs of staining and no noxious or foul odors were noted during the site reconnaissance.

3.4 Past Presence of Bulk Petroleum Storage Tanks

Based upon a review of available site records, a search of federal and state environmental databases, and interviews with Army Reserve personnel, it does not appear that any underground storage tanks (USTs) are currently or were formerly located at the Property, nor was any evidence of any USTs observed during the site reconnaissance. A 250-gallon aboveground storage tank (AST) was maintained on the Property and used to store used oil. There was no evidence of a release at the time of the site visit.

3.5 Review of Previous Environmental Reports

A review of site records produced several reports pertaining to the Property. The following subsections provide a brief summary of these reports. Copies of the reports, unless otherwise specified, are provided in Appendix D.

3.5.1 1998 Oil/Water Separator Evaluation Report

Jones Technology, Inc. prepared an oil/water separator (OWS) evaluation report for numerous USAR sites within the State of Ohio, including the USAR Center, in 1997. As part of the reporting process, Jones Technology, Inc. was responsible for documenting and locating each OWS at USAR Centers throughout Ohio. The report states that an OWS was located at the site in the MEP area or near the AMSA Building, but no UST was present. The OWS report in Appendix D states that the OWS is in compliance and in good condition.

3.5.2 Cultural Resources Report

A Section 110 cultural resources survey report for the Property was prepared for the 88th Regional Readiness Command (RRC) by the SFC Morgan L. Downs Archaeological laboratory in December 1998-December 1999. The purpose of the survey and subsequent report was to inventory all properties controlled or leased by the 88th RRC in the State of Ohio. Historical information, setting and landscape, cultural resources, security, architectural information, and structure descriptions are included for each property. Each site was also assessed for its eligibility to the National Register of Historic Place (NRHP). No facilities at the USAR Center were identified as eligible for listing on the NRHP.

3.5.3 2004 Oil/Water Separator Closure Report

Jones Technology, Inc. removed trench drains that supported a wash rack located in the MEP area. Prior to the removal of the drainage system, the liquid/sludge was removed from the trenches, drains, and OWS and the components were power washed. The OWS was left in place and now supports the floor drains from the AMSA Building.

3.5.4 2005 Environmental Survey Report: Asbestos, PCB, Lead-based Paint, and Radon Survey

ITI of South Florida, Inc. prepared an Environmental Survey Report in June 2005 for the USAR Center. Only the USARC and AMSA Buildings were included in the surveys. Potential types, quantities, locations, and conditions of asbestos, polychlorinated biphenyls (PCBs), LBP, and radon were examined in the report. The survey confirmed that LBP was not found present in the USARC Building. However, LBP was found in the yellow stripes on the floor of the bay area in the AMSA Building along with the tan overhead door, door casings, and door jambs. Asbestos-containing pipe insulation, pipe fitting insulation, and water tank insulation in the mechanical room of the USARC Building were identified as asbestos-containing material (ACM) along with white exterior caulking. More ACM was found in the AMSA Building. Roofing materials, fire doors, and electrical wiring in both buildings were suspected to contain asbestos, but not confirmed. The ACM was not found to be friable. Light ballasts were observed during the PCB survey in both buildings (three in the USARC Building and one in the AMSA Building) and a concrete slab-mounted

transformer was noted at the AMSA Building. One of the ballasts in the USARC Building and the transformer did not have labeling indicating the absence or presence of PCBs. The remaining units have "No PCB's" labels. All measured radon levels in the USARC Building were below the USEPA-recommended action level of 4 picoCuries per liter (pCi/L) of air.

3.5.5 2005 88th RRC Natural Resources Survey—Ohio

Parsons prepared a Natural Resources Survey for Ohio in September 2005. According to the survey there are no wetlands on or in the immediate vicinity of the property. Wildlife observed at the facility included songbirds and gray squirrels. The survey also stated that because the area is intensively developed, there is little natural habitat remaining. Only urban wildlife is expected to be present on the facility. There are no potential habitats for threatened or endangered species and no natural resource management issues were observed.

4 Adjacent Properties

Adjacent property land uses are significant to the ECP process, as these current or past uses may have an environmental impact on the USAR Center. Adjacent properties were included in the EDR report review for this reason. Typically adjacent properties within 0.25 mile of the USAR Center property boundaries are reviewed and visually surveyed. For the purposes of this ECP, the adjacent property reconnaissance was performed from the USAR Center property boundaries and from public access points. Historical aerial photographs and topographic maps are also reviewed for conditions or activities that may have had an environmental impact on the Property.

4.1 Land Uses

The Property is situated between High Street and Dayton Road. Residential areas are located to the north and west of the Property. The large residential area with commercial properties is not discussed in the EDR report. A newly constructed office complex is located to the southeast and the Pepsi Distribution Center is located to the south of the Property.

Table 1 summarizes the current adjacent properties, their owners, and zoning.

TABLE 1
List of Properties Adjacent to the USAR Center
SFC Morgan L. Downs USAR Center, Springfield, Ohio

Name/Type of Property	Address	Distance and Direction from Property	Zoning	Remarks
Pepsi-Cola Bottlers of Springfield	233 Dayton Ave	Less than 0.125 mile South Southwest	Industrial	None
Office Building	Dayton Ave	Across the street to southeast	Unknown	The facility was newly constructed and not yet occupied. Owner unknown.
Large Residential Area with Commercial Properties located throughout the area	Various	To the north and west	Unknown	The area is residential with various stores, churches, and restaurants in the area.

4.2 Findings

The EDR database search results were reviewed for any evidence that adjacent properties may have past or present environmental issues that would impact the USAR Center.

The property located to the south, Pepsi Bottling, was listed as a leaking UST (LUST) site while the facility was under different ownership. Six unregulated USTs were removed and a no further action (NFA) letter was issued for the site. Pepsi Bottling is located in a possible

upgradient direction from the property (south), however, the LUST issue has been closed out with Bureau of Underground Storage Tank Regulations (BUSTR) and poses no risk to the Property.

Water well databases at the federal and state level were reviewed to identify any water supply source near the Property. The state database identified eight water supply sources located between 0.25 and 0.5 miles. Four of the wells belonged to the City of Springfield, and the remaining to industrial/commercial operations. None of the wells are used for the supply of public water systems.

5 Review of Regulatory Information

An essential component of an ECP is the review of records and databases containing information on the Property and adjacent properties. The review includes reasonably obtainable federal, state, and local government records, and is intended to identify a release or likely release of any hazardous substance or any petroleum product that is likely to cause or contribute to a release or threatened release of any hazardous substance or any petroleum product to the Property.

The majority of the regulatory information for this ECP was obtained from EDR on August 1, 2006. EDR provides a regulatory database summary that consolidates standard federal, state, local, and tribal environmental record sources based on ASTM-recommended minimum search distances from the Property.

All findings reported in Sections 5.1, 5.2, and 5.3 below are from the EDR report unless otherwise noted. A copy of the complete EDR report is included in Appendix E.

5.1 Federal Environmental Records

5.1.1 Federal National Priorities List Sites within 1 Mile

The USAR Center is not a National Priorities List (NPL) site, nor were any such sites located within 1 mile of the Property.

5.1.2 Federal Comprehensive Environmental Response, Compensation and Liability Act Information Systems Sites within 0.5 Mile

The CERCLA Information System (CERCLIS) contains data on potentially hazardous waste sites that have been reported to USEPA by state, municipalities, private companies, and private persons, pursuant to Section 103 of the Act. CERCLIS contains sites that are either proposed to be or are on the NPL and sites that are in the screening and assessment phase for possible inclusion on the NPL.

The USAR Center is not a CERCLIS site.

One adjacent property owner is listed under the CERCLIS database. Springfield Armature Works is located within 0.125 mile of the USAR Center, approximately 402 feet northwest of the Property. The nature of the violation was not provided in the EDR report, however, the property status under CERCLIS is currently No Further Remedial Action Planned (NFRAP).

5.1.3 Resource Conservation and Recovery Act Corrective Action Sites within 1 Mile

Resource Conservation and Recovery Act (RCRA) corrective action (CORRACTS) sites represent facilities that have generated or managed hazardous wastes and require corrective action.

The USAR Center is not a CORRACTS site, nor were any such sites identified within 1 mile of the USAR Center.

5.1.4 RCRA Transport, Treatment, and/or Disposal Sites within 0.5 Mile

RCRA defines and regulates sites that generate, transport, or provide treatment, storage, or disposal (TSD) of hazardous wastes. The RCRA Information System (RCRIS) includes selective information on these sites.

The USAR Center is not a RCRIS-TSD site.

One adjacent property owner is a RCRIS-TSD site. Moyno, Inc. is located within a 0.25 mile of the USAR Center, approximately 1870 feet southwest of the Property. The site has 38 RCRA violations reported, according to the EDR report. The violations cited in the EDR report were in the areas of improper manifesting, lack of paperwork, and lack of contingency planning. Violations have no impact on the Property.

5.1.5 Federal RCRA Small and Large Quantity Generators List within 0.25 Mile

Conditionally exempt small quantity generators (CESQGs) are defined as facilities generating less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. RCRA small quantity generators are defined as facilities generating between 100 kg and 1,000 kg of hazardous waste per month. A facility generating more than 1,000 kg of hazardous waste or over 1 kg of acutely hazardous waste per month is defined as a large quantity generator.

The USAR Center is listed as having RCRA-registered CESQG status. No RCRA violations are associated with the USAR Center.

Five adjacent property owners are RCRA-registered small quantity generators and are located within 0.25 mile of the USAR Center. Parker Sweeper Co. is located approximately 237 feet northeast of the Property; Dynex Industries, Inc., approximately 595 feet northeast; Ziebart, approximately 647 feet northwest; Ace Body Shop, approximately 655 feet east-northeast; and Moore's PBE, Inc., 912 feet west-northwest. No RCRA violations were noted for any of these sites.

One large quantity generator is located within 0.25 mile of the USAR Center. Glasgo Plastics, Inc. is located approximately 1192 feet east-northeast of the USAR Center. No RCRA violations were noted for that site.

5.1.6 Federal Emergency Response Notification System List

The Emergency Response Notification System List maintains information on reported releases of oil and hazardous substances. The USAR Center was the only property searched on this database and is not on this notification list.

5.2 State and Local Environmental Records

Most of the information presented in this subsection was obtained from the EDR report. Additional information was also obtained from online database searches of the Ohio

BUSTR. Occasionally state and local agency personnel were interviewed by telephone to answer questions about any database issues.

5.2.1 State Lists of Hazardous Waste Sites within 1 Mile

The State of Ohio does not maintain a list of hazardous waste sites. It uses the federal CERCLIS database for identification purposes.

5.2.2 State-Registered Landfills or Solid Waste Disposal Sites within 0.5 Mile

The USAR Center does not have a solid waste landfill, incinerator, or transfer station within the Property boundaries.

No adjacent properties within 0.25 mile of the USAR Center have a solid waste landfill, incinerator, or transfer station.

5.2.3 State-Registered Leaking UST Sites within 0.5 Mile

In addition to information obtained from the EDR report, the Ohio BUSTR maintains a comprehensive database of LUST sites. The USAR Center is not listed in the state LUST database.

However, within 0.5 mile of the USAR Center, 13 LUST sites in various stages of closure were identified. Table 2 summarizes their information relative to the Center, and provides the status of their corrective action. Pepsi-Cola Bottlers of Springfield is the only one of these sites located in a general upgradient direction from the USAR Center, but has been closed with NFA status indicating that the State of Ohio has determined it does not pose a risk to human health and the environment and, therefore, will not have an environmental impact on the USAR Center. All other sites are downgradient from the USAR Center and, therefore, possible offsite migration from these sites will not impact the Property.

TABLE 2
Nearby Leaking Underground Storage Tank Sites
SFC Morgan L. Downs USAR Center, Springfield, Ohio

Company/Site	Address	Distance and Direction from Property	Regulatory Status	Elevation Relative to Property
Pepsi-Cola Bottlers of Springfield	233 Dayton Ave.	Approx 561 ft south-southwest	NFA	33 ft. Higher
R&R Takmar Operations Inc.	1533 W. North St.	Approx. 1,319 ft north	NFA	31ft. Lower
Wells 76	1721 W. North St.	Approx. 1,530 ft. north-northwest	Active-Tier 2	40 ft. Lower
Kelsey Hays/Specto Dem Site	1205 W. Columbia St.	Approx. 1,622 ft. northeast	NFA	22 ft. Lower
Speedway #1155	1301 W. North St.	Approx. 1,713 ft. northeast	Release Disproved	30 ft. Lower
Rewey Rent-A-Car	1801 W. North St.	Approx. 1,767 ft.	NFA	40 ft. Lower

TABLE 2
Nearby Leaking Underground Storage Tank Sites
SFC Morgan L. Downs USAR Center, Springfield, Ohio

Company/Site	Address	Distance and Direction from Property	Regulatory Status	Elevation Relative to Property
		northwest`		
Robbins & Myers Inc.	1895 W. Jefferson Ave.	Approx. 1,870 ft. west-southwest	NFA	26 ft. Lower
Speedway #8916	1241 W. North St.	Approx. 1,892 ft. northeast	Release Disproved	29 ft. Lower
Former Marathon	1875 W. North St.	Approx. 1,934 ft. northwest	NFA	40 ft. Lower
W.A. Stevens	125 W. Walter St.	Approx. 1,977 ft. west	NFA	41 ft. Lower
Former Bonded Bulk Plant 1098	2000 W. Jefferson St.	2,130 ft. west-southwest	NFA	37 ft. Lower
Columbia Gas of Ohio, Inc.	2101 W. Main St.	Approx. 2,461 ft. west-northwest	Active-Tier 2	52 ft. Lower
BP Oil Co. #22797	2112 W. Main St.	Approx. 2,493 ft. west-northwest	One tank is listed as NFA and the second is Active-Tier 2	52 ft. Lower

Notes: Active/Tier – Corrective Action Plan

5.2.4 State-Registered UST Sites within 0.5 Mile

A review of the EDR report and the state of Ohio's BUSTR database indicated that one UST site was identified within 0.5 mile of the USAR Center. Table 3 lists the site along with the tank's status. The Property itself was not listed in the state UST database.

Four USTs are located at R&R Takmar Operations, Inc. Two of the USTs contain gasoline while the remaining two USTS contain diesel fuel and Kerosene. The tanks range in size from 5,929 gallons to 11,627 gallons and are constructed of fiberglass-reinforced plastic. There has been one documented release at the R&R Takmar Operations property, but the regulatory agency issued a NFA letter pertaining to this release.

Based upon the condition of the USTs present at the properties and the NFA status of the one release documented at the site, the property is not considered to present an environmental risk to the USAR Center. Additionally, the property is located topographically downgradient from the USAR Center.

TABLE 3
Nearby Underground Storage Tank Sites
SFC Morgan L. Downs USAR Center, Springfield, Ohio

Company/Site	Address	Distance and Direction from Property	Tank Status	Closure Status	Elevation Relative to Property
R&R Takmar Operations Inc.	1533 W. North St., Springfield, OH 45506	Approx. 1,319 ft north	4 tanks, currently active	NFA	Lower

5.2.5 State Spills Incidents

The USAR Center is the only property searched on this database and it is not listed on the Ohio state petroleum spill list.

5.2.6 Records of Contaminated Public Wells

The City of Springfield operates four wells within 0.5 mile of the USAR Center, however, none of the wells are used for the municipal water supply system.

The EDR report identified eight water supply sources located approximately 0.5 mile from the USAR Center. No records of any contamination of these supply wells were found.

5.2.7 Voluntary Remediation Program Sites within 0.5 Mile

The USAR Center is not listed in the Ohio EPA Voluntary Action Program (VAP) list. One site located within 0.5 mile of the USAR Center is listed as being in the VAP Program. Speco Kelsey-Hayes Mfg. is located approximately 1,622 feet downgradient (north) from the USAR Center. Since the property is located topographically lower than the USAR Center, it is not expected to be impacted by that site.

5.2.8 State Registered Bulk Fertilizer and Pesticide Storage Facilities within 0.25 Mile

The USAR Center is not registered with the state as a bulk fertilizer and pesticide storage facility. Additionally, no adjacent properties within 0.25 mile were registered as one of these facilities.

5.3 Unmapped Sites

Some sites within the databases EDR searches have the same zip code as the USAR Center, but no street address. These sites, known as unmapped or orphan sites, can not be mapped from the EDR results alone. Additional efforts described herein were made to locate these sites and assess their environmental importance to the USAR Center.

Using the mapping utility provided at maps.google.com, the locations of the orphan sites were identified and mapped. Two of the sites, Wal-Mart Supercenter Number 2429 and Buck Creek Development Area, are located within the corresponding ASTM search radius distance. The facilities are not listed on any other federal, state, or local environmental databases searched during the data gathering process.

5.4 Summary of Properties Evaluated to Determine Risk to the Property

To summarize Subsections 5.1 through 5.3, 20 separate properties, near or adjacent to the USAR Center, were evaluated as potential risk properties to the Property. These adjacent properties evaluated were identified as a result of information obtained during area reconnaissance, interviews, and regulatory database searches, and are summarized below in Table 4.

Based on an evaluation of available site information and details concerning the properties listed in Table 4, none of the facilities evaluated exhibit significant environmental conditions that have the probability of adversely affecting the environmental conditions at another site.

TABLE 4
Nearby Potential Risk Properties
SFC Morgan L. Downs USAR Center, Springfield, Ohio

Company/Site	Database	Elevation Relative to Property?	Potential Impact on the Property?
Parker Sweeper	RCRA-small quantity generator	3 ft. Lower	None
Pepsi-Cola Bottlers of Springfield	LUST	33 ft. Higher	None
Dynex Industries, Inc.	RCRA- small quantity generator	15ft. Lower	None
Ziebart	RCRA- small quantity generator	27 ft. Lower	None
Ace Body Shop	RCRA- small quantity generator	15 ft. Lower	None
Moores PBE Inc	RCRA- small quantity generator	28 ft. Lower	None
Glasco Plastics Inc.	RCRA-large quantity generator	19 ft. Lower	None
R&R Takmar Operations Inc.	LUST, UST	31ft. Lower	None
Wells 76	LUST	40 ft. Lower	None
Kelsey Hays/Speco Dem Site	LUST	22 ft. Lower	None
Speedway #1155	LUST	30 ft. Lower	None
Rewey Rent-A-Car	LUST	40 ft. Lower	None
Robbins & Myers Inc.	LUST	26 ft. Lower	None
Moyno Inc	RCRA- small quantity generator, RCRA-TSD Facility	26 ft. lower	None
Speedway #8916	LUST, UST	29 ft. Lower	None
Former Marathon	LUST	40 ft. Lower	None
W.A. Stevens	LUST	41 ft. Lower	None
Former Bonded Bulk Plant 1098	LUST	37 ft. Lower	None
Columbia Gas of Ohio, Inc.	LUST	52 ft. Lower	None
BP Oil Co. #22797	LUST, UST	52 ft. Lower	None

6 Site Investigation and Review of Hazards

Findings documented in the following subsections are based on the August 1, 2006, site reconnaissance, a review of available site records, and information obtained from USAR personnel.

6.1 USTs/ASTs

No USTs have been located at the USAR Center but a 250-gallon AST for used-oil storage is located on the property.

6.2 Inventory of Chemicals/Hazardous Substances

Records pertaining to hazardous substances including hazardous materials, chemical bulk storage, petroleum products, hazardous waste, and petroleum waste were reviewed in addition to interviews and the site reconnaissance to develop the inventory for this Property. Hazardous materials were observed in flammable lockers in the USARC Building, the AMSA Building, and the hazardous material storage shed observed in the MEP area, between the USARC and AMSA Buildings.

Information pertaining to the review of past use and storage of hazardous substances at the Property was compiled through review of available site records, search of federal and state environmental databases, and interviews with Army Reserve personnel. Available records indicate that chemicals formerly used and stored at the Property were associated with vehicle and facility maintenance activities, and janitorial services. Vehicle maintenance products and small amounts of POL products were stored within designated areas within the AMSA Building. There was no visual evidence indicating that a spill occurred in or around the storage area/shed. There is no evidence that hazardous substances above reportable quantities were stored for 1 year or more, released, or disposed of at the Property.

6.3 Waste Disposal Sites

Available records and interviews did not indicate the practice of onsite waste disposal other than through managed storage and offsite disposal.

No waste disposal sites were observed during the site reconnaissance, nor were any signs of past onsite waste disposal (such as stressed vegetation or suspicious depressions in the landscape) observed.

6.4 Pits, Sumps, Drywells, and Catch Basins

One OWS is in place and in operation at the site. According to AMSA Number 58, the OWS was originally tied to a wash rack that had been removed from the site. The OWS is

currently attached to the drainage system from the AMSA Building. After the wash rack was removed and the OWS cleaned out in 2004, it was returned to use and is still being used to treat water originating from floor drains in the AMSA Building. There is no readily available information regarding maintenance or inspection of the OWS since that time.

AMSA Number 58 reported and site observations revealed a sump located in the battery acid room in the AMSA Building. The cleanout for the sump was located just outside the battery acid room on the sidewalk. According to AMSA Number 58, the battery acid room has never been used for anything other than storage of batteries and no spills are reported to have occurred in the room. No documents were present to support these statements.

Site records did not indicate the existence or past existence of any other pits, sumps, drywells, or catch basins.

6.5 Asbestos-containing Material

A site-specific ACM survey was conducted at the USAR Center as part of the *2005 Environmental Survey Report – Asbestos, PCB, Lead Based Paint, and Radon Surve*y. Asbestos-containing pipe insulation, pipe fitting insulation, and water tank insulation in the mechanical room of the USARC Building were identified as ACM along with white exterior caulking. More ACM was found in the AMSA Building. Roofing materials, fire doors, and electrical wiring in both buildings were suspected to contain asbestos, but not confirmed. (ITI of South Florida, 2005) The ACM was not found to be friable.

6.6 PCB-containing Equipment

A site-specific PCB survey was conducted at the USAR Center as part of the *2005 Environmental Survey Report – Asbestos, PCB, Lead Based Paint, and Radon Surve*y. Light ballasts were observed during the PCB survey in both buildings (three in the USARC Building and one in the AMSA Building) and a concrete slab-mounted transformer was noted at the AMSA Building. One of the ballasts in the USARC Building and the transformer did not have labeling indicating the absence or presence of PCBs. The remaining units have "No PCB's" labels (ITI of South Florida, 2005). Attempts were made to contact the local utility supplier, Ohio Edison, but without success. Any light ballast not marked with "No PCBs" is assumed to contain PCBs and management and disposal of these light ballasts must be in accordance with local, state, and federal requirements.

6.7 Lead-based Paint

A site-specific LBP survey was conducted at the USAR Center as part of the *2005 Environmental Survey Report – Asbestos, PCB, Lead Based Paint, and Radon Surve*y. The survey confirmed LBP was not found in the USARC Building. However, LBP was found in the yellow stripes on the floor of the bay area in the AMSA Building along with the tan overhead door, door casings, and door jambs. (ITI of South Florida, 2005)

6.8 Radon

A site-specific radon survey was conducted at the USAR Center as part of the *2005 Environmental Survey Report – Asbestos, PCB, Lead Based Paint, and Radon Survey*. Passive detection equipment was installed throughout the USARC and AMSA Buildings to determine levels of radon gas. Based on the sampling results, no sample locations exhibited radon levels above the USEPA residential action level of 4 pCi/L (ITI of South Florida, 2005).

6.9 Munitions and Explosives of Concern

Based on a review of available records, the site reconnaissance, and interviews with USAR Center personnel, there are no indications that munitions and explosives of concern (MEC) are or were present at the Property.

6.10 Radioactive Materials

Based on the site inspection and site personnel, calibration equipment with enclosed sources has been present on the site, but no releases of radiological materials are known to have occurred.

7 Review of Special Resources

7.1 Land Use

The City of Springfield has designated this Property and surrounding properties as Residential/Commercial/Industrial. The Property is located in a mixed-used area that combines commercial, industrial, and residential land uses.

7.2 Coastal Zone Management

This Property is not included in the coastal zone management plan, nor is it in a coastal zone.

7.3 Wetlands

According to the 1988 U.S. Fish and Wildlife Service National Wetlands maps (Figure 15, Appendix A) and visual observations, no wetlands were observed on the Property, or on adjacent properties. In addition, a natural resource survey conducted in 2005 indicates that no wetlands are present on the property.

7.4 100-year Floodplain

A review of the Federal Emergency Management Agency (FEMA) digital Flood Hazard Area map and the 2005 natural resources survey indicates that the Property is not within the 100-year floodplain. Figure 16 in Appendix A provides a map of the 100-year floodplain elevations located in the immediate vicinity of the Property. According to USAR personnel, a natural resources survey was performed in 2005. The report was not submitted for review for this ECP, but USAR personnel have indicated that the document verifies that the Property does not fall within the 100-year floodplain.

7.5 Natural Resources

A natural resource survey was completed in 2005 for the Property. The survey stated that because the area is intensively developed, there is little natural habitat remaining. Only urban wildlife is expected to be present on the facility. There are no potential habitats for threatened or endangered species and no natural resource management issues were observed.

7.6 Cultural Resources

A Section 110 cultural resources survey report for the Property was prepared for the 88th RRC by the Fort McCoy Archaeological Laboratory in December 1998–December 1999. The purpose of the survey and subsequent report was to inventory all properties controlled or

leased by the 88th RRC in the State of Ohio. Historical information, setting and landscape, cultural resources, security, architectural information, and structure descriptions are included for each property. Each site was also assessed for its eligibility to the NRHP. The site was not found to be eligible for the NRHP. Appendix D provides a copy of the Section 110 survey report.

7.7 Other Special Resources

Currently Ohio has 12 river systems included as components of the State Scenic Rivers Program totaling 21 individual stream segments. The closest of these rivers is the Great Miami River. Based on the location of the Wild and Scenic Rivers (WSRs) and historical activities conducted at the USAR Center, no activities conducted at the site would adversely impact any of the designated WSRs.

8 Conclusions

The following information was obtained after conducting an environmental record search including records for adjacent properties, reviewing available historical information, conducting interviews with knowledgeable parties connected with the Property or with state and local agencies, and conducting a reconnaissance of the Property and adjacent properties.

8.1 Environmental Condition of Property

Findings of this ECP report were based on readily available environmental information; interviews with site, state, and local personnel; review of previous environmental studies; and federal and state database and file information related to the storage, release, treatment, or disposal of hazardous substances or petroleum products. Results also were based on visual observations of the Property and adjacent properties.

In accordance with DoD policy defining the classifications (see Sherri Goodman Memorandum dated 21 October 1996), the Property has been classified into one of seven property types. Based on the results of this ECP study, the property has been assigned an overall DoD Environmental Condition Type 1, an area or parcel of real property where no release or disposal of hazardous substances or petroleum products or their derivatives has occurred (including no migration of these substances from adjacent properties). The category was assigned despite identifying an active OWS at the Property. The OWS collects wash fluids that include POLs, cleaning solvents used in the cleaning of vehicle components, and antifreeze. CH2M HILL's review of reasonably available documentation indicated no records that visual observations or sampling has been conducted to assess whether the OWS has failed.

8.2 Major Findings

- No recognized environmental conditions were identified on the subject Property
- There is no past evidence that chemicals, used or stored at the Property were improperly released or disposed of on the Property.
- No staining or stressed vegetation was noted on the Property.
- None of the adjacent properties evaluated exhibited environmental conditions that had or have the potential to adversely affect environmental conditions at the Property.

9 References

Persons Contacted

- Mr. Dave Ayers, Ohio State Environmental Manager, 88th Regional Readiness Command (614- 693-9547), August 1, 2006
- Mr. John B. Frederick, Shop Supervisor/Maintenance Officer, AMSA #58, 937.322.9569 ext. 2

Resources Consulted

- Aerial Photographs provided by Environmental Data Resources dated 1956, 1968, 1987, 1998, and 2003.
- National Wild and Scenic Rivers, http://www.nps.gov/rivers/wildriverslist.html#ny
- FEMA Flood Hazard Insurance Map, http://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView
- U.S. Fish and Wildlife Service National Wetlands Inventory maps
- Federal Regulatory Databases
  - **NPL** National Priority List
  - **Proposed NPL** Proposed National Priority List Sites
  - **Delisted NPL** National Priority List Deletions
  - **NPL RECOVERY** Federal Superfund Liens
  - **CERCLIS** Comprehensive Environmental Response, Compensation, and Liability Information System
  - **CERC-NFRAP** CERCLIS No Further Remedial Action Planned
  - **CORRACTS** Corrective Action Report
  - **RCRA-TSDF** Resource Conservation and Recovery Act Information
  - **ERNS** Emergency Response Notification System
  - **HMIRS** Hazardous Materials Information Reporting System
  - **US ENG CONTROLS** Engineering Controls Sites List
  - **US INST CONTROL** Sites with Institutional Controls
  - **DoD** Department of Defense Sites
  - **FUDS** Formerly Used Defense Sites
  - **US BROWNFIELDS** A Listing of Brownfields Sites
  - **CONSENT** Superfund (CERCLA) Consent Decrees
  - **ROD** Records Of Decision
  - **UMTRA** Uranium Mill Tailings Sites
  - **ODI** Open Dump Inventory
  - **TRIS** Toxic Chemical Release Inventory System
  - **TSCA** Toxic Substances Control Act
  - **FTTS** FIFRA/ TSCA Tracking System—FIFRA (Federal Insecticide, Fungicide, &

  - Rodenticide Act)/TSCA (Toxic Substances Control Act)
  - **SSTS** Section 7 Tracking Systems
  - **ICIS** Integrated Compliance Information System
  - **PADS** PCB Activity Database System
  - **MLTS** Material Licensing Tracking System
  - **MINES** Mines Master Index File
  - **RAATS** RCRA Administrative Action Tracking System

- State and Local Regulatory Databases

  - **SHWS** This state does not maintain a SHWS list. See the Federal CERCLIS list and
  - Federal NPL list.
  - **TOWNGAS** DERR Towngas Database
  - **SWF/LF** Licensed Solid Waste Facilities
  - **HIST LF** Old Solid Waste Landfill
  - **ARCHIVE UST** Archived Underground Storage Tank Sites
  - **OH Spills** Emergency Response Database
  - **ENG CONTROLS** Sites with Engineering Controls
  - **INST CONTROL** Sites with Institutional Engineering Controls
  - **VCP** Voluntary Action Program Sites
  - **DRYCLEANERS** Drycleaner Facility Listing
  - **BROWNFIELDS** Ohio Brownfield Inventory
  - **CDL** Clandestine Drug Lab Locations
  - **NPDES** NPDES General Permit List
  - **USD** Urban Setting Designation Sites
  - **HIST INST CONTROLS** Institutional Controls Database
  - **HIST ENG CONTROLS** Operation & Maintenance Agreements Database
  - **HIST USD** Urban Setting Designations Database

Works Cited

Fort McCoy Archaeological Laboratory. 1998-1999. Section 110 Cultural Resources Survey Report.

Goodman, Sherri. 2996. Memorandum. October.

Haubner, M.E., A.W. Jones, K.M. Boone, L.C. Brown. 2006. Clark County Ground-Water Resources. AEX-490.12. Ohio State University Extension Food, Agricultural and Biological Engineering. http://ohioline.osu.edu/aex-fact/0490_12.html. Accessed September 26, 2006.

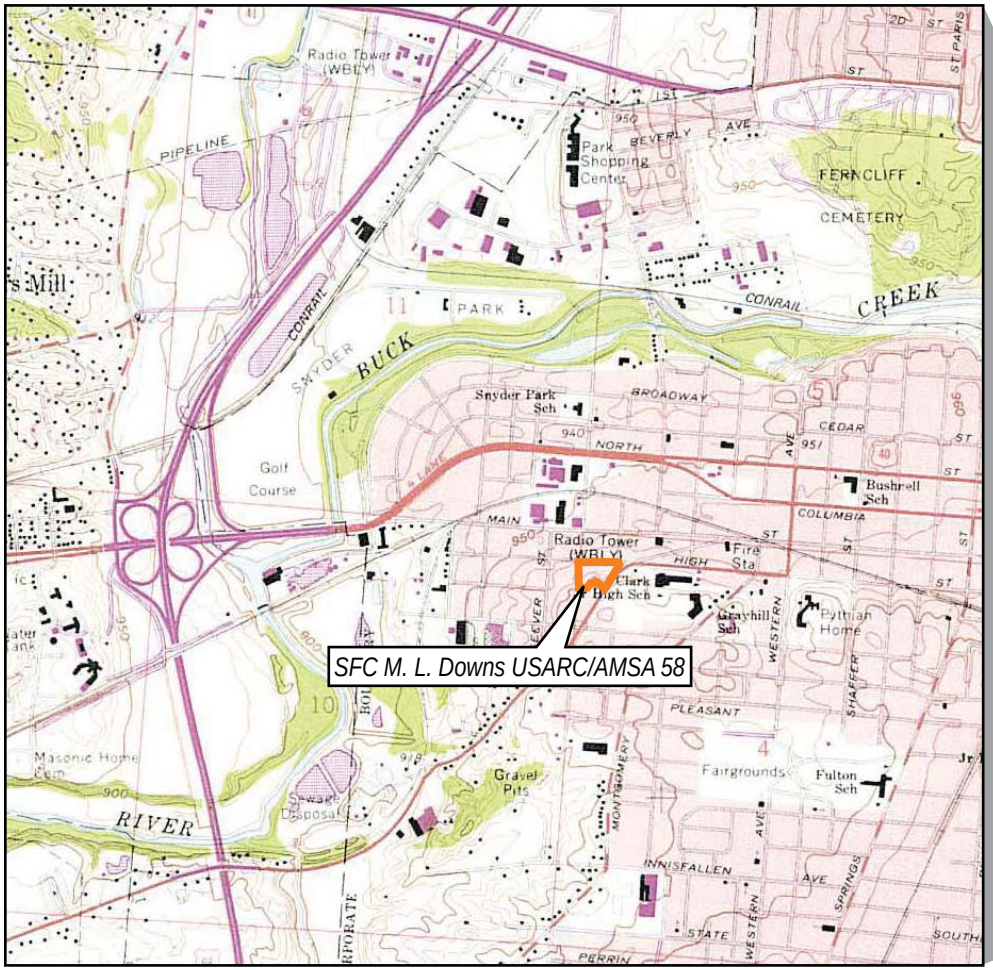
ITI of South Florida, Inc. 2005. Environmental Survey Report.

Jones Technology, Inc. 1997. OWS Evaluation Report.

Jones Technology, Inc. 2004. OWS Closure Report.

Parsons. 2005. *88th RRC Natural Resources Survey.*

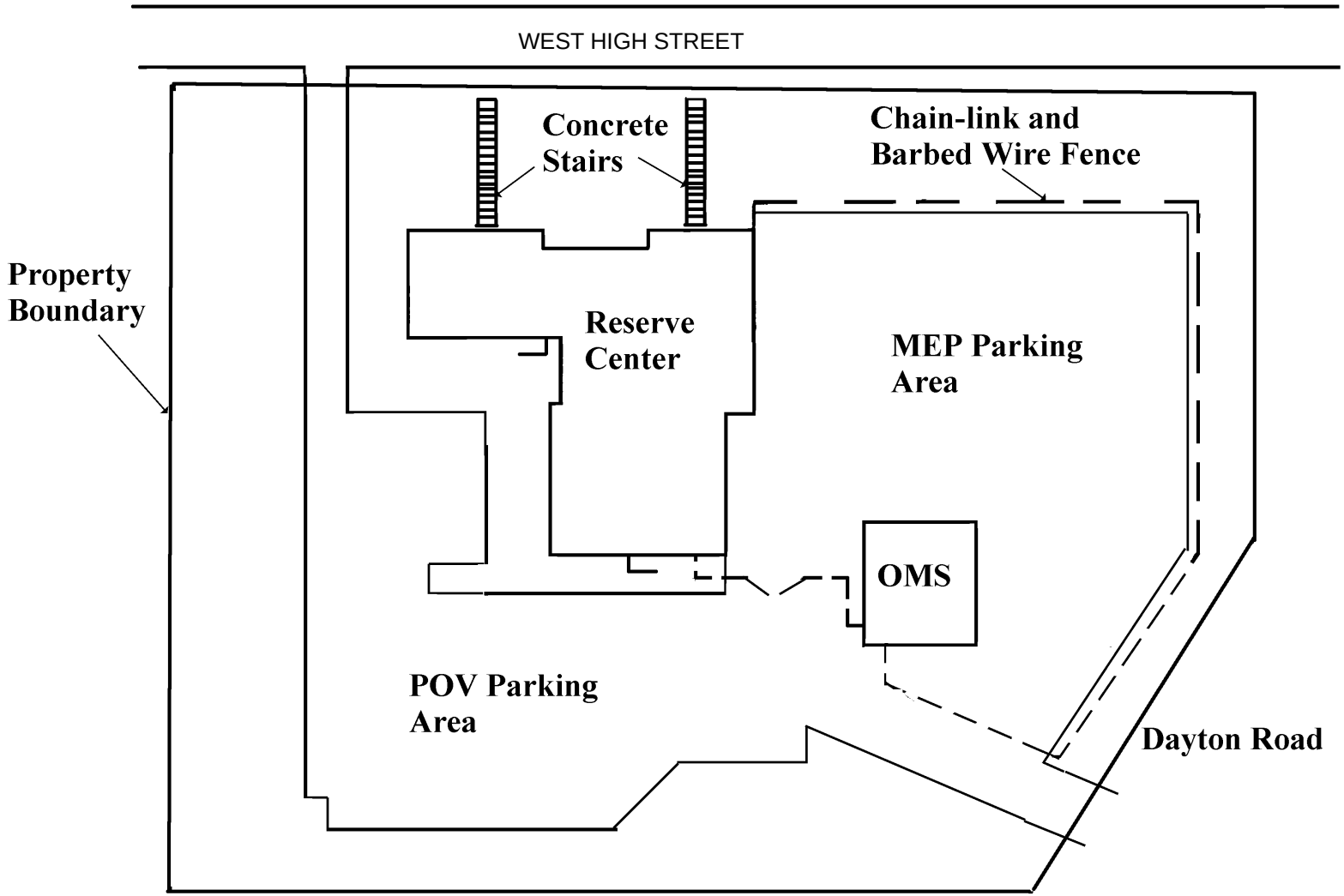
Appendix A
Figures



North

Scale Unknown

FIGURE 1
General Site Location Map
Phase I ECP Report



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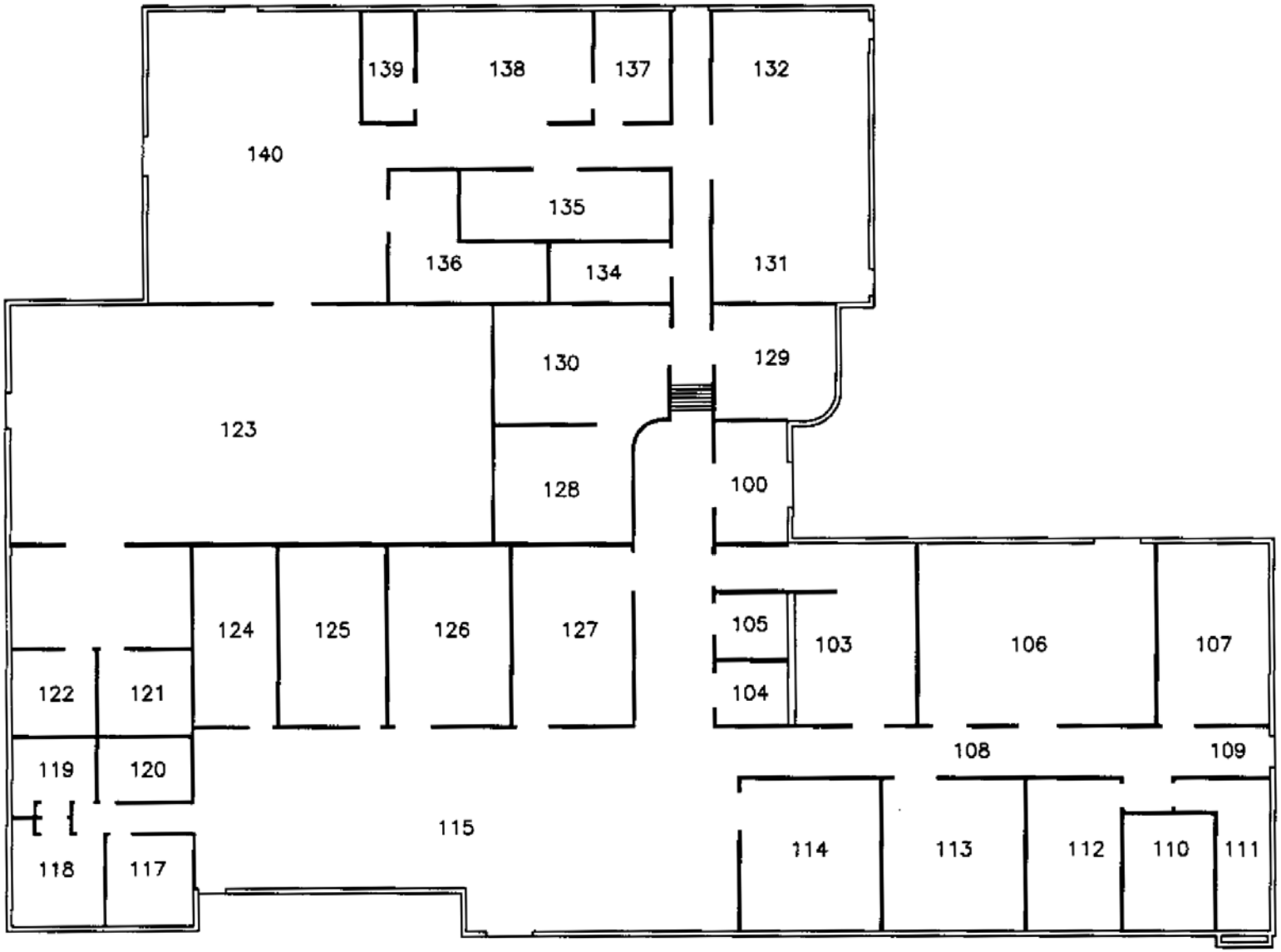
Modified From: Section 110 report for SFC M. L. Downs USARC/AMSA 58

FIGURE 2
Site Layout Plan
Phase I ECP Report



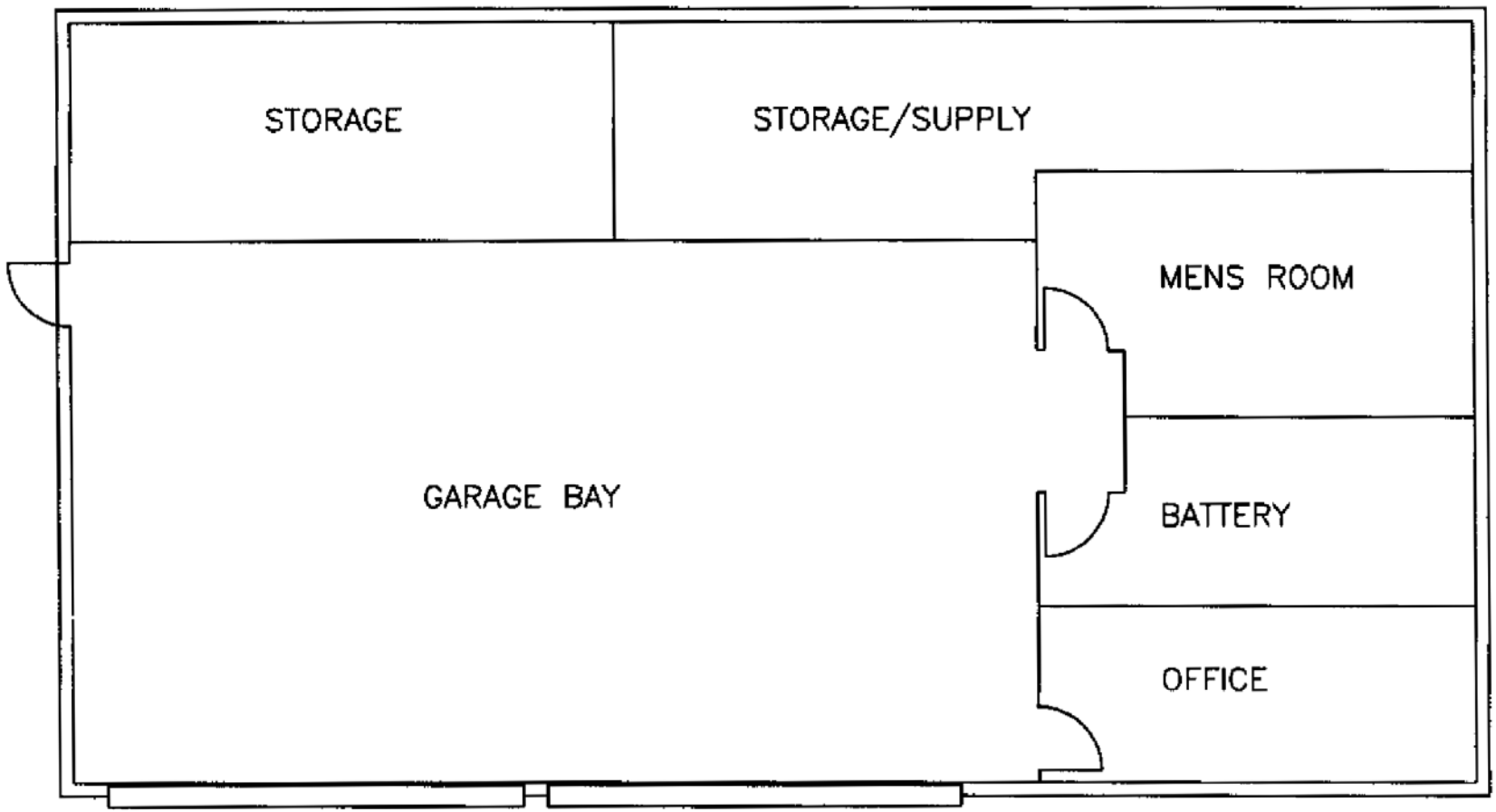
North

SCALE UNKNOWN

Source: Environmental Survey Report for Asbestos, PCBs, Lead Based Paint, and Radon for SFC M. L. Downs USARC/AMSA 58

FIGURE 3
Interior Layout, Reserve Center
Phase I ECP Report

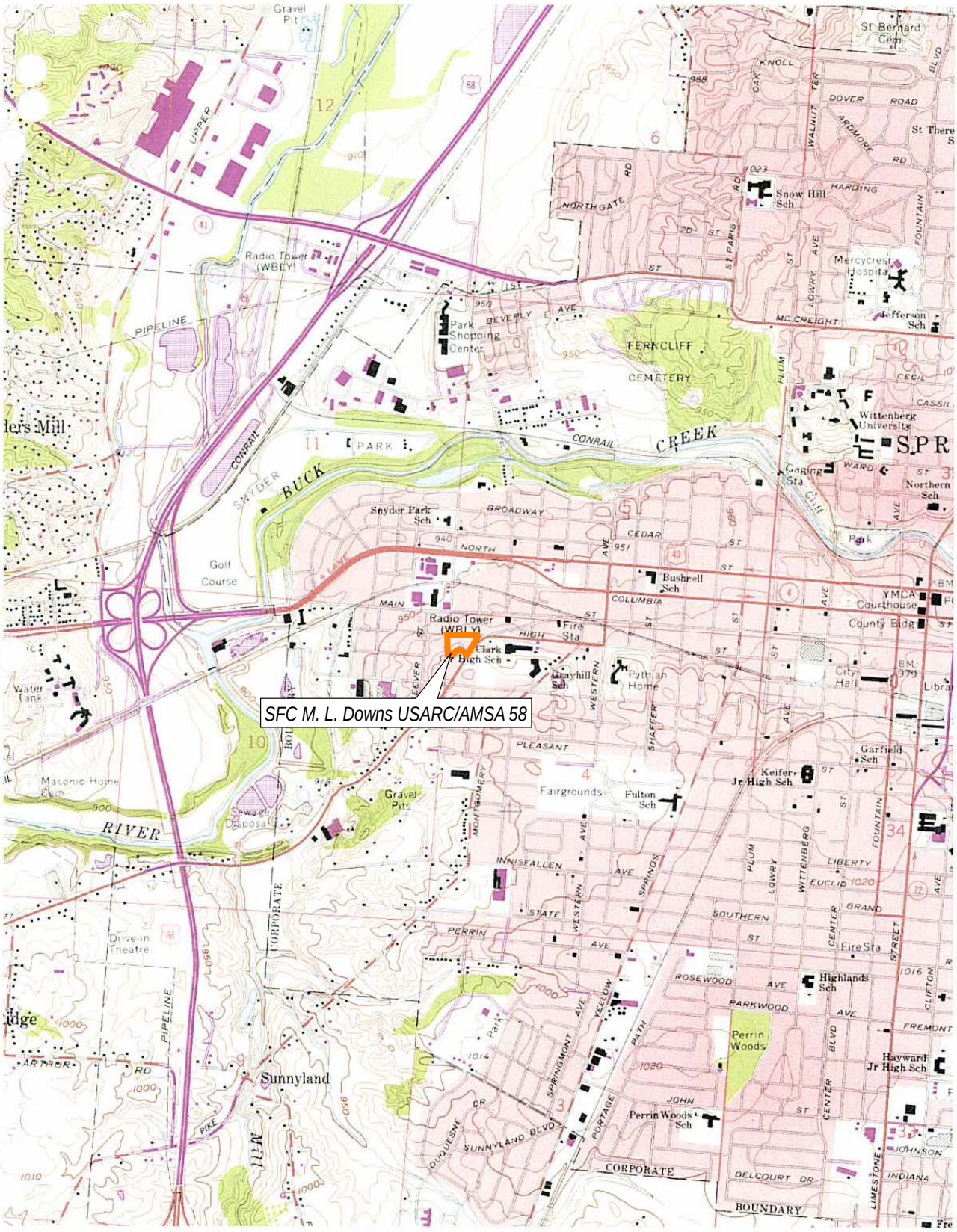
CH2MHILL



Source: Environmental Survey Report for Asbestos, PCBs, Lead Based Paint, and Radon for SFC M. L. Downs USARC/AMSA 58

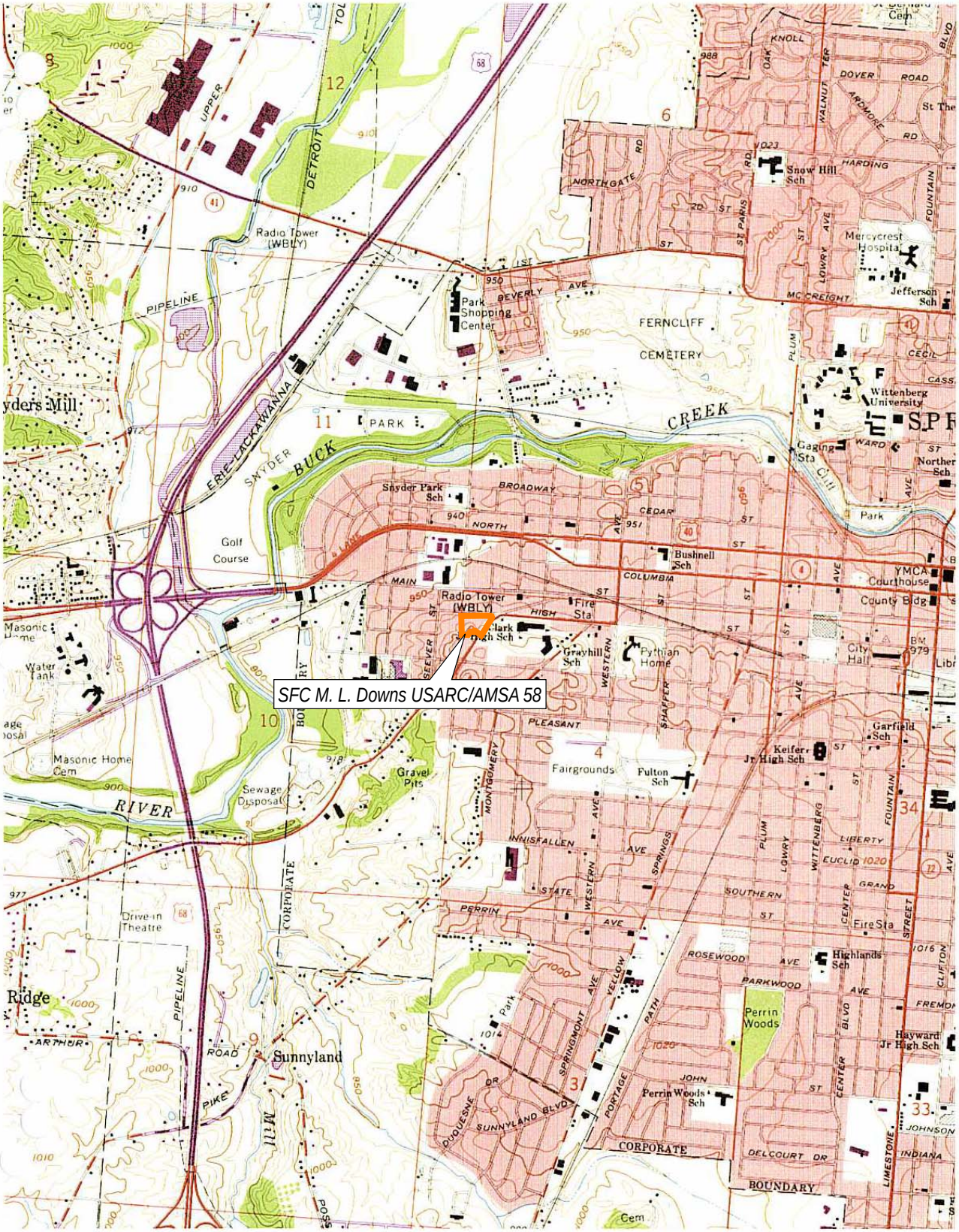
North
SCALE UNKNOWN

FIGURE 4
Interior Layout, AMSA Building
Phase I ECP Report



North

FIGURE 5
1981 USGS 7.5-Minute Topography Map
Phase I ECP Report

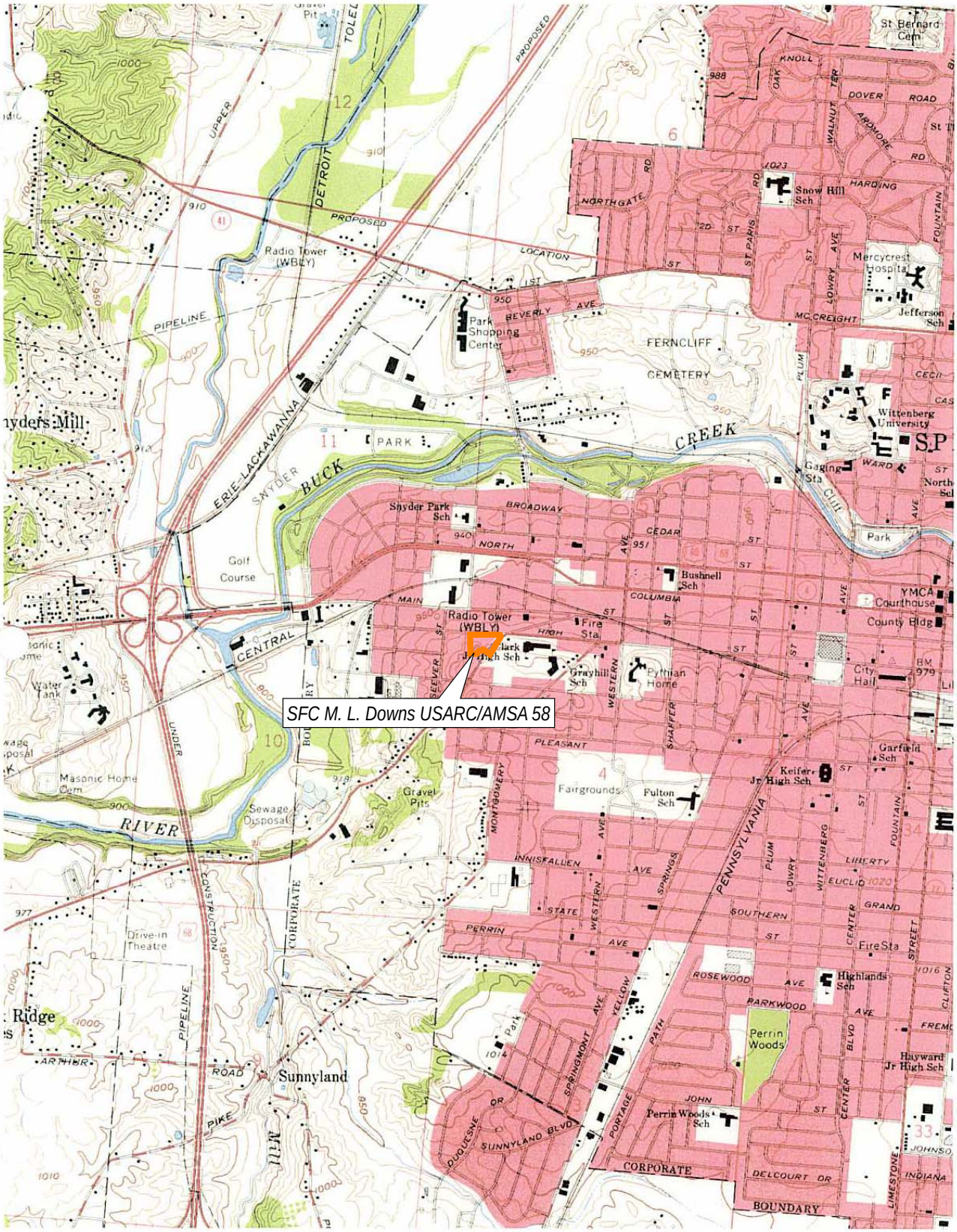


N ^ EDR INQUIRY# 1714247.88 TARGET QUAD: SPRINGFIELD PhotoRevised: 1966-1973 Series: 7.5' Scale: 1:24,000

North

FIGURE 6
1973 USGS 7.5-Minute Topography Map
Phase I ECP Report

CH2MHILL



N ^ EDR INQUIRY# 1714247.88 TARGET QUAD: SPRINGFIELD YEAR: 1966 Series: 7.5' Scale: 1:24,000

North

FIGURE 7
1966 USGS 7.5-Minute Topography Map
Phase I ECP Report

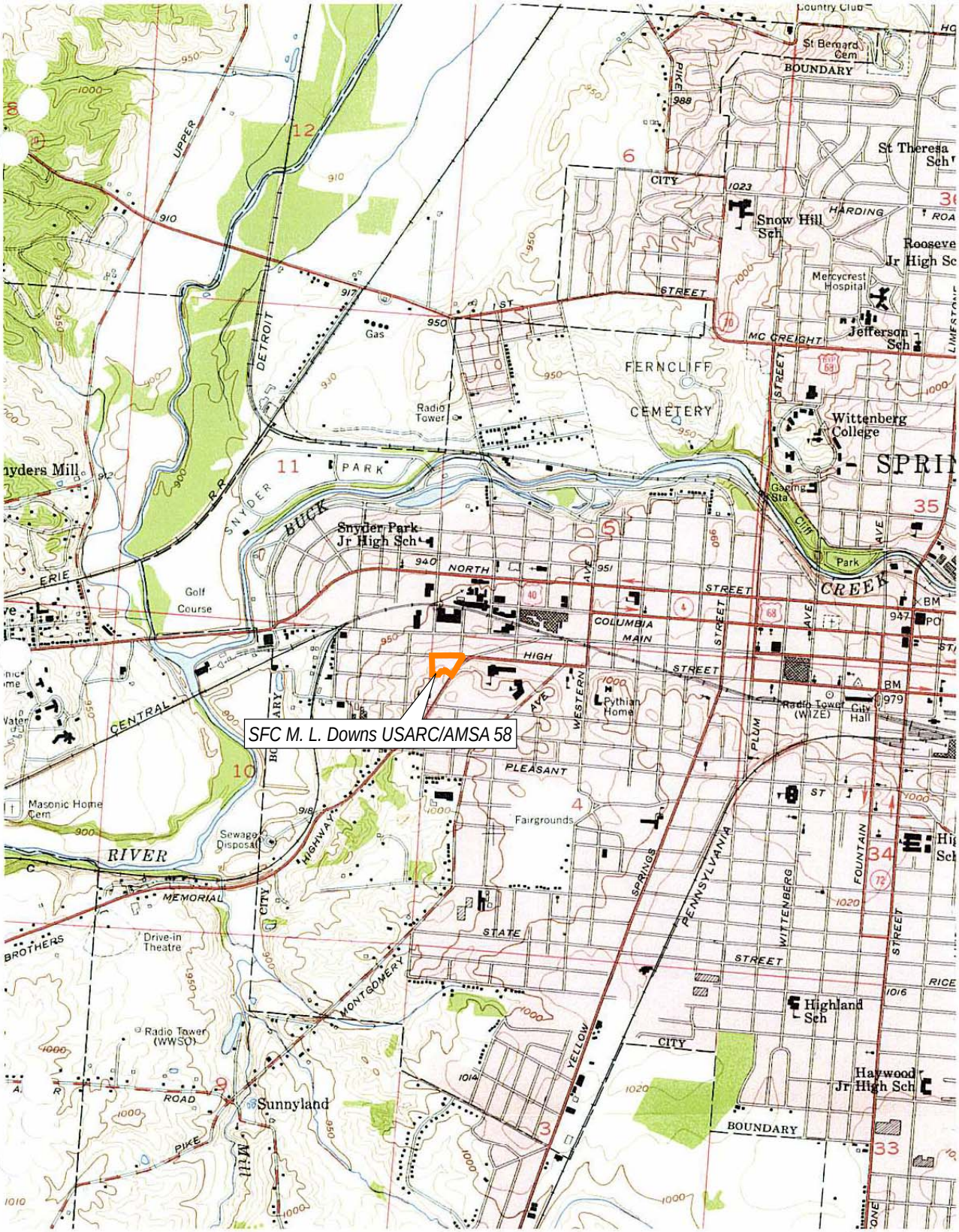
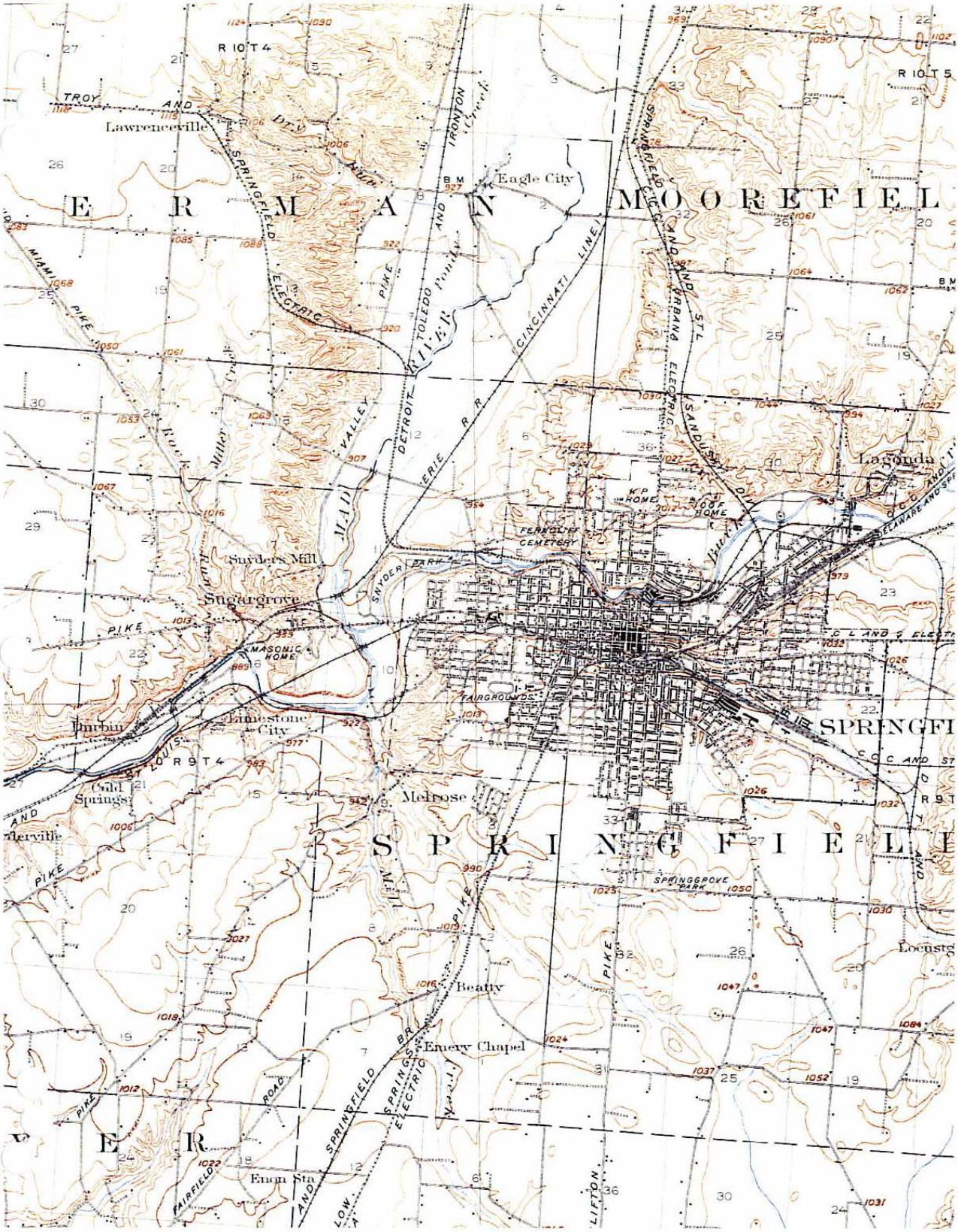
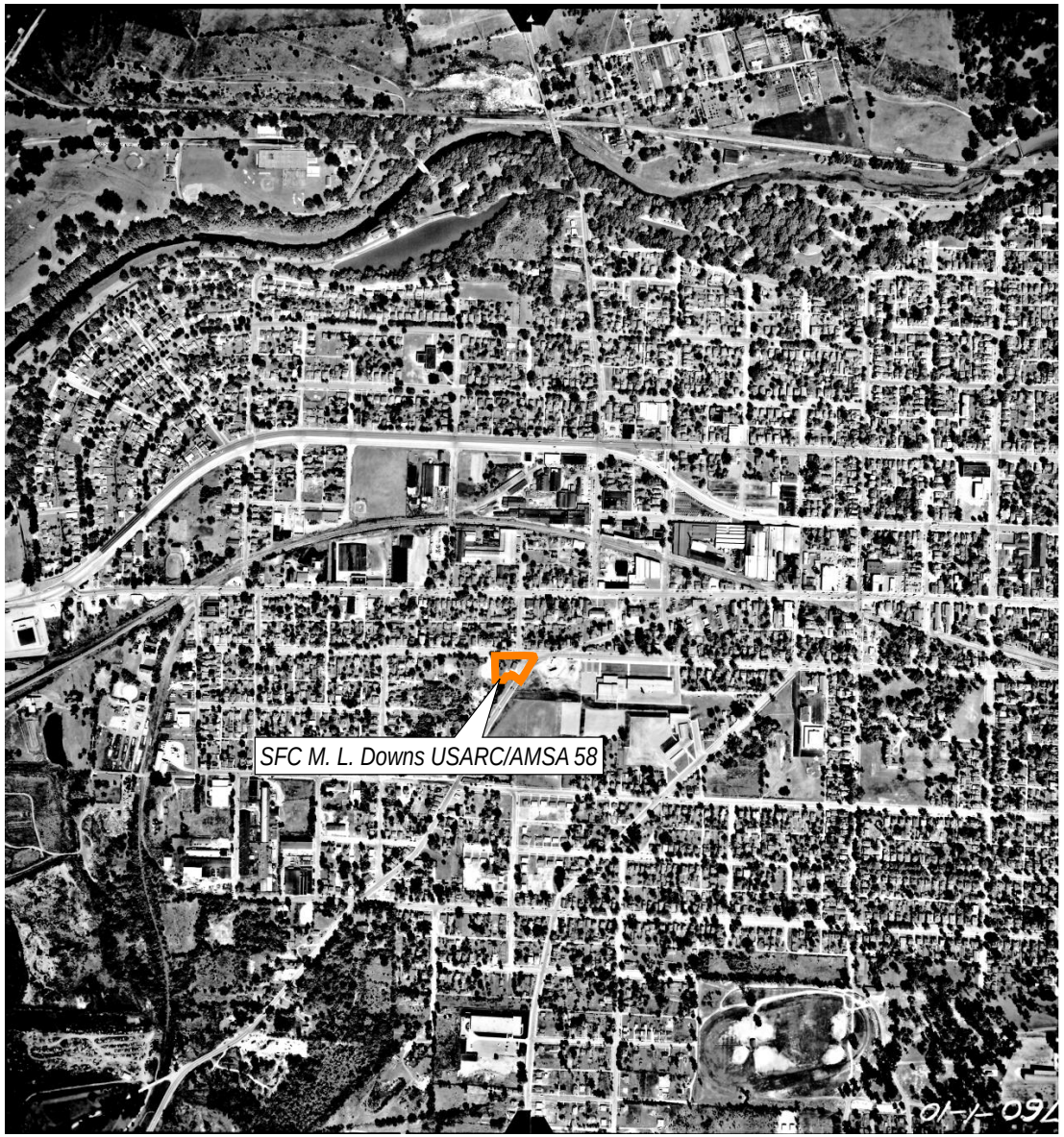


FIGURE 8
1955 USGS 7.5-Minute Topography Map
Phase I ECP Report



North

FIGURE 9
1906 USGS Series 15' Topography Map
Phase I ECP Report



North

SCALE UNKNOWN

FIGURE 10
1956 Aerial Photograph
Phase I ECP Report

CH2MHILL

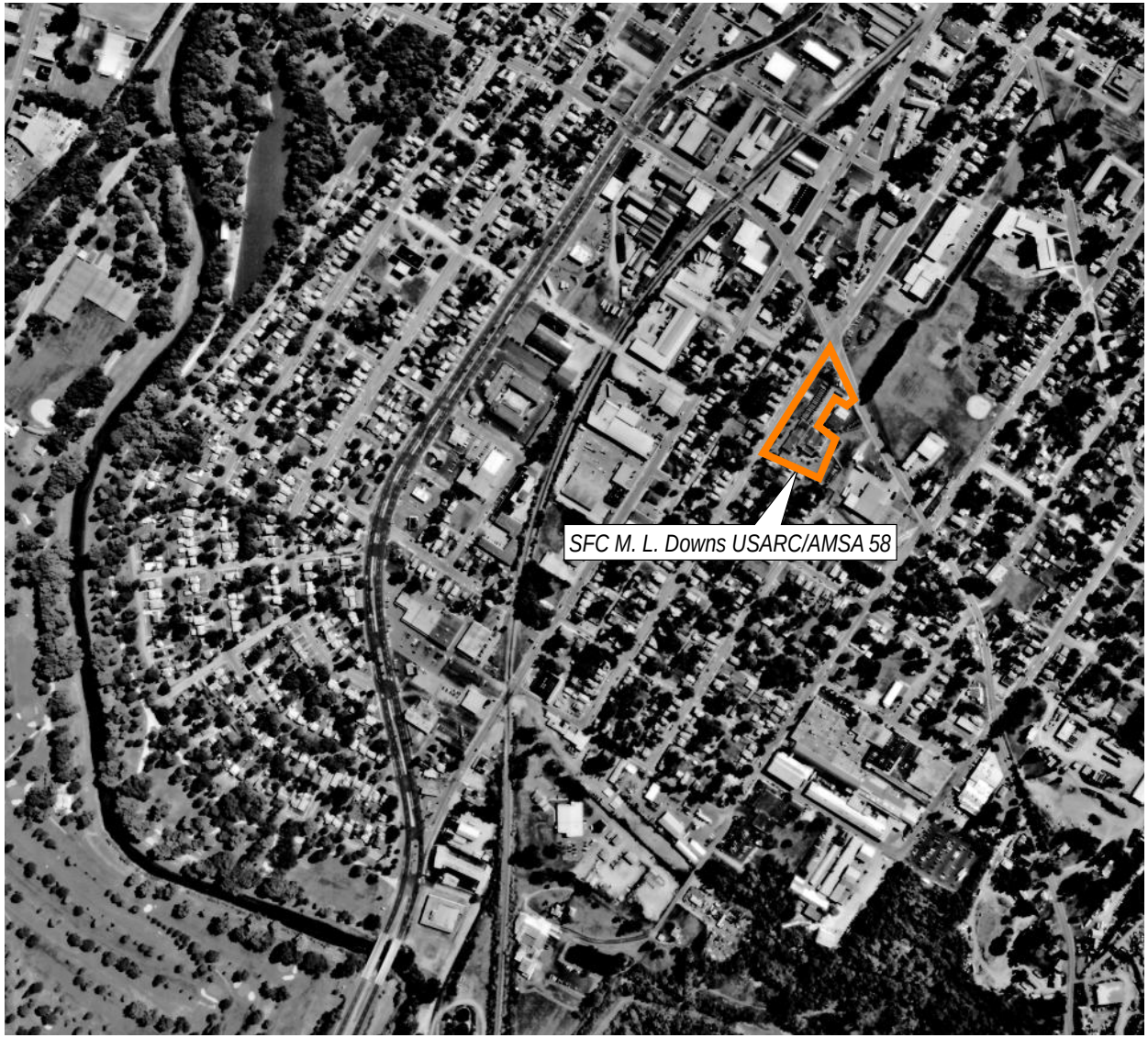
North
SCALE UNKNOWN

FIGURE 11
1968 Aerial Photograph
Phase I ECP Report

North

SCALE UNKNOWN

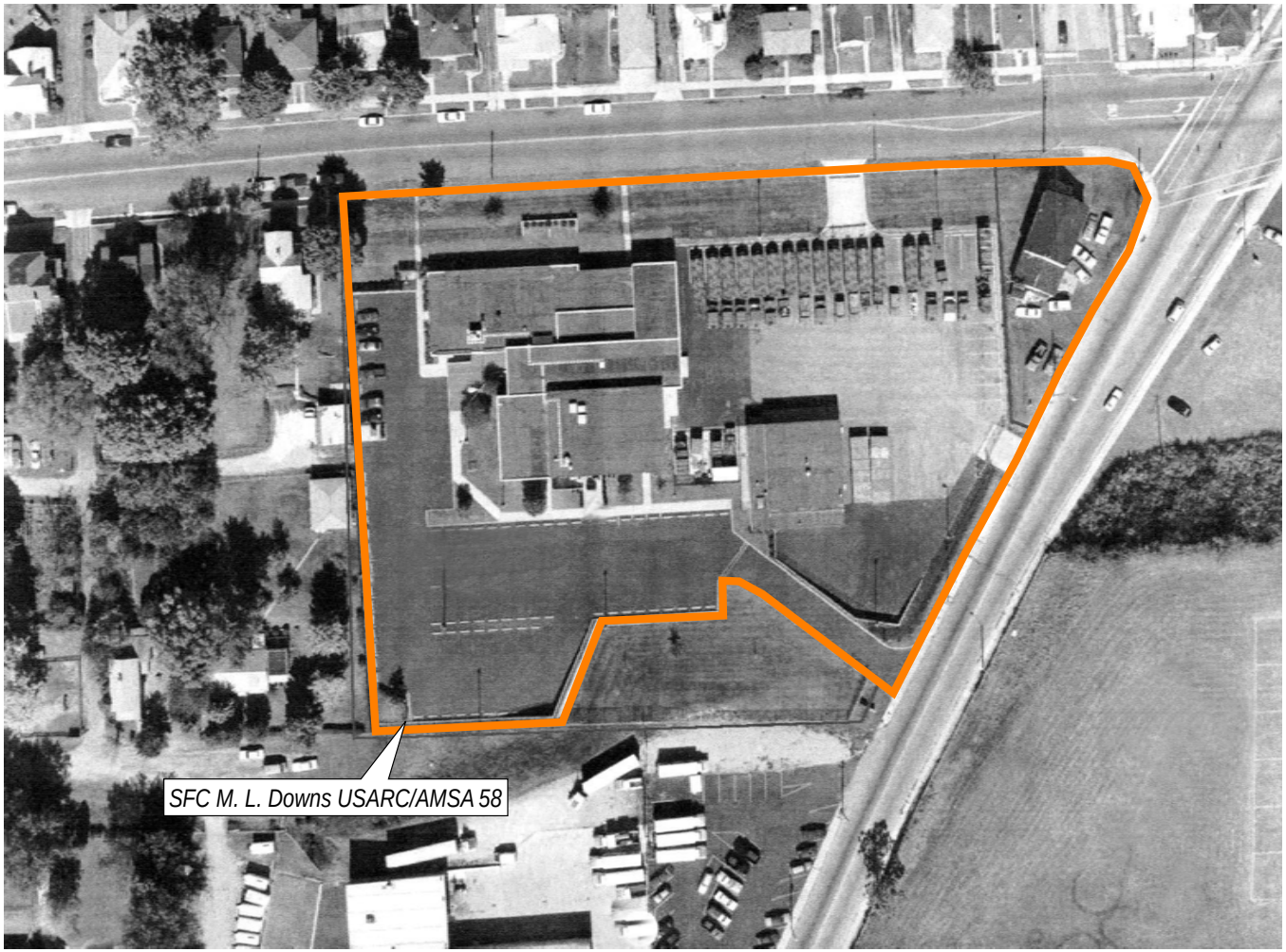
FIGURE 12
1987 Aerial Photograph
Phase I ECP Report



North

SCALE UNKNOWN

FIGURE 13
1998 Aerial Photograph
Phase I ECP Report



North

SCALE UNKNOWN

FIGURE 14
2003 Aerial Photograph
Phase I ECP Report

ES082006013MKE - Figure_14_2003_Aerial-Springfield

CH2MHILL

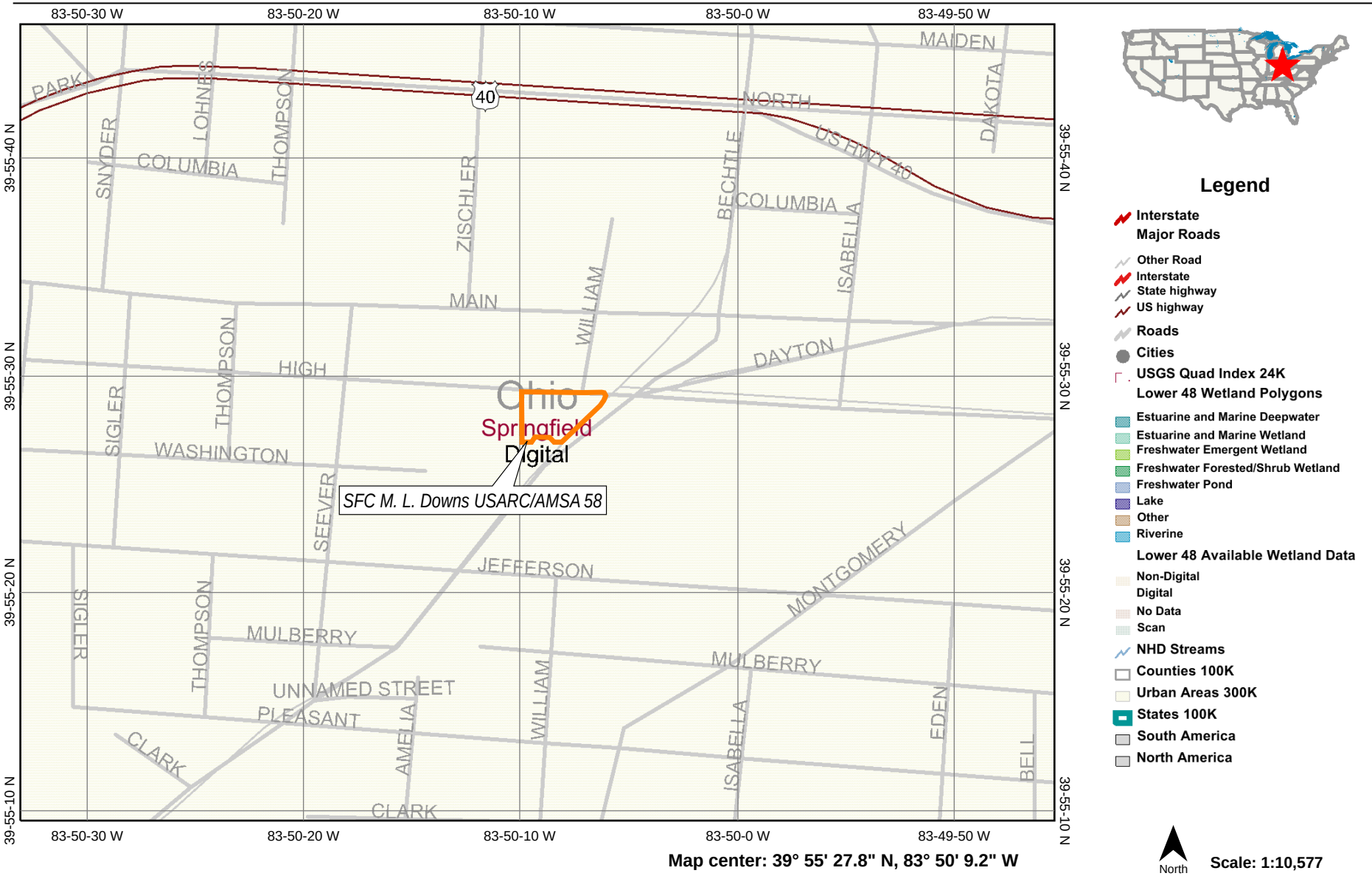
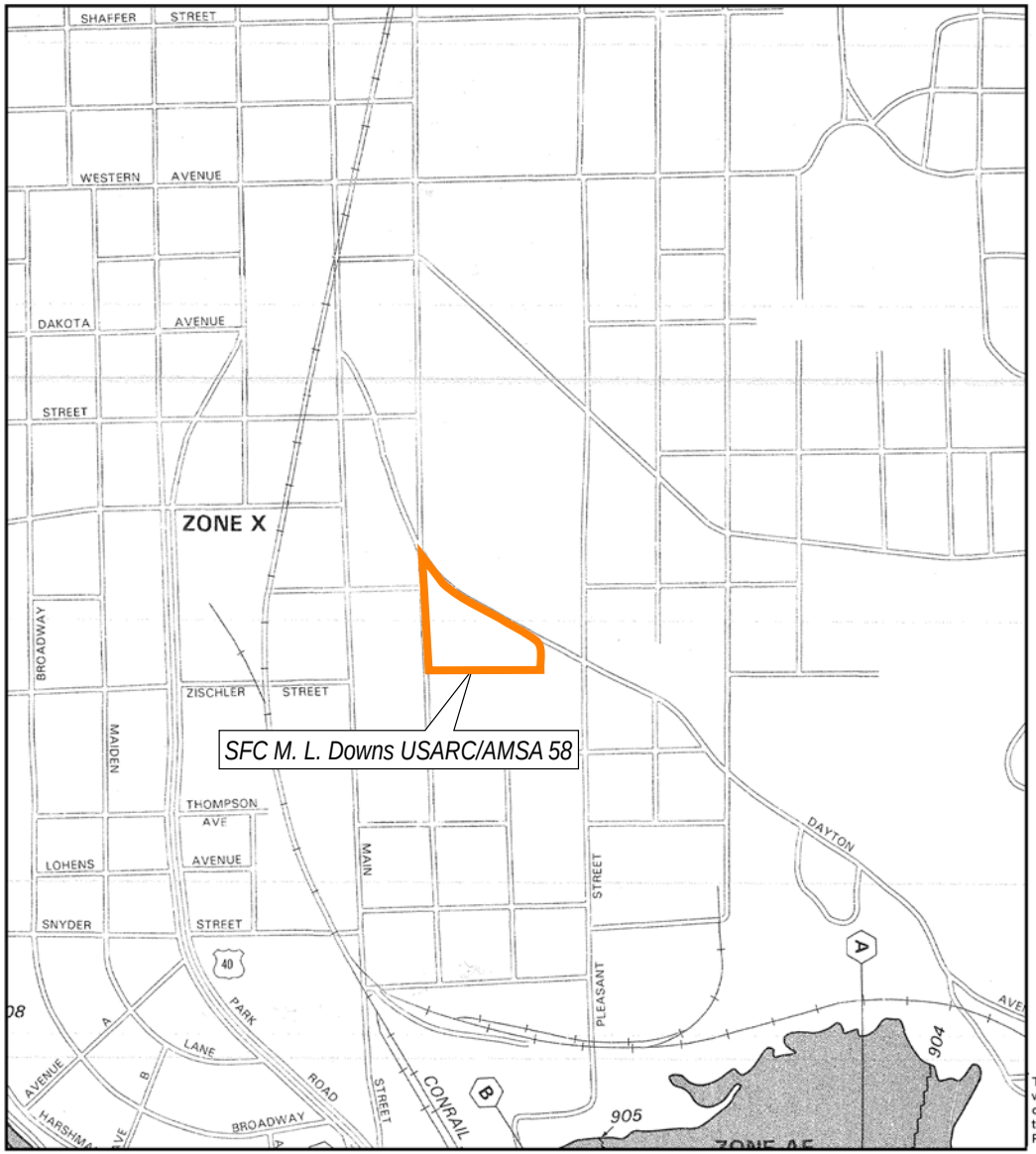


FIGURE 15
Wetland Map
Phase I ECP Report

CH2MHILL



North

APPROXIMATE SCALE IN FEET

800 0 800

LEGEND

SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD

- **ZONE A** — No base flood elevations determined.
- **ZONE AE** — Base flood elevations determined.
- **ZONE AH** — Flood depths of 1 to 3 feet (usually areas of ponding); base flood elevations determined.
- **ZONE AO** — Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- **ZONE A99** — To be protected from 100-year flood by Federal flood protection system under construction; no base elevations determined.
- **ZONE V** — Coastal flood with velocity hazard (wave action); no base flood elevations determined.
- **ZONE VE** — Coastal flood with velocity hazard (wave action); base flood elevations determined.

FLOODWAY AREAS IN ZONE AE

OTHER FLOOD AREAS

- **ZONE X** — Areas of 500-year flood; areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 100-year flood.

OTHER AREAS

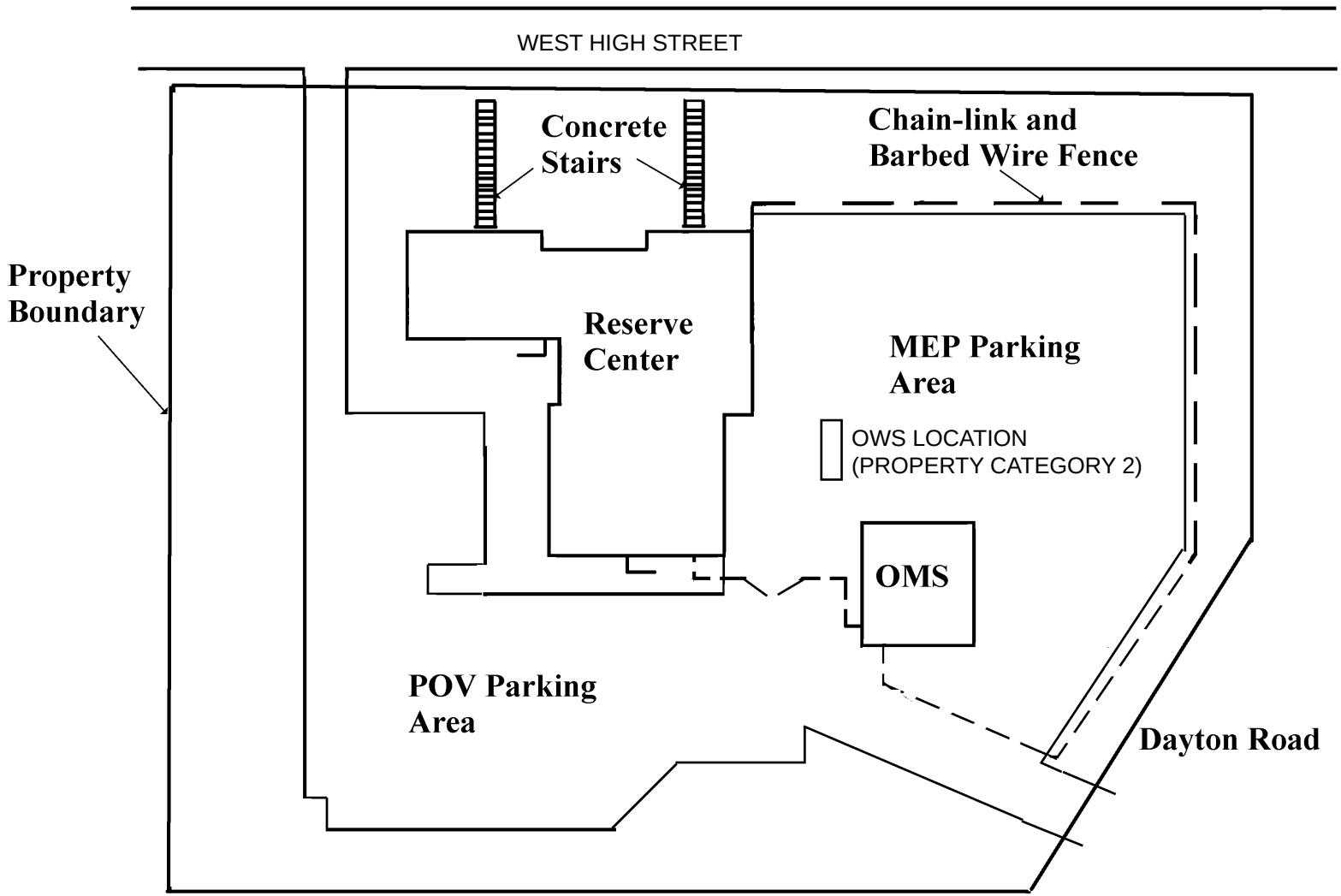
- **ZONE X** — Areas determined to be outside 500-year flood plain.
- **ZONE D** — Areas in which flood hazards are undetermined.

- Flood Boundary
- Floodway Boundary
- Zone D Boundary
- Boundary Dividing Special Flood Hazard Zones, and Boundary Dividing Areas of Different Coastal Base Flood Elevations Within Special Flood Hazard Zones.
- 513 — Base Flood Elevation Line; Elevation in Feet*
- D — D — Cross Section Line
- (EL 987) — Base Flood Elevation in Feet Where Uniform Within Zone*
- RM7 X — Elevation Reference Mark
- •M1.5 — River Mile

*Referenced to the National Geodetic Vertical Datum of 1929

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

FIGURE 16
Flood Plain Map
Phase I ECP Report



North

Modified From: Section 110 report for SFC M. L. Downs USARC/AMSA 58

FIGURE 17
Major Findings
Phase I ECP Report

Appendix B
Site Reconnaissance Photographs

APPENDIX B

Site Reconnaissance Photographs

1. Entrance to Reserve Center (north Side)

2. OMS Facility (North Side)

3. Hazardous Materials Storage Shed located between the Reserve Center and the OMS.

4. Equipment Storage Sheds located on the South east corner of the OMS.

3. Cover area containing the Hazardous Waste Storage Containers. Located between the Reserve Center and OMS.

4. Conex Storage Boxes used Several are lo store equipment that is sent with Deployed Units. Located throughout the MEP Area.

7. Drain leading to sump in the Battery Acid Storage Room. Note: Room has never been used for acid storage.

8. Sump cleanout for the battery acid storage area drain.

Appendix C

Property Acquisition Documents and Chain of Title Report

2055 East Rio Salado Parkway, Suite 201
Tempe, Arizona 85281
Phone: (480) 967-6752
Fax Number: (480) 966-9422
Web Site: www.netronline.com

HISTORICAL CHAIN OF TITLE REPORT

SFC M. L. DOWNS USARC/AMSA 58, OH
1515 WEST HIGH STREET
SPRINGFIELD, OHIO

Submitted to:

ENVIRONMENTAL DATA RESOURCES, INC.
C/O
CH2M HILL
1569 Stampmill Way
Lawrenceville, Georgia 30043
(770) 338-1589

Attention: Mary Jacques

Project No. N06-5552

Monday, September 11, 2006

NETR- Real Estate Research & Information hereby submits the following ASTM historical chain-of-title to the land described below, subject to the leases/miscellaneous shown in Section 2. Title to the estate or interest covered by this report appears to be vested in:

UNITED STATES OF AMERICA

The following is the current property legal description:

Being that parcel or tract of land, situated and lying in the Northwest ¼ of Section 4, Township 4, Range 9, in the City of Springfield, Clark County, State of Ohio

Assessor's Parcel No: 34-00600004106-1-001 and 34-00600004106-1-003

1. HISTORICAL CHAIN OF TITLE

1. GUARDIAN'S DEED:
   - RECORDED: 06-18-1912
   - GRANTOR: Richard M. Rodgers, by Border Bowman, Guardian
   - GRANTEE: Harry F. Snyder; Graham Read Snyder; and Fred Snyder
   - INSTRUMENT: Bk 178, Pg 290

2. QUIT CLAIM DEED:
   - RECORDED: 07-06-1933
   - GRANTOR: Harry F. Snyder
   - GRANTEE: Maud Snyder; Claire Snyder Dary; Graham Read Snyder, John Jacob Snyder; and Fred Snyder
   - INSTRUMENT: Bk 282, Pg 212

3. QUIT CLAIM DEED:
   - RECORDED: 12-10-1936
   - GRANTOR: John Jacob Snyder & Adaline T. Snyder, his wife
   - GRANTEE: Fred Snyder
   - INSTRUMENT: Bk 297, Pg 467

4. QUIT CLAIM DEED:
   - RECORDED: 12-31-1936
   - GRANTOR: Maud Snyder; Clare Snyder Davy, widow; and Graham Read Snyder & Eula W. Snyder, his wife
   - GRANTEE: Fred Snyder
   - INSTRUMENT: Bk 298, Pg 102

5. QUIT CLAIM DEED:
   - RECORDED: 07-24-1940
   - GRANTOR: Harry F. Snyder
   - GRANTEE: Fred Snyder
   - INSTRUMENT: Bk 322, Pg 701

6. CERTIFICATE OF TITLE:
   - RECORDED: 08-07-1956
   - GRANTOR: Estate of Graham Read Snyder, deceased
   - GRANTEE: Eula W. Snyder, surviving spouse
   - INSTRUMENT: Bk 476, Pg 332

7. WARRANTY DEED:

RECORDED:	01-23-1957
GRANTOR:	James W. Snyder, as Trustee under the Will of Fred Snyder, deceased and Eula W. Snyder, widow and sole beneficiary under the Will of Graham Read Snyder, deceased
GRANTEE:	United States of America
INSTRUMENT:	Bk 481, Pg 163

2. LEASES AND MISCELLANEOUS

1. No environmental liens, institutional controls or engineering controls were found of record.

3. LIMITATION

This report was prepared for the use of Environmental Data Resources, Inc., and CH2M Hill, exclusively. This report is neither a guarantee of title, a commitment to insure, or a policy of title insurance. NETR- Real Estate Research & Information does not guarantee nor include any warranty of any kind whether expressed or implied, about the validity of all information included in this report since this information is retrieved as it is recorded from the various agencies that make it available. The total liability is limited to the fee paid for this report.

OH059

WARRANTY DEED

129289

Tract No. A-100
Army Reserve Training Center
Springfield, Ohio

KNOW ALL MEN BY THESE PRESENTS: That James W. Snyder, as Trustee under the will of Fred Snyder, deceased, and Eula W. Snyder, widow and sole beneficiary under the Will of G. Read Snyder, deceased, the GRANTORS, in consideration of the sum of Twenty Thousand Fifty and No/100 Dollars ($20,050.00) to them paid by the United States of America, whose address is Washington, D. C., the receipt and sufficiency whereof are hereby acknowledged, do hereby GRANT, BARGAIN, SELL and CONVEY unto the UNITED STATES OF AMERICA and its assigns, the GRANTEE, the fee simple title to that certain parcel of land situate in the County of Clark, State of Ohio, more particularly bounded and described as follows:

Situated in the State of Ohio, County of Clark, City of Springfield, and described as follows:

Being part of the northwest quarter of Section 4, Township 4, Range 9, between the Miami Rivers Survey.

Beginning at a spike at the intersection of the west line of said Section 4 with the south line of High Street; thence with the south line of High Street, south 86° 33' east, 435.00 feet to a bar which is 131 feet west of the west line of the Dayton Pike; thence south 3° 04' west 156.67 feet to a pipe; thence with the west line of the Dayton Pike, south 34° 36' west, 209.54 feet to a pipe at the intersection of the west line of the Dayton Pike with the north line of Washington Street; thence with the north line of Washington Street, north 86° 33' west, 323.50 feet to a pipe on the west line of said Section 4; thence with the west line of said Section, north 2° 44' east, 336.00 feet to the place of beginning. Containing 3.13 acres.

Being the same premises conveyed to Fred Snyder and G. Read Snyder by deed from Border Bowman, Guardian of Richard H. Rodgers, dated October 16, 1911, filed for record June 18, 1912, at 3:15 P.M., and recorded in D.B. 178, page 290, Recorder's Office, Clark County, Ohio. Also, as to Fred Snyder; deed from Harry F. Snyder, single, dated July 5, 1923, filed July 6, 1933 at 4:30 P.M. and recorded in D.B. 282, page 212; deed from John Jacob Snyder and wife, dated Dec. 10, 1936, filed Dec. 10, 1936, at 4:30 p.m.and recorded in D.B. 297, page 467; deed from Maud Snyder, et al, dated Dec. 10, 1936, filed Dec. 31, 1936 at 10:30 A.M., and recorded in D.B. 298, page 102; and from Harry F. Snyder, dated July 20, 1940, filed July 24, 1940 at 1:40 P.M. and recorded in D.B. 322, page 701.

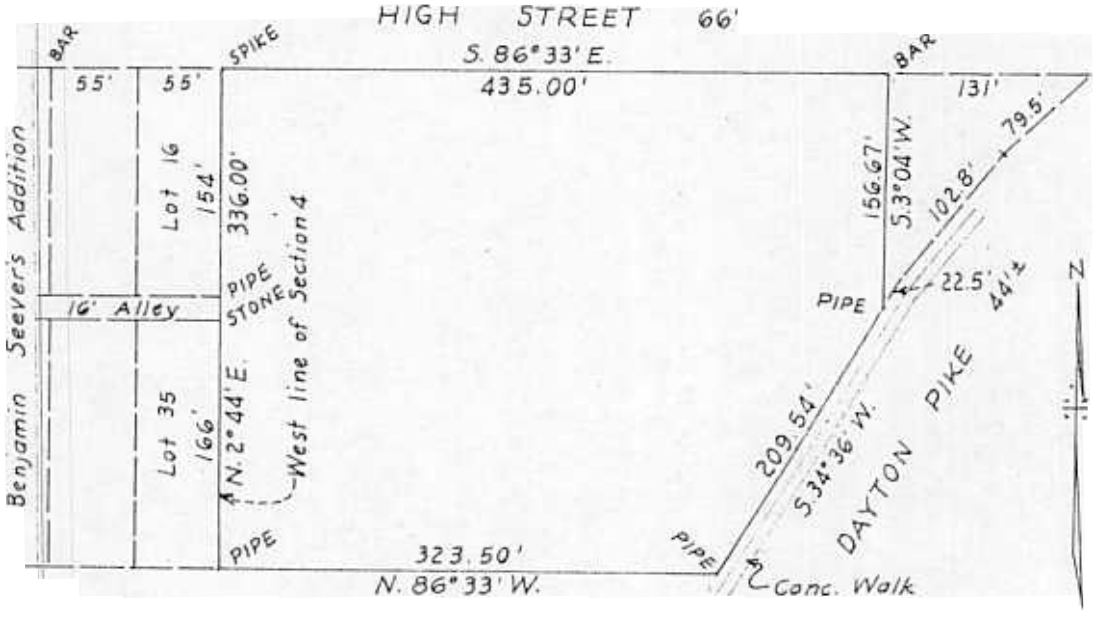
OH059

SURVEY

Situated in the State of Ohio, County of Clark, City of Springfield, and described as follows:

Being part of the northwest quarter of Section 4, Township 4, Range 9, Between the Miami Rivers Survey.

Beginning at a spike at the intersection of the west line of said Section 4 with the south line of High Street; thence with the south line of High Street, south 86° 33' east, 435.00 feet to a bar which is 131 feet west of the west line of the Dayton Pike; thence south 3° 04' west 156.67 feet to a pipe; thence with the west line of the Dayton Pike, south 34° 36' west, 209.54 feet to a pipe at the intersection of the west line of the Dayton Pike with the north line of Washington Street; thence with the north line of Washington Street, north 86° 33' west, 323.50 feet to a pipe on the west line of said Section 4; thence with the west line of said Section, north 2° 44' east, 336.00 feet to the place of beginning. Containing 3.13 acres.



I hereby certify that this plat represents a true and complete survey of the premises and that corners are marked as shown.

Springfield, Ohio
September 1, 1956

John H. Hughes

John H. Hughes
Registered Surveyor

Appendix D

Previous Environmental Site Assessment Reports

FT. KNOX ASBESTOS SURVEY REPORT
U. S. ARMY RESERVE CENTERS

Downs USARC
Springfield, Ohio

OH059

CONTENTS

NARRATIVE SUMMARY

DATABASE SUMMARY

BUILDING DRAWING

ASBESTOS SURVEY FIELD LOG

POLARIZED LIGHT MICROSCOPY ANALYSIS SUMMARY SHEETS

Prepared by:

RMT INC.

NARRATIVE SUMMARY

INTRODUCTION

Downs U. S. Army Reserve Center (USARC) is a one-story building. The reserve center building and the vehicle maintenance shop were inspected for suspect asbestos-containing materials (ACM) by an RMT asbestos field inspector. The date of the inspection is provided on the Asbestos Survey Field Log. A total of eighteen samples of suspect ACM were collected from these buildings. Results, sample point locations, and ACM locations are reported on the Database Summary Sheet, Building Drawing, and the Asbestos Survey Field Log. Samples were analyzed using Polarized Light Microscopy (PLM) by Hygeia Environmental Laboratories, Inc. (Hygeia). Hygeia is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for PLM analysis of bulk asbestos samples. Hygeia's PLM Analysis Summary Sheet is included at the end of this report.

RMT has adopted the Environmental Protection Agency (EPA) Asbestos Hazard Emergency Response Act (AHERA) protocols for determining whether homogeneous areas are asbestos-containing. This protocol states that if one sample taken from the same homogeneous area contains more than 1% asbestos, by weight, then the entire homogeneous area is considered to be an asbestos-containing material.

EXPOSURE ASSESSMENT

An exposure assessment using Priority Index Number (PIN) values was developed in accordance with TRADOC, October, 1984 Edition. The assessment was based on seven elements. These elements include the material's friability, accessibility, condition, percent of asbestos, level of activity, number of occupants, and duration of occupancy.

RECOMMENDATIONS

Asbestos-containing insulation was found on the water storage tank in the mechanical room. This material exhibited low friability and was in good condition at the time of this survey.

A small amount of asbestos-containing pipe insulation and fitting insulation was found in the mechanical room. The pipe insulation was highly friable and in poor condition at the time of this survey. RMT recommends that this insulation be removed. Access to this material should be restricted until removal can be performed.

There appeared to be a cloth expansion joint in the vehicle maintenance shop; however, this material was inaccessible. If this expansion joint is confirmed to be cloth, it should be assumed that it is asbestos-containing.

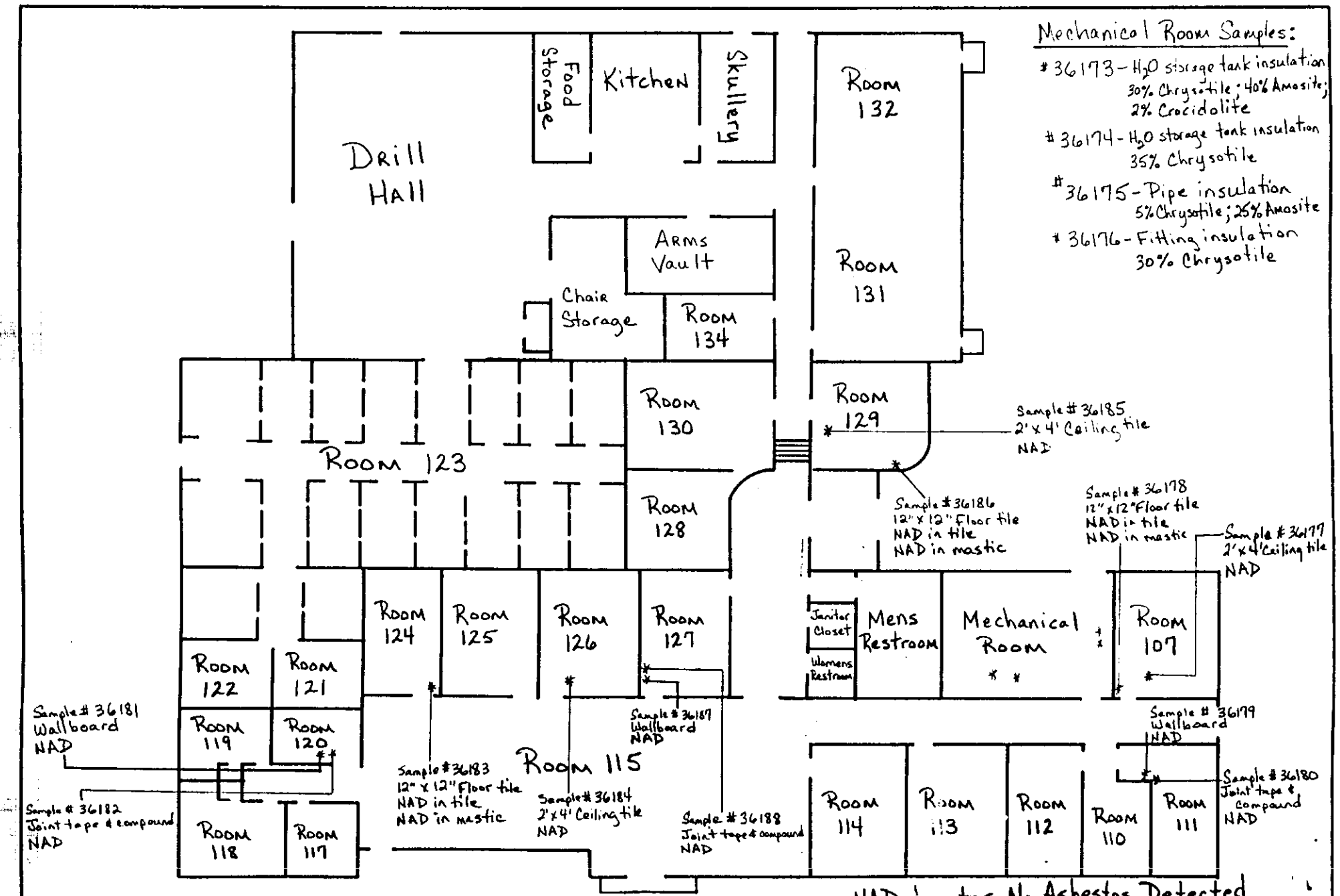
Activities that may disturb friable materials or render non-friable materials friable should be prohibited. RMT recommends ACM be removed prior to major renovation or demolition projects that may potentially disturb these materials. An Interim Control, such as an Operation and Maintenance Program (O&M), should be developed and instituted for these materials. Such a program should include establishment of an information system for building occupants and maintenance personnel, including outside contractors, procedural requirements for handling and maintaining ACM in a non-friable state, and a periodic inspection schedule for reassessment. This program will allow the ACM to be properly managed until abatement is performed.

COST ESTIMATES FOR DOWNS USARC

ACM	Quantity	Abatement			Replacement			Total
		Labor Hours	Unit Cost	Total	Labor Hours	Unit Cost	Total	
Water storage tank insulation	98 SF	39	$20.00	$1,960	20	$12.00	$1,176	$3,136
Pipe insulation	14 LF	4	$14.00	$196	2	$8.25	$116	$312
Fitting insulation	8 EA	5	$30.00	$240	3	$25.00	$200	$440

Bldg.	Inspection Date	Building Usage	Type of ACM	Location of ACM	Amount of ACM	Total % of Asbestos in Material	PIN #	Abatement Cost
DOWNS	12/16/1992	OTHER	OTHER	Fitting insulation in the mechanical room.	8 EA	30	4.440	440
	Sample #36176 - 30% Chrysotile.							
DOWNS	12/16/1992	OTHER	PIPE INSULATION	In the mechanical room.	14 LF	30	22800.000	312
	Sample #36175 - 5% Chrysotile & 25% Amosite.							
DOWNS	12/16/1992	OTHER	OTHER	H2O storage tank insulation in the mech. room	98 SF	72	12.000	3136
	Sample #36173-30% Chry;40% Amosite;2% Croc.							

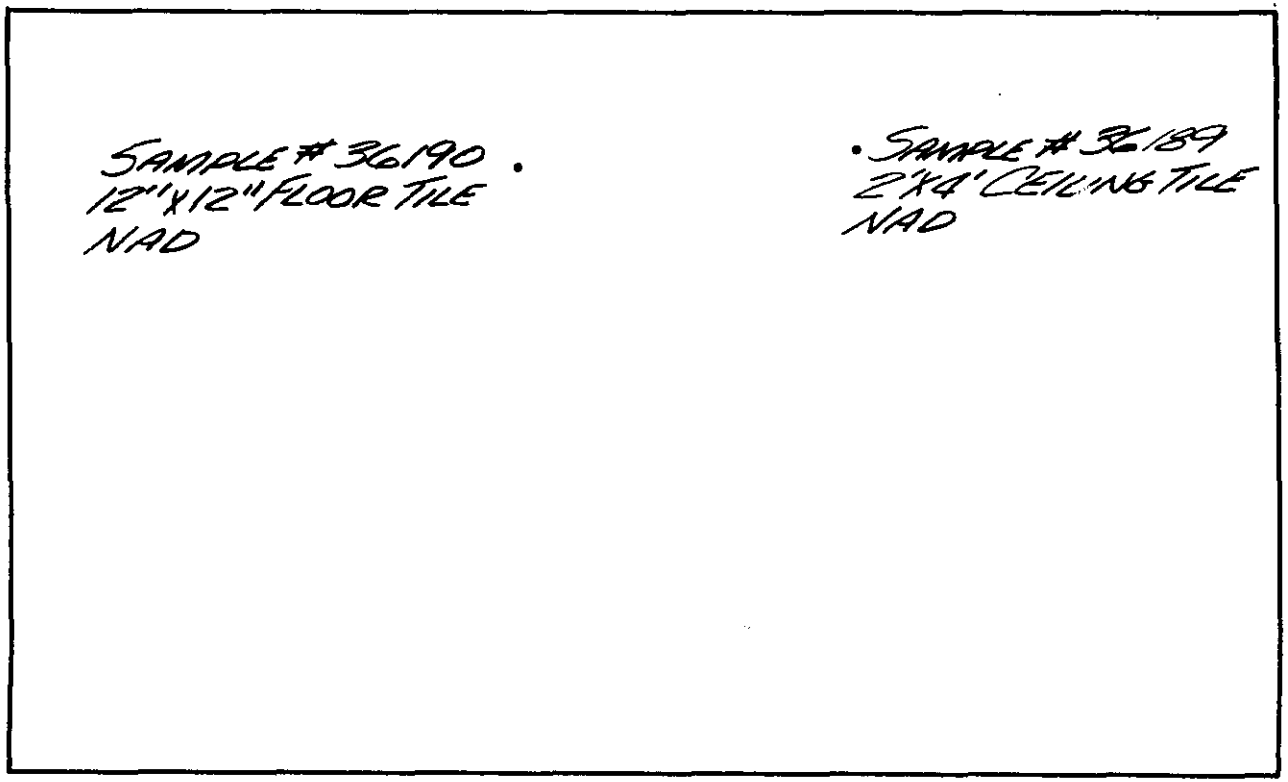
NAD denotes No Asbestos Detected.
Abatement cost detail in Narrative Summary.
See Survey Field Log and drawing for specific room locations.



FACILITY: Downs II SARC. - Springfield, Ohio

PROJECT NO. 942.04

RMI



VEHICLE MAINTENANCE FACILITY

NAD DENOTES
NO ASBESTOS DETECTED

FACILITY: DOWNS USARC - SPRINGFIELD, OHIO

PROJECT NO. 942.04

RMT

U. S. ARMY RESER NTERS
ASBESTOS SURVEY D LOG

Building Name: Downs USAEC

Building Site: Springfield, Ohio

Date: 12-16-92

Building Usage Code: 9

FLOOR	AREA / ROOM #	HOMO AREA	TYPE	ASSESSMENT FRBL	ACC	COND	ACT	# OF OCCUP	DUR OF OCCUP	SAMPLE #	SAMPLE LOCATION	RESULTS	QUANTITY	COMMENTS
	Mechanism Room	No Suspect A.M						12	40					All fiberglass, plastic boots, Rubber expansion joints
	Chair Storage	"												Cinder block & concrete
	Electrical and Closet	"												
	Mechanical Room	01	H	L	M	G	L			#36173	Front right side	5% Chrysotile 40% Amosite 2% Crocidolite	98SF	01 - H_2O storage tank insulation
	↓	01	H	L	M	G	L			#36174	Right end of tank	35% Chrysotile	see above	
	↓	02	A	H	M	SD	L			#36175	At exposed end	5% Chrysotile 25% Amosite	14 LF	02 - Pipe insulation
	↓	03	H	L	M	G	L			#36176	Near main valve @ the ceiling	30% Chrysotile	8 ea.	03 - Fitting insulation
	Room 107	04	N	H	M	G	L			#36177	Beside light fixture @ the door	NAD		04 - 2'x4' ceiling tile (small deep fissures w/ d
	↓	05	C	L	H	G	H			#36178	Behind the door	NAD in tile NAD in mastic		05 - 12"x12" tan floor tile
	Room 111	04	N	H	M	G	L						170 SF	
	↓	06	K	L	H	G	L			#36179	At the corner - above dropped ceiling	NAD	160SF	06 - Wallboard (8' wall)
	↓	07	H	L	L	G	L			#36180	"	NAD		07 - Joint tape & compound
	Room 110	04	N	H	M	G	L						137SF	
	↓	06	K	L	H	G	L						292 SF	(three walls)
	↓	07	H	L	L	G	L							
	Room 112	04	N	H	M	G	L						209SF	
	↓	06	K	L	H	G	L						304SF	(two walls)
		07	H	L	L	G	L							

U. S. ARMY RESER[illegible] NTERS
ASBESTOS SURVE[illegible] D LOG

Building Name: Downs USARC

Building Site: Springfield, Ohio

Date: 12-16-92

Building Usage Code: 9

FLOOR	AREA / ROOM #	HOMO AREA	TYPE	ASSESSMENT FRBL	ASSESSMENT ACC	ASSESSMENT COND	ASSESSMENT ACT	# OF OCCUP	DUR OF OCCUP	SAMPLE #	SAMPLE LOCATION	RESULTS	QUANTITY	COMMENTS
	Entrance to rooms 110, 111, & 112	06 07	K H	L L	H L	G G	L L	12	40				30 SF	
	↓	05 04	C N	L H	H M	G G	H L						20 SF 20 SF	
	Room 113	04	N	H	M	G	L						304 SF	
	↓	05	C	L	H	G	L						304 SF	
	↓	06	K	L	H	G	L						304 SF	(two walls)
	↓	07	H	L	L	G	L							
	Room 114	04	N	H	M	G	L						257 SF	
	↓	05	C	L	H	G	H						257 SF	
	↓	06	K	L	H	G	L						304 SF	(two walls)
	↓	07	H	L	L	G	L							
	Room 115	04	N	H	M	G	L						1742 SF	
	↓	05	C	L	H	G	H						1742 SF	
	↓	06	K	L	H	G	L						152 SF	(one wall)
	↓	07	H	L	L	G	L	↓	↓					
	Closet in the back of the room	No suspect ACM												

U. S. ARMY RESET ENTERS
ASBESTOS SURVL LD LOG

Building Name: Downs USARC

Building Site: Springfield, Ohio

Date: 12-16-92

Building Usage Code: 9

FLOOR	AREA / ROOM #	HOMO AREA	TYPE	ASSESSMENT FRBL	ASSESSMENT ACC	ASSESSMENT COND	ASSESSMENT ACT	# OF OCCUP	DUR OF OCCUP	SAMPLE #	SAMPLE LOCATION	RESULTS	QUANTITY	COMMENTS
	Room 117	04	N	H	M	G	L	12	40				100SF	
	↓	06	K	L	H	G	L	↓	↓				160SF	(two walls)
	↓	07	H	L	L	G	L	↓	↓					
	Room 118	04	N	H	M	G	L	↓	↓				164SF	
	↓	06	K	L	H	G	L	↓	↓				304SF	
	↓	07	H	L	L	G	L	↓	↓					
	Room 119	04	N	H	M	G	L	↓	↓				114SF	
	↓	05	C	L	H	G	H	↓	↓				123SF	
	↓	06	K	L	H	G	L	↓	↓				184SF	
	↓	07	H	L	L	G	L	↓	↓					
	Room 120	04	N	H	M	G	L	↓	↓				106SF	
	↓	05	C	L	H	G	H	↓	↓				106SF	
	↓	06	K	L	H	G	L	↓	↓	#36181	Above the door above drop ceiling	NAD	168SF	
	↓	07	H	L	L	G	L	↓	↓	#36182		NAD		
	Hall to rooms 117, 118, 119, 120	04	N	H	M	G	L	↓	↓				90SF	
	↓	05	C	L	H	G	H	↓	↓				90SF	
	↓	06 07	K H	L L	H L	G G	L L	↓	↓				540SF	

U. S. ARMY RESERVE ... ERS
ASBESTOS SURVEY F... LOG

Building Name: Downs USARC

Building Site: Springfield, Ohio

Date: 12-16-92

Building Usage Code: 9

FLOOR	AREA / ROOM #	HOMO AREA	TYPE	ASSESSMENT FRBL	ACC	COND	ACT	# OF OCCUP	DUR OF OCCUP	SAMPLE #	SAMPLE LOCATION	RESULTS	QUANTITY	COMMENTS
	Room 124	04	N	H	M	G	L	12	40				215 SF	
	↓	05	C	L	H	G	H	↓	↓	#36183	Behind the door	NAD in tile NAD in mastic	200 SF	
	↓	06	K	L	H	G	L	↓	↓				236 SF	(two walls)
	↓	07	H	L	L	G	L	↓	↓					
	Room 125	04	N	H	M	G	L	↓	↓				285 SF	
	↓	05	C	L	H	G	H	↓	↓				285 SF	
	↓	06	K	L	H	G	L	↓	↓				424 SF	(three walls)
	↓	07	H	L	L	G	L	↓	↓					
	Room 126	04	N	H	M	G	L	↓	↓	#36184	Beside light - above door	NAD	285 SF	
	↓	05	C	L	H	G	H	↓	↓				285 SF	
	↓	06	K	L	H	G	L	↓	↓				424 SF	(three walls)
	↓	07	H	L	L	G	L	↓	↓					
	Room 127	04	N	H	M	G	L	↓	↓				247 SF	
	↓	05	C	L	H	G	H	↓	↓				247 SF	
	↓	06	K	L	H	G	L	↓	↓	#36187	Above drop ceiling - in front of door	NAD	256 SF	(two walls)
	↓	07	H	L	L	G	L	↓	↓	#36188	"	NAD		

U. S. ARMY RESERVE CENTERS
ASBESTOS SURVEY LOG

Building Name: Downs USARC

Building Site: Springfield, Ohio

Date: 12-16-92

Building Usage Code: 9

FLOOR	AREA / ROOM #	HOMO AREA	TYPE	ASSESSMENT FRBL	ACC	COND	ACT	# OF OCCUP	DUR OF OCCUP	SAMPLE #	SAMPLE LOCATION	RESULTS	QUANTITY	COMMENTS
1st	Woman's restroom	06	K	L	M	G	L	12	40				49SF	ceiling only
	↓	07	H	L	L	G	L							
	Janitors (room 105) Closet	06	K	L	M	G	L						30SF	ceiling only
	↓	07	H	L	L	G	L							
	Mens restroom	06	K	L	M	G	L						248SF	ceiling only
	↓	07	H	L	L	G	L							
	Room 128	04	N	H	M	G	L						224SF	
	↓	05	C	L	H	G	H						224SF	
	Room 130	04	N	H	M	G	L						320SF	
	↓	05	C	L	H	G	H						320SF	
	Room 129	04	N	H	M	G	L			#36185	Beside air vent - infront of door	NAD	270SF	
	↓	05	C	L	H	G	H			#36186	Right wall - where glass starts	NAD in tile NAD in mastic	270SF	
	Room 131	04	N	H	M	G	L						525SF	
	↓	05	C	L	H	G	H						525SF	
	Room 131 closet	05	C	L	H	G	H						12SF	
	↓	06	K	L	M	G	L						12SF	ceiling only
	↓	07	H	L	L	G	L							

U. S. ARMY RESERV[illegible] NTERS
ASBESTOS SURVEY / LOG

Building Name: [illegible]owns USAFC

Building Site: Springfield, Ohio

Date: 12-16-92

Building Usage Code: 9

FLOOR	AREA / ROOM #	HOMO AREA	TYPE	ASSESSMENT FRBL	ACC	COND	ACT	# OF OCCUP	DUR OF OCCUP	SAMPLE #	SAMPLE LOCATION	RESULTS	QUANTITY	COMMENTS
	Room 132	04	N	H	M	G	L	12	40				536 SF	
	↓	05	C	L	H	G	H						536 SF	
	Room 132 closet	05	C	L	H	G	M						12 SF	
	↓	06	K	L	M	G	L						12 SF	ceiling only
	↓	07	H	L	L	G	L							
	Room 134	05	C	L	H	G	H						135 SF	
	Arms Vault	No suspect ACM												
	Kitchen	06	K	L	M	G	L						288 SF	ceiling only
	↓	07	H	L	L	G	L							
	Skullery	06	K	L	M	G	L						189 SF	ceiling only
	↓	07	H	L	L	G	L							
	Food Storage	06	K	L	M	G	L						126 SF	ceiling only
	↓	07	H	L	L	G	L							
	Drill Hall	04	N	H	L	G	L						1900 SF	
	↓	05	C	L	H	G	H						1900 SF	
	Room 121	04	N	H	M	G	L						113 SF	
	↓	05	C	L	H	G	H	↓	↓				113 SF	

U. S. ARMY RESERV TERS
ASBESTOS SURVEY . LOG

Building Name: Downs USAEC

Building Site: Springfield, Ohio

1985 remediation [illegible]
Pipe chases - fiberglass

Date: 12-16-92

Building Usage Code: 9

FLOOR	AREA / ROOM #	HOMO AREA	TYPE	ASSESSMENT FRBL	ACC	COND	ACT	# OF OCCUP	DUR OF OCCUP	SAMPLE #	SAMPLE LOCATION	RESULTS	QUANTITY	COMMENTS
	Room 122	04	N	H	M	G	L	12	40				113SF	
	↓	05	C	L	H	G	H						113SF	
	Room 123	No suspect ACM												
	Hall & lobby	04	N	H	M	G	L						450SF	
	↓	05	C	L	H	G	H						1450SF	
	Front Entrance	06	K	L	M	G	L						140SF	ceiling only
	↓	07	H	L	L	G	L	↓	↓					
Roof	Roof													- Rubber membrane
	Maintenance Shop													
	Office	04	N	H	M	G	L			#36189	Beside back light	NAD	120SF	
	↓	05	C	L	H	G	H			#36190	Under heat register	NAD	120SF	
	Mens	06	K	L	M	G	L						58SF	ceiling only
	↓	07	H	L	L	G	L							
													(2) 4SF	Possible cloth exp.

Hygeia Environmental Labcratories Inc.

Atlanta
Boston
Los Angeles
New York

Cobb Corporate Center
350 Franklin Road/300
Marietta, Georgia
30067-7749
404-425-9901
FAX: 404-424-0185

RMT, Inc.
100 Verdae Boulevard
P.O. Box 16778
Greenville SC 29606

Subject: PLM Analysis of Bulk Samples
Hygeia Project #: A005-93-027
Client Reference: **942.04 (DOWNS USARC)**

Dear Ms. Miesfeldt:

Please find enclosed the results of our analysis of the bulk samples collected by you and submitted to this laboratory on 12/23/92. All analyses were performed in accordance with the EPA Method 600/M4-82-020, Dec. 1982. The phase abundances are provided as an estimated percent and may be considered within the limits of variability inherent in the method employed.

Hygeia Environmental Laboratories Inc. is accredited under the NIST/NVLAP program for asbestos in bulk materials by polarized light microscopy.

This report includes a summary of the analytical results. Hygeia Environmental Laboratories Inc. is responsible for the accuracy of the analytical results provided in this report only. This report may not be considered a product endorsement by NVLAP or any other government agency. The samples will be retained for a period of ninety days unless otherwise specified.

If you have any questions regarding your results, this report or the analytical methods employed, please contact me at (404) 425-9901.

Sincerely,
Hygeia Environmental
Laboratories Inc.

Julian C. Gray
Supervisor of Light Microscopy
Atlanta Region

jcg/de

Enclosures

Hygeia Environmental Laboratories Inc.

Cobb Corporate Center
350 Franklin Road/300
Marietta, Georgia
30067-7749
404-425-9901
FAX: 404-424-0185

Atlanta
Boston
Los Angeles
New York

PLM Analysis Summary

HEL Project Number: A005-93-027
Client Project ID: 942.04 (DOWNS USARC)

Sample ID		Asbestos Percent					Other Fibers		Non-Fibers		
Client	HEL	Ch.	Am.	Cr.	An.	T/A	Cell.	Glass	Per.	Ver.	Binder
36173	67461-A	30%	40%	2%			5%	5%			18%
Comments: .											
36174	67462-A	35%					5%				60%
Comments: .											
36175	67463-A	5%	25%					10%			60%
Comments: .											
36176	67464-A	30%									70%
Comments: .											
36177	67465-A						25%	25%	25%		25%
Comments: No Asbestos Detected											
36178	67466-A										100
Comments: NAD in tile, NAD in mastic.											
36179	67467-A						5%	25%			70%
Comments: No Asbestos Detected											
36180	67468-A						40%				60%
Comments: No Asbestos Detected											
36181	67469-A						20%				80%
Comments: No Asbestos Detected											
36182	67470-A						30%				70%
Comments: No Asbestos Detected											
36183	67471-A										100
Comments: NAD in tile, NAD in mastic.											
36184	67472-A						25%	35%	20%		20%
Comments: No Asbestos Detected											

Hygeia Environmental Laboratories Inc.

Atlanta
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Los Angeles
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350 Franklin Road/300
Marietta, Georgia
30067-7749
404-425-9901
FAX: 404-424-0185

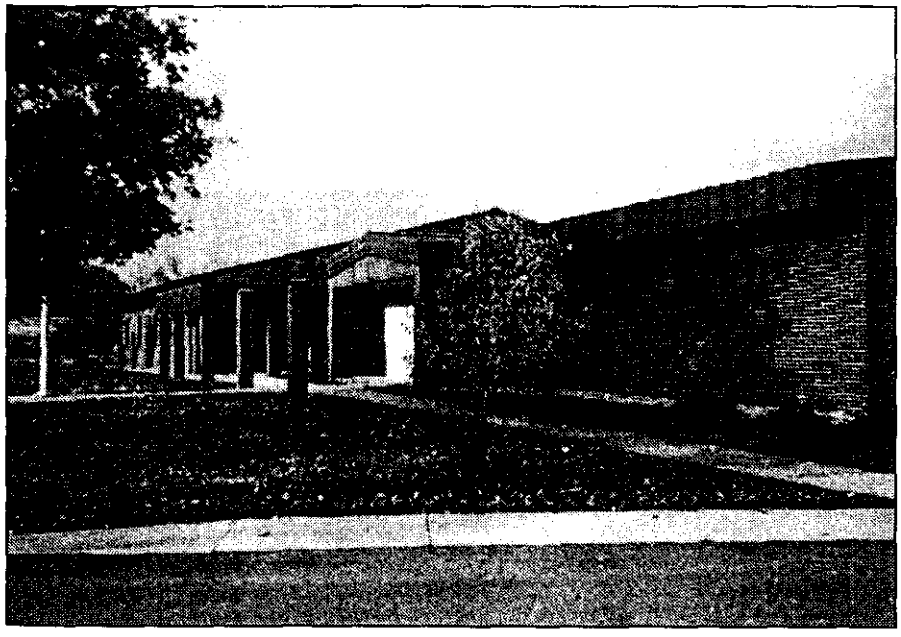
PLM Analysis Summary

HEL Project Number: A005-93-027
Client Project ID: 942.04 (DOWNS USARC)

Sample ID		Asbestos Percent					Other Fibers		Non-Fibers		
Client	HEL	Ch.	Am.	Cr.	An.	T/A	Cell.	Glass	Per.	Ver.	Binder
36185	67473-A						30%	10%	25%		15%
Comments: No Asbestos Detected											
36186	67474-A						2%				98%
Comments: NAD in tile, NAD in mastic.											
36187	67475-A						20%	2%			78%
Comments: No Asbestos Detected											
36188	67476-A						35%				65%
Comments: No Asbestos Detected											
36189	67477-A						30%	30%	20%		20%
Comments: No Asbestos Detected											
36190	67478-A						5%				95%
Comments: No Asbestos Detected											

FORT McCOY
CULTURAL RESOURCES
MANAGEMENT SERIES

Reports of Investigation No. 16
Ohio Section 110 Inventory Volume III
December 1999



Fort McCoy Archaeology Laboratory
Directorate of Training and Mobilization
Fort McCoy, WI 54656-5162

Ohio Section 110 Inventory
Volume III

Archaeological Resource Management Series
Reports of Investigation Number 16

Prepared for:

U.S. Army Reserve Command
88th Regional Support Command
Environmental Management Division
Fort Snelling
Minneapolis, Minnesota

Prepared by:

Heather L. Spencer
Fort McCoy Archaeology Laboratory
Directorate of Training and Mobilization
Fort McCoy, Wisconsin
December 1998

Editorial Review:

Andrea Den Otter
Fort McCoy Archaeology Laboratory
December 1999

Cover: LT Jacob Parrott USARC Reserve Center

National Historic Preservation Act of 1966, as Amended
Section 110

"In accordance with subsection 101(F) of the National Historic Preservation Act, the Secretary of the Interior in consultation with the Advisory Council on Historic Preservation, has developed the following guidelines for carrying out Federal agency responsibilities under Section 110 of the Act...Federal Agencies should follow these guidelines in establishing, monitoring, reviewing, and evaluating their programs for compliance with Section 110 of the Act. State Historic Preservation Officers should refer to these guidelines when providing assistance to Federal agencies under Sections 101(b)(3)(E) and (F) of the Act. The advisory Council on Historic Preservation [Council] will use these guidelines, as applicable, and recommend their use to Federal agencies, State Historic Preservation Officers, and others in agreements executed pursuant to Section 106 of the Act and 36 CFR Part 800. The Council will also use these guidelines in its review of Federal agency programs under Section 202(a)(6) of the Act...*Section 110(a)(1)*: "The heads of all Federal agencies shall assume responsibility for the preservation of historic properties which are owned or controlled by such agency. Prior to acquiring, constructing, or leasing buildings for purposes of carrying out agency responsibilities, each Federal agency shall use, to the maximum of the extent feasible, historic properties available to the agency. Each agency shall undertake, consistent with the preservation of such properties and the mission of the agency and the professional standards pursuant to Section 101(f) any preservation, as may be necessary to carry out this section" *Section 110(a)(2)*: "With the advice of the Secretary and in cooperation with the State Historic Preservation Officer for the State involved, each Federal agency shall establish a program to located, inventory, and nominate to the Secretary all properties under the agency's ownership or controlled by the agency, that appear to qualify for inclusion on the National Register in accordance with the regulations promulgated under Section 110(a)(2)(A). Each Federal agency shall exercise caution to assure that any such property that might qualify for inclusion is not inadvertently transferred, sold, demolished, substantially altered, or allowed to deteriorate significantly. Section 110(b): "Each Federal agency shall initiate measures to assure that where, as a result of Federal action or assistance carried out by such agency, a historic property is to be substantially altered or demolished, timely steps are taken to make or have made appropriate records, and that such records then be deposited, in accordance with Section 101(a), in the Library of Congress or with such other appropriate agency as may be designated by the Secretary, for future use and reference" *Section 100(c)*: "The head of each Federal Agency shall, unless exempted under Section 214, designate a qualified official to be known as the agency's "preservation officer who shall be responsible for coordinating that agency's activities under the Act. Each Preservation Officer may, in order to be considered qualified, satisfactorily complete and appropriate training program established by the Secretary under Section 110(g)." *Section 100(d)*: "Consistent with the agency's mission and mandates, all Federal agencies shall carry out agency programs and projects (including those under which any Federal assistance is provided for any federal license, permit, or other approval is required) in accordance with the purposes of this Act and, give consideration to programs and projects which will further the purposes of this Act." *Section 110(e)*: "The Secretary shall review and approve the plans for transferees of surplus federally owned historic properties not later than ninety days after his receipt of such plans to ensure that the prehistorical, historical, architectural, or culturally significant values will be preserved or enhanced. *Section 110(f)*: "Prior to the approval of any Federal undertaking which may directly and adversely affected any National Historic Landmark, the head of the responsible Federal agency shall, to the maximum extent possible, undertake such planning and actions as may be necessary to minimize harm to such landmark, and shall afford the Advisory council on Historic Preservation a reasonable opportunity to comment on the undertaking" *Section 110(g)*: "Each Federal agency may include the costs of preservation activities of such agency under this Act as eligible project costs in all undertakings such agency or assisted by such agency. The eligible project costs may also include amounts paid by a federal agency to any state to be used in carrying out, such preservation responsibilities of the federal agency under this Act, and reasonable costs may be charged to Federal licensees and permits as a condition to the issuance of such license or permit." *Section 110(h)*: "The Secretary shall establish an annual preservation awards program under which he may make monetary awards in amounts not to exceed $1,000 and provide citations for special achievements to officers and employees of Federal, State, and certified local governments in recognition of their outstanding contributions to the preservation of historic resources. Such programs may include the issuance of annual awards by the President of the United States to any citizen of the United States recommended for such award by the Secretary;" *Section 110(i)*: "Nothing in this Act shall be construed to require the preparation of an environmental impact statement where such a statement would not otherwise be required under the National Environmental Policy Act 1969, and nothing in this Act shall be construed to provide exemption from any requirement respecting the preparation of such a statement under such Acts." *Section 110(j)*: "The secretary shall promulgate regulations under which the requirements of this section may be waived in whole or in part in the event of a major natural disaster or an imminent threat to national security."

Introduction

In 1996, the Fort McCoy Archaeology Laboratory contracted with the 88th RSC to conduct a historic properties inventory under the provisions of Section 110 of the NHPA. The inventory included all USARC facilities owned or leased by the 88th RSC in the state of Ohio. This report describes the recordation, evaluation methods, and results of the inventory. Additionally, this report documents the sources and informants used to evaluate the actions to nominate properties to the NHRP. Recommendations for NRHP reevaluation are also included.

Preliminary investigations included meetings with officials of the Ohio State Historic Preservation Office (SHPO) and documentary research conducted at the Ohio State Historical Society, regional county courthouses, and local libraries. Oral interviews were conducted with USARC personnel at each facility. The Ohio Archaeological Sites Index, maintained by the Ohio SHPO, was consulted to determine the location of any known archaeological sites located within a one-mile radius of each USARC facility. Fieldwork for the project was conducted during August-November 1997. All Ohio listings in the NRHP were reviewed prior to commencement of fieldwork for the inventory. Those properties on all USARC facilities that met the criteria for NRHP eligibility were examined and recorded to assess their potential for possible nomination to the NRHP.

Statement of Purpose

The Fort McCoy Archaeology Laboratory Section 110 inventory of the USARC facilities within the state of Ohio was conducted consistent with the *Secretary of the Interior's Standards and Guidelines for Identification and Evaluation* (*Standards*).

The primary goal of the NHPA, according to the *Standards*, is to "preserve prehistoric and historic resources throughout the nation for the inspiration and benefit of present and future generations." In fulfillment of this goal, governmental agencies, within the framework of their missions, are charged with administering federally owned, administered, or controlled prehistoric and historic resources in a spirit of stewardship, and caring for significant prehistoric and historic properties in ways that ensure long-them protection and integrity of those properties.

The *Standards* require agencies to identify, evaluate, and document their historic properties, and nominate them to the NRHP. According to the *Standards*, "identification, evaluation, and documentation of historic properties are critical in the long-term management of historic properties, as well as in program and project specific planning by a federal agency. The *Standards* also require that "the agency manages and maintains its historical properties in ways that preserve the properties historic, archaeological, architectural, or cultural values," and that "the agency considers historic properties in addition to its own when planning activities that may affect them." Agencies are also required under the *Standards* to develop "a process that identifies and evaluates historic properties in a timely fashion," and "a process that develops and implements agreements regarding the means by which adverse affects on historic properties will be considered." The documentation of historic properties, before they are substantially altered or demolished, and the placement of the documentation in an appropriate repository for future use and research, is also required.

In complying with the requirements of Section 110(a) (2) of the NHPA and the *Standards*, researchers from the Fort McCoy Archaeology Laboratory conferred with the Ohio SHPO regarding previous archaeological

or historical architectural investigations of U.S. Army Reserve Command properties within the State of Ohio. No information on previous archaeological or architectural documentation was found for the USARC facilities in Ohio. Discrepancies between existing documentary files about USAR buildings and structure and on-site recordation conducted by members of the Fort McCoy Archaeology Laboratory are recorded in detail within the individual facility sections of this report. All known archaeological sites within one-mile of the USARC facilities were also identified and documented. Historic themes established by the Ohio SHPO were followed in preparation of the historic context, and in identifying historic properties.

All fieldwork was conducted by Fort McCoy Archaeology Laboratory personnel who meet the *Secretary of Interior's Professional Qualification Standards* at 36 CFR61. The field recordation methods employed in the inventory follow accepted practices within the field of historic research and historic preservation. These included, but were not limited to, on-site evaluation and documentation of historic buildings and properties, review of all pertinent historical documentation of historic buildings and properties, review of all pertinent historical documentation, and interviews with facilities managers regarding the properties. Assessments of potential eligibility for the NRHP were made based upon the field research, on-site documentation and post inventory evaluation.

Factors That May Precipitate a Change in Status

The recommendations contained within this report are based upon the current legal ownership and physical conditions. Changes in the status of these properties may require a reevaluation of the property, or require additional investigations in compliance with Section 106 of the NHPA. Examples of changes that could necessitate a reevaluation of properties include, but are not limited to, demolition, demolition by neglect, construction, rehabilitation, or disposition.

Methodology

Members of the Fort McCoy Archaeology Laboratory conducted a formal literature and record search of each facility. The objective of this search was to establish the historical and archaeological context associated with each USARC. Searches conducted at local historical societies and municipal governments provided additional documentary and cartographic information relevant to the historic context of individual USARC facilities. Research was also conducted at the Ohio SHPO offices to obtain information relative to the location of all recorded archaeological sites within a one mile radius of each USARC facility. All existing archaeological sites were documented and evaluated in terms of their significance to USARC locations. A surface reconnaissance survey was conducted on the land associated with each USARC facility.

Architectural Study Methods

The architectural survey undertaken by members of the Fort McCoy Archaeology Laboratory was conducted using guidelines published by the Historic American Building Survey (HABS) and the Ohio SHPO. Data represented in this report was collected with methods that includes:

1) a literature review of the historic documents relating to the construction and maintenance of each building on the USARC facilities;

2) an architectural evaluation of the potential eligibility of each building on the USARC facilities;

3) a surface reconnaissance of land associated with each USARC facility.

The historic themes used to evaluate the historic contexts associated with the properties analyzed in this inventory were taken directly from the guidelines identified by the Ohio SHPO. The results of the historical, architectural, and surface surveys conducted by members of the Fort McCoy Archaeological Laboratory are described in the following sections of this report.

Historical Literature Review

The methodology for the Ohio Section 110 Inventory was designed to establish a historic context for each USARC facility to assess the potential eligibility of USARC buildings for nomination to the NRHP. In preparation for the documentation of each USARC facility, historic research was conducted by members of the Fort McCoy Archaeology Laboratory and included:

1) examination of real property records maintained by the 88th RSC;

2) examination of real property records located at each USARC facility (when available);

3) an interview with the facility manager at each USARC facility;

4) NRHP eligibility nominations filed with the Ohio SHPO (when applicable);

5) examination of the Archaeological Sites Index maintained by the Ohio SHPO;

6) examination of the historic documents housed at the Ohio State Historical Society, regional county courthouses, and local libraries;

7) examination of previous cultural resource, archaeological, architectural, and environmental surveys available about each USARC facility (when available).

Architectural Fieldwork

Historic research of buildings at each USARC facility was conducted to establish an initial database of the architectural styles that would be encountered during on-site documentation. On-site fieldwork consisted of producing in-depth textual descriptions that included:

1). Architect/Builder
2). Type of building
3). Date of construction
4). Date of acquisition
5). Architectural style

6). Foundation material
7). Number of bays
8). Plan shape
9). Wall construction
10). Roof type
11). Roof materials
12). Chimney construction
13). Chimney placement
14). Type and location of entrances
15). Type and location of fenestration
16). Relationship of all buildings on the facility
17). Integrity of each building
18). Potential threat to the buildings
19). Future research potential at the facility
20). Assessment of the potential eligibility of each building to the NRHP under Criteria A, B, C, and D

Photo documentation captured the exterior of each building at the Ohio USARC facilities, including unique architectural elements. Photos were recorded in 35 mm black and white and Kodak DC 50 digital format. Data collected during on-site documentation and assessments was compiled into the Ohio Section 110 report and entered into USARC databases maintained by the Fort McCoy Archaeology Laboratory.

The Ohio Section 110 Inventory Report

An on-site assessment of the historic, architectural, and archaeological significance was accomplished to determine if buildings and/or districts on each USARC facility were potentially eligible for nomination under Criteria A, B, C, and D to the NRHP. The Ohio Section 110 Inventory is intended to provide the Commander, 88th RSC, with a comprehensive overview of all USARC properties in Ohio. Specifically, this report provides architectural, historic, archaeological, and security information to aid in the management of the physical resources located on USARC facilities owned or leased by the 88th RSC. Data contained in the individual sections of this report were recorded and presented in accordance with standards established by HABS and *the Secretary of the Interior's Guidelines for Section 110 of the NHPA.*[1]

Information included in discussions of individual USARC facilities may be repeated in the introduction and discussion sections. Information contained in the individual USARC facility sections include:

1). Facility Identification Number
2). Facility Name
3). Facility Address
4). USGS 7.5 Minute Series Quadrangle Map
5). UTM coordinates
6). Present Ownership/Occupant
7). Setting & Landscape
8). Archaeological Resources
9). Historical Information
10). Architectural Information
11). Security

12). Building Descriptions
13). Eligibility
14). Recommendations
15). Sources
16). Notes

National Register Criteria of Evaluation

Each building on the USARC facilities was assessed for its potential eligibility to the NRHP as defined in 36 CFR Part 60. The criteria used to evaluate the eligibility of properties for potential nomination to the NRHP assesses the significance of each facility in terms of its contribution to American history, historic persons, architecture, engineering, and archaeological research. The NRHP criteria and criteria considerations include:

Criteria:

A. That are associated with events that have made a significant contribution to the broad patterns of our history; or

B. That are associated with the lives of persons significant in our past; or

C. That embody the distinctive characteristics of a type, period, or method of construction or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or

D. That have yielded, or may be likely to yield, information important in prehistory or history.[2]

Criteria Considerations:

A. A religious property deriving primary significance from architectural or artistic distinction or historical importance; or

B. A building or structure removed from its original location but which is significant primarily for architectural value, or which is the surviving structure most importantly associated with the historic person or event; or

C. A birthplace or grave of a historical figure of outstanding importance if there is no other appropriate site or buildings directly associated with his productive life; or

D. A cemetery which derives its primary significance from graves of persons of transcendent importance, from age, from distinctive

design features, or from association with historic events; or

E. A reconstructed building when accurately executed in a suitable environment and presented in a dignified manner as part of a restoration master plan, and when no other building or structure with the same association has survived; or

F. A property primarily commemorative in intent if design, age, tradition, or symbolic value has invested it with its own historical significance;

G. A property achieving significance within the past 50 years if it is of exceptional importance.[3]

Historic Background

The European-American history of Ohio spans the past 330 years. During this time the physical character of the state changed from that of a sparsely settled, densely forested land, to a heavily populated state of large urban centers interspersed with small communities and farms. The Ohio Historic Preservation Office's research themes for Cultural Resources Management will be followed in this report.

History of Ohio

A French explorer, Nicolas Sanson d'Abbeville, mapped Lake Erie as early as 1650[4]. Rene Robert Cavelier Sieur de La Salle is thought to have discovered the Ohio River in 1669. Aside from the major waterways, the area that was to become Ohio was bypassed during the initial wave of French exploration to avoid conflict with the Iroquois Confederacy.[5] The French recognized the economic importance of the region, but were unable to establish effective control over such a vast area.

Beginning in the late 1600s and early 1700s, British explorers and trappers began to enter Ohio from Pennsylvania and Virginia. Both British and French crowns claimed the area; the French by right of discovery and the British by reliance on the traditional venue of royal charters. Competing French and British interests continued until 1752 when open warfare began in 1752. French-Canadians and Indians attacked and destroyed a Miami village with allegiance to Britain near the town of Pickawillany.[6] Although the French tried to maintain a viable national presence in Ohio, the final outcome of the French and Indian War[7] sealed the fate of the region when France abandoned the territory with the Treaty of 1763.

The period of official British control over the area was brief. Following the Treaty of 1763, the British Crown attempted to control trade with various Indian and French groups. The British soon found, however, that they also had a problem with increasing American encroachment into the region, resulting in conflict with the resident Native American tribes. In 1763, the British Crown issued a decree that forbade Americans from settling beyond the Appalachians and like most British decrees, was largely ignored by the American frontiersmen. At the start of the American Revolution, British control of Ohio was tenuous at best. Although large delegations of Native Americans signed a neutrality treaty at Fort Pitt in September 1775, by 1777, cross-border raids had resulted in open conflict between the tribes and American settlers, with the Native Americans increasingly aligned with the British[8]. Ohio was the scene of several skirmishes during the war,

Springfield, Ohio

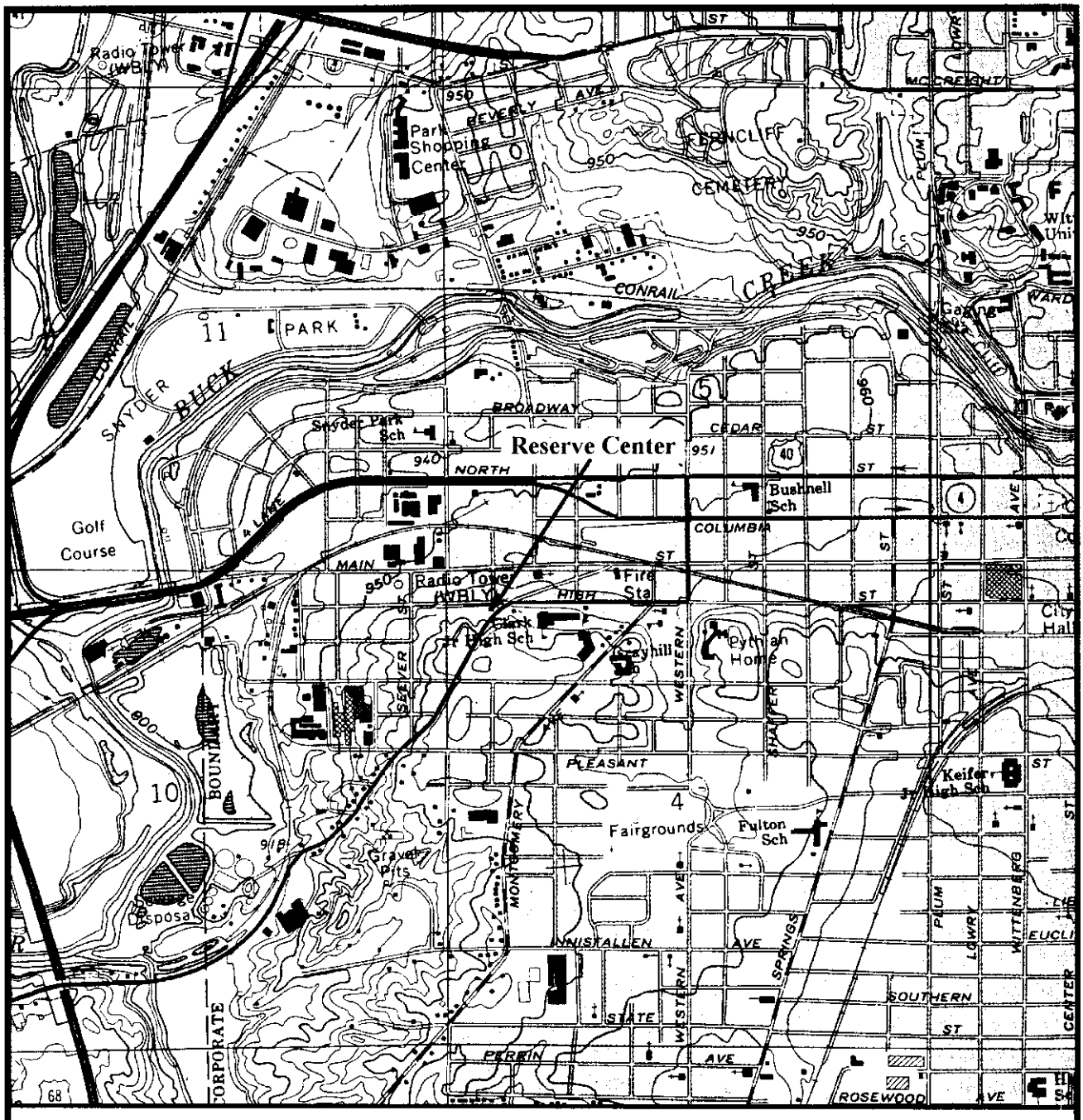
SFC Morgan L. Downs USARC

Identification Information:	Identification Number: OH059/39955 SFC Morgan Downs USARC 1515 West High St., Springfield, Clark County, Ohio 45506-1197 Telephone Number: (937) 322-1295 Springfield Quadrangle, Ohio-Clark Co., USGS 7.5 Minute Series, T4N R9W, Section 4 (Figure 488) UTM: Z17, 257664E, 4423325N Present Owner/Occupant: The facility is owned by the United States Government and controlled by the 88th RSC.
Setting and Landscape:	The SFC Morgan Downs USARC consists of two buildings located on three acres of land (SP001) in Springfield, Ohio (Figure 489). The facility is landscaped with grass, trees, and shrubs.
Archaeological Resources:	An archaeological records search at the Ohio State Historic Preservation Office determined that there are no known archaeological sites located within a one-mile radius of the SFC Morgan Downs USARC.
Historical Information:	The SFC Morgan Downs USARC was originally constructed in 1957 and dedicated "in memory of Sergeant First Class Morgan L. Downs who...[gave] his life in defense of his country while serving in Korea."[1] In 1986, the facility was extensively renovated with modifications that changed the original design of the Reserve Center and Organizational Maintenance Shop. Alterations included the construction of additional space and installing a gray stucco façade over the original brick veneer finish on the exterior of both structures.[2] The significant modifications to the Reserve Center and Organizational Maintenance Shop led to reestablishing the construction date in the 88th RSC DSCEN Real Property records as 1986. In 1996, the 88th RSC assumed control of the SFC Morgan Downs USARC.[3]

Security:	Security measures at the SFC Morgan Downs USARC include chain-link fencing topped with barbed wire surrounding the facility. A visibility screen is interwoven within the chain-link on the north and west sides of the property. A second chain-link fence topped with barbed wire encloses the Organizational Maintenance Shop and a military vehicle parking area. High intensity lighting is also present to illuminate military and civilian vehicle parking areas.
Architectural Information:	The SFC Morgan Downs USARC consists of two concrete block buildings with a red brick veneers covered with gray stucco. The buildings do not appear to exhibit historical or architectural character or merit that significantly contributes to the historic context of the period associated with their construction.
Building Descriptions:	**Reserve Center** (SP002) The Reserve Center functions as an administrative and drill facility for the SFC Morgan Downs USARC. The structure was constructed in 1957[4], as a rectangular building that rested on a concrete foundation with concrete block walls and a brick veneer. The Reserve Center underwent an extensive renovation in 1986, when additional space was added to the south and east sections of the building modifying it into a multiple-level irregular-shaped structure (Figure 490). A gray stucco façade was also installed on the exterior at that time. A pair recessed entrance containing a pair of glass pedestrian doors with one-over-one fixed light sidelights and a single light transom is located on the west side of the building (Figure 491). A tiled walkway leads from a civilian vehicle parking area to the western entrance. Two sets of concrete stairs are located between the public sidewalk and the Reserve Center on the west side of the building. Additional entrances include single and paired metal pedestrian doors located on the north, south, east, and west walls (Figure 492). Fenestrations include single light fixed and casement ribbon windows arranged in geometrical patterns on the north, south, and east walls (Figure 493). Sections of corning glass block windows are located near the entrance on the west wall. A flat roof covers the structure. **Organizational Maintenance Shop** (SP003) The Organizational Maintenance Shop functions as a vehicle maintenance facility for the SFC Morgan L. Downs USARC. The structure was constructed in 1957 as a rectangular building that rested on a concrete foundation with concrete block walls and a brick veneer. The

	Organizational Maintenance Shop underwent an extensive renovation in 1986 when additional space was added, modifying it into a multiple-level rectangular structure. A gray stucco façade was also installed on the exterior at that time (Figure 494). Two metal overhead retractable bay doors are located on the north wall of the building (Figure 495). Additional entrances include single and paired metal pedestrian doors along the east and west walls (Figure 496). A single light fixed window is located on the east wall. A flat roof covers the one-and-one-half-story maintenance bay, and a low-pitch shed roof covers the administration area (Figure 497).
Eligibility:	None of the buildings located at the SFC Morgan L. Downs USARC meet the criteria for the National Register of Historic Places (NRHP), under Criterion A, B, C, or D, and thus are not recommended for nomination to the NRHP. A documentary and architectural investigation conducted at the facility determined there is no direct relationship between the facility and prehistoric or historic events in the Springfield area (criterion A), there is no association with significant persons involved in prehistoric or historic events (criterion B), buildings on the facility are not architecturally or technologically significant (criterion C), and the facility is unlikely to hold future research potential (criterion D).
Recommendations:	No additional review under Section 110 is recommended until the existing buildings at the SFC Morgan L. Downs USARC reach the 50 year eligibility requirement for the NRHP in 2036, or unless specific undertakings require compliance with Section 106 of the National Historic Preservation Act (36 CFR 800).
Sources:	"Annual Utilization Survey-USAR Real Estate Authority: SFC Morgan L. Downs U.S. Army Reserve Center." 83rd RSC Real Estate Division. 5 March 1989. "Annual Utilization Survey –USARC Real Estate Authority." 5 March 1989. "Environmental Audit of Downs U.S. Army Reserve Center." Lexington, Kentucky: Howard K. Bell, Consulting Engineers, Inc. 1991. "Real Estate Utilization Inspection Report," 24 July 1969.

	"Springfield Quadrangle, Ohio-Clark Co." USGS 7.5 Minute Series Map. Denver, Colorado: United States Geological Survey. photorevised 1981. "Transfer and Acceptance of Military Real Property." 88th RSC DSCEN Real Estate Division. 25 September 1996.
Notes:	[1] "Annual Utilization Survey-USAR Real Estate Authority: SFC Morgan L. Downs U.S. Army Reserve Center," 83rd RSC Real Estate Division, 5 March 1989, p. 1. [2] Ibid. and "Real Estate Utilization Inspection Report," 24 July 1969. Copies of these reports are on file at the 88th RSC DSCEN Real Estate Division Office, Fort Snelling, Minnesota. [3] "Transfer and Acceptance of Military Real Property," 88th RSC DSCEN Real Estate Division, 25 September 1996. The 88th RSC assumed control of the SFC Morgan Downs USARC from the 83rd RSC. [4] "Annual Utilization Survey –USARC Real Estate Authority," 5 March 1989, p. 1.



Springfield Quadrangle, USGS 7.5 Minute Series

Figure 488. Location of the SFC Morgan Downs USARC.

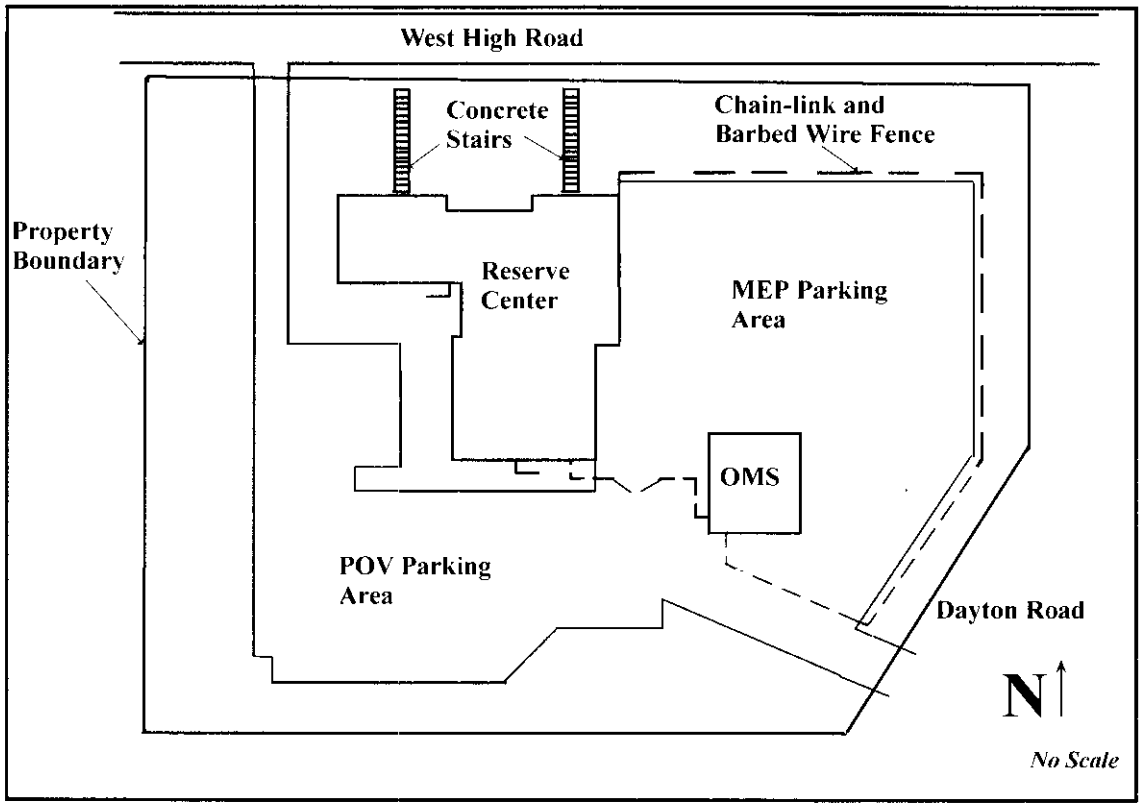


Figure 489. Map of the SFC Morgan Downs USARC (map modified from "Environmental Audit of Downs U.S. Army Reserve Center," Howard K. Bell, Consulting Engineers, Inc., Attachment No. 1).

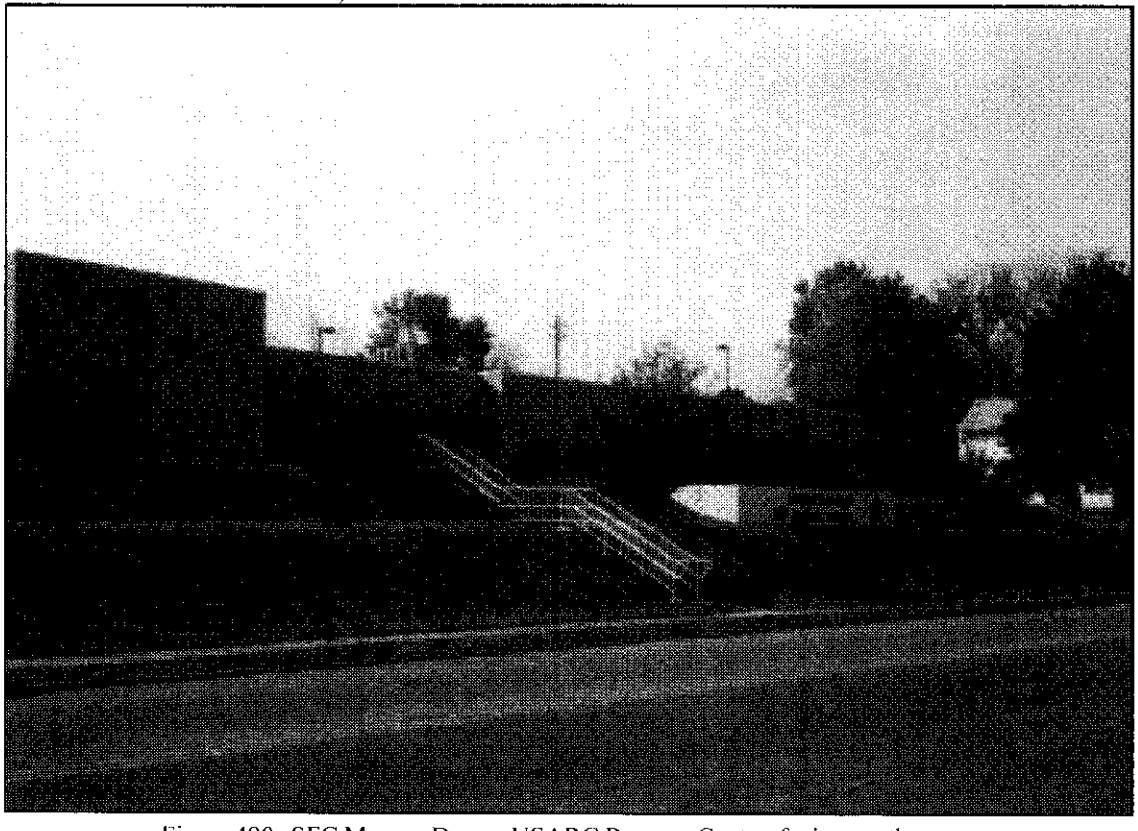


Figure 490. SFC Morgan Downs USARC Reserve Center, facing southwest.

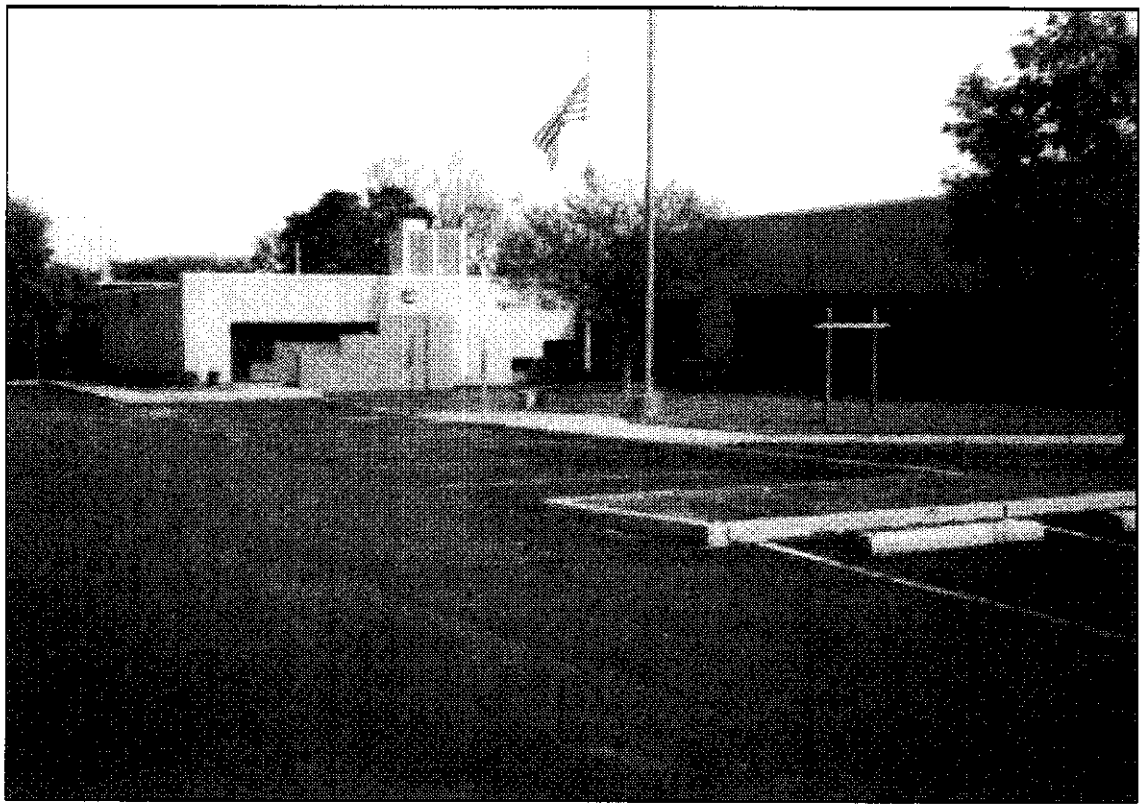


Figure 491. SFC Morgan Downs USARC Reserve Center, facing northeast.

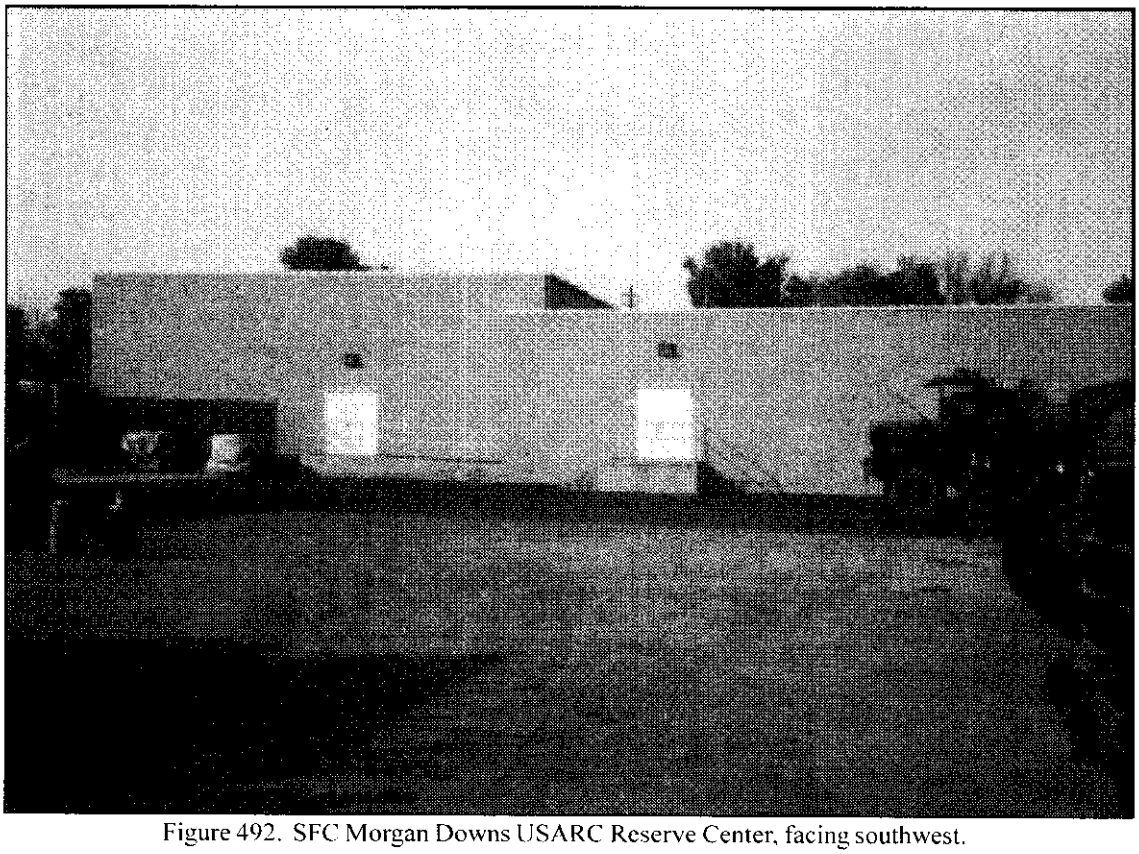


Figure 492. SFC Morgan Downs USARC Reserve Center, facing southwest.

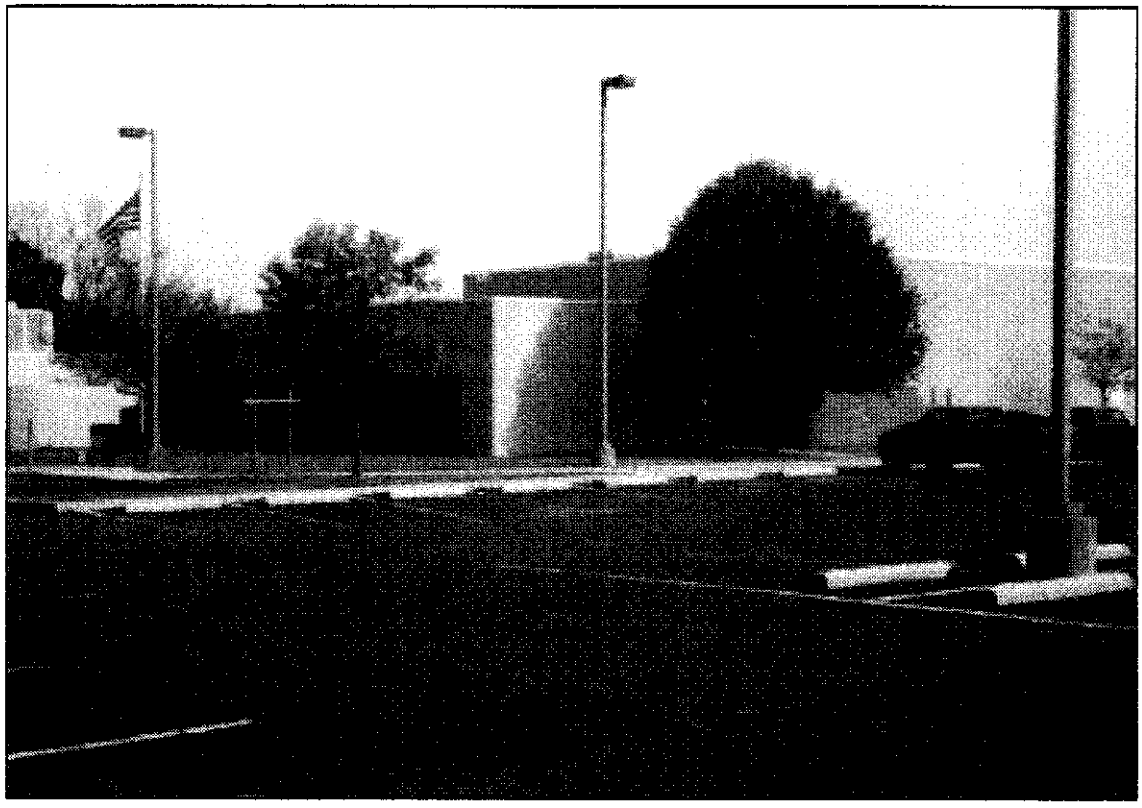


Figure 493. SFC Morgan Downs USARC Reserve Center, facing northeast.

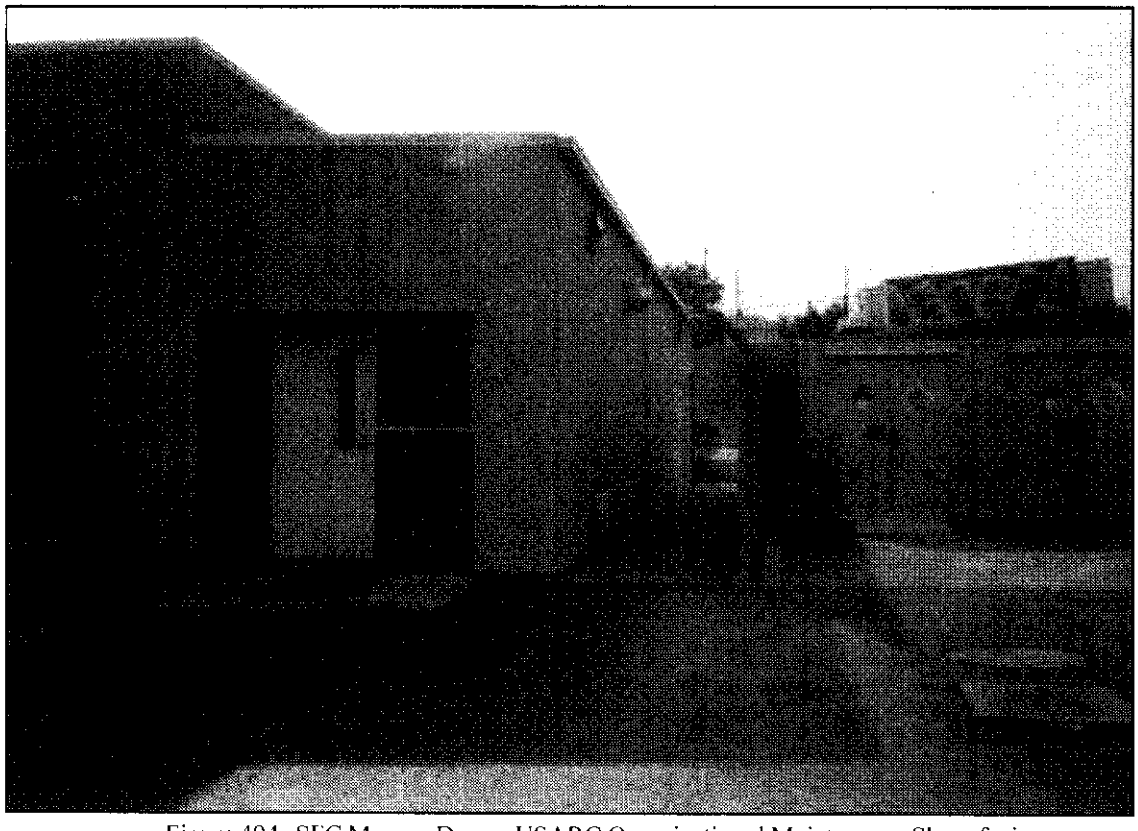


Figure 494. SFC Morgan Downs USARC Organizational Maintenance Shop, facing southeast.

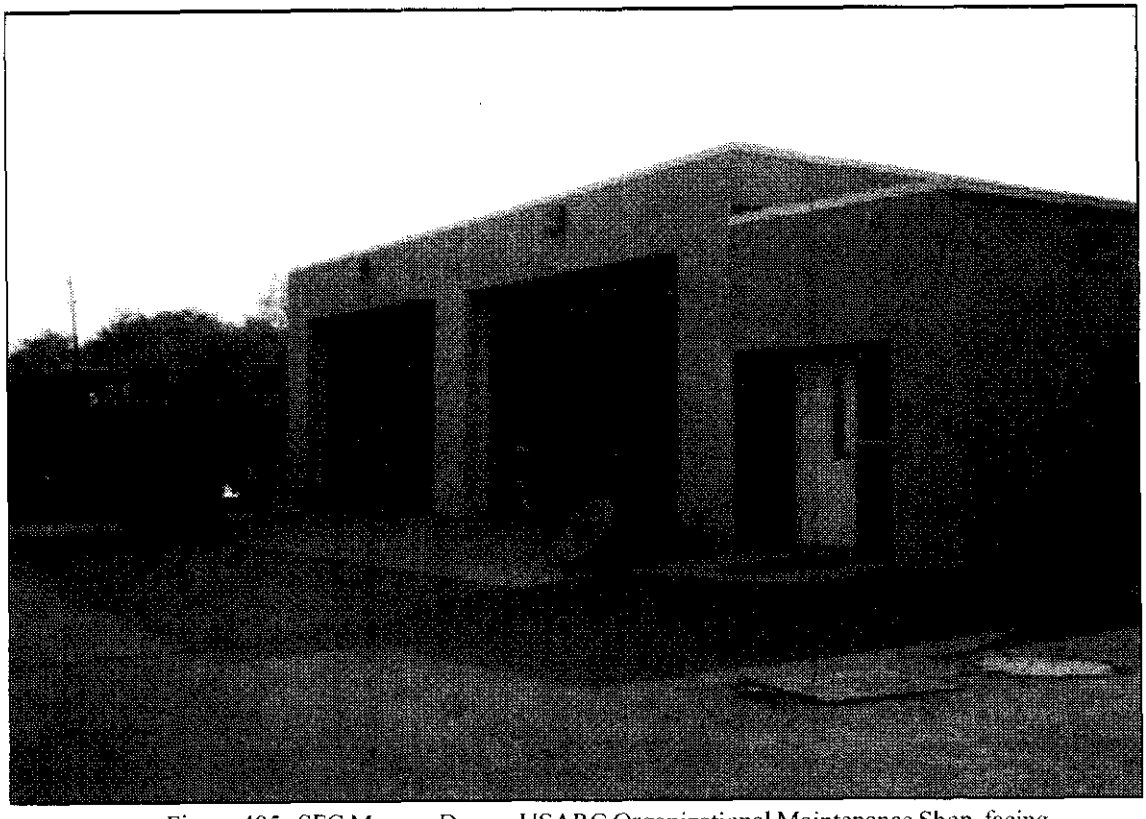


Figure 495. SFC Morgan Downs USARC Organizational Maintenance Shop, facing southeast.

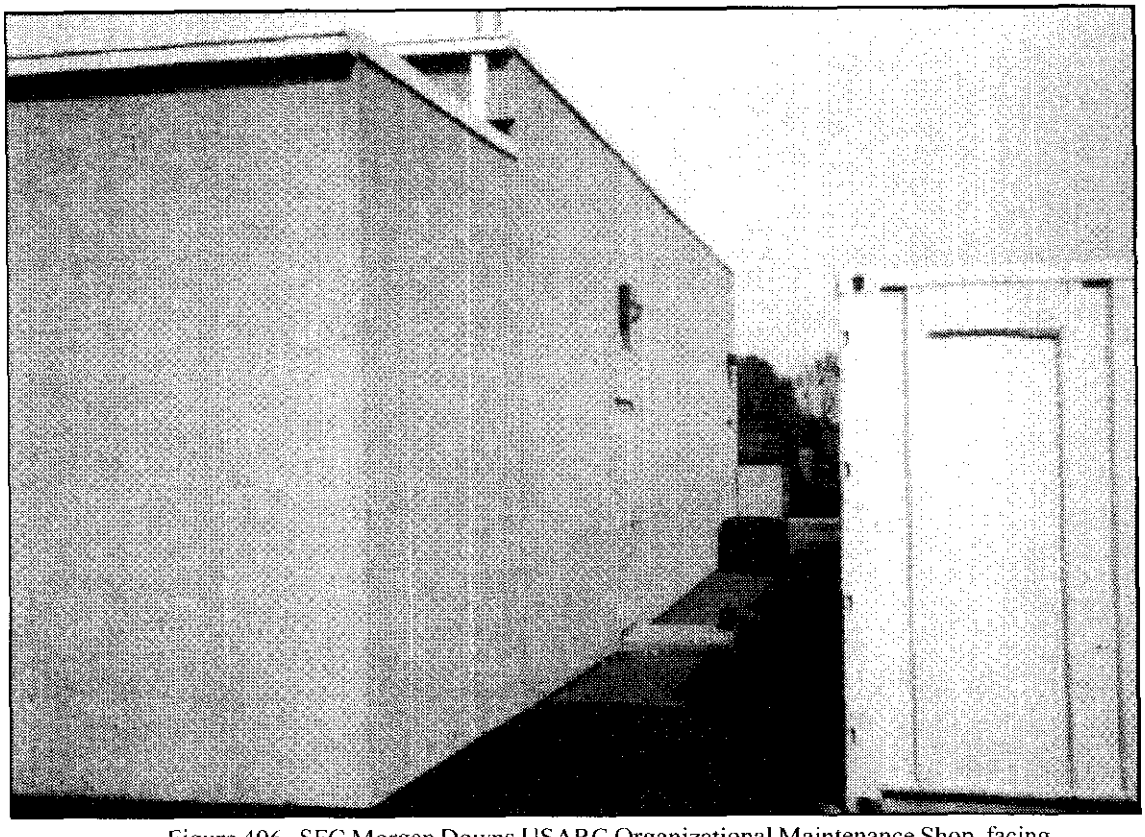


Figure 496. SFC Morgan Downs USARC Organizational Maintenance Shop, facing northwest.

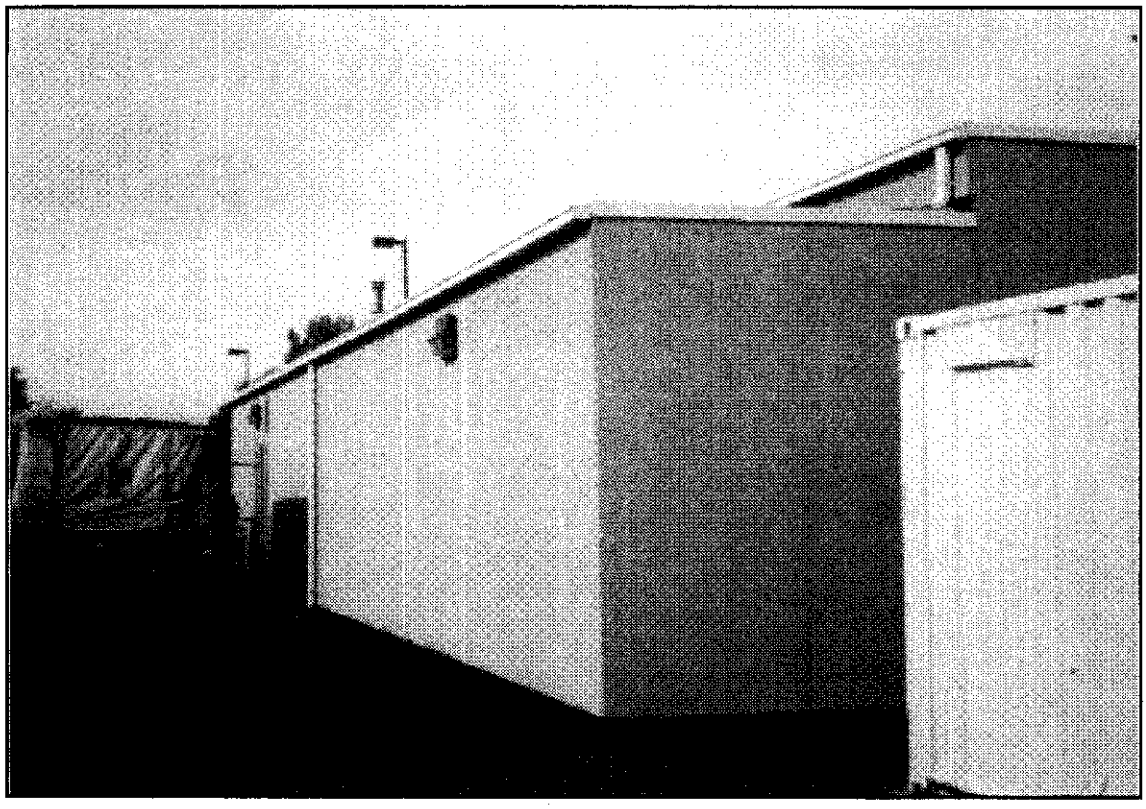


Figure 497. SFC Morgan Downs USARC Organizational Maintenance Shop, facing northwest.

OH059

OHIO HISTORIC INVENTORY

Ohio Historic Preservation Office
1985 Velma Ave.
Columbus, Ohio 43211
614/297-2470

OHIO HISTORICAL SOCIETY SINCE 1885

1 No.

2 County: Clark County

4 Present Name(s): SFC Morgan Downs USARC Reserve Center ☐ Coded

3 Location of Negatives: Fort McCoy Archaeology Laboratory

Roll No. Picture No (s)

5 Historic or Other Name(s): N/A

6 Specific Address or Location: 1515 West High Street, Springfield, Ohio 45506-1197

5a Lot, Section or VMD Number

7 City or Village: Springfield, Ohio — If Rural, Township & Vicinity

8 Site Plan with North Arrow

9 U.T.M. Reference — Quadrangle Name: Springfield Quadrangle

Zone	Easting	Northing
17	257664	4423325

10 Site ☐ Structure ☐ Building ☑ Object ☐

11 On National Register? Yes ☐ No ☑

12 N.R. Potential? Yes ☐ No ☑

13 Part of Estab Hist. Dist.? Yes ☐ No ☑

14 District Potential? Yes ☐ No ☑

15 Name of Established District (N.R. or Local): N/A

16 Thematic Association(s): None

17 Date(s) or Period: None

17b Alteration Date(s): N/A

18 Style or Design: None ☐ High Style ☐ Elements

18a Style of Addition or Element(s): None

19 Architect or Engineer: Unknown

19a Design Sources: Unknown

20 Contractor or Builder: Unknown

21 Building Type or Plan: Irregular-shaped

22 Original Use, if apparent: U.S. Army Reserve Center

23 Present Use: U.S. Army Reserve Center

24 Ownership: U.S. Government — Public ☐ Private ☐

25 Owner's Name & Address, if known: Property controlled by 88th RSC Real Estate Division, 506 Roeder Circle, Fort Snelling, MN 55111-4017

26 Property Acreage: 3 acres

27 Other Surveys in Which Included: N/A

28 No. of Stories: 2

29 Basement? Yes ☐ No ☑

30 Foundation Material: Concrete

31 Wall Construction: Concrete Block

32 Roof Type & Material: Flat

33 No. of Bays: Front 9 Side 8

34 Exterior Wall Material(s): Stucco &Brick Veneer

35 Plan Shape: Irregular

36 Changes (Explain in #42): Addition ☐ Altered ☑ Moved ☐

37 Window Type(s): ☐ 6 over 6 ☐ 2 over 2 ☐ 4 over 4 ☑ Other

38 Building Dimensions: 47m x 38m

39 Endangered? Yes ☐ By What? No ☑

40 Chimney Placement: N/A

41 Distance from and Frontage on Road

42 Further Description of Important Interior and Exterior Features (Continue on reverse if necessary)

The Reserve Center was constructed in 1957 as a rectangular building that rests on a concrete foundation with concrete block walls and a brick veneer. The Reserve Center underwent an extensive renovation in 1986, when additional space was added to the south and east sections of the building modifying it into a multiple-level, irregular-shaped building. A gray stucco facade was also installed over the brick veneer at that time. A pair of recessed entrances containing a pair of glass pedestrian doors with one-over-one light fixed sidelights and a single light transom is located on the west side of the building. A tiled walkway leads from a civilian parking area to the western entrance. Two sets of concrete stairs are located between

PHOTO

PHOTO

43 History and Significance (Continue on reverse if necessary)

N/A

44 Description of Environment and Outbuildings (See #52)

N/A

45 Sources of Information

"Annual Utilization Survey-USAR Real Estate Authority: SFC Morgan L. Downs U.S. Army Reserve Center." 83rd RSC Real Estate Division. 5 March 1989.
"Annual Utilization Survey-USARC Real Estate Authority." 5 March 1989.
"Environmental Audit of Downs U.S. Army Reserve Center." Lexington, Kentucky: Howard K. Bell, Consulting Engineers, Inc. 1991.
"Real Estate Utilization Inspection Report." 24 July 1969.

46 Prepared by: Heather Spencer

47 Organization: Fort McCoy Archaeology Laboratory

48 Date Recorded in Field: 10/30/97

49 Revised by

50a Date Revised

50b Reviewed by

1. No. | 2. County | 4,5. Present or Historic Name | 6. Specific Address or Location

51. Condition of Property

- ☐ Excellent
- ☑ Good/Fair
- ☐ Deteriorated
- ☐ Ruin
- ☐ Destroyed/Burned

Date _____

52. Historic Outbuildings and Dependencies

Barn Type(s)

N/A

Corn Crib or Shed ☐	Smoke House ☐	Privy ☐
Summer Kitchen ☐	Spring House ☐	Garage ☐
Silo ☐	Ice House ☐	
Designed landscape features ☐		

N/A

53. Affiliated OAI Site Number(s) ____ one ____ multiple

Archaeological Feature:	Observed	Expected on Basis of Archival Research
Well	____	____
Privy	____	____
Cistern	____	____
Foundation	____	____
Structural Rubble	____	____
Formal Trash Dump	____	____
Other ____	____	____

54. Farmstead Plan

42. (Cont'd)

of concrete stairs are located between the public sidewalk and the Reserve Center on the west wall. Additional entrances include single and paired metal pedestrian doors located on the north, south, east, and west walls. Fenestrations include single light fixed and casement ribbon windows arranged in geometrical patterns on the north, south, and east walls. Sections of corning glass block windows are located near the entrance on the west wall. A flat roof covers the building.

43. (Cont'd)

N/A

OHIO HISTORIC INVENTORY

Ohio Historic Preservation Office
1985 Velma Avenue
Columbus, Ohio 43211
614/297-2470

OHIO HISTORICAL SOCIETY SINCE 1885

1 No

2 County: Clark County

4 Present Name(s): SFC Morgan Downs USARC Organizational Maintenance Shop ☐ Coded

3 Location of Negatives: Fort McCoy Archaeology Laboratory

Roll No. Picture No.(s)

5 Historic or Other Name(s): N/A

6 Specific Address or Location: 1515 West High Street, Springfield, Ohio 45506-1197

6a. Lot, Section or VMD Number

7 City or Village: Springfield, Ohio — II Rural, Township & Vicinity

8 Site Plan with North Arrow

9 U.T.M. Reference — Quadrangle Name: Springfield Quadrangle

Zone	Easting	Northing
17	257664	4423325

10 Site ☐ Structure ☐ Building ☑ Object ☐

11 On National Register? Yes ☐ No ☑

12. N.R. Potential? Yes ☐ No ☑

13 Part of Estab. Hist. Dist.? Yes ☐ No ☑

14. Distinct Potential? Yes ☐ No ☑

15 Name of Established District (N.R. or Local): N/A

16. Thematic Association(s): None

17 Date(s) or Period: None — 17b. Alteration Date(s): N/A

18. Style or Design: None ☐ High Style ☐ Elements

18a. Style of Addition or Element(s): None

19. Architect or Engineer: Unknown

19a. Design Sources: Unknown

20. Contractor or Builder: Unknown

21. Building Type or Plan: Rectangular-shaped

22. Original Use, if apparent: U.S. Army Reserve Vehicle Maintenance Shop

23. Present Use: U.S. Army Reserve Vehicle Maintenance Shop

24. Ownership: U.S. Government — Public ☐ Private ☐

25. Owner's Name & Address, if known: Property controlled by 88th RSC Real Estate Division, 506 Roeder Circle, Fort Snelling, MN 55111-4017

26. Property Acreage: 3 acres

27. Other Surveys in Which Included: N/A

28. No. of Stories: 1

29. Basement? Yes ☐ No ☑

30 Foundation Material: Concrete

31 Wall Construction: Concrete Block

32 Roof Type & Material: Low-Pitch Shed & Flat

33. No. of Bays: Front 3 Side 3

34. Exterior Wall Material(s): Stucco &Brick Veneer

35. Plan Shape: Rectangular

36. Changes (Explain in #42): Addition ☐ Altered ☑ Moved ☐

37. Window Type(s): 6 over 6 ☐ 2 over 2 ☐ 4 over 4 ☐ Other ☑

38 Building Dimensions: 17m x 19m

39 Endangered? Yes ☐ By What? No ☑

40 Chimney Placement: N/A

41 Distance from and Frontage on Road

42 Further Description of Important Interior and Exterior Features (Continue on reverse if necessary)

The Organizational Maintenance Shop was constructed in 1957 as a rectangular building that rested on a concrete foundation with concrete block walls and a brick veneer. The Organizational Maintenance Shop underwent an extensive renovation in 1986 when additional space was added, modifying it into a multiple-level rectangular structure. A gray stucco facade was also installed on the exterior at that time. Two metal overhead retractable bay doors are located on the north wall. Additional entrances include single and paired metal pedestrian doors along the east and west walls. A single light fixed window is located on the east wall. A flat roof covers the one-and-one half- story maintenance bay, and a low-pitch shed roof covers

PHOTO

PHOTO

43 History and Significance (Continue on reverse if necessary): N/A

44 Description of Environment and Outbuildings (See #52): N/A

45. Sources of Information

"Annual Utilization Survey-USAR Real Estate Authority: SFC Morgan L. Downs U.S. Army Reserve Center." 83rd RSC Real Estate Division. 5 March 1989.
"Annual Utilization Survey-USARC Real Estate Authority." 5 March 1989.
"Environmental Audit of Downs U.S. Army Reserve Center." Lexington, Kentucky: Howard K. Bell, Consulting Engineers, Inc. 1991.
"Real Estate Utilization Inspection Report." 24 July 1969.

48 Prepared by: Heather Spencer

47 Organization: Fort McCoy Archaeology Laboratory

48 Date Recorded in Field: 10/29/97

49 Revised by

50a. Date Revised

50b Reviewed by

1 No

2 County

4,5 Present or Historic Name

6 Specific Address or Location

51. Condition of Property

☐ Excellent ☐ Ruin
☑ Good/Fair ☐ Destroyed/Burned
☐ Deteriorated Date_____

52. Historic Outbuildings and Dependencies

Barn Type(s)
N/A

Corn Crib or Shed ☐ Smoke House ☐ Privy ☐
Summer Kitchen ☐ Spring House ☐ Garage ☐
Silo ☐ Ice House ☐
Designed landscape features ☐

N/A

53. Affiliated OAI Site Number(s) ..... one ..... multiple

Archaeological Feature:	Observed	Expected on Basis of Archival Research
Well	_____	_____
Privy	_____	_____
Cistern	_____	_____
Foundation	_____	_____
Structural Rubble	_____	_____
Formal Trash Dump	_____	_____
Other _____	_____	_____

54. Farmstead Plan

42. (Cont'd)
and a low-pitch shed roof covers the administration area.

43. (Cont'd)
N/A

CROSSCONNECTION/BACKFLOW PREVENTION PROGRAM

FOR

THE 88TH REGIONAL SUPPORT COMMAND FACILITIES IN OHIO

Prepared for:

U.S. ARMY CORPS OF ENGINEERS
Louisville District
Louisville, Kentucky

Prepared by:

DODSON-STILSON, INC.
Columbus, Ohio

January 31, 1997

Contract No. DACW27-96-D-0035 **Delivery Order No. 0001**

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9.0 SUMMARY

i. EXECUTIVE SUMMARY

This study was undertaken by request of the Louisville Corp. of Engineers and the 88th Support Command. The purpose of the study was to survey the USARC sites in the state of Ohio, to locate and identify the occurrences of cross-connection protection code violations and make the appropriate backflow prevention device recommendations to correct these deficiencies.

The majority of the sites in the scope of work should have additional cross-connection protection. The most common need is protection for hose bibbs and wall hydrants. The recommendation for these devices is an inexpensive add-on that attaches to the device. Another common deficiency is the make-up water connections to the mechanical systems, many of these connections are unprotected in many buildings. A Reduced Pressure Principle Backflow Preventer is recommended in those cases. All existing devices as well as those recommended should be tested every year and some specific models should be cleaned or rebuilt at regular intervals. The records of the inspections should be maintained yearly and a copy sent to the water provider.

The most serious violation of all the sites was at the Fort Hayes USARC. In building 116 there is a water meter pit that contains an 8" incoming water line from Cleveland Avenue which serves as the main water source for what was once the entire Fort Hayes complex. The meter pit also has a 12" diameter sump about 2' deep in the floor with an eductor (a non-electrically operated sump pump). The water supply to operate the eductor's float control was connected (hard piped) with a 1" diameter galvanized pipe threaded into the 8" water main down stream of the two water meters. The eductor's discharge line was directly connected into what appears to be an 8" hub and spigot sanitary or storm sewer line running north and south thru the meter pit. This is a severe cross-connection problem without any backflow protection device to protect the city of Columbus' water supply, or the downstream connected consumers and needs immediate attention.

The applicable codes for each of the sites in the study were obtained and are located in Chapter 6, "OHIO CROSS-CONNECTIONS AND BACKFLOW PREVENTION CODES." This chapter the includes national, state and local water supplier regulations that apply. Each facility was inspected and the potential cross-connection violations were identified.

Diagrams for each facility were included in Chapter 4, "OHIO RESERVE SITES", indicating the location of the potential cross-connection locations requiring inspections and/or backflow prevention devices. Diagrams distinguish between where devices are required by regulation and where they are recommended by the Corps of Engineers. Recommendations for the type of backflow prevention device that should be installed at each specific location where required to meet state and local regulations are located on the diagrams. A cost estimate for purchasing and installing each device is also included in the chapter.

A summary table of the location, model number, cleaning schedule, rebuilding schedule of the existing backflow prevention devices was listed in Chapter 5, "SUMMARY OF EXISTING BACKFLOW PREVENTERS." Ohio EPA's sample forms for inspection of existing backflow preventers were included in Chapter 3, "CROSS-CONNECTION/BACKFLOW PREVENTION PROGRAM." A database is included, showing facility, facility id number, building number, address, water provider, point of contact at the water provider in charge of backflow compliance, the contact's phone number, the units, type, model number, date of installation, date of last inspection, inspection frequency, and room for additional notes per site. The database is in Chapter 8, "DATABASE OF BACKFLOW DEVICES AT EACH FACILITY".

ii. INTRODUCTION

This study was undertaken at the request of Gary Meden of the Louisville District of the US Army Corps of Engineers, Geotechnical and Environmental Engineering Branch, and Mike Gretchen of the 88th Regional Support Command (RSC).

The purpose of this study is to establish a cross-connection/backflow prevention program for 29 military reserve centers in Ohio. The intent is to prevent any significant risk to human health from potential backflow from the facilities into the public water supply and to conform to State and Local regulations pertaining to cross-connections and backflow prevention devices.

Dodson-Stilson wishes to thank the Corps of Engineers and the 88th Regional Support Command for the privilege of assisting them in this survey. We would be glad to provide further services as the need arises.

iii. ABBREVIATIONS LIST

AMER.	AMERICAN
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASSE	AMERICAN SOCIETY OF SANITARY ENGINEERS
ATM.	ATMOSPHERIC
AWWA	AMERICAN WATER WORKS ASSOCIATION
BLDG.	BUILDING
BKR.	BREAKER
CAD	COMPUTER AIDED DRAFTING
CERT.	CERTIFIED
DHW	DOMESTIC HOT WATER
DIFF.	DIFFERENCE
EPA	ENVIRONMENTAL PROTECTION AGENCY
FPWH	FROST PROOF WALL HYDRANT
GPM	GALLONS PER MINUTE
HT	HEIGHT
H.W.	HOT WATER
MFG	MANUFACTURER
NA	NOT APPLICABLE
NO.	NUMBER
OEPA	OHIO ENVIRONMENTAL PROTECTION AGENCY
OBBC	OHIO BASIC BUILDING CODE
PSI	POUNDS PER SQUARE INCH
PSID	POUNDS PER SQUARE INCH DISPLACEMENT
QTY	QUANTITY
RM.	ROOM
STD.	STANDARD
VAC.	VACUUM

1.0 CODE REQUIREMENTS

There are three categories of codes pertaining to cross-connections and backflow: national, state, and local. The national standards are manufacturer's standards and ASSE (The American Society of Sanitary Engineers). Manufacturer's standards are developed from years of experience, and have been adopted as guidelines for the industry. The state codes in Ohio are the OBBC (The Ohio Basic Building Code) and OEPA (The Ohio Environmental Protection Agency). The local communities that have regulations in addition to the state codes are the cities of Akron, Bryan, Canton, Cleveland, Columbus, Marietta, Springfield, Warren, Zanesville, and Montgomery and Warren Counties. In some cases, the local communities did not adopt any addition regulations in addition to the national and state codes.

Dodson-Stilson contacted the water provider for every site to obtain the codes for each area. The persons in charge of compliance with the backflow and cross-connection regulations, and a phone number where they can be reached are listed in the database of Chapter 8 "DATABASE OF BACKFLOW DEVICES AT EACH FACILITY". Any standards beyond the Ohio EPA's standard are listed in Chapter 6 "OHIO CROSS-CONNECTION AND BACKFLOW CODES" of this report.

The American Society of Sanitary Engineers has published a standard which is referenced by most of the codes. It sets minimum requirements for meeting certain classifications of protection. The Ohio Basic Building Code, sometimes refered to as the Administrative Code, is a code that should be followed for the types of buildings surveyed for this study. It lists a few guidelines that should be observed, but is not as extensive as the OEPA regulations. The Ohio Environmental Protection Agency has published a guideline which should be followed for all backflow preventers in the State of Ohio. The rules for what type of device should be used in each case, the procedures for testing, the frequency of testing and how to deal with special cases are listed. Chapter 6 "LISTING OF CODES" contains the requirements of these codes.

2.0 INSPECTION OF THE FACILITIES

Two teams were formed to go throughout the state and investigate each of the sites. Both teams were led by design engineers fully knowledgeable of the cross-connection and backflow prevention codes in Ohio. Each team included a CAD (Computer Aided Drafting) technician to assist in site inspections and do the necessary drafting on the sites surveyed.

The procedure the teams used while inspecting each site was as follows:

> After arriving at the site, the facilities representative was contacted. A sketch of the general layout of the building was made for reference of collected information. All observed cross-connection and backflow situations were recorded. The cross-connections were found at plumbing fixtures or connections to mechanical systems located throughout the building in rooms such as, but not limited to, kitchens, toilet rooms and boiler rooms. Existing backflow preventers and their locations were also noted. Any hose-bibbs or wall hydrants, their locations and whether or not they were protected from back siphonage were also noted.

3.0 CROSS-CONNECTION/BACKFLOW PREVENTION PROGRAM

Proper protection against backflow and back-siphonage is important for the health of the inhabitants of the building as well as the general public. It is the joint responsibility of the regulatory agencies, the water provider, and the water consumer to keep the water supply clean. For the water consumer, the responsibilities in the cross-connection/backflow prevention program are as follows:

> The water consumer should have periodic surveys made of the water system to determine if there are any cross-connections. Then check to see if they are protected, or can be eliminated. All plumbing regulations should be followed concerning the potable water system. The consumer is responsible for maintaining all backflow prevention devices in proper working order and for reporting to the water supplier the testing and maintenance records.

The Ohio EPA states minimum time intervals for testing of the different types of backflow prevention devices. The higher degree of hazard involved, the more frequent the inspections should occur. More frequent inspections than the minimum mentioned by the Ohio EPA should be done for higher hazard situations. The minimum testing for air gaps, Double Check Valve Backflow Preventers, Reduced Pressure Principle Backflow Preventers, and Atmospheric Vacuum Breakers is once a year. Double Check Valve Backflow Preventers need to be cleaned at least every 30 months. Reduced Pressure Principle Backflow Preventers need to be rebuilt at least every 5 years. All inspections should be performed by a registered plumber who certified to do inspections. All cross-connection protection devices should either be rebuilt or replaced immediately if they do not pass the inspections.

The cost to have a Double Check Valve Backflow Preventer or Reduced Pressure Backflow Preventer tested varies with the size and location. For example a 3/4" Reduced Pressure Principle Backflow Preventer inspection would cost approximately $90 to $100 in 1997 dollars, but could cost more in cities with more stringent inspector certification requirements, or where the inspector would need to travel further to get to the site. The cost to test an air gap would be much less, because it only takes a simple visual inspection, and filling out of paper work. Typical costs for the cleaning of a Double Check Valve Backflow Preventer are approximately $180 for a 2", and $300 for a 4", both figures in 1997 dollars. The rebuilding of a 3/4" Reduced Pressure Principle Backflow Preventer could range from $100 to $250 in 1997 dollars depending on the condition of the device. A cost for travel and setup for the registered plumber must also be considered and would vary on location. Travel time for a typical plumber is usually around $50/hr. in 1997 dollars. Chapter 4, "OHIO RESERVE SITES" contains cost estimates for each type of cross-connection or backflow device required at the various sites.

On the following pages are sample forms from the Ohio EPA for inspections:

SUGGESTED FORM
Report on Inspection, Tests and Maintenance

VACUUM BREAKERS

Type of Device Mfg. Model Serial No. Size	Location of Device	Ht. Above Highest Outlet	External Inspection	Initial Test (psi)		Internal Inspection	Cleaned	Repaired	Final Test (psi)	
				Air Inlet Opening	Check Valve Diff.				Air Inlet Opening	Check Valve Diff.

Inspector _____ Cert. Tester No. _____ Date _____
(signature)

CERTIFICATION

I hereby certify that the foregoing report is correct and that the following statement is true:

The vacuum breakers have been in constant use at these locations during the entire prescribed interval between tests, and during that period these devices were not bypassed, made inoperative or removed without proper authorization. All defects found during the operating period or during inspections or tests of these devices were satisfactorily corrected without delay.

Company _____ Signature _____

Address _____ Print Name _____

_____ Title _____

Date _____

Suggested form from the OEPA

SUGGESTED FORM
Report on Inspection, Tests and Maintenance
REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION DEVICE

Type of Device _____ Model _____

Size _____ Date Installed _____

Location of Device _____ Service No. _____

	Check Valve No. 1	Check Valve No. 2	Differential Pressure Relief Valve
Initial Test	Apparent static drop ____ psid Leaked? Yes ( ) No ( ) Actual static drop _____ psid	Leaked ( ) Closed Tight ( )	Opened at _____ psid Did not open ( )
Describe Repairs			
Materials Used			
Final Test	Apparent static drop ____ psid Actual static drop _____ psid	Closed Tight ( )	Open at _____ psid

Inspector _____ Cert. Tester No. _____ Date _____
(signature)

CERTIFICATION

I hereby certify that the foregoing report is correct and that the following statement is true:

The reduced pressure principle backflow prevention device has been in constant use at this location during the entire prescribed interval between tests and during that period this device was not bypassed, made inoperative or removed without proper authorization. All defects found during the operating period or during inspections or tests of the device were satisfactorily corrected without delay.

Company _____ Signature _____

Address _____ Print Name _____

_____ Title _____

Date _____

Suggested form from the OEPA

SUGGESTED FORM
Report on Inspection, Tests and Maintenance
LOW PRESSURE CUT-OFF DEVICE AND
MINIMUM PRESSURE SUSTAINING VALVE

Location of Cut-off Device: _____

Size of Service: _____

Pump Rating : _____ gpm	Initial Test	Final Test	
The pump automatically cut off at	_____	_____	psig
Is a minimum pressure sustaining valve installed after the pump?	_____	_____	yes/no
Did the minimum pressure sustaining valve operate properly before pump cut off?	_____	_____	yes/no/NA
Did the pump remain off until manually restarted?	_____	_____	yes/no
Did the pump turn on with manual restart?	_____	_____	yes/no

Describe repairs:

Inspector signature _____

Printed name _____ Date _____

CERTIFICATION

I hereby certify that the foregoing report is correct and that the following statement is true:

This low pressure cut-off device and minimum pressure sustaining valve (if installed) have been in constant use at this location during the entire prescribed interval between tests and during that period this device was not bypassed, made inoperative and removed without proper authorization. All defects found during the operating period or during inspections or tests of the device were satisfactorily corrected without delay.

Company _____ Signature _____

Address _____ Print Name _____

_____ Title _____

Date _____

Suggested form from the OEPA

INTERCHANGEABLE CONNECTION

Type of Device _____

Location of Device _____

Date Installed _____ Service No. _____

I hereby certify that the interchangeable connection described above was inspected by me on _____ and the following findings were made:
(date)

_____ Yes _____ No — The device has been properly installed in accordance with approved plans and has not been relocated, removed, or bypassed.

_____ Yes _____ No — The reduced pressure principle backflow prevention device installed as part of this interchangeable connection has been tested for tightness and proper operation (report attached).

Inspector _____ Cert. Tester No. _____ Date _____

CERTIFICATION

I hereby certify that the foregoing report is correct and that the following statement is true:

The interchangeable connection has been in constant use at this location during the entire prescribed interval between inspection periods and during that period this device was not bypassed or otherwise made ineffective.

Company _____ Signature _____

Address _____ Print Name _____

_____ Title _____

Date _____

Suggested form from the OEPA

SUGGESTED FORM

Report on Inspection, Tests and Maintenance

DOUBLE CHECK VALVE ASSEMBLY

Type of Device _____ Model _____

Size _____ Serial No. _____ Date Installed _____

Location of Device _____ Service No. _____

	Check Valve No. 1	Check Valve No. 2
Test Before Repair	Leaked ( ) Closed Tight ( )	Leaked ( ) Closed Tight ( )
Describe Repairs		
Materials Used		
Final Test	Closed Tight ( )	Closed Tight ( )

Inspector _____ Cert. Tester No. _____

(signature) Date _____

CERTIFICATION

I hereby certify that the foregoing report is correct and that the following statement is true:

The double check valve assembly has been in constant use at his location during the entire prescribed interval between test periods and during that period this assembly was not bypassed, made inoperative or removed without proper authorization. All defects found during the operating period or during tests of the assembly were satisfactorily corrected without delay.

Company _____ Signature _____

Address _____ Print Name _____

_____ Title _____

Date _____

Suggested form from the OEPA

SUGGESTED FORM
Report on Inspection
AIR GAP SEPARATION

Location of Device _____

Date Installed _____ Service No. _____

I hereby certify that the air gap separation described above was inspected by me on _____ and the following findings were made:
(date)

_____ Effective diameter of the supply pipe or opening.

_____ Near wall distance, if present.

_____ Height of supply opening above the flood level rim.

____ ____ Required minimum air gap separation is provided.
Yes No

____ ____ Air gap separation is not being bypassed.
Yes No

____ ____ No evidence that arrangements have been made to bypass the air
Yes No gap separation.

Inspector _____ _____
(signature) (printed name)

CERTIFICATION

I hereby certify that the foregoing report is correct and that the following statement is true:

The air gap separation has been in constant use at the location during the entire prescribed interval between inspections and during the period this device was not bypassed or otherwise made ineffective.

Company _____ Signature _____

Address _____ Print Name _____

_____ Title _____

Date _____

Suggested form from the OEPA

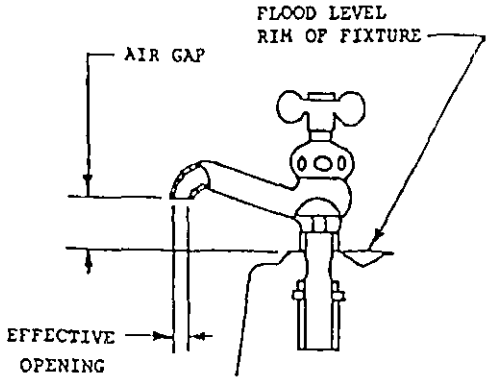
4.0 OHIO RESERVE SITES

The following table and photos describe the device or method, service and reference standards:

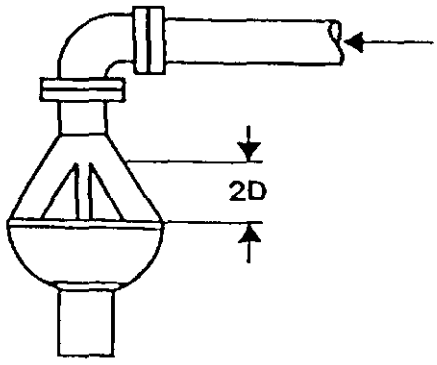
Backflow Preventers - Types

TYPE	DEVICE/METHOD	DESCRIPTION	SERVICE	REF. STD.
#1	Air Gap (All Hazard) 2 Times the Pipe Diameter - Not Less Than 2"	Physical separation of the piping system.	Air Gap	ANSI 112.1.2 - 1973
#2	Reduced Pressure Principle Backflow Preventer (High Hazard)	Two independently-acting check valves with a hydraulically operated relief means, two tightly closing shut-off valves and four test cocks.	Boiler FW Make-up	ASSE 1013-71
#3	Atmospheric Vacuum Breaker (Moderate to High Hazard)	A check valve member and an air vent valve that is normally closed when the device is pressurized and open when the inlet pressure is atmospheric.	Kitchen & Service Sinks	ASSE 1001-82
#4	Atmospheric Vacuum Breaker (Moderate Hazard)	A check valve member and an atmospheric vent valve.	Hose Bibb	ASSE 1011-82
#5	Pressure Type Vacuum Breaker with Intermediate Atmospheric Vent (Moderate Hazard)	Two independently-acting check valves with an intermediate relief valve.	Existing to Remain	ASSE 1012-72
#6	Double Check Valve Assembly (Low Hazard)	Two independently-acting check valves, two isolation valves and four test cocks.	Limited Area F.P.	ASSE 1015-72
#7	Double Check Detector Assembly	Two check valves installed in parallel with a bypass meter to detect low flows up to three gpm and an ASSE 1013 device	Fire Protection (Bldgs.)	ASSE 1048
#8	Inline Vacuum Breaker	Two independently-acting check valves with a means for automatically venting to atmosphere.	In-Line Ice Machines	ASSE 1035

This table is repeated in Chapter 7 for reference.

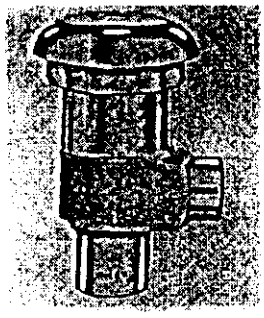


TYPE 1
Air Gap on a Faucet
ASSE #1021

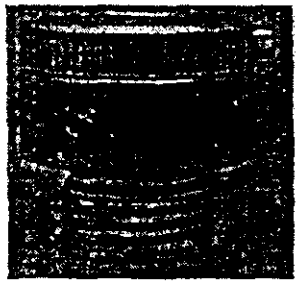


TYPE 1
Air Gap in a Pipe
ASSE #1021

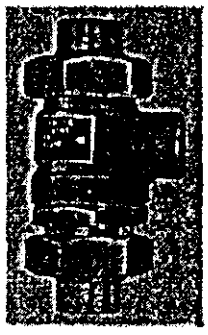
TYPE 2
Reduced Pressure Principle
Backflow Preventer
ASSE #1013



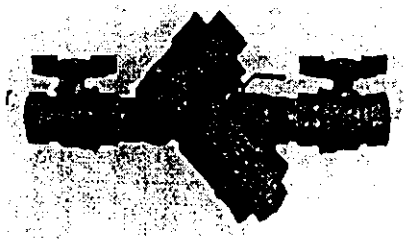
TYPE 3
Pipe Applied
Atmospheric Type
Vacuum Breaker
ASSE #1011



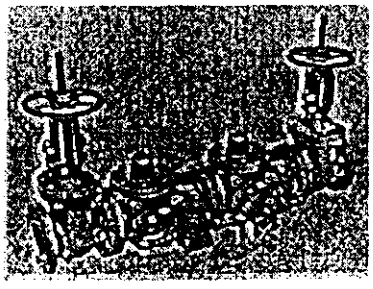
TYPE 4
Hose Connection
Vacuum Breaker
ASSE #1011



TYPE 5
Backflow
Preventer with
Intermediate
Atmospheric
Vent
ASSE #1012

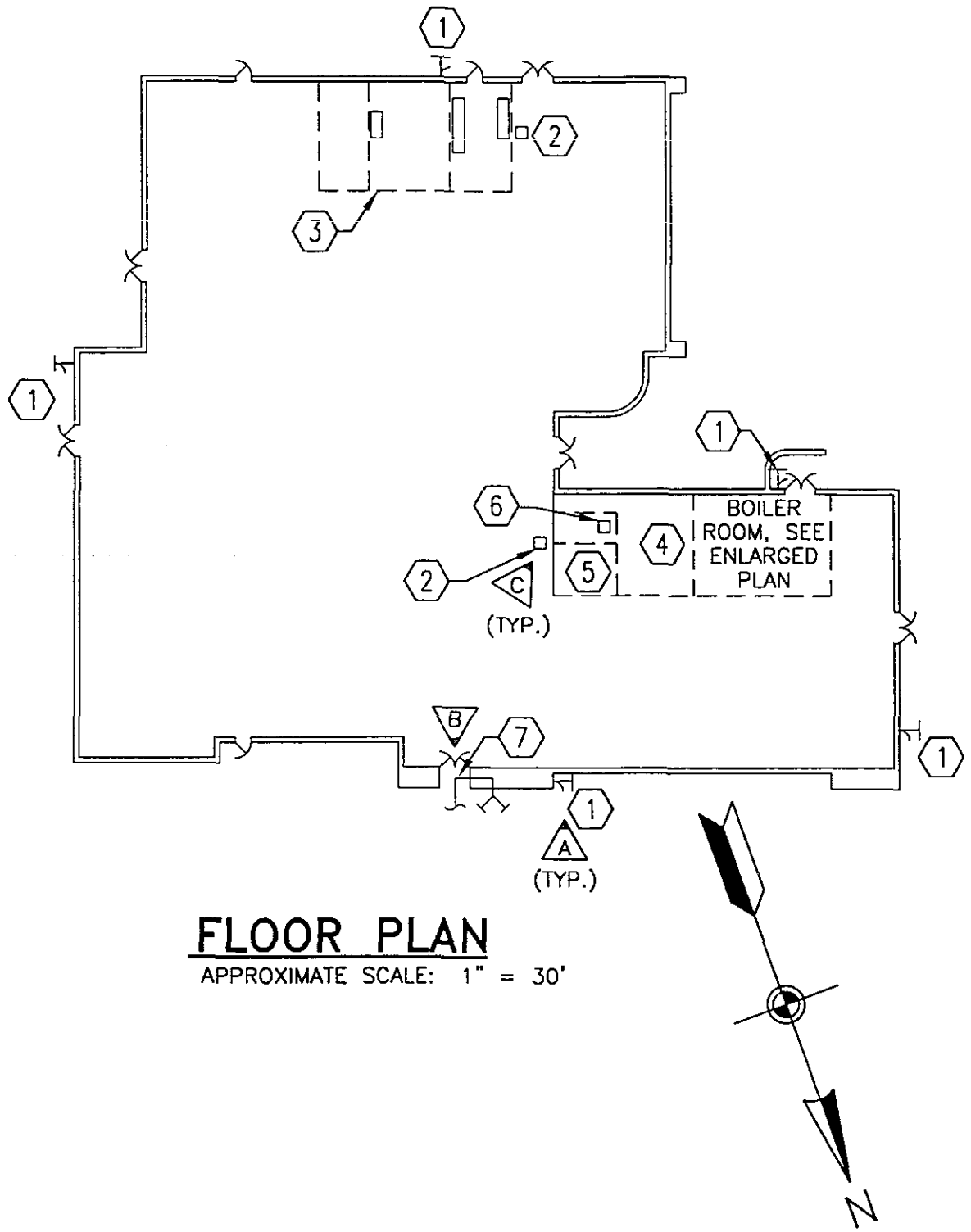


TYPE 6
Double Check Backflow
Prevention Assembly
ASSE #1015



TYPE 7
Double Check Detector
Assembly Backflow
Preventer
ASSE #1048

TYPE 8
Inline Vacuum
Breaker
ASSE #1035



FLOOR PLAN

APPROXIMATE SCALE: 1" = 30'

CODED NOTES:

1. UNPROTECTED HOSE BIBB REQUIRES BACKFLOW PREVENTER TYPE 4 PER OEPA 3745-95-04-(B2) AND OBBC 4101:2-61-05.
2. DRINKING FOUNTAIN IS SATISFACTORY BY DESIGN. NO BACKFLOW PROTECTION DEVICES ARE REQUIRED.
3. KITCHEN AREA, SEE ENLARGED PLAN.
4. FIXTURES, FLUSH VALVES, AND FAUCETS IN MEN'S RESTROOM ARE SATISFACTORY BY DESIGN. NO BACKFLOW PROTECTION DEVICES ARE REQUIRED.
5. FIXTURES, FLUSH VALVES, AND FAUCETS IN WOMEN'S RESTROOM ARE SATISFACTORY BY DESIGN. NO BACKFLOW PROTECTION IS REQUIRED.
6. SERVICE SINK WITH INTEGRAL ATMOSPHERIC BACKFLOW PROTECTION ON HOT AND COLD FAUCET. NO OTHER BACKFLOW PROTECTION IS REQUIRED.
7. 6" "VIKING" AUTOMATIC FIRE SUPPRESSION SYSTEM RISER REQUIRES TYPE 7 BFP DEVICE PER OBBC ARTICLE 4101:2-61-05 (B).

SYMBOLS:

- (X) INDICATES DIRECTION OF PHOTOGRAPH OF SUBJECT TAKEN. PHOTOGRAPHS FOLLOW DIAGRAMS IN THIS STUDY. LETTER IN THE TRIANGLE CORRESPONDS TO THE PHOTOGRAPHS.

BACKFLOW PREVENTION DEVICE SURVEY
88TH REGIONAL SUPPORT FACILITIES IN OHIO

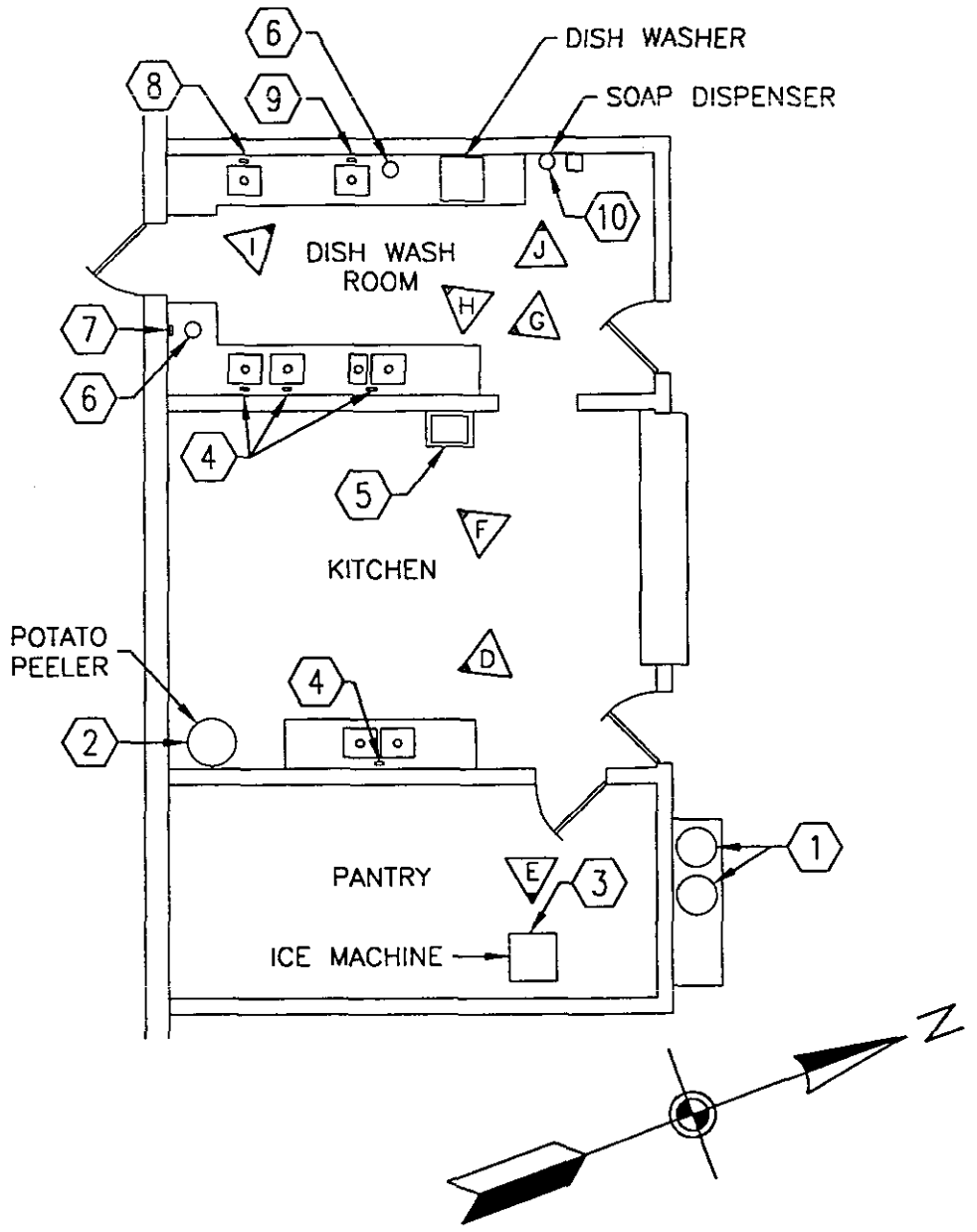
M. L. DOWNS USARC
FACILITY NO. OH059
1515 WEST HIGH ST.
SPRINGFIELD, OHIO 45506

US Army Corps of Engineers

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
LOUISVILLE, KENTUCKY

Dodson Stilson — Dodson-Stilson, Inc. A DLZ Company — ENGINEERS • ARCHITECTS • SCIENTISTS

PLATE No.	1 OF 4
SCALE	NOTED
DATE	1-31-97
APPROVED	WPS



KITCHEN PLAN

APPROXIMATE SCALE: 1/8" = 1'

CODED NOTES:

1. COFFEE MAKERS WITH 1/4" COPPER DOMESTIC COLD WATER CONNECTEION ARE SATISFACTORY BY DESIGN. NO FURTHER BACKFLOW PROTECTION DEVICES ARE REQUIRED.
2. POTATO PEELER WITH 1/2" DOMESTIC COLD WATER SUPPLY IS SATISFACTORY BY DESIGN, NO FURTHER BACKFLOW PROTECTION IS REQUIRED.
3. ICE MAKER WITH 1/2" DOMESTIC COLD WATER CONNECTION REQUIRES BACKFLOW PREVENTER TYPE 8 PER OEPA 3745-95-04-(B2) AND OBBC 4101:2-61-05. PROVIDE 2" AIR GAP @ DRAIN OUTLET.
4. HOT & COLD SWING SPOUT FAUCET IS SATISFACTORY BY DESIGN. NO FURTHER BACKFLOW PROTECTION IS REQUIRED.
5. HOT & COLD FAUCET IS SATISFACTORY BY DESIGN, NO FURTHER BACKFLOW PROTECTION IS REQUIRED.
6. DISPOSER WITH WATTS NO. 288A (ASSE 1001) BACKFLOW PREVENTER, NO FURTHER BACKFLOW PREVENTER IS REQUIRED.
7. UNPROTECTED PRE-RINSE UNIT REQUIRES BACKFLOW PREVENTER TYPE 8 PER OEPA 3745-95-04-(B2) AND OBBC 4101:2-61-05. INSTALL BETWEEN HAND SPRAY NOZZLE AND FAUCET.
8. HOT AND COLD SWING SPOUT FAUCET WITH INSUFFICIENT AIR GAP REQUIRES NEW SWING SPOUT FAUCET WITH 2" MINIMUM AIR GAP PER OEPA 3745-95-04-(B2) AND OBBC 4101:2-61-05.
9. HOT & COLD PRE-RINSE UNIT WITH WATTS NO. 288A BACKFLOW PREVENTER IS SATISFACTORY, NO FURTHER BACKFLOW PROTECTION IS REQUIRED.
10. SOAP DISPENSER FOR DISHWASHER IS PROTECTED BY A WATTS NO. N38A (ASSE 1001) BACKFLOW PREVENTER. NO FURTHER BACKFLOW PROTECTION IS REQUIRED.

BACKFLOW PREVENTION DEVICE SURVEY
88TH REGIONAL SUPPORT FACILITIES IN OHIO

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DATE	1-31-97
APPROVED	WPS

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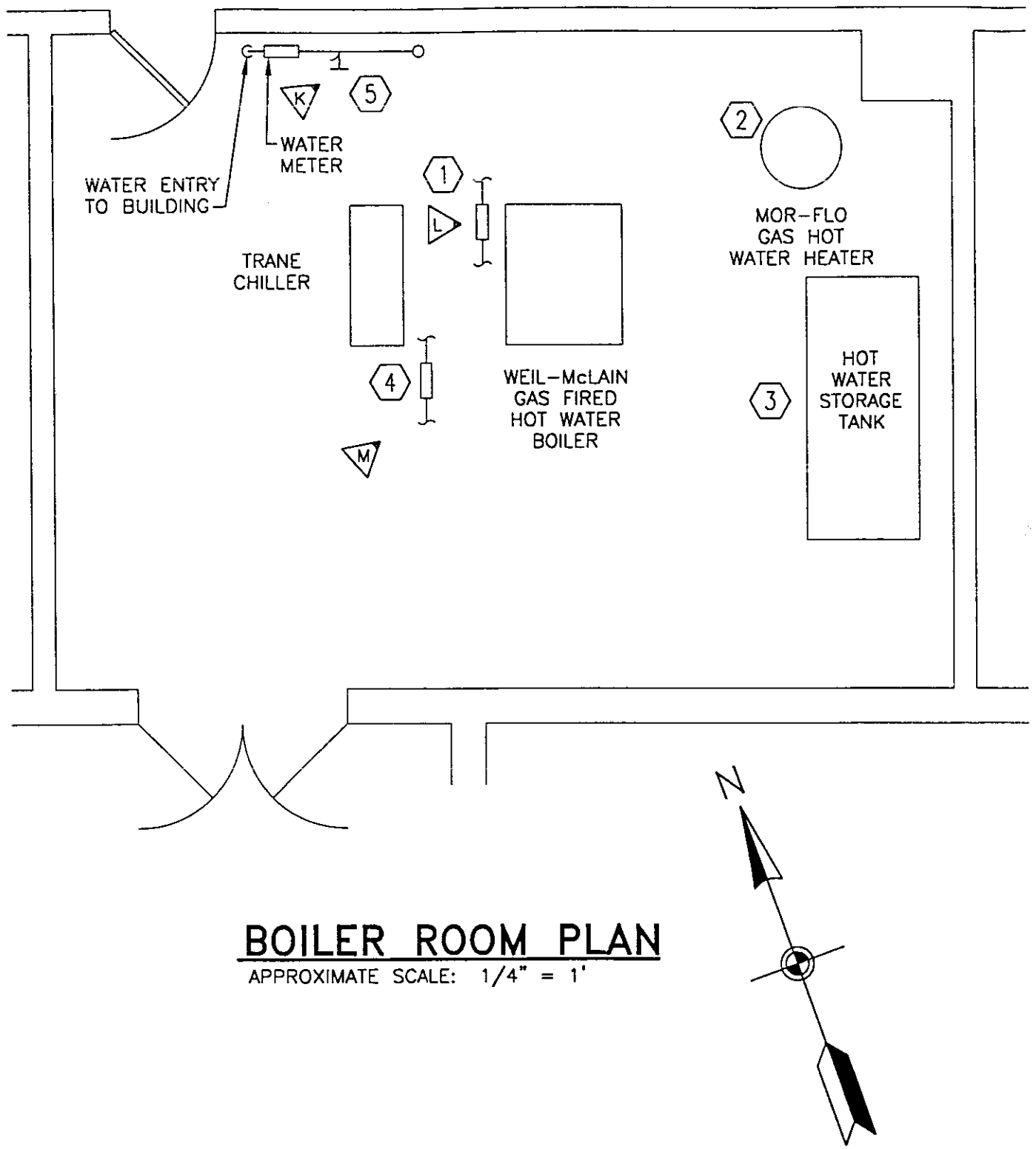

BOILER ROOM PLAN

APPROXIMATE SCALE: 1/4" = 1'

CODED NOTES:

1. EXISTING WATTS NO. 909 TYPE 2 BFP INSTALLED ON 3/4" DCW MAKE-UP LINE TO BOILER/HEATING SYSTEM. NO FURTHER BACKFLOW PROTECTION IS REQUIRED.
2. GAS HOT WATER HEATER WITH UNPROTECTED DRAIN ON BOTTOM OF TANK REQUIRES BACKFLOW PREVENTION DEVICE TYPE 4 PER OEPA 3745-95-04-(B2) AND OBBC 4101:2-61-05.
3. REWORK PIPE SO THAT 2" AIR GAP IS PROVIDED FOR DOMESTIC HOT WATER STORAGE TANK DRAIN AND RELIEF VALVE.
4. EXISTING WATTS NO. 909 TYPE 2 BFP INSTALLED ON 3/4" DCW MAKE-UP LINE TO CHILLER SYSTEM. NO FURTHER BACKFLOW PROTECTION IS REQUIRED.
5. UNPROTECTED HOSE BIBB ON TEE IN INCOMING COLD WATER PIPE REQUIRES BACKFLOW PREVENTER TYPE 4 PER OEPA 3745-95-04-(B2) AND OBBC 4101:2-61-05.

SYMBOLS:

(X) INDICATES DIRECTION OF PHOTOGRAPH OF SUBJECT TAKEN. PHOTOGRAPHS FOLLOW DIAGRAMS IN THIS STUDY. LETTER IN THE TRIANGLE CORRESPONDS TO THE PHOTOGRAPHS.

BACKFLOW PREVENTION DEVICE SURVEY
88TH REGIONAL SUPPORT FACILITIES IN OHIO

M. L. DOWNS USARC
FACILITY NO. OH059
1515 W. HIGH ST.
SPRINGFIELD, OHIO 45506

US Army Corps of Engineers

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
LOUISVILLE, KENTUCKY

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PLATE No.	3 OF 4
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DATE	1-31-97
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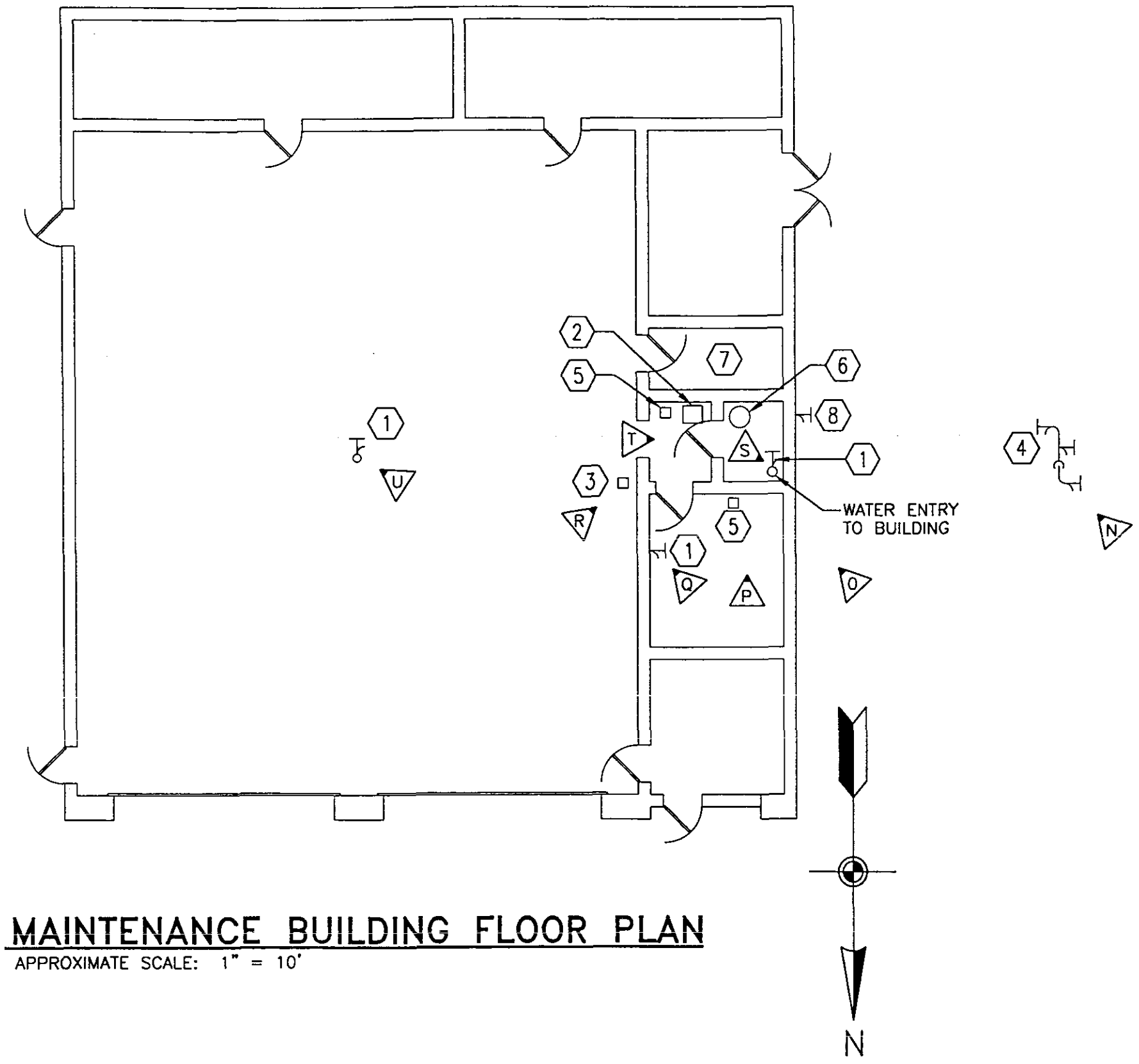


MAINTENANCE BUILDING FLOOR PLAN

APPROXIMATE SCALE: 1" = 10'

CODED NOTES

(1) PROTECTED HOSE BIBB WITH WATTS NO. 8A ATMOSPHERIC TYPE 4 BACKFLOW PREVENTER INSTALLED. NO FURTHER BACKFLOW PROTECTION IS REQUIRED.

(2) SERVICE SINK WITH HOT/COLD FAUCET IS PROTECTED WITH INTEGRAL ATMOSPHERIC TYPE BACKFLOW PREVENTER. NO FURTHER BACKFLOW PROTECTION IS REQUIRED.

(3) DRINKING FOUNTAIN IS SATISFACTORY BY DESIGN. NO BACKFLOW PREVENTION DEVICE IS REQUIRED.

(4) UNPROTECTED YARD HYDRANTS (3 EACH) REQUIRES BACKFLOW PREVENTER TYPE 4 PER OEPA 3745-95-04-(B2) AND OBBC 4101:2-61-05.

(5) EMERGENCY EYE WASH/SHOWER IS SATISFACTORY BY DESIGN, NO BACKFLOW PREVENTION DEVICE IS REQUIRED.

(6) GAS HOT WATER HEATER WITH NO BACKFLOW PREVENTER ON TANK DRAIN REQUIRES BACKFLOW PREVENTER TYPE 4 PER OEPA 3745-95-04-(B2) AND OBBC 4101:2-61-05.

(7) FIXTURES, FLUSH VALVES, AND FAUCETS IN RESTROOMS ARE SATISFACTORY BY DESIGN. NO BACKFLOW PREVENTION DEVICES ARE REQUIRED.

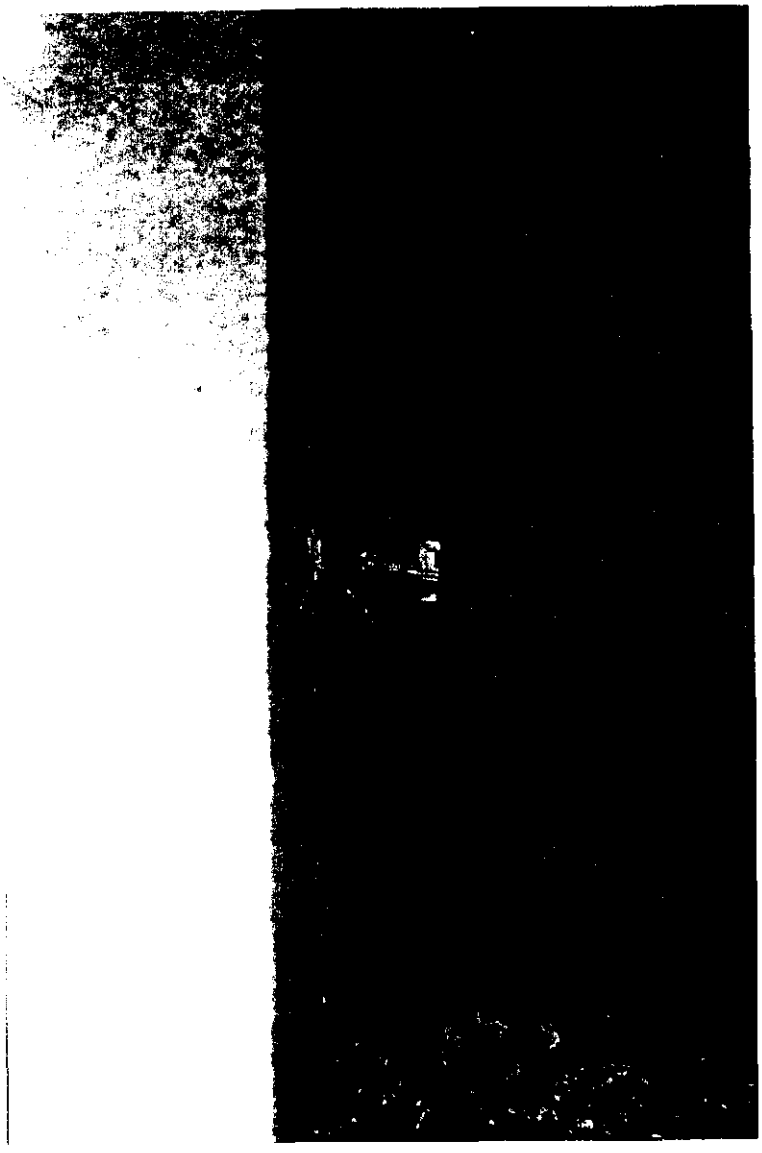
(8) UNPROTECTED FROST PROOF WATER HYDRANT REQUIRES BACKFLOW PREVENTER TYPE 4 PER OEPA 3745-95-04-(B2) AND OBBC 4101:2-61-05.

SYMBOLS:

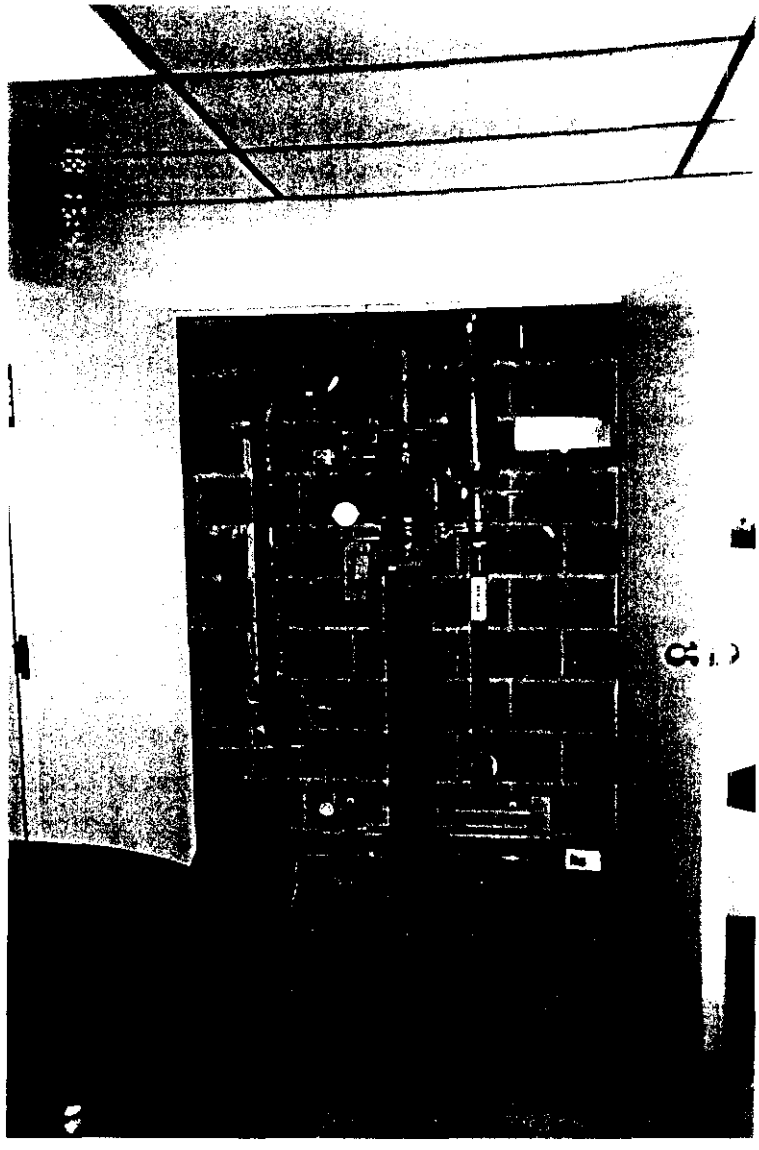
(X) INDICATES DIRECTION OF PHOTOGRAPH OF SUBJECT TAKEN. PHOTOGRAPHS FOLLOW DIAGRAMS IN THIS STUDY. LETTER IN THE TRIANGLE CORRESPONDS TO THE PHOTOGRAPHS.

[[CEA]] - I:\FAC\96217022.00\7022-M52.DWG - JAN 24, 1997 - 15:57:16 - SCALE = 1.00

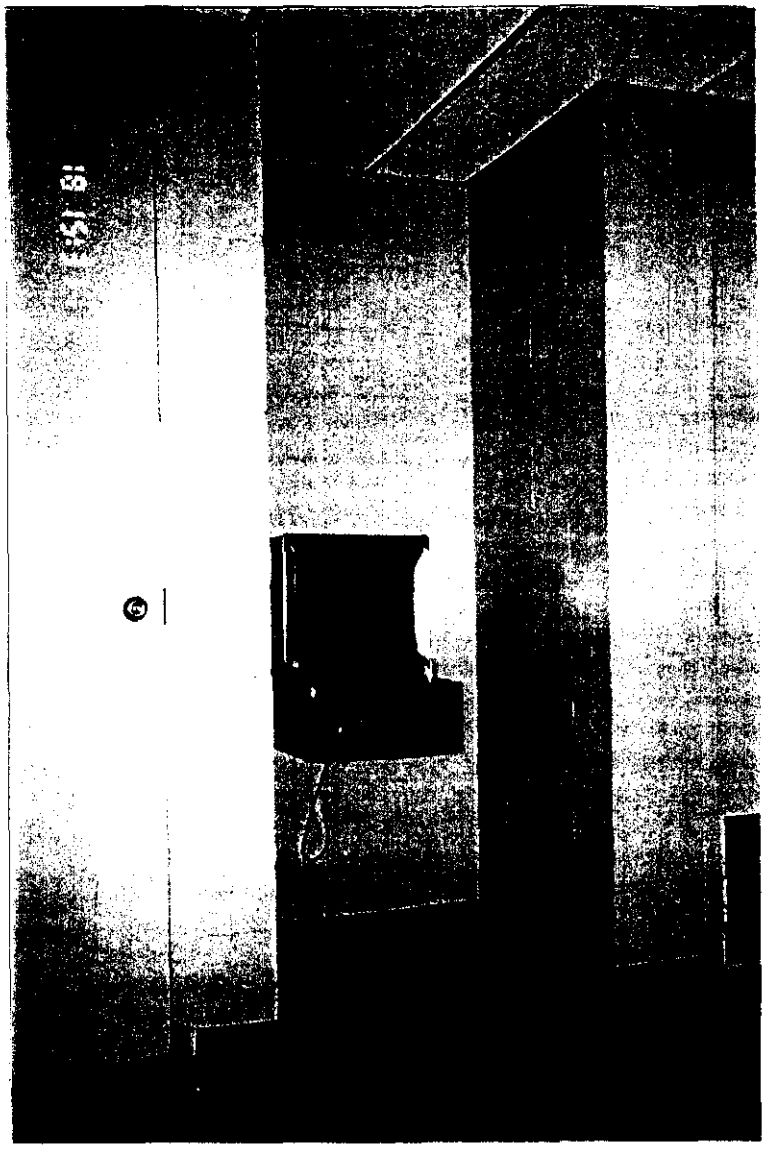
BACKFLOW PREVENTION DEVICE SURVEY 88TH REGIONAL SUPPORT FACILITIES IN OHIO	M. L. DOWNS USARC FACILITY NO. OH059 1515 W. HIGH ST. SPRINGFIELD, OHIO 45506	US Army Corps of Engineers U.S.ARMY ENGINEER DISTRICT CORPS OF ENGINEERS LOUISVILLE, KENTUCKY	Dodson Stilson Dodson-Stilson, Inc. A DLZ Company ENGINEERS • ARCHITECTS • SCIENTISTS	PLATE No. 4 OF 4 SCALE NOTED DATE 1-31-97 APPROVED WPS



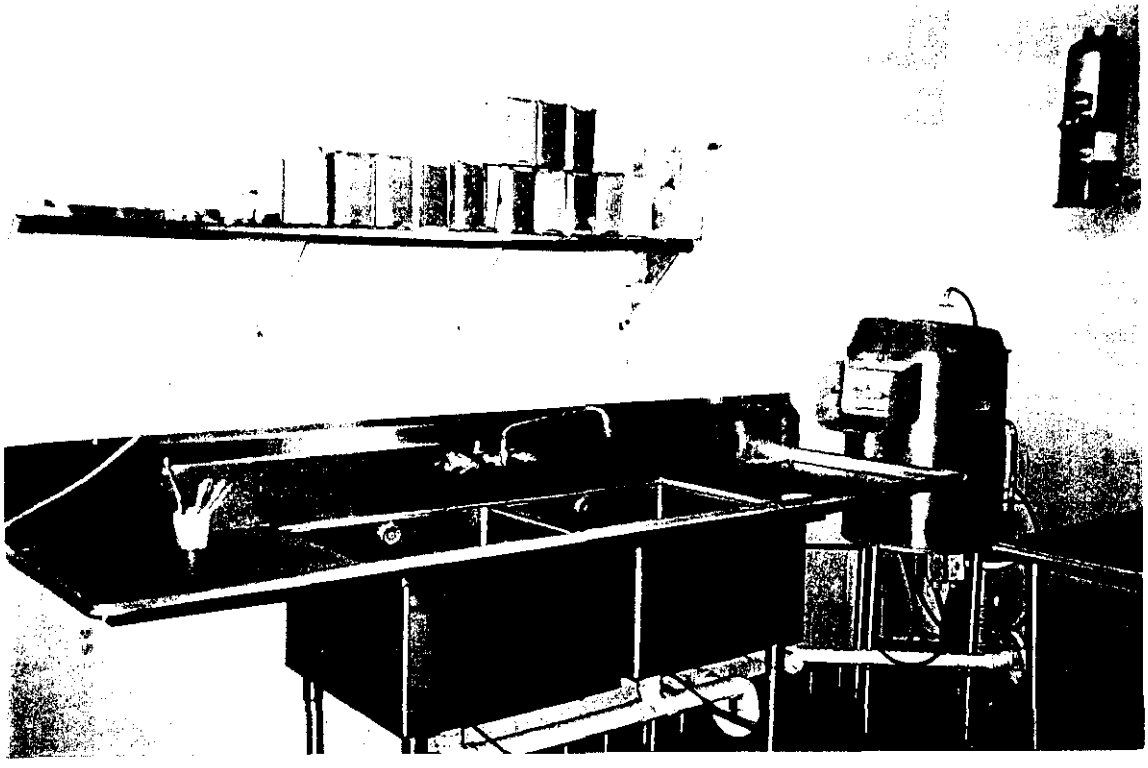
Photograph A: Unprotected frost proof wall hydrant requires Type 4 BFP device to be installed.



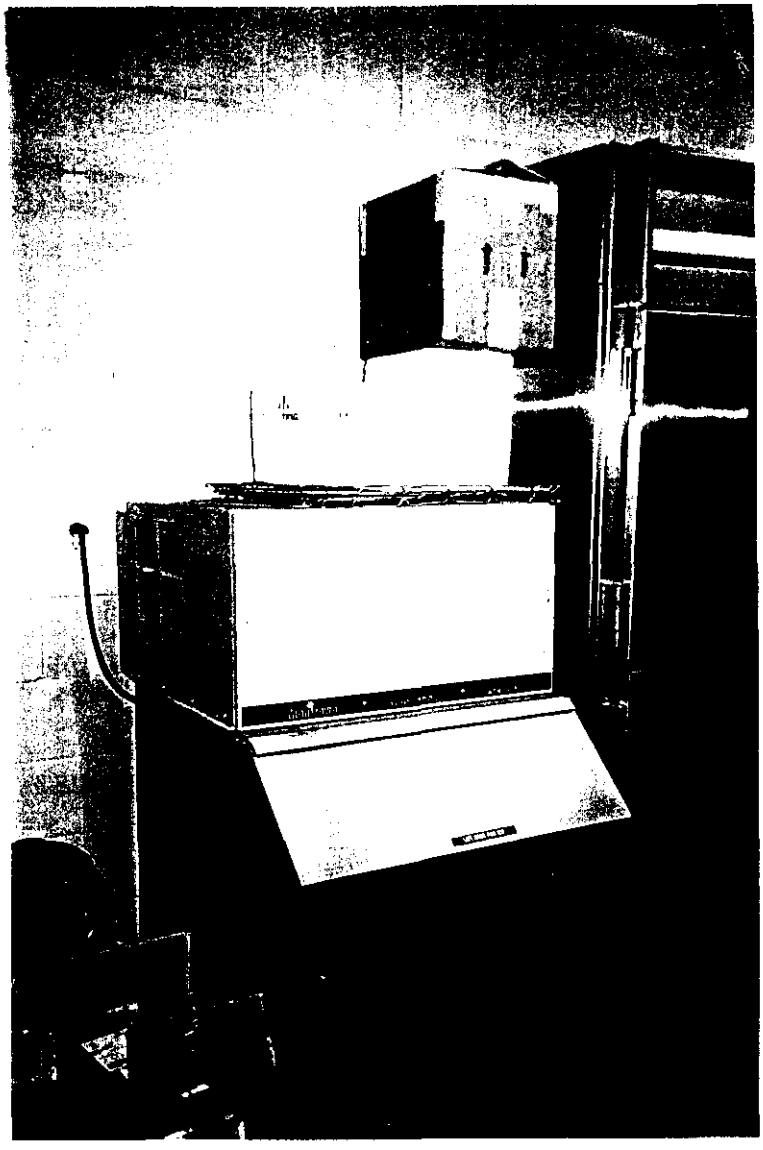
Photograph B: Viking automatic fire suppression system riser requires Type 7 BFP device to be installed.



Photograph C: Electric water cooler is satisfactory by design, no BFP device required.

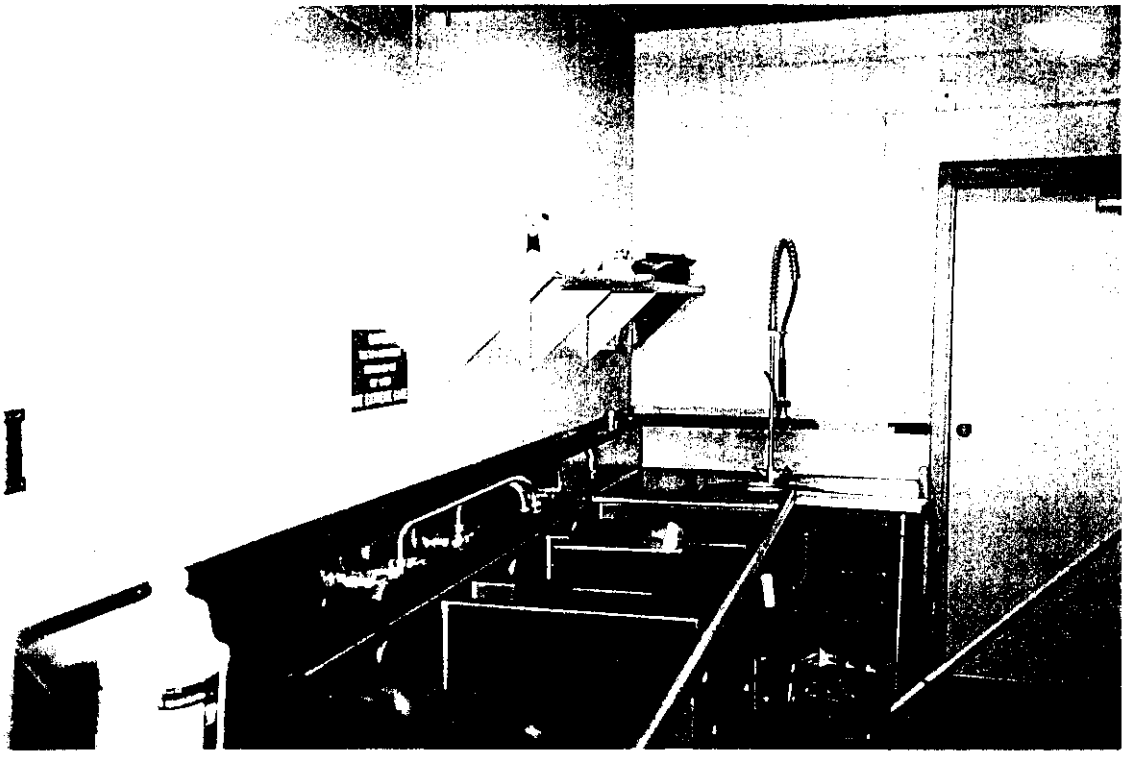


Photograph D: H&C swing spout and potato peeler machine are satisfactory by design (air gapped).

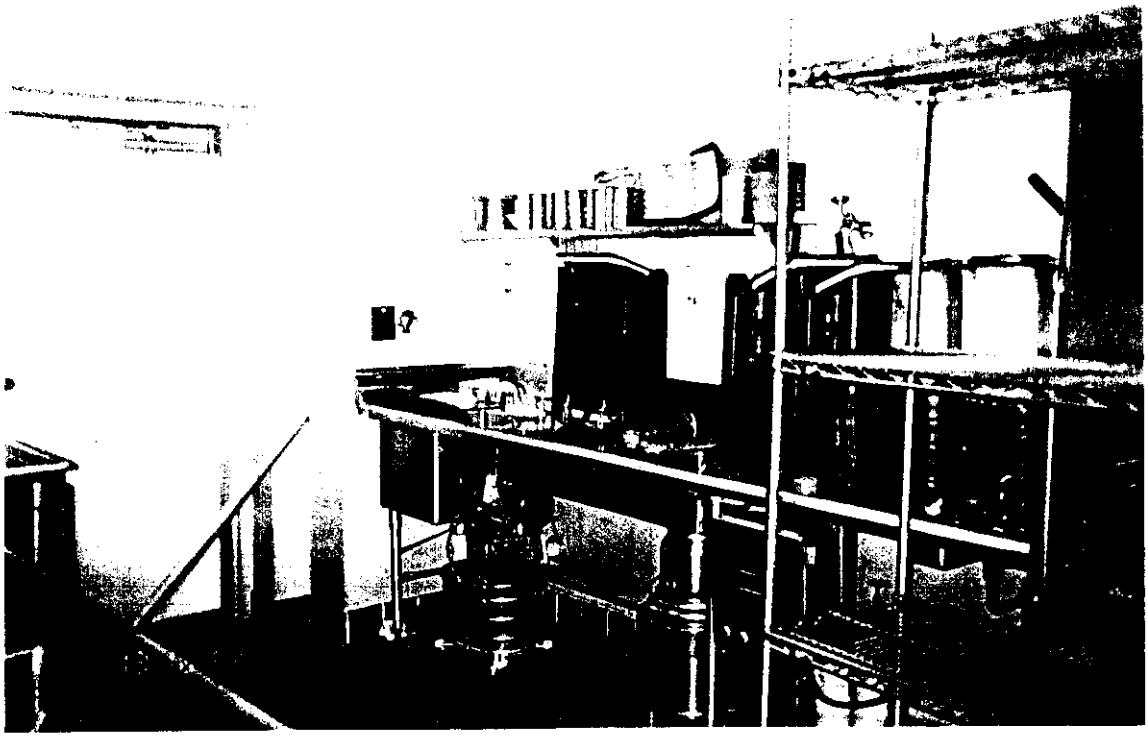


Photograph E: Ice machine requires Type 8 BFP device installed on 1/2" DCW line and insure 2" air gap is provided on drain line.

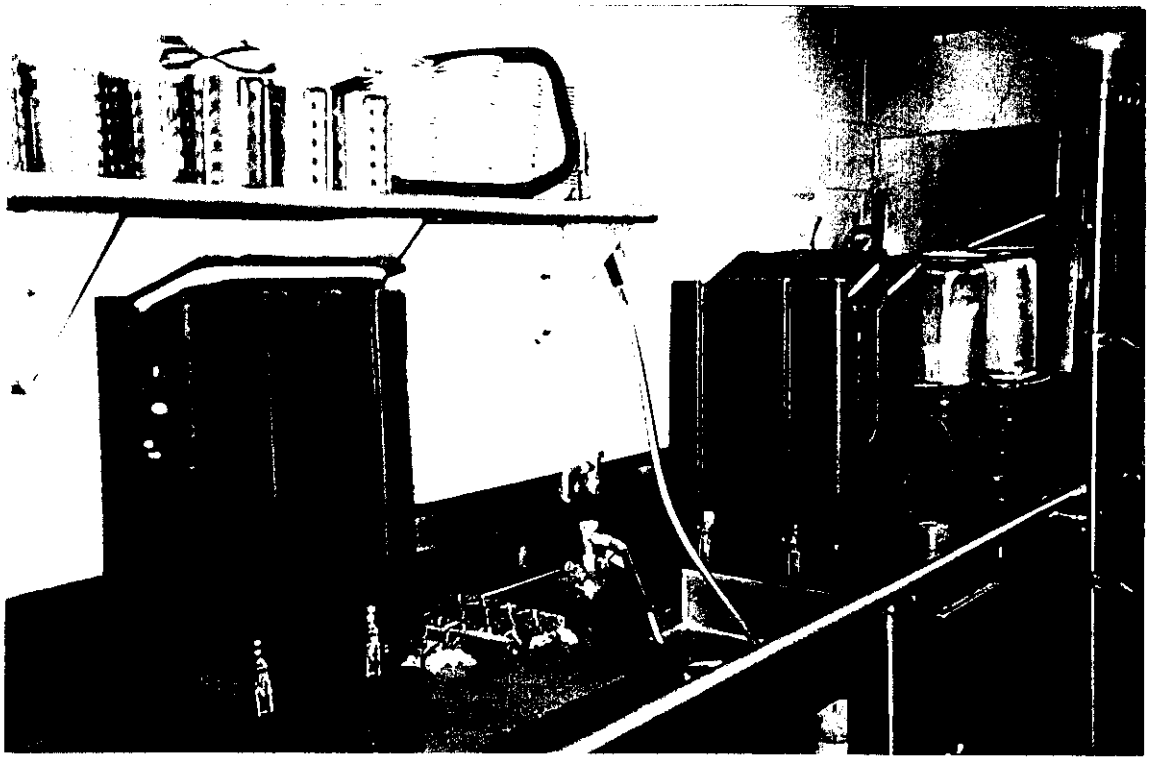
Photograph F: Hand washing lavatory's faucet set is satisfactory by design, no BFP device required.



Photograph G: H&C swing spout faucets are air gapped satisfactorily, garbage disposer protected by existing Type 3 BFP device, pre-rinse unit requires Type 8 BFP device to be installed.

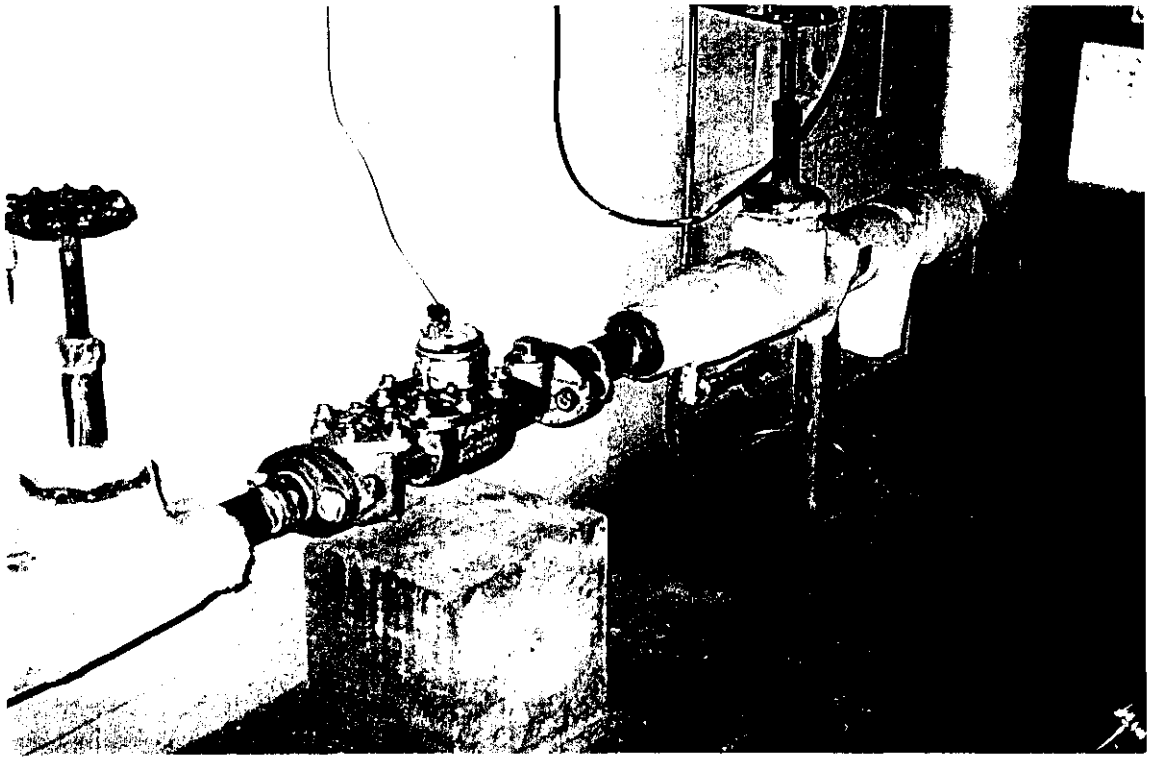


Photograph H: H&C swing spout w/ insufficient air gap requires replacement to provide 2" air gap above flood rim of sink's front lip.

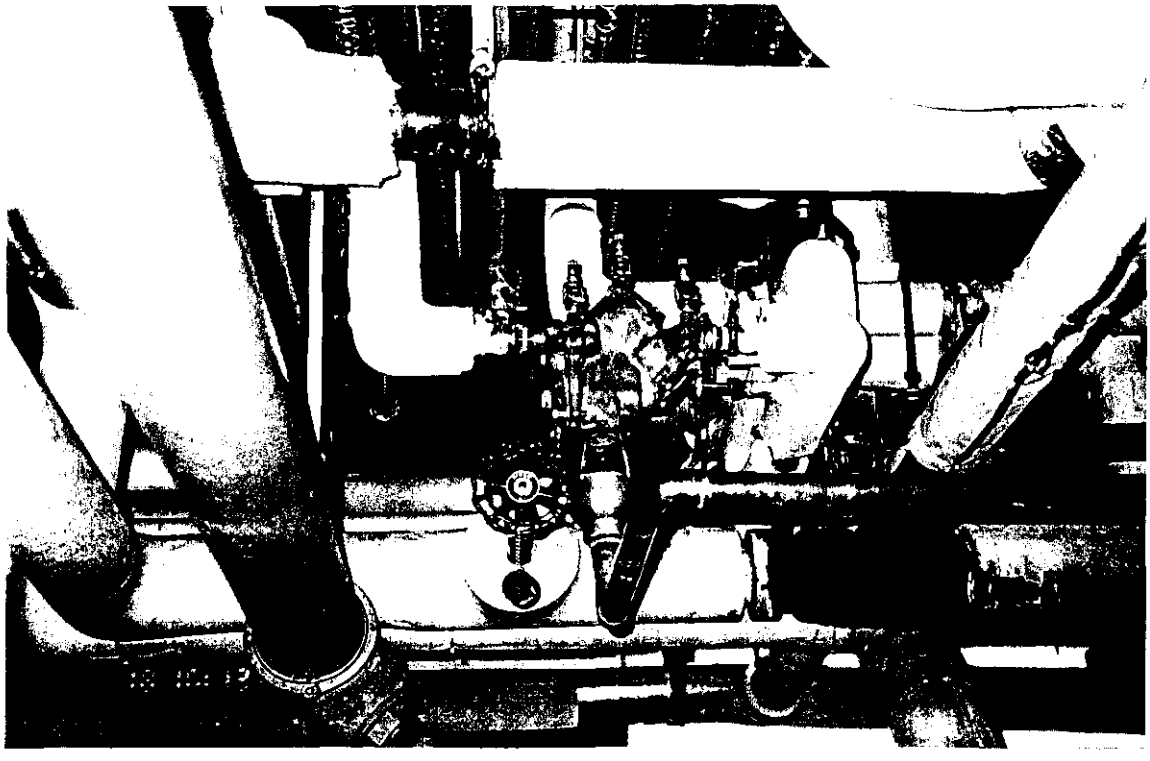


Photograph I: H&C pre-rinse hand spray and under counter disposer are both adequately protected w/ Watts No. 288A BFP devices.

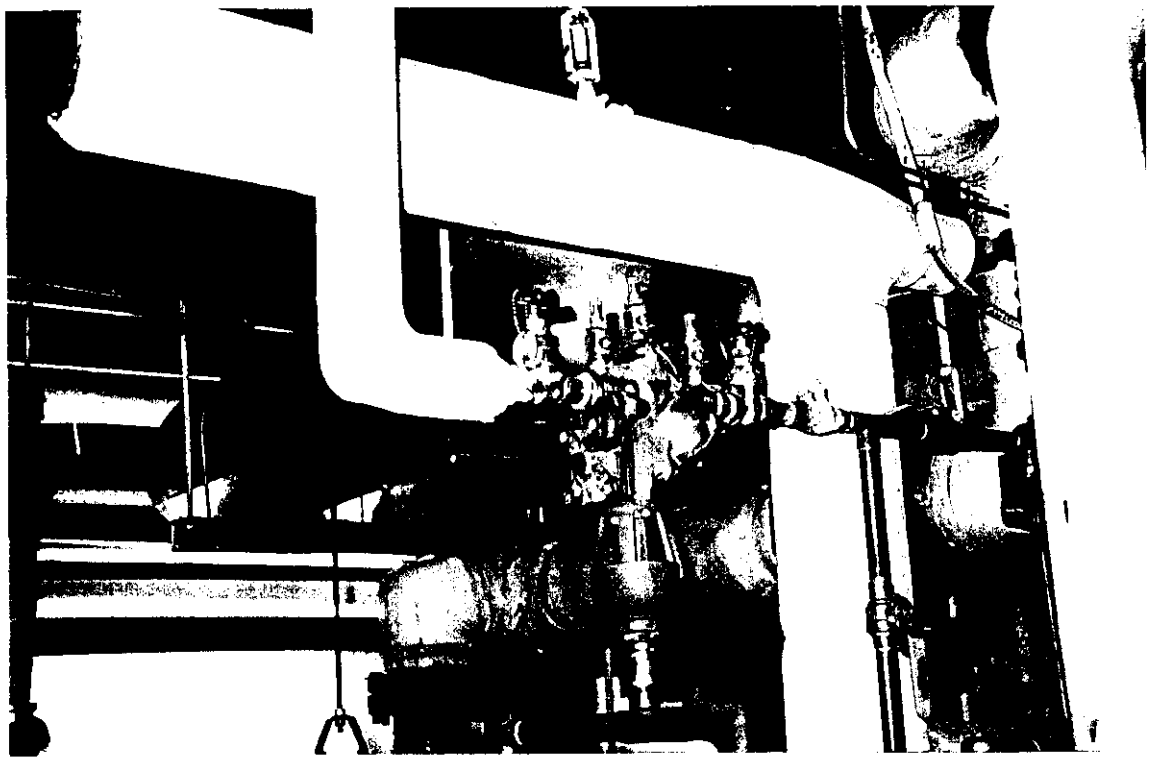
Photograph J: Soap dispenser is adequately protected by a Watts No. 388A BFP device.



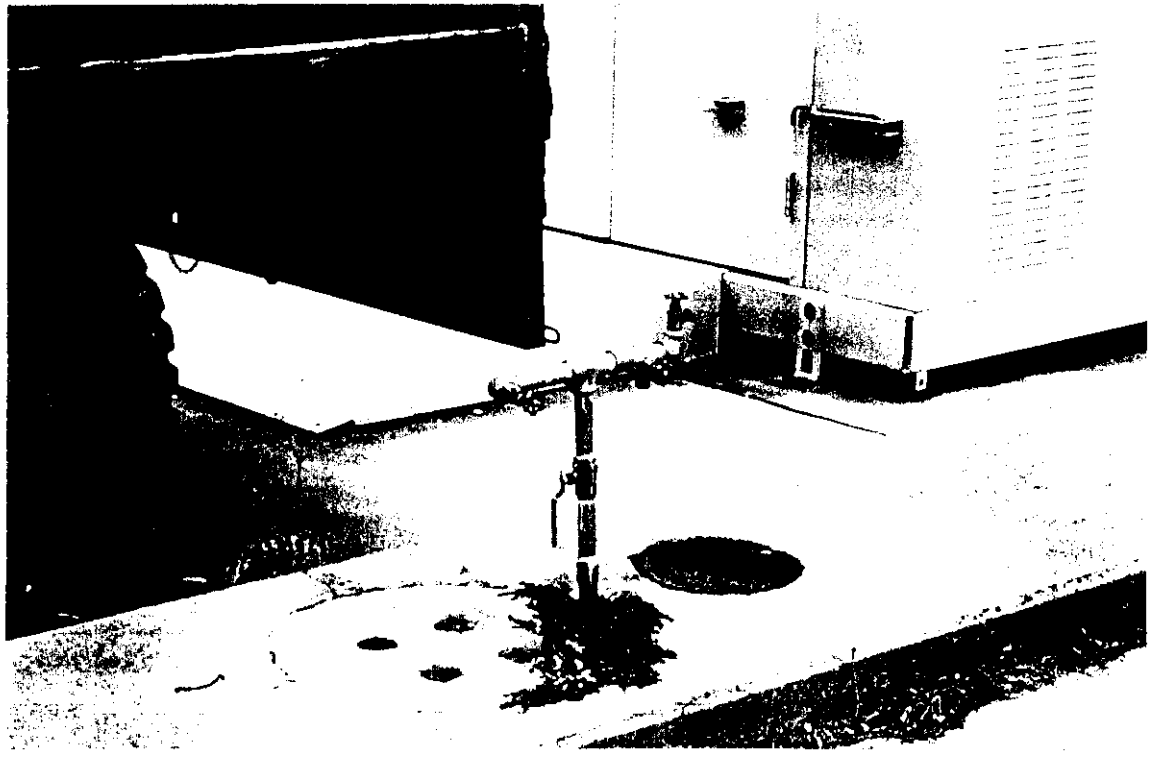
Photograph K: Unprotected hose bibb drain valve requires Type 4 BFP device to be installed.



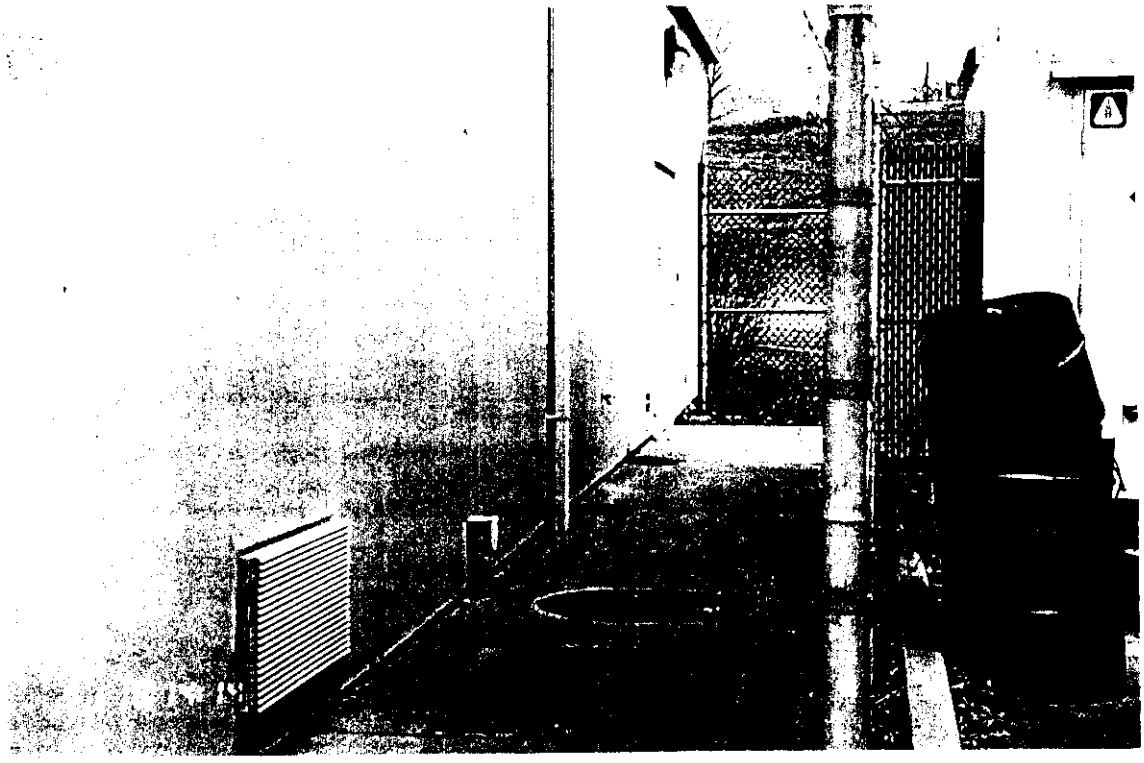
Photograph L: Existing Watts No. 909 (Type 2) BFP on 3/4" DCW make-up line to boiler/heating systems.



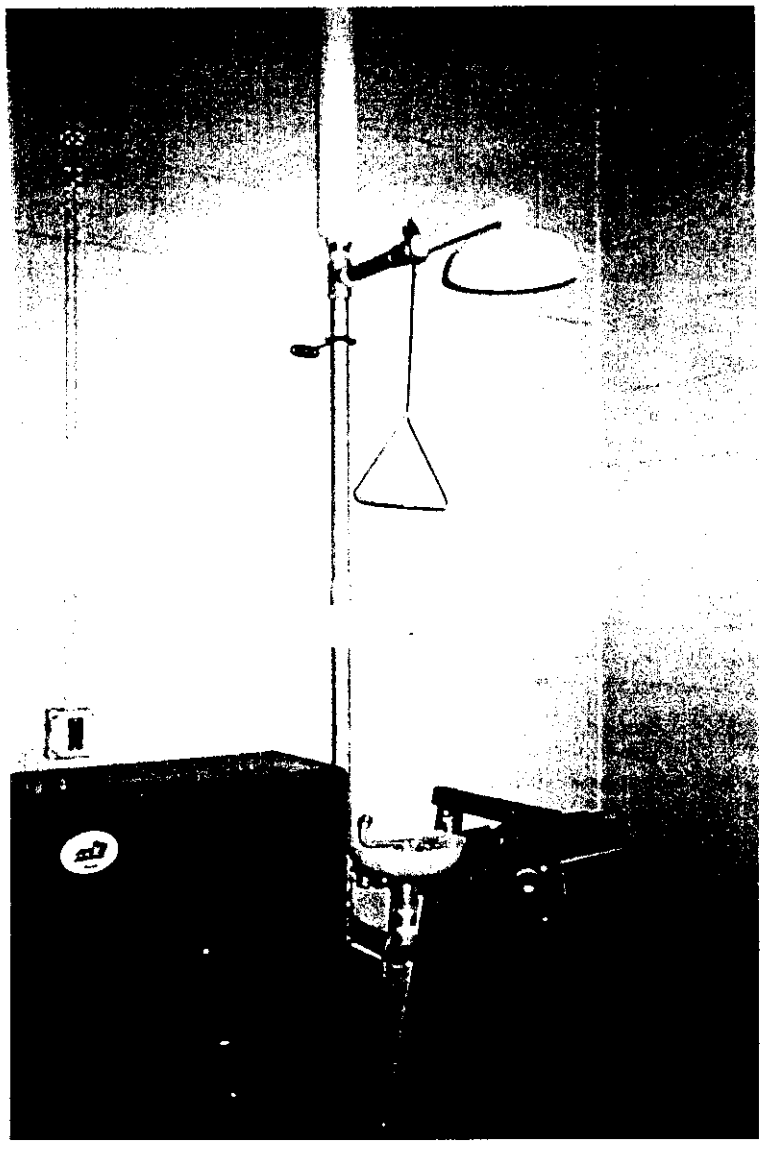
Photograph M: Existing Watts No. 909 (Type 2) BFP on 3/4" DCW make-up line to chiller system.



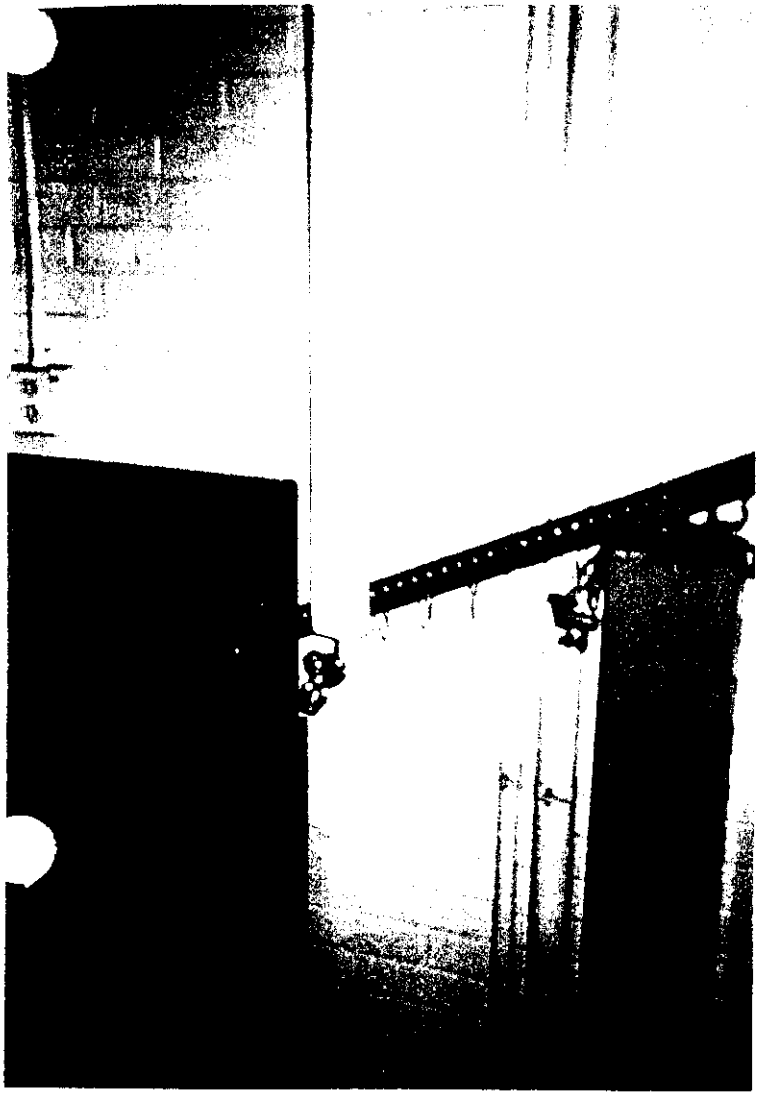
Photograph N: Three hose bibbs (yard hydrants), each unprotected, requires Type 4 BFP devices to be installed.



Photograph O: 3/4" frost proof wall hydrant unprotected requires Type 4 BFP device to be installed.



Photograph P: Emergency shower and eye wash in battery room are satisfactory by design, no BFP devices required.

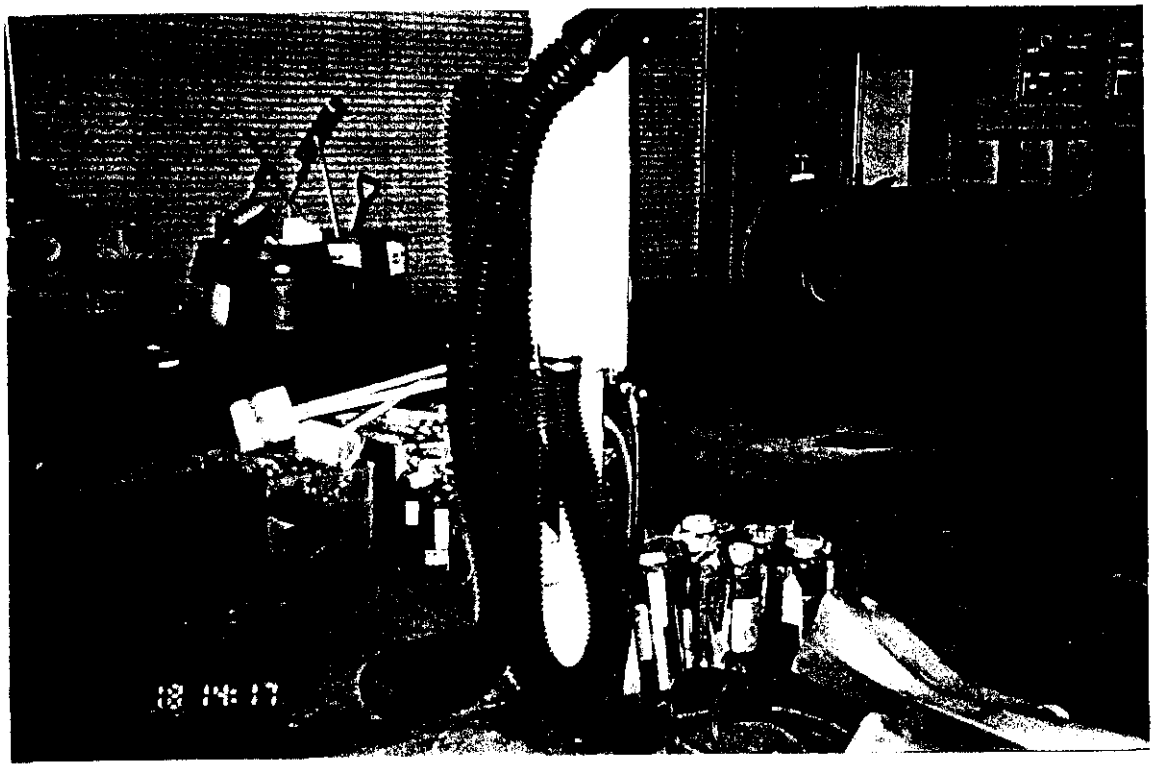


Photograph Q: Satisfactorily protected hose bibb in battery room has Type 4 BFP device installed.

Photograph R: Wall mounted electric water cooler is safe by design, no further BFP device required.

Photograph S: Satisfactorily protected hose bibb with Type 4 BFP device attached.

Photograph T: Service sink w/ H&C faucet protected by integral Type 3 BFP device. Emergency shower and eye wash are safe by design.



Photograph U: Protected hose bibb w/ Type 4 BFP device installed, no further protection required.

M. L. Downs USARC, Springfield, Ohio FACILITY OH059

DESCRIPTION	QTY	UNIT	MATERIAL PER UNIT	TOTAL MATERIAL	LABOR PER UNIT	TOTAL LABOR	TOTAL
WALL HYDRANTS	6	EA	$12.00	$72.00	$12.50	$75.00	$147.00
HOSE BIBBS	1	EA	$12.00	$12.00	$12.50	$12.50	$24.50
WATER HEATER DRAIN	2	EA	$12.00	$24.00	$12.50	$25.00	$49.00
NEW FAUCET	1	EA	$66.50	$66.50	$24.50	$24.50	$91.00
PRE-RINSE SINK	1	EA	$18.45	$18.45	$25.00	$25.00	$43.45
ICE-MAKER	1	EA	$18.45	$18.45	$25.00	$25.00	$43.45
REWORK STORAGE TANK DRAIN	1	EA	$12.00	$12.00	$12.50	$12.50	$24.50
YARD HYDRANT	1	EA	$12.00	$12.00	$12.50	$12.50	$24.50
					SUBTOTAL		$447.40
					OVERHEAD 18%		$80.53
					SUBTOTAL		$527.93
					PROFIT 10%		$52.79
					TOTAL		$580.73

FINAL

OIL/WATER SEPARATOR EVALUATION REPORT

88th Regional Support Command, Ohio

DATE:	December 4, 1998
CLIENT:	U.S. Army Corps of Engineers, Norfolk District
PROJECT NAME:	Oil/Water Separator Evaluation
PROJECT LOCATION:	Regional Support Command, Ohio Customer Support Team
CONTRACT NUMBER:	DACA 65-96-D-0119, Delivery Order #20
PREPARED BY:	Jones Technologies, Inc.

LIST OF ACRONYMS

CFR	Code of Federal Regulations
CWA	Clean Water Act
GADMOD	GARIS Attribute Data Module
GARIS	Geographic Army Reserve Information System
JTI	Jones Technologies, Inc.
NPDES	National Pollutant Discharge Elimination System
O&M	operation and maintenance
OPA	Oil Pollution Act
OWS	oil/water separator
POTW	publicly owned treatment works
RCRA	Resource Conservation and Recovery Act
RSC	Regional Support Command
USARC	United States Army Reserve Center
UST	underground storage tank

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1 EXECUTIVE SUMMARY

The 88th Regional Support Command Office of Environmental Management ensures that all Army Reserve mission activities are in compliance with applicable federal, state, local, and Department of Defense environmental laws, procedures, and regulations. This responsibility must be carried forth in a way that will enhance adequate combat training and related mission support, while ensuring sound environmental management.

The continued growth of federal and state environmental laws and regulations has resulted in increased Operations and Maintenance (O&M) responsibility for the Army Reserve over the past 25 years, effectively reducing the available funds to support troop missions and training. Regulatory oversight and changing rule interpretations have added to the burden. In addition, the threat of notice of violation, fine, and civil and/or criminal penalty is a constant concern to military personnel. To address these demands, every effort is being made to produce a reasonable balance among operational support, training requirements, and environmental regulations.

1.1 Project Description

The 88th Regional Support Command, Ohio Customer Support Team requested Jones Technologies, Inc. (JTI) to identify and document each oil/water separator located at Army Reserve facilities throughout Ohio. The separators were installed to support organizational level maintenance activities or area maintenance support activities. Installation dates of the separators varies. Some of the devices were installed at the time of facility construction, while others were added to a facility as requirements for pollution control devices changed. The oil/water separators are used to prevent the discharge of petroleum, oil, and lubricants during maintenance or vehicle washing activities to storm water sewer system, sanitary sewer system, or directly to surface water bodies.

With this tasking, JTI reviewed site plans and utility plans of the facility to identify to the greatest extent possible, storm drainage systems on site as well as any municipal storm system and sanitary system connections. If information regarding municipal storm and/or sanitary system connections was not available on existing plans, JTI contacted the local sewer authority to confirm connections to municipal storm or sanitary sewers.

During the site visit, JTI conducted a survey of the entire property to identify floor drains and storm drains, all associated pretreatment systems such as oil/water separators, grease traps, running traps, grit chambers, or acid neutralizing sumps. In addition, the location of the discharge point for each of the floor drains and storm drains was identified. The data collection phase was performed in accordance with the United States Army Reserve Command's "Floor Drain/Storm Drain Data Gathering Protocol'" dated June 1997. The primary objective of this protocol is to ensure that data on floor drains and storm drains at United States Army Reserve facilities are gathered in a consistent, uniform manner and format.

Finally, JTI entered the information required for all sanitary and stormwater discharges, associated pretreatment systems, and inlets into the Geographic Army Reserve Information System Attribute Data Module (GADMOD) computer program.

1.2 Summary of Status

Jones Technologies, Inc. visited 42 U.S. Army Reserve facilities located throughout Ohio from October 22, 1997 to January 15, 1998. Oil/water separator systems were present at 26 of the 42 U.S. Army Reserve facilities. An oil/water separator system includes a source drain, oil/water separator and discharge point. Accessory features of an oil/water separator system may include a control valve and holding tank to provide flexibility with the system. Table 1-1 provides an overview of the oil/water separator systems at the U.S. Army Reserve facilities.

The configuration, components and condition of the existing oil/water separator systems vary across the state. The source drains for the oil/water separators included vehicle wash facilities, grease racks, and maintenance shops. These drains may be present at either exterior or interior locations. Storm water is an additional consideration when the source drain is at an exterior location.

Nine of the 26 facilities with oil/water separators have a manually operated control valve. In theory, a soldier is to "open" the control valve prior to washing a vehicle at the wash facility. This would allow for oily water to be diverted through an oil/water separator prior to being discharged to the municipal sanitary sewer system. After the vehicle washing activity is completed, the soldier is to "close" the control valve. In this position, the valve would divert any storm water to the storm water sewer system. JTI determined only 22% (2 of the 9) control valve were functioning properly. Most of the control valves could not be turned to the "closed" position. The practice of diverting storm water through an oil/water separator may appear as a safety precaution, however, most of the oil/water separator's located at the U.S. Army Reserve facilities are not designed to handle the excess amount of water.

Six of the 26 oil/water separator systems have a holding tank (i.e. underground storage tank) to provide extra storage capacity for the separator. All six of the holding tanks are approximately 500 gallons in capacity. According to the Ohio Bureau of Underground Storage Tank Regulations (OAC 1301:7-9-02 (52)), these holding tanks meet the definition of an underground storage tank and subject regulations for annual registration, upgrade, and/or release detection.

For 23 of the 26 oil/water separator systems, the discharge points consist of municipal sanitary sewer systems. The wastewater treatment plant will treat the effluent from the oil/water separator systems. Local entities may have enforceable wastewater discharge limitations that regulate discharges to treatment plants. Local limitations often include pH, temperature, and concentrations of various organic and inorganic compounds. Major industrial operations, including the U.S. Army Reserve, which discharge to an offsite treatment plant will be subjected to pretreatment permits issued by the treatment plant, state, or federal agencies.

Table 1-1: Summary of Oil/Water Separator Systems at Army Reserve Facilities Located in Ohio

FACID	CITY	FACILITY	OIL/WATER SEPARATOR PRESENT?	SOURCE DRAIN(S)	CONTROL VALVE PRESENT?	UST PRESENT?	DISCHARGE POINT	NPDES PERMIT REQUIRED?	OWS SYSTEM IN COMPLIANCE?
OH001	Akron	Schaffner USARC	NO	N/A	N/A	N/A	N/A	N/A	N/A
OH002	Akron	Woodford USARC	YES	exterior vehicle wash facility	YES	YES	open: sanitary closed: unknown	NO	NO(1)
OH003	Bellaire	Belmont County Memorial USARC	YES	exterior vehicle wash facility	YES	YES	open: sanitary closed: outfall	NO	NO(1)
OH028	Blacklick	Taylor Station USARTF	YES	interior maintenance shop	NO	NO	sanitary	NO	YES
OH104	Brooklyn	Brooklyn USARC	NO	N/A	N/A	N/A	N/A	N/A	N/A
OH004	Bryan	Knight USARC	YES	exterior vehicle wash facility	YES	NO	open: sanitary closed: storm sewer	NO	NO (2)
OH005	Cadiz	Conaway USARC	YES	exterior vehicle wash facility	NO	NO	sanitary	NO	YES
OH006	Canal Fulton	AMSA #3	YES	interior maintenance shop	NO	NO	outfall	YES	NO (2)
OH007	Canton	Hastings USARC	YES	exterior vehicle wash facility	YES	NO	open: sanitary closed: storm sewer	NO	YES
OH089	Canton	Shepler Church USARC	YES	interior warehouse	NO	NO	sanitary	NO	YES
OH008	Chillicothe	Skaggs USARC	NO	N/A	N/A	N/A	N/A	N/A	N/A
OH009	Cincinnati	Morrow USARC	NO	N/A	N/A	N/A	N/A	N/A	N/A
OH013	Columbus	Fort Hayes USARC	NO	N/A	N/A	N/A	N/A	N/A	N/A
OH014	Columbus	Whitehall USARC	NO	N/A	N/A	N/A	N/A	N/A	N/A
OH078	Columbus	Fort Hayes, Bldg. 300	NO	N/A	N/A	N/A	N/A	N/A	N/A
OH095	Columbus	Rickenbacker ANGB	NO	N/A	N/A	N/A	N/A	N/A	N/A
OH020	Dayton	LaPointe USARC	YES	exterior vehicle wash facility exterior grease rack	NO	NO	sanitary	NO	YES
OH024	Delaware	Delaware USARC	YES	interior maintenance shop	NO	YES	sanitary	NO	NO(1)
OH025	Elyria	Elyria USARC	YES	interior warehouse	NO	NO	sanitary	NO	YES
OH030	Kenton	Parrott USARC	YES	interior maintenance shop	NO	NO	sanitary	NO	YES
OH032	Kings Mills	Kings Mills USARC	NO	N/A	N/A	N/A	N/A	N/A	N/A
OH079	Kings Mills	AMSA #59	YES	interior vehicle wash facility interior maintenance shop	NO	NO	septic system	YES	YES
OH033	Lima	Faze USARC	YES	exterior vehicle wash facility	NO	NO	sanitary	NO	YES
OH037	Mansfield	Scoutin USARC	YES	exterior vehicle wash facility	YES	YES	open: sanitary closed: storm sewer	NO	NO(1)
OH038	Marietta	Washington County Memorial USARC	YES	exterior vehicle wash facility	NO	NO	sanitary	NO	YES
OH039	Marion	Pennington USARC	YES	exterior vehicle wash facility	YES	NO	open: sanitary closed: infiltration	NO	YES
OH044	Milan	Cooney USARC	YES	exterior vehicle wash facility interior maintenance shop	NO	NO	septic system	YES	YES
OH094	Monclova	Toledo USARC	NO	N/A	N/A	N/A	N/A	N/A	N/A

NO (1) - OWS system out of compliance due to UST

NO (2) - OWS system out of compliance due to discharge

Table 1-1: Summary of Oil/Water Separator Systems at Army Reserve Facilities Located in Ohio

FACID	CITY	FACILITY	OIL/WATER SEPARATOR PRESENT?	SOURCE DRAIN(S)	CONTROL VALVE PRESENT?	UST PRESENT?	DISCHARGE POINT	NPDES PERMIT REQUIRED?	OWS SYSTEM IN COMPLIANCE?
OH103	Monclova	AMSA #165	YES	interior maintenance shop	NO	NO	sanitary	NO	YES
OH036	Northfield	AMSA #123	NO	N/A	N/A	N/A	N/A	N/A	N/A
OH049	Parma	Mote USARC	NO	N/A	N/A	N/A	N/A	N/A	N/A
OH058	Sharonville	Outcalt USARC	YES	exterior vehicle wash facility	YES	YES	open: sanitary closed: storm sewer	NO	NO(1)
OH059	Springfield	Downs USARC	YES	exterior vehicle wash facility interior maintenance shop	NO	NO	sanitary	NO	YES
OH060	Tiffin	Tiffin USARC	NO	N/A	N/A	N/A	N/A	N/A	N/A
OH063	Troy	Troy Memorial USARC	YES	exterior vehicle wash facility	NO	NO	sanitary	NO	YES
OH064	Warren	Kunkel USARC	NO	N/A	N/A	N/A	N/A	N/A	N/A
OH066	Warrensville	Huisman USARC	YES	exterior vehicle wash facility	YES	YES	open: sanitary closed: unknown	NO	NO(1)
OH018	Whitehall	88th RSC, CST #3	NO	N/A	N/A	N/A	N/A	N/A	N/A
OH101	Whitehall	AMSA #56	YES	exterior vehicle wash facility interior maintenance shop	NO	NO	sanitary	NO	YES
OH102	Whitehall	DS/GS Training Facility	NO	N/A	N/A	N/A	N/A	N/A	N/A
OH068	Wooster	Ward Memorail USARC	YES	exterior vehicle wash facility	YES	NO	open: sanitary closed: unknown	NO	YES
OH072	Zanesville	Zanesville Memorial USARC	YES	exterior vehicle wash facility interior maintenance shop	NO	NO	sanitary	NO	YES

NO (1) - OWS system out of compliance due to UST

NO (2) - OWS system out of compliance due to discharge

Cooney USARC (Milan) and AMSA #59 (Kings Mills) have a package sewage treatment plant, infiltration gallery, and chlorinator on-site to treat the sanitary sewage, including the effluent from the oil/water separator system. The oil/water separator system at AMSA #3 (Canal Fulton) discharges directly to an open ditch. A National Pollutant Discharge Elimination System (NPDES) permit needs to be obtained for the three aforementioned facilities. A NPDES permit is granted to a direct discharger who permits wastewater discharge to a watercourse in accordance with the conditions of the permit (40 CFR 403.3(1)).

1.3 Recommendations

A summary of the recommendations and alternatives for the oil/water separator systems is included in Table 1-2. Specific cost information listed Table 1-2 is provided in Attachment A. Jones Technologies contacted several manufacturers of oil/water separators. A copy of their product brochures are included Attachment B.

2 REGULATORY ASPECTS

At the Federal level, oil/water separator operation can be affected by the Clean Water Act, Oil Pollution Act, and possibly by Resource Conservation and Recovery Act.

2.1 Clean Water Act

The Clean Water Act (CWA) governs the disposal of wastewater. Authorized State agencies use CWA water quality criteria to develop site-specific permits for the discharge of wastewater to surface water bodies. General pretreatment standards have been developed under the CWA which apply to the discharge of wastewater through Publicly Owned Treatment Works (POTW) and National Pollutant Discharge Elimination System (NPDES) permitted outfalls. The CWA requires POTWs to develop local limits for discharges of nondomestic wastewater to the POTW.

The NPDES permit for wastewater discharge dictates the waste stream sampling protocol. The sampling protocol includes sampling point locations, sampling frequency, sampling parameters, and minimum and maximum concentrations for each outfall. For oil/water separators discharging to a storm drain, a NPDES permit requires periodic sampling to prevent excessive emission to the storm drain. A separate industrial waste permit is typically required for each oil/water separator.

Regulations implementing major portions of the CWA affecting oil/water separators are found in Title 40 Code of Federal Regulations (CFR) Parts 104-149 (Water Programs) and Parts 401-471 (Effluent Guidelines and Standards).

Table 1-2: Summary of Recommendations and Alternatives at Army Reserve Facilities Located in Ohio

FACID	CITY	FACILITY	RECOMMENDATIONS	COST	ALTERNATIVES	COSTS
OH002	Akron	Woodford USARC	1. The control valve should be repaired/replaced for the OWS to function properly. 2. UST should be registered with the Ohio State Fire Marshal. 3. UST tank release detection program should be initiated.	1. $4,500 2. $320 3. $2,750	1. Remove existing OWS system and replace with a grit trap connected to sanitary sewer system. 2. Remove existing OWS system and replace with a new OWS system. 3. Remove vehicle wash facility and OWS system.	1. $10,250 2. $20,500 3. $7,500
OH003	Bellaire	Belmont County Memorial USARC	1. The control valve should be repaired/replaced for the OWS to function properly. 2. UST should be registered with the Ohio State Fire Marshal. 3. UST tank release detection program should be initiated.	1. $4,500 2. $320 3. $2,750	1. Remove existing OWS system and replace with a grit trap connected to sanitary sewer system. 2. Remove existing OWS system and replace with a new OWS system. 3. Remove vehicle wash facility and OWS system.	1. $10,250 2. $20,500 3. $7,500
OH028	Blacklick	Taylor Station USARTF	1. The contents (water, oil, and solid debris) should be removed. 2. Maintenance personnel should discontinue the practice of performing parts cleaning near the trench drain.	1. $1,500 2. $0	1. None	1. $0
OH004	Bryan	Knight USARC	1. The storm water line should be repaired. 2. The control valve should be repaired/replaced for the OWS to function properly. 3. UST tank release detection program should be initiated.	1. TBD 2. $4,500 3. $2,750	1. Remove existing OWS system and replace with a grit trap connected to sanitary sewer system. 2. Remove existing OWS system and replace with a new OWS system. 3. Remove vehicle wash facility and OWS system.	1. $10,250 2. $20,500 3. $7,500
OH005	Cadiz	Conaway USARC	1. The contents (water, oil, and solid debris) should be removed.	1. $1,500	1. None	1. $0
OH006	Canal Fulton	AMSA #3	1. Obtain and comply with an NPDES permit. 2. Develop a program to periodically inspect the condition of the OWS system, especially the cracks in concrete blocks. 3. The contents (water, oil, and solid debris) of the OWS should be removed.	1. $4,220 2. $920 3. $1,500	1. Remove existing OWS system and replace with a grit trap connected to sanitary sewer system. 2. Remove existing OWS system and replace with a new OWS system. 3. Remove vehicle wash facility and OWS system.	1. $10,250 2. $20,500 3. $7,500

Table 1-2: Summary of Recommendations and Alternatives at Army Reserve Facilities Located in Ohio

FACID	CITY	FACILITY	RECOMMENDATIONS	COST	ALTERNATIVES	COSTS
OH007	Canton	Hastings USARC	1. The control valve should be repaired/replaced for the OWS to function properly.	1. $4,500	1. Remove existing OWS system and replace with a grit trap connected to sanitary sewer system. 2. Remove existing OWS system and replace with a new OWS system. 3. Remove vehicle wash facility and OWS system.	1. $10,250 2. $20,500 3. $7,500
OH089	Canton	Shepler Church USARC	1. The contents (water, oil, and solid debris) should be removed.	1. $1,500	1. None	
OH020	Dayton	LaPointe USARC	1. OWS needs repaired - baffles missing.	1. $1,200	1. Remove existing OWS system and replace with a grit trap connected to sanitary sewer system. 2. Remove existing OWS system and replace with a new OWS system. 3. Remove vehicle wash facility and OWS system.	1. $10,250 2. $20,500 3. $7,500
OH024	Delaware	Delaware USARC	1. UST should be registered with the Ohio State Fire Marshal. 2. UST tank release detection program should be initiated.	1. $320 2. $2,750	1. Remove existing OWS system and replace with a grit trap connected to sanitary sewer system. 2. Remove existing OWS system and replace with a new OWS system. 3. Remove vehicle wash facility and OWS system.	1. $10,250 2. $20,500 3. $7,500
OH025	Elyria	Elyria USARC	1. None	1. $0	1. None	1. $0
OH030	Kenton	Parrott USARC	1. None	1. $0	1. None	1. $0
OH079	Kings Mills	AMSA #59	1. Develop a program to periodically inspect the condition of the OWS system, especially the high-level indicator alarm. 2. The contents (water, oil, and solid debris) of the OWS should be removed.	1. $920 2. $1,500	1. None	1. $0
OH033	Lima	Faze USARC	1. The contents (water, oil, and solid debris) should be removed.	1. $1,500	1. None	1. $0

Table 1-2: Summary of Recommendations and Alternatives at Army Reserve Facilities Located in Ohio

FACID	CITY	FACILITY	RECOMMENDATIONS	COST	ALTERNATIVES	COSTS
OH037	Mansfield	Scoutin USARC	1. The control valve should be repaired/replaced for the OWS to function properly. 2. UST should be registered with the Ohio State Fire Marshal. 3. UST tank release detection program should be initiated. 4. The contents (water, oil, and solid debris) should be removed.	1. $4,500 2. $320 3. $2,750 4. $1,500	1. Remove existing OWS system and replace with a grit trap connected to sanitary sewer system. 2. Remove existing OWS system and replace with a new OWS system. 3. Remove vehicle wash facility and OWS system.	1. $10,250 2. $20,500 3. $7,500
OH038	Marietta	Washington County Memorial USARC	1. OWS needs repaired - baffles missing. 2. The contents (water, oil, and solid debris) should be removed.	1. $1,200 2. $1,500	1. Remove existing OWS system and replace with a grit trap connected to sanitary sewer system. 2. Remove existing OWS system and replace with a new OWS system. 3. Remove vehicle wash facility and OWS system.	1. $10,250 2. $20,500 3. $7,500
OH039	Marion	Pennington USARC	1. None	1. $0	1. Remove existing OWS system and replace with a grit trap connected to sanitary sewer system. 2. Remove existing OWS system and replace with a new OWS system. 3. Remove vehicle wash facility and OWS system.	1. $10,250 2. $20,500 3. $7,500
OH044	Milan	Cooney USARC	1. The contents (water, oil, and solid debris) should be removed. 2. Excavate soil above OWS to obtain access for further evaluation of system.	1. $1,500 2. $2,580	1. Remove existing OWS system and replace with a grit trap connected to sanitary sewer system. 2. Remove existing OWS system and replace with a new OWS system. 3. Remove vehicle wash facility and OWS system.	1. $10,250 2. $20,500 3. $7,500
OH103	Monclova	AMSA #165	1. The contents (water, oil, and solid debris) should be removed.	1. $1,500	1. None	1. $0
OH058	Sharonville	Outcalt USARC	1. UST should be registered with the Ohio State Fire Marshal. 2. UST tank release detection program should be initiated.	1. $320 2. $2,750	1. Remove existing OWS system and replace with a grit trap connected to sanitary sewer system. 2. Remove existing OWS system and replace with a new OWS system. 3. Remove vehicle wash facility and OWS system.	1. $10,250 2. $20,500 3. $7,500

Table 1-2: Summary of Recommendations and Alternatives at Army Reserve Facilities Located in Ohio

FACID	CITY	FACILITY	RECOMMENDATIONS	COST	ALTERNATIVES	COSTS
OH059	Springfield	Downs USARC	1. None	1. $0	1. None	1. $0
OH063	Troy	Troy Memorial USARC	1. The pipe between the vehicle wash facility and OWS should be repaired.	1. $2,750	1. Remove existing OWS system and replace with a grit trap connected to sanitary sewer system. 2. Remove existing OWS system and replace with a new OWS system. 3. Remove vehicle wash facility and OWS system.	1. $10,250 2. $20,500 3. $7,500
OH066	Warrensville	Huisman USARC	1. The control valve should be repaired/replaced for the OWS to function properly. 2. UST should be registered with the Ohio State Fire Marshal. 3. UST tank release detection program should be initiated.	1. $4,500 2. $320 3. $2,750	1. Remove existing OWS system and replace with a grit trap connected to sanitary sewer system. 2. Remove existing OWS system and replace with a new OWS system. 3. Remove vehicle wash facility and OWS system.	1. $10,250 2. $20,500 3. $7,500
OH101	Whitehall	AMSA #56	1. None	1. $0	1. None	1. $0
OH068	Wooster	Ward Memorail USARC	1. The control valve should be repaired/replaced for the OWS to function properly.	1. $4,500	1. Remove existing OWS system and replace with a grit trap connected to sanitary sewer system. 2. Remove existing OWS system and replace with a new OWS system. 3. Remove vehicle wash facility and OWS system.	1. $10,250 2. $20,500 3. $7,500
OH072	Zanesville	Zanesville Memorial USARC	1. The contents (water, oil, and solid debris) should be removed.	1. $1,500	1. None	1. $0

2.2 Oil Pollution Act

The Oil Pollution Act (OPA) establishes liability for removal costs and damages for those parties responsible for a vessel or facility from which oil is discharged, or which poses the substantial threat of discharge of oil, into or upon navigable waters or adjoining shorelines or the exclusive economic zone.

Regulations implementing portions of the OPA which could affect oil/water separators include Title 40 CFR Part 110, "Discharge of Oil," and Part 112, "Oil Pollution Prevention." Title 40 CFR Part 112 establishes requirements for the preparation and implementation of Spill Prevention Control and Countermeasure Plans.

2.3 Resource Conservation and Recovery Act

The Resource Conservation and Recovery Act (RCRA) establishes the requirements to regulate and control the generation, treatment, storage, transportation, and disposal of solid and hazardous wastes. RCRA also establishes requirements to regulate underground storage tanks containing certain substances, including oil and hazardous wastes. RCRA can have serious impacts on use of oil/water separators in several ways.

Underground oil/water separators and/or their holding tanks can be designated as regulated underground storage tanks due to the oil contained in holding reservoirs or tanks. This can impose stringent controls and management and reporting requirements under Title 40 CFR Part 280, "Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks (UST)," which include physical requirements such as double walls or linings, leak detection devices, and monitoring wells.

Oil/water separator sludge and oils can become contaminated with solvents, halogens, and/or metals if improperly used. A leaking oil/water separator containing these hazardous wastes can result in designation as a solid waste management unit and be subject to corrective actions under RCRA regulations found in Title 40 CFR Subpart F, "Releases from Solid Waste Management Units." Corrective actions generate numerous investigative and potential cleanup requirements, not to mention possible notices of violation.

2.4 State and Local

State and local regulatory activities may have additional requirements more stringent than Federal levels.

3 OVERVIEW OF OIL/WATER SEPARATOR SYSTEMS

Oil/water separators are devices commonly used as a method to separate oily waste products from wastewater streams. They are typically installed in industrial and maintenance areas to receive and separate oils at low concentrations from wastewater generated during industrial processes such as vehicle maintenance and washing. However, oil/water separators are not

automatic insurance that will guarantee oils will not enter a storm water drainage system or sanitary sewer system. Oil/water separators are not designed to separate high concentrations of oil such as from a spill or pouring waste oil down the drain.

3.1 Operation of an Oil/Water Separator

Oil/water separators use several techniques, depending on the type and application or intended use of the separation system. The performance of these systems is based primarily on the relatively low solubility of petroleum products in water and the difference between the specific gravity of water and the specific gravity of petroleum compounds. Gravity oil/water separators are not designed to separate other products such as solvents, detergents, or metals. The illustration below represents a very simple example of the separation phases in a gravity oil/water separator.

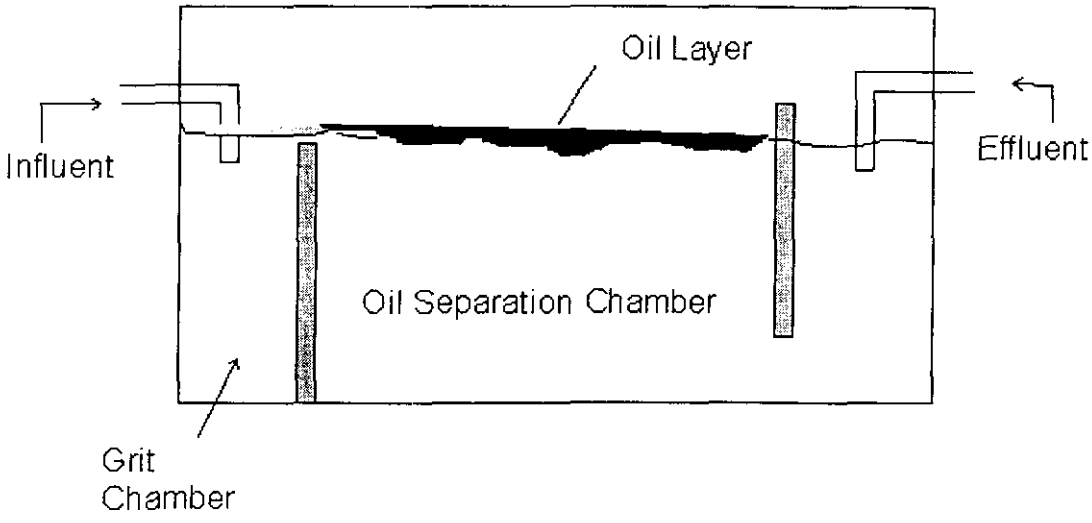


Figure 3-1: Oily wastewater influent is introduced to the inlet of the separator. The first baffle stabilizes water turbulence and solids are settled and accumulated as sludge in the bottom of the separator. As the wastewater flows to the second chamber located at the center of the separator, oil droplets rise to the top of the water and are prevented from exiting by a second baffle. Thus, as illustrated, solid sludge heavier than water can be collected and oil droplets lighter than water can be accumulated on top of the wastewater and routed to a holding chamber or tank

3.2 Factors Affecting Oil/Water Separator Performance

The basic operation of an oil/water separator is simple; however, many factors will have direct effects on its efficiency. The following elements have a direct impact on the efficiency, use, and management of oil/water separators:

3.2.1 Frequency and Intensity

The longer the residence time of the waste stream in the oil/water separator, the more efficient it will be at separating oil. Contaminated water enters a receiving chamber of the separator where the flow rate of the wastewater is reduced allowing heavy solids to settle while larger oil droplets float to the top of the compartment. Further separation continues in the separation chamber where smaller droplets of oil separate from the water and join the larger droplets previously separated. The oil layer, which has accumulated on the top of the water spills over an oil skimmer into a holding area and the wastewater then, flows, or is pumped, to the storm water or sanitary sewer system. A longer separation time increases the efficiency of the oil/water separator by allowing a greater amount of oil to rise to the top of the wastewater. Therefore, decreasing the wastewater flow rate through the separator will increase the efficiency of the separator.

3.2.2 Design Capacity

An oil/water separator has a finite capacity for storage of oils and sludge accumulated during its operation. Quite often the oil/water separator holding compartments can become saturated or full, allowing contamination to flow freely into the wastewater effluent exiting the separator system. Ensuring the separator capacity meets the needs of the process will aid separation efficiency.

3.2.3 Emulsifying Agents

Detergents and soaps designed to remove oily grime from dirty weapon systems, vehicles, or other components can adversely affect oil/water separator operation. These agents are designed to increase solvency of oily grime in water. Hence, the oil droplets take longer to separate from water reducing separation efficiency. Overzealous use of detergents can degrade efficiency by completely emulsifying oil in the wastewater stream, thus allowing it to pass through the oil/water separator unaffected.

3.2.4 Periodic Maintenance Practices

Sludge and oils, which are not periodically pumped from separator holding tanks, can render it inoperative. Additionally, leaks from oil/water separators can result in environmental pollution, which can potentially require investigative studies and extensive cleanup. A periodic maintenance plan can prevent contaminated discharges from the oil/water separator system.

3.2.5 Type of Oil/Water Separator System

An oil/water separator designed and installed for a past mission requirement may not be suitable for present maintenance operations. These units are susceptible to unnoticed abuse by maintenance activities. A wash rack with an oil/water separator designed to capture contaminants from a small vehicle will not handle larger wastewater volumes from a larger vehicle. Additionally, mission changes can result in changes in the effluent characteristics of

the wastewater being discharged to an oil/water separator (i.e., wastewater with solvents or emulsification versus oil). Mission conversions can necessitate modification of storm water/wastewater drainage systems. Oil/water separators not having a storm water diversion system that allows storm water to be diverted from the separation system can also impair efficiency.

3.2.6 Contaminants Contained in the Wastewater Stream

Heavy metals and dirt in the wastewater will settle into the sludge at the bottom of the oil/water separator receiving compartments. The sludge could be regulated as a hazardous waste if levels exceed Resource Conservation and Recovery Act (RCRA) or State hazardous waste levels. Solvents or fuels may also be retained in oil/water separator sludge.

4 EXPLANATION OF STATUS REPORTS

Jones Technologies, Inc. has prepared a "Status Report" for each of the Army Reserve facilities with oil/water separators. Each report details the condition of the oil/water separator, provides recommendations concerning the continued operation of the separator. In addition, at least one photograph of the discharge location (if an outfall to a surface water body) and a computer-generated diagram of each oil/water separator with respect to its location on the facility and the connections to the system. The diagrams were completed utilizing the nomenclature guidelines set forth by the Tri-Services Commission. Building, floor drain, storm drain, sanitary lines, storm water lines, associated pretreatment systems, and discharges were identified in accordance with the United States Army Reserve Command's "Floor Drain/Storm Drain Data Gathering Protocol'" dated June 1997.

The following is a brief explanation of the sections in each of the Status Reports located in Attachment C. When appropriate, JTI used the same terminology as the database support software (see Section 5).

4.1 Facility

The name and address of the facility is listed.

4.2 Location of Oil/Water Separator

A brief narrative description is provided including where the oil/water separator is located at the site and how it can be identified at the surface.

4.3 Source Drains

This section is a brief narrative description of the floor and/or storm drains that supply the oily water to the separator. If the drain is located at a vehicle wash facility or inside a maintenance shop, it is also noted in this section.

4.3.1 Potential Contaminants

This is a narrative description of the types of contaminants that could potentially enter the drain based upon the proximity of the contaminant and the design of the inlet. Typical potential contaminants include: antifreeze; battery acid; degreasing solvents; diesel fuel; fuel oil; gasoline; hazardous waste; petroleum, oil, and lubricants; unknown; and waste oil.

4.4 Discharge

This section is a narrative description describing the discharge location of the oil/water separator system, which includes the source drain, control valve, and the separator. If a system had a control valve, the discharge of the source drain and oil/water separator is discussed. However, field verification of the discharge was not always possible due to several factors: malfunctioning control valves, excess silt in source drain, and broken buried lines. JTI has noted where these difficulties were encountered.

4.5 Oil/Water Separator Data

This is information specific about the oil/water separator.

4.5.1 Status

Based on a database support software picklist. Options include: blocked, currently in use, potentially operational, and removed from service.

4.5.2 Size

Provides the physical dimensions (in feet) of the oil/water separator, including the depth.

4.5.3 Total Capacity

Provides the total volume (in gallons) of the oil/water separator.

4.5.4 Oil Storage Capacity

Provides the volume (in gallons) of oil the oil/water separator or oil holding tank is capable of storing.

4.5.5 Construction Materials

Based on a database support software picklist. Options include: steel, wood, PVC. A few reports have "concrete" listed since no units are currently assigned to the facility. This description will have to be added to the database support software.

4.5.6 Condition

Based on a database support software picklist. Options include: good condition, needs maintenance, and fair condition.

4.5.7 Level of Use

Based on a database support software picklist. Options include: daily, weekly, monthly. A few reports have "never" listed since no units are currently assigned to the facility.

4.5.8 Maintenance Schedule

Provides information regarding the current level of liquid in the oil/water separator and the date of last cleaning, if known.

4.5.9 Control Valve

A brief narrative description of the control valve, if present.

4.5.10 Oil Holding Tank

A brief narrative description of the oil holding tank, if present.

4.6 Regulatory Compliance Status

Based on a database support software picklist. Options include: could not be determined, in compliance, out of compliance, and potentially out of compliance. Regulatory citations are provided in this section if the oil/water separator system is out of compliance and potentially out of compliance.

4.7 Recommendations

Jones Technologies, Inc. has provided a list of actions required to make the oil/water separator system function properly or to bring the system into compliance. Additional discussion of the recommendations is located in Section 1.3 of this report.

4.8 Alternatives

Several alternatives that may be implemented to upgrade the operations of the oil/water separator are described. Additional discussion of the alternatives is located in Section 1.3 of this report.

5 DATABASE SUPPORT

Geographic Army Reserve Information System (GARIS) is an information management tool for the environmental and facilities management of, and master planning for, Army Reserve facilities. GARIS Attribute Data Module (GADMOD) is a data/metadata entry application that provides for direct input of the floor drain/storm drain survey results into database tables for subsequent upload to the host database system.

At the request of the 88th Regional Support Command, Ohio Customer Support Team, JTI used GADMOD to capture field data in an electronic format. A large number of data elements (i.e. floor drains, storm drains, associated pretreatment systems, and discharge points) are selected from "picklists" so that a minimal amount of keying in is necessary. Data entry screens for capturing metadata (i.e. data about the data) are also included in GADMOD. To simplify entry, metadata fields are divided into five categories: common, facility specific, source, field survey, and graphic. A copy of the GADMOD User Guide is included Attachment D.

Oil/Water Separator Evaluation

Facility: SFC Morgan L. Downs USARC (FAC ID: OH059)
1515 West High Street
Springfield, OH 45506-1197

Location of Oil/Water Separator (OWS): The oil/water separator is located in the military equipment parking area near the northwest corner of the maintenance shop. It is approximately 5 feet west and 10 feet north of the aforementioned corner. Prior to the OWS is a sand trap. The units are identified at the surface by a circular manhole cover (sand trap) and a rectangular manhole cover (oil/water separator) that are sealed with bolts (See Photo 1).

Source Drain(s): The oil/water separator is connected to two trench drains. One drain is outside at the vehicle wash facility and the other is located inside the maintenance shop.

Potential Contaminants: Two HAZMAT storage buildings are located within the vehicle wash facility. The HAZMAT storage building is store virgin and waste POL material. Facility/unit personnel do not use the vehicle wash facility. At the time of the site visit, AMSA personnel were in the process of consolidating from another facility. Therefore, the exact material and location of potential contaminants could not be ascertained. It is assumed the maintenance shop will have a storage area with lube oil, antifreeze, and used antifreeze is located inside the maintenance shop.

Discharge: The trench drains and oil/water separator can only discharge to the city sanitary sewer system. The facility connection to the sanitary system is under West High Street (See Photo 2).

Oil/Water Separator Data:

Status: Currently in use.

Size: 44" in diameter x 53" in depth.

Total Capacity: 350 gallons.

Oil Storage Capacity: 175 gallons.

Construction Materials: Steel.

Condition: Good.

Level of Use: Weekly (shop bays are cleaned) and during precipitation events.

Maintenance Schedule: Date of last clean out was April 21, 1997. Approximately 470 gallons of used oil/water mixture was removed.

Control Valve: A control valve is not associated with this OWS.

Oil Holding Tank: A holding tank is not associated with this OWS.

Regulatory Compliance Status: In compliance.

Recommendations: None.

Alternatives: None.

Photographs:

Photo 1 - Location of sand trap (circular manhole cover) and oil/water separator (rectangular manhole cover). Vehicle wash facility in photograph background.

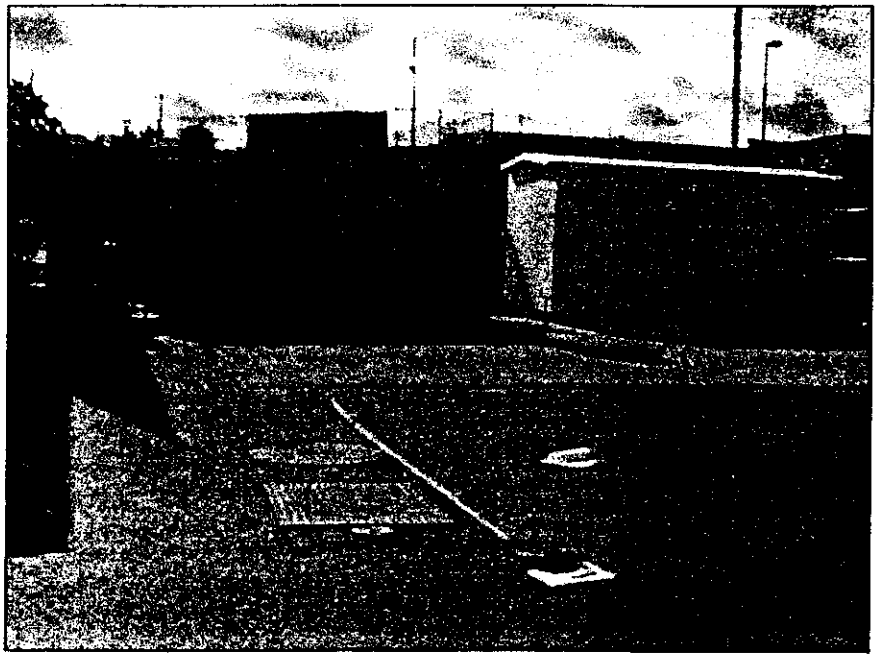
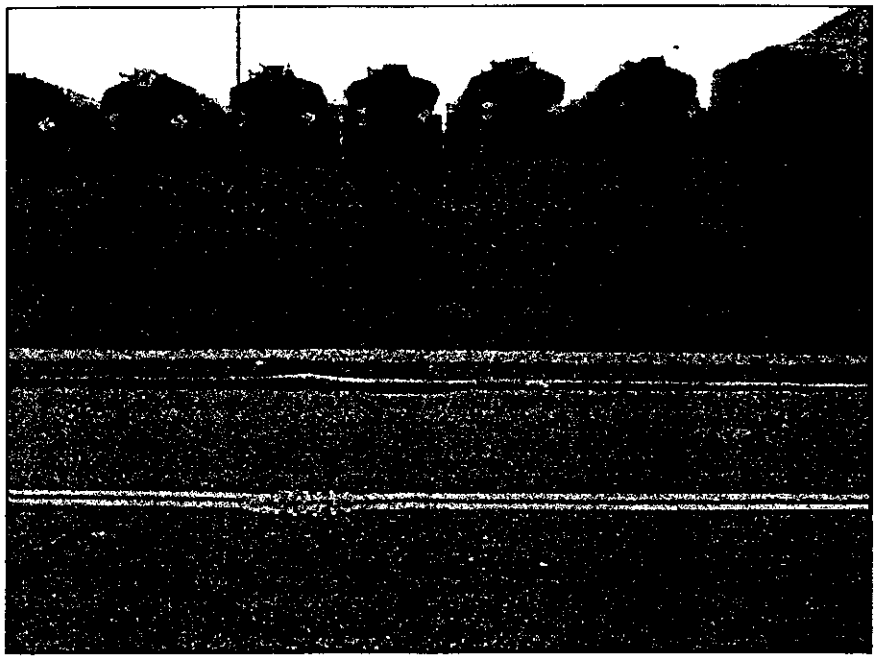


Photo 2 - Oil/water separator discharges to city sanitary sewer system under West High Street (note manhole cover in middle of road).



ENVIRONMENTAL SURVEY REPORT
ASBESTOS, PCB, LEAD BASED PAINT AND RADON SURVEY
88TH REGIONAL SUPPORT COMMAND
M. L. DOWNS USARC, SPRINGFIELD, OH (OH-059)
ADMINISTRATION BUILDING & OMS BUILDING

PREPARED FOR:

88th Regional Support Command
506 Roeder Circle
Ft. Snelling, MN 55111

PREPARED BY:

ITI OF SOUTH FLORIDA, INC.
2710 CENTRAL AVE.
St. Petersburg, FL 33712
727 502 9223 727 581 0764 (fax) itisf@aol.com

Adecco Technical Task Order DAY A000003029

Gil Bakshi, MA
Building Inspecter
01 June 2005

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Signature of Asbestos Inspector Brian Gibson

Brian Gibson 01 June 2005

1.0 INTRODUCTION

International Training Institute of South Florida, Inc. (ITI) has performed a site survey for the 88th Reg. Support Command (RSC) property located at the M. L. Downs USARC located in Springfield, Ohio (OH-059). ITI's work was based on a scope of work prepared by the 88th RSC and administered under Adecco Technical Task Order DAY A000003029.

2.0 PURPOSE

This report provides information concerning the potential types, quantities, locations, and condition of asbestos containing materials, polychlorinated biphenyls (PCBs), lead based paint (LBP) and radon.

The purpose of this document is to assist the 88th RSC in complying with federal and state regulations concerning Asbestos, PCBs, LBPs and Radon. ITI's evaluation is based on a site inspection, information obtained from available documentation located at the site and the 88th RSC, and interviews with persons knowledgeable about the current and past history of the site.

3.0 SITE DESCRIPTION

ADMINISTRATION BUILDING

This one story building is a block structure with a stucco exterior finish. Interior walls are painted block and framed drywall partitions. The roof is a flat built-up asphalt mopped surface.

OMS

This one story building is a block structure with a stucco exterior finish. Interior walls are painted block. The roof is a flat built-up asphalt mopped surface.

3.1 SCOPE OF WORK

ITI has conducted one or more of the following tasks at this site: collect radon samples, conduct a lead based paint inspection, identify PCBs and asbestos inspection.

- Conduct radon testing at all identified 88th RSC sites for radon gas concentration levels and review all previous radon test results provided by the government.
- Determine levels of radon gas by installing passive detection equipment (alpha track) in specific buildings of the selected facilities.
- Utilize the laboratory that supplied the alpha track radon detectors for analysis.

- Evaluate each facility be age to determine the potential for existence of lead based paint (LBP) and review any previous LBP surveys conducted by the government.
- Where the potential for LBP is determined, ITI will conduct a visual inspection of all (but not limited to) of the following surfaces; doors, door casings and frames, walls, upper and lower, windows sashes, stair stringers, tends, and handrails, ceilings, vents, structural steel, HVAC ducts and window guards at each facility. Samples of suspect surfaces will be conducted by using a portable, on-site measuring instrument that uses X-Ray Fluorescence to determine the existence of LBP.
- Include all information observed as part of the final report to include all existing LBP and its condition, along with all sample locations (CAD drawings and/or field notes).
- Evaluate each facility by age to determine the potential for the existence of PCBs and review any previous PCB surveys conducted by the government.
- Where the potential for PCBs is determined, ITI will conduct a visual inspection of each facility to determine the existence of PCBs and identify all potential equipment. This will require ITI to randomly open one or more like types of equipment to visually confirm the existence of PCB containing material within the equipment.
- Include all information as part of the final report to include all equipment and its condition, potentially containing PCBs.
- Review all previous asbestos surveys conducted by the government.
- ITI will visually inspect each facility and visually verify all information found in pervious surveys and note any variances and/or missing data.
- ITI will identify all asbestos containing materials (ACM) and any potential asbestos containing material (PACM), estimate the amount in the entire building and determine and record the condition of the ACM and PACM in the survey. Samples will be collected on friable PACM only. PACM identified in the significantly damaged and damaged conditions will be analyzed. Friable PACM in good condition will only be analyzed with the approval for the COR or his representative. ITI will maintain and store all samples collected until sent for analysis or authorized disposal by the COR or his representative. All samples not analyzed will be disposed of in accordance with all Federal, State and Local regulations. Any friable ACM or PACM in significantly damaged or damaged condition will be brought to the attention of the COR or his representative as soon as possible.
- ITI will include all information as part of the final report to include all existing ACM, any PACM and the condition of both existing asbestos and PACM.
- Installation and retrieval of government owned alpha tract radon detectors.
- ITI must document all new data and integrate the 88th RSC information into the final report.

3.2 EXECUTIVE SUMMARY

ASBESTOS

Based on ITI's survey of the building, ITI has concluded the following materials contain asbestos:

ADMINISTRATION BUILDING

CONFIRMED ASBESTOS

- Gray linear pipe insulation 14' LF (from RMT survey in 1992)
  - Approximately 14 LF, found in Mechanical Room
- Gray pipe fitting insulation (from RMT survey in 1992)
  - Approximately 8 fittings, found in Mechanical Room
- Insulation on water tank (from RMT survey in 1992)
  - Approximately 98 LF, found in Mechanical Room
- Exterior white caulking (CK; contains less than 1% asbestos)
  - Located around exterior door frames

PRESUMED ASBESTOS

- Roofing Materials
- Fire doors
- Electrical coatings on wires

OMS BUILDING

CONFIRMED ASBESTOS

- None

PRESUMED ASBESTOS

- Roofing Materials
- Fire Doors
- Electrical Wiring

Special note: The exterior white caulking (CK) in the USARC Building contains less than 1% asbestos, according to PLM analysis. At the request of the 88th RSC, we are reporting materials as asbestos containing if any amount of asbestos was found in them.

PCB'S

Based on ITI's survey of the building, ITI has concluded that the following types of transformers are located in the building.

ADMINISTRATION BUILDING

- Light Ballasts – Advance R-2540-1-TP ("No PCB's" on label)
- Light Ballasts – Advance R-140-1-TP ("No PCB's" on label)
- Light Ballasts – Sylvania QT2x32/120 IS-SC (Electronic)

OMS BUILDING

- Light Ballasts – Advance R-2540-1-TP ("No PCB's" on label)

TRANSFORMERS

- Concrete slab mounted transformer tagged T2986-150

LEAD BASED PAINTS

Based on ITI's survey for LBP, ITI has concluded that the following building products contain LBP:

ADMINISTRATION BUILDING

- None found

OMS BUILDING

- Floor stripes in Bay Area
  - Concrete substrate, yellow color
  - Poor condition
- Overhead door, casing and jambs in Bay Area
  - Metal substrate, tan color
  - Intact condition

RADON

Based on ITI's survey, ITI has concluded all radon results are below 4 piCu/l for this location.

4.0 PREVIOUS INSPECTIONS

Below are the records for previous inspections conducted at this site.

4.1 ASBESTOS

A previous inspection was performed in 1992 by RMT, Inc. Materials found to contain asbestos in the previous survey are listed below:

- Water storage tank insulation
- Pipe insulation
- Pipe fitting insulation
- HVAC Cloth expansion joints

These materials are still present in the building.

4.2 PCB'S

- NO PREVIOUS INSPECTIONS

4.3 LEAD BASED PAINT

- NO PREVIOUS INSPECTIONS.

4.4 RADON

- NO PREVIOUS INSPECTIONS

5.0 ASBESTOS CONTAINING MATERIALS

During this survey conducted on 24 July 2003 and 16 December 2004, ITI accredited building inspectors Mr. Narciso Martinez (License Number 34253) and Mr. Brian Gibson (License Number 34494) performed a walk-through of the subject building. This was performed in order to identify and delineate locations of homogeneous materials suspected of containing asbestos. A homogeneous material is defined as material that presents similar distinguishing features such as contents. Once homogeneous materials were identified, ITI inspectors collected bulk samples from these materials in order to confirm the presence or absence of asbestos. Samples were collected in accordance with U.S. Environmental Protection Agency (EPA) and Occupational Safety and Health Administration (OSHA).

BULK SAMPLES

During the Inspection, sampling locations were recorded on floor plans and are identified in Appendix A of this report.

A.E.S.L. Environmental located in Tempe, Arizona is the laboratory ITI used for analysis of bulk samples. This independent laboratory successfully participates in the National

Voluntary Laboratory Accreditation Program (NVLAP) for bulk asbestos sample analysis. The samples are analyzed using Polarized Light Microscopy (PLM) analysis methodology coupled with dispersion staining solutions to distinguish the unique optical properties of mineral forms. Employing this method of analysis allows asbestos fiber characteristics to colonize, which enables the microscopist to verify the presence or absence, quantity and type of asbestos in the samples. Any product that contains more than one percent asbestos is considered to be ACM by EPA & OSHA. ITI performed QA/QC sampling for the total collected bulk samples (minimum of 10%). PLM results will be located in Appendix A to this report.

5.1 ASSESSMENT METHODOLOGY

All Asbestos Containing Building Materials (ACBM) were classified into the following three types of suspect materials:

1. Surfacing Materials

2. Thermal System Insulation (TSI)

3. Miscellaneous Materials

ACM identified during the building survey was assessed according to the protocol described in 40 CR 763. The protocol evaluates the risk of exposure to airborne asbestos fibers by assessing the condition of each ACM and potential for that ACM to be disturbed and generate fibers. ACM was assessed according to each of the following factors:

(1) Damaged or significantly damaged thermal system insulation ACM.

(2) Damaged friable surfacing ACM.

(3) Significantly damaged friable surfacing ACM.

(4) Damaged or significantly damaged friable miscellaneous ACM.

(5) ACBM with potential for damage.

(6) ACBM with potential for significant damage.

(7) Any remaining friable ACBM or friable suspected ACBM.

ASSESSING CONDITION AND FRIABILITY

NATIONAL EMISSIONS FOR HAZARD AIR POLLUTANTS, 40 CFR Part 61, Subpart M, definitions for asbestos:

- Friable (F): ACM that can be crumbled, crushed, or reduced to powder by hand pressure.
- Nonfriable Category 1(NF1): Asbestos containing packing, gaskets, resilient floor coverings, asphalt roofing products, caulks, and mastics. These bituminous materials are assumed to remain nonfriable if demolition is performed using "normal" methods, but will become friable if severely weathered, sanded, or abraded.
- Nonfriable Category 2 (NF2): ACM excluding Category 1 nonfriable ACM, that, when dry and in its present form, cannot be crumbled, pulverized or reduced to powder by hand pressure; however, these materials may become friable during demolition activities. These products include Transite board and asbestos cement products.

The condition of ACM including severity and extent of damage is classified into one of the following categories:

- Significantly Damaged: ACM that is crumbled, blistered, gouged, marred, delaminated, or otherwise damaged either uniformly or locally over a substantial portion of its surface area.
- Damaged: ACM that is crumbled, blistered, gouged, marred, delaminated, or otherwise damaged either uniformly or locally over a small portion of its surface area.
- Good: ACM with very little or no damage.
- Potential for Disturbance: The potential for disturbance of each ACM was evaluated with respect to the types and frequency of occupancy, whether the ACM was accessible to area occupants, including vibration and air erosion.

5.2 ASBESTOS CONTAINING MATERIALS

ADMINISTRATION BUILDING

CONFIRMED ASBESTOS

- Gray linear pipe insulation 14' LF (from RMT survey in 1992)
  - Approximately 14 LF, found in Mechanical Room
  - Good condition, friable
- Gray pipe fitting insulation (from RMT survey in 1992)
  - Approximately 8 fittings, found in Mechanical Room
  - Good condition, friable
- Insulation on water tank (from RMT survey in 1992)
  - Approximately 98 LF, found in Mechanical Room
  - Good condition, friable
- Exterior white caulking (CK; contains less than 1% asbestos)
  - Located around exterior door frames
  - Good condition, non friable, NF1

PRESUMED ASBESTOS

- Roofing Materials
- Fire doors
- Electrical coatings on wires

OMS BUILDING

CONFIRMED ASBESTOS

- None

PRESUMED ASBESTOS

- Roofing Materials
- Fire Doors
- Electrical Wiring

Special note: The exterior white caulking (CK) in the USARC Building contains less than 1% asbestos, according to PLM analysis. At the request of the 88th RSC, we are reporting materials as asbestos containing if any amount of asbestos was found in them.

5.3 NON ASBESTOS CONTAINING MATERIAL

ADMINISTRATION BUILDING

- White 12"x12" vinyl floor tiles (VFT-1) with black mastic
  - Located throughout facility
- 2' x 4' White ceiling tiles (CT-1 and CT-2)
  - Located throughout facility
- Baseboards - 4" brown cove base (BB)
  - Located throughout
- Plaster ceiling board (PCLGB)
  - Located throughout
- Plaster wall board (PWB-1)
  - Located throughout
- Joint Tape and Compound (1992 RMT Report)
  - Located throughout
- Folding curtain room divider (FC)
  - Located between Rooms 131 and 132

OMS BUILDING

- Window glazing (WG)
- Exterior door caulking (CK)
- Plaster ceiling board (PCLGB)
- Vinyl floor tile and associated black mastic (VFT-1)

6.0 POLYCHLORINATED BIPHENYL

PCBs are mixtures of chlorinated biphenyls that are relatively nonflammable and have useful heat exchange and dielectric properties. PCBs were used in the electric industry as dielectric fluid in capacitors and transformers until 1976, when PCBs were banned from use because of their carcinogenic properties. PCBs were also used in the formulation of lubricating oils, pesticides, adhesives, plastics, inks, paints, and sealants. ITI inventoried electrical transformers and light ballasts as part of its scope.
The primary uses of potential PCB materials are associated with transformers (i.e., pad-, pole-, or wall-mounted) or light ballast. ITI recorded available information, such as the manufacturer, serial and model number, condition, date of manufacture, and location of potential PCB-containing equipment.

The principal requirements for PCB management are detailed in the Toxic Substances Control Act (TSCA) federal regulatory program, Title 40; Subchapter R, Part 761, Code of Federal Regulations (CFR). CFR Title 40 Part 761 establishes regulations for the use, storage, removal, disposal, and testing of PCB-containing equipment.

ITI used these management requirements regarding onsite PCB management as guidelines during the Site investigation.

6.1 PCB INVENTORY

ITI personnel observed the following: - Refer to drawing in Appendix B for inspection locations.

ADMINISTRATION BUILDING

- Light Ballasts – Advance R-2540-1-TP ("No PCB's" on label)
- Light Ballasts – Advance R-140-1-TP ("No PCB's" on label)
- Light Ballasts – Sylvania QT2x32/120 IS-SC (Electronic)

OMS BUILDING

- Light Ballasts – Advance R-2540-1-TP ("No PCB's" on label)

TRANSFORMERS

- Concrete slab mounted transformer tagged T2986-150

7.0 LEAD BASED PAINT

During this survey, ITI inspector, Mr. Narciso Martinez performed a walk-through of the subject building on 15 May 2003 for LBP. This was performed in order to identify and delineate locations that would be sampled for lead based paint.

During the Inspection, sampling locations were recorded on working drawings and are identified in Appendix C of this report.

Samples were taken using an X-ray Fluorescence (XRF) Analyzer RMD Model LPA-1 (Serial Number 01908) manufactured by RMD, Inc. of Watertown, MA. An XRF analyzer works by exposing a paint surface to radiation emitted from a sealed source inside the instrument. The source of this radiation is cobalt-57 isotope. This radioactive material spontaneously emits energy in the form of X rays and gamma rays. When these rays are released from an XRF analyzer and hit a painted surface, the elements in the paint matrix - which can include lead – are excited and respond by emitting energy in the form of X rays characteristic of each of the elements. This response is known as Fluorescence.

In 1990 the Department of Housing and Urban Development issued the first comprehensive document addressing lead based paint in hosing. This document, Lead based paint: Interim Guidelines for Hazard Identification and Abatement in Public and Indian Housing established criteria for conducting lead based paint inspections in public and Indian housing.

ThESE Interim Guidelines described how to conduct a lead based paint inspection. State and Federal regulations use the XRF analyzer or laboratory analysis and specify a reading of 1.0 milligrams per square centimeter (XRF) and 0.5 percent by weight (Paint Chips) as the levels that require abatement.

See Appendix C for XRF report.

7.1 LEAD BASED PAINT

Based on ITI's survey for LBP, ITI has concluded that the following building products contain LBP:

ADMINISTRATION BUILDING

- None found

OMS BUILDING

- Floor stripes in Bay Area
  - Concrete substrate, yellow color
  - Poor condition
- Overhead door, casing and jambs in Bay Area
  - Metal substrate, tan color
  - Intact condition

7.2 RESPONSIBLE AGENCIES

Various groups and governmental bodies have responsibilities for conducing, evaluating the quality of, or developing a hazard control strategy based upon lead based paint testing. These groups include, but not limited to the following:

- State, Indian tribe, and local governments;
- The US Department of Housing and Urban Development (HUD);
- The US Environmental Protection Agency (EPA);
- Housing authorities;
- Homeowners and landlords; and
- Lead based paint inspectors, risk assessors, and hazard control contractors.

8.0 RADON

Radon is formed from the radioactive decay of radium, a breakdown product of uranium found in minute quantities in most soils. Because radon is an inert gas, it does not react with soil; soil merely serves as a channel through which the gas moves. Soil composition alone is not a good indicator of potential indoor radon problems because radon levels can vary considerably, by as much as a factor of 20 to 100, in the same geographic area.

The EPA regulates the maximum allowable exposure levels for radon and recommends that action be taken to reduce the levels if radon concentrations in a structure that exceeds 4 picocuries per liter (pCi/l) in air.

The objective of the Army Radon Reduction Program (ARRP) is to identify and modify all building structures owned or leased by the Army that have indoor radon concentrations greater then 4 pCi/l. According to the ARRP, if the radon concentration is 4 pCi/l or less and the measured building is geologically and structurally representative of the installation, no further action is required. ITI has conducted radon surveys at this site on 5 February 2003, which included placement, retrieval, and analysis of alpha track canisters, which detect alpha particles emitted from radon.

Based on ITI's survey, ITI has concluded all radon results are below 4 piCu/l for this location.

9.0 ACTION SUMMARY

ASBESTOS

Based on ITI's survey of the building, ITI has concluded the following materials contain asbestos:

ADMINISTRATION BUILDING

CONFIRMED ASBESTOS

- Gray linear pipe insulation 14' LF (from RMT survey in 1992)
  - Approximately 14 LF, found in Mechanical Room
- Gray pipe fitting insulation (from RMT survey in 1992)
  - Approximately 8 fittings, found in Mechanical Room
- Insulation on water tank (from RMT survey in 1992)
  - Approximately 98 LF, found in Mechanical Room
- Exterior white caulking (CK; contains less than 1% asbestos)
  - Located around exterior door frames

PRESUMED ASBESTOS

- Roofing Materials
- Fire doors
- Electrical coatings on wires

OMS BUILDING

CONFIRMED ASBESTOS

- None

PRESUMED ASBESTOS

- Roofing Materials
- Fire Doors
- Electrical Wiring

Special note: The exterior white caulking (CK) in the USARC Building contains less than 1% asbestos, according to PLM analysis. At the request of the 88th RSC, we are reporting materials as asbestos containing if any amount of asbestos was found in them.

Based on the findings above, ITI recommends the following:

- Observations for detected asbestos were based on visible and accessible materials; therefore, asbestos containing materials may be present in inaccessible areas such as ceiling plenums, crawl spaces, attics, etc.
- An imminent asbestos hazard was not present at the facility during the site visit.

- Develop and Implement and O & M Plan.

Based on the asbestos present in the building, ITI recommends the following:

- Develop and implement an O & M Plan for all known and suspect ACM

There are three primary objectives of the O & M program: (1) clean up existing contamination (2) minimize further fiber release by controlling access to ACM, and (3) maintain ACM until it is eventually removed. Properly prepared and implemented, this plan will document the building owner's prudence in dealing with asbestos in the building.

PCB'S

Based on ITI's survey of the building, ITI has concluded that the following types of transformers are located in the building:

ADMINISTRATION BUILDING

- Light Ballasts – Advance R-2540-1-TP ("No PCB's" on label)
- Light Ballasts – Advance R-140-1-TP ("No PCB's" on label)
- Light Ballasts – Sylvania QT2x32/120 IS-SC (Electronic)

OMS BUILDING

- Light Ballasts – Advance R-2540-1-TP ("No PCB's" on label)

TRANSFORMERS

- Concrete slab mounted transformer tagged T2986-150

Based on the findings above, ITI recommends the following:

- Observations for PCB's were based on visible and accessible materials, therefore, PCB's may be present in other ballasts not observed.
- No imminent PCB hazard was present at the facility during the site visit.
- Any ballast not labeled "Non PCB's" must be handled according to Federal and State regulations for proper disposal.

Based on the labels found on the transformers, ITI recommends the following:

All light ballasts observed had a label stating the absence of PCB's, or contained electronic ballasts. Without this statement, the ballast is presumed to contain PCB's and must be handled accordingly. Additional testing may be required before this ballast is disturbed or disposed. At a minimum, requirements of 40 CFR 761 must be followed should sampling be required.

LEAD BASED PAINTS

Based on ITI's survey for LBP, ITI has concluded that the following building products contain LBP:

ADMINISTRATION BUILDING

- None found

OMS BUILDING

- Floor stripes in Bay Area
  - Concrete substrate, yellow color
  - Poor condition
- Overhead door, casing and jambs in Bay Area
  - Metal substrate, tan color
  - Intact condition

Based on the findings above, ITI recommends the following:

- Observations for LBP's were based on visible and accessible materials, therefore, LBP's may be present in inaccessible areas.
- An imminent LBP hazard may be present at the facility, as noted during the site visit in 2005. The yellow floor stripes in the OMS Building are in poor condition. Any debris should be cleaned up immediately, and any flaking paint removed. Disposal should be in accordance with Federal and State regulations.
- Workers need to take appropriate safeguards when working, i.e., cutting, grinding, sanding, welding, etc., on areas identified with LBP.
- Conduct a TCLP for all areas identified with LBP prior to disposal.

RADON

Based on ITI's survey, ITI has concluded all radon results are below 4 piCu/l for this location.

Based on the findings above, ITI recommends the following:

- An imminent Radon hazard was not present at the facility during the site visit.
- According to the survey data as provided in Appendix D, there were no results over 4 piCu/l for this location.

10.0 WARRANTY

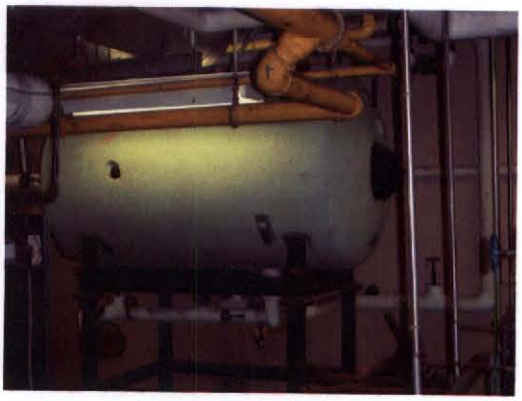
The field and laboratory results reported herein (only if samples are collected and/or analyzed) are considered sufficient in detail and scope to determine the presence of accessible and/or exposed suspect asbestos, PCB's, LBPs or radon gas in the facility. ITI warrants that the findings contained herein have been prepared in general accordance with accepted professional practices at the time of its preparation as applied by similar professionals in the community. Changes in the state of the art or in applicable regulations cannot be anticipated and have not been addressed into this report.

The survey and analytical methods have been used to provide the client with information regarding the presence of accessible and/or exposed suspect asbestos, lead, PCB's or radon in the facility at the time of the inspection. Test results are valid only for material tested. There is a distinct possibility that conditions may exist which could not be identified within the scope of the study or which were not apparent during the site visit. This inspection covered only suspect accessible materials with no destructive survey techniques. The study is also limited to the information available from the client at the time it was conducted.

This report is not intended to be an asbestos, lead based paint, PCB or Radon risk assessment, management plan or project design document and should not be used for the purpose of obtaining quotes.

11.0 SITE PHOTOS

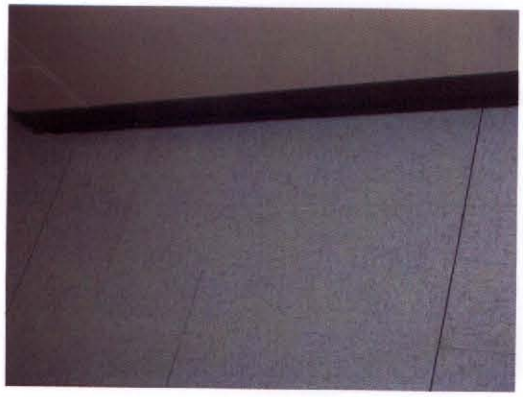
OH-059 Morgan Downs USARC Facility



Insulation on water tank
Contains asbestos

Caulk around door frames (CK)
Contains asbestos (less than 1%)

Pipe insulation
Contains asbestos



Vinyl floor tiles
Non asbestos

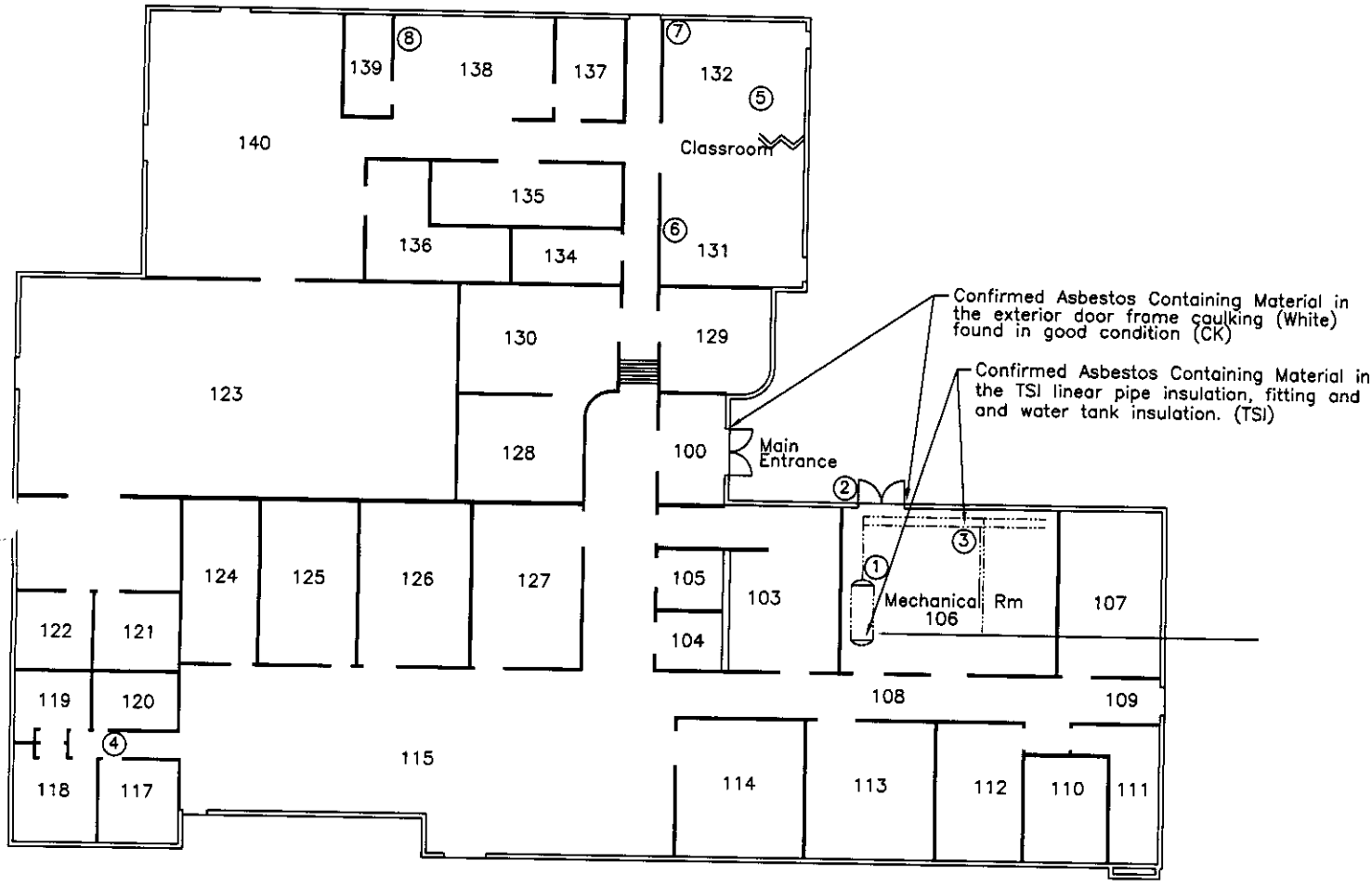
OMS Building

APPENDIX A

OH-059
Asbestos Summary

FAC ID	Building	Confirmed ACM	Location	Condition
OH-059-001	USARC	Gray linear pipe insulation 14' LF (from RMT survey in 1992)	Approximately 14 LF, found in Mechanical Room	Good
		Gray pipe fitting insulation (from RMT survey in 1992)	Approximately 8 fittings, found in Mechanical Room	Good
		Insulation on water tank (from RMT survey in 1992)	Approximately 98 LF, found in Mechanical Room	Good
		Exterior white caulking (CK; contains less than 1% asbestos)	Located around exterior door frames	Good
OH-059-002	OMS	None		

FAC ID	Building	Presumed ACM	Location	Condition
OH-059-001	USARC	Sliding curtain room divider	Located between Rooms 131 and 132	Good
		Roofing Materials	Entire roof	Good
		Fire doors	Located throughout	Good
		Electrical coatings on wires	Located throughout	Good
OH-059-002	OMS	Cloth expansion joint material (from RMT survey in 1992)	Inaccessible	Good
		Roofing Materials	Entire roof	Good
		Fire doors	Located throughout	Good
		Electrical coatings on wires	Located throughout	Good



ADMINISTRATION BUILDING

ITI **2710 Central Ave** **St. Petersburg, Fl** **33712**	**USARC OH059-001** **Downs Facility**	**Confirmed & Sampled Asbestos locations** SCALE: NTS

A. E. S. L.
Environmental
LABORATORY

800 North Mary Street • Tempe, Arizona 85281
(480) 966-7171 • Fax (480) 394-0188

BULK ASBESTOS ANALYSIS SUMMARY REPORT

CLIENT NAME: ITI
2710 Central Avenue
St. Petersburg, FL 33712

A.E.S.L. LAB #: **05-A003**

DATE OF RECEIPT: January 3, 2005
SAMPLE CONDITION: Good
DATE ANALYZED: January 4, 2005

PROJECT: **ADECCO**
OH-059 ADMIN
REPORT TO: **Brian G.**

A.E.S.L. LAB SAMPLE ID #	CLIENT SAMPLE ID #	SAMPLE DESCRIPTION & COLOR	TEST RESULTS Pos. / Neg.	% & Type	OTHER MATERIALS
A003-1	**OH-059-1**	**TSI – White TSI**	**Positive**	**10% Chrysotile**	**7% Cellulose 83% Non-Fibrous**
A003-2	OH-059-2	CK – Red Material	Trace	<1% Chrysotile	99% Non-Fibrous
A003-3	**OH-059-3**	**TSI-1 – White TSI**	**Positive**	**7% Amosite**	**3% Cellulose 90% Non-Fibrous**
A003-4 a	OH-059-4 a	VFT-1 – White Tile	Negative	---------	100% Non-Fibrous
A003-4 b	OH-059-4 b	Black Mastic	Negative	---------	1% Cellulose 99% Non-Fibrous
A003-5 a	OH-059-5 a	FC – White Material	Negative	---------	20% Cellulose 80% Non-Fibrous
A003-5 b	OH-059-5 b	Black Material	Negative	---------	40% Cellulose 60% Non-Fibrous
A003-6 a	OH-059-6 a	BB – Brown Cove	Negative	---------	100% Non-Fibrous
A003-6 b	OH-059-6 b	Brown Mastic	Negative	---------	100% Non-Fibrous
A003-7 a	OH-059-7 a	VFT-1-1 – White Tile	Negative	---------	100% Non-Fibrous
A003-7 b	OH-059-7 b	Black Mastic	Negative	---------	4% Cellulose 96 %Non-Fibrous
A003-8	OH-059-8	PCLGB – White Plaster	Negative	---------	100% Non-Fibrous

Method: Polarized Light Microscopy, EPA Method 600/R-93/116

The result quantitations reported are an estimation based on the methods of visual microscopic estimation, which is considered only a semi-quantitative technique. Also, this report is indicative only of the sample material A.E.S.L. Laboratory received. Results do not necessarily reflect the makeup of the entire span of the material from which the samples were derived. Sampling techniques and/or sample handling may affect the integrity of the sample/s before submission to A.E.S.L. Laboratory and hence the outcome of the laboratory results. Samples not destroyed by testing are retained a minimum of thirty days.

A.E.S.L. Laboratory, recommends re-analysis by point count or Transmission Electron Microscopy (TEM) for materials that are found to contain less than ten percent (<10%) asbestos by PLM.

Analyst: Shawn Kearney

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Turnaround Time: ☒ RUSH ☐ Same Day ☐ 24 Hour ☐ 48 Hour

☒ Stop @ First Positive
☐ Read All Samples

BULK ASBESTOS SAMPLE

CHAIN OF CUSTODY

A.E.S.L. LABORATORY # : 05-A003

Page 1 of 1

Client Name: ITI of South Florida, Inc. Contact: Brian G. Phone: (727) 586-7500 Fax: (727) 581-0764

Address: 2710 Central Avenue City: St. Petersburg State: Florida Zip: 33712

PROJECT: ADECCO PROJECT ID: OH-059 Admin DATE SAMPLES TAKEN: 12-16-04

SAMPLES REC'D (#): 8 DATE REC'D: _____ CONDITION: _____ SAMPLES ACCEPTED (Y , N): _____ IF NO, WHY? _____

*** SAMPLES TO BE RETURNED TO CLIENT AFTER 30 DAYS OR DISPOSED OF BY A.E.S.L. (D R): _____ ***
(IF NOT SPECIFIED WILL AUTOMATICALLY BE DISPOSED OF AFTER 30 DAYS)

A.E.S.L. Sample #	Client ID #	Sample Location	Sample Description	A.E.S.L. Sample #	Client ID #	Sample Location	Sample Description
1	OH-059-1		TSI				
2	OH-059-2		CK				
3	OH-059-3		TSI-1				
4	OH-059-4		VFT-1 w/Black MASTIC				
			[redacted]				
5	OH-059-5		FC				
6	OH-059-6		BB w/Brown Mastic				
7	OH-059-7		VFT-1-1 w/Black Mastic				
8	OH-059-8		Pclgb white Clg				

A.E.S.L. Environmental Laboratory
800 North Mary Street
Tempe, Arizona 85281

RELINQUISHED BY: Brian Gatin Time: NOON DATE: 12-22-04

RECEIVED BY: _____ Time: _____ DATE: _____

A. E. S. L.
Environmental LABORATORY
800 North Mary Street • Tempe, Arizona 85281
(480) 966-7171 • Fax (480) 394-0188

BULK ASBESTOS ANALYSIS SUMMARY REPORT

CLIENT NAME: ITI
514 1st Ave. SW
Largo, FL 33770

DATE OF RECEIPT: August 1, 2003
SAMPLE CONDITION: Good
DATE ANALYZED: August 1, 2003

A.E.S.L. LABORATORY #: 03-A733

PROJECT: B03070H059002

A.E.S.L. LAB SAMPLE ID #	CLIENT SAMPLE ID #	SAMPLE DESCRIPTION & COLOR	TEST RESULTS Pos. / Neg.	TEST RESULTS % & Type	OTHER MATERIALS
A733-1	002*1	PWB-1 – White & Brown Panel	Negative	---	10% Cellulose 30% Fibrous Glass 60% Non-Fibrous
A733-2	002*2	PWB-1 – White & Brown Panel	Negative	---	20% Cellulose 20% Fibrous Glass 60% Non-Fibrous
A733-3	002*3	PWB-1 – White & Brown Panel	Negative	---	25% Cellulose 15% Fibrous Glass 60% Non-Fibrous
A733-4 a	002*4 a	CT-1 – White Coating	Negative	---	100% Non-Fibrous
A733-4 b	002*4 b	CT-1 – Brown Tile	Negative	---	40% Cellulose 30% Mineral Wool 30% Non-Fibrous
A733-5 a	002*5 a	CT-1 – White Coating	Negative	---	100% Non-Fibrous
A733-5 b	002*5 b	CT-1 – Brown Tile	Negative	---	40% Cellulose 20% Mineral Wool 40% Non-Fibrous
A733-6 a	002*6 a	CT-1 – White Coating	Negative	---	100% Non-Fibrous
A733-6 b	002*6 b	CT-1 – Brown Tile	Negative	---	40% Cellulose 20% Mineral Wool 40% Non-Fibrous
A733-7 a	002*7 a	CT-2 – White Coating	Negative	---	100% Non-Fibrous
A733-7 b	002*7 b	CT-2 – Brown Tile	Negative	---	40% Cellulose 30% Mineral Wool 30% Non-Fibrous
A733-8 a	002*8 a	CT-2 – White Coating	Negative	---	100% Non-Fibrous
A733-8 b	002*8 b	CT-2 – Brown Tile	Negative	---	40% Cellulose 40% Mineral Wool 20% Non-Fibrous
A733-9 a	002*9 a	CT-2 – White Coating	Negative	---	100% Non-Fibrous
A733-9 b	002*9 b	CT-2 – Brown Tile	Negative	---	40% Cellulose 20% Mineral Wool 40% Non-Fibrous

Legend: NAAPCR - Not analyzed as per customer request

Method: Polarized Light Microscopy, EPA Method 600/R-93/116

The result quantitations reported are an estimation based on the methods of visual microscopic estimation which is considered only a semi-quantitative technique. Also, this report is indicative only of the sample material A.E.S.L. Laboratory received. Results do not necessarily reflect the makeup of the entire span of the material from which the samples were derived. Sampling techniques and/or sample handling may affect the integrity of the sample/s before submission to A.E.S.L. Laboratory and hence the outcome of the laboratory results. Samples not destroyed by testing are retained a minimum of thirty days.

A.E.S.L. Laboratory, recommends re-analysis by point count or Transmission Electron Microscopy (TEM) for materials that are found to contain less than ten percent (<10%) asbestos by PLM.

This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

Analyst: Shawn Kearney

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1H059002

03-A733

Turnaround Time: ☐ RUSH ☐ Same Day ☐ 24 Hour ☐ 48 Hour -

☑ Stop @ First Positive
☐ Read All Samples

Group B0307 0H059002#

BULK ASBESTOS SAMPLE
CHAIN OF CUSTODY

A.E.S.L. LABORATORY # : 03-A733

Page ___ of ___

Client Name: ITI Contact: Girl BAKshi Phone: (727) 586-7500 Fax: _____

Address: 514 1St Ave SW City: LARGO State: FL. Zip: 33770

PROJECT NAME: USARC PROJECT ID: _____

Samples Collected By: Narciso Martinez DATE SAMPLES TAKEN: _____

SAMPLES REC'D (#): 9 DATE REC'D: 8-1-03 CONDITION: Good SAMPLES ACCEPTED (Y) N): _____ IF NO, WHY? _____

*** SAMPLES TO BE RETURNED TO CLIENT AFTER 30 DAYS OR DISPOSED OF BY A.E.S.L. (C D R): _____ ***
(IF NOT SPECIFIED WILL AUTOMATICALLY BE DISPOSED OF AFTER 30 DAYS)

A.E.S.L. Sample #	Client ID #	Sample Location	Sample Description	A.E.S.L. Sample #	Client ID #	Sample Location	Sample Description
1	00241		PWB-1	9	00249		CT-2
2	00242		PWB-1				
3	00243		PWB-1				
4	00244		CT-1				
5	00245		CT-1				
6	00246		CT-1				
7	00247		CT-2				
8	00248		CT-2				

A.E.S.L. ENVIRONMENTAL LABORATORY
1707 East Weber Drive, Suite 5
TEMPE, ARIZONA 85281
PHONE (480) 966-3714 FAX (480) 394-0188

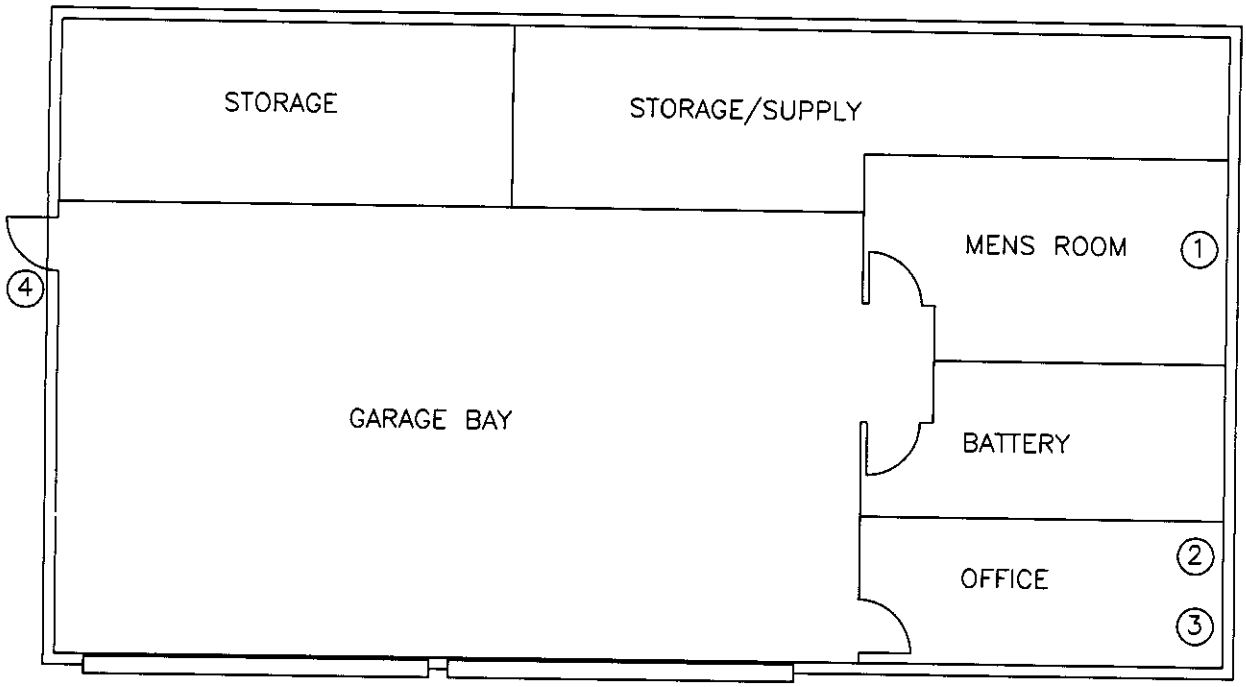
RELINQUISHED BY: Narciso Martinez Time: _____ DATE: _____

RECEIVED AT A.E.S.L. BY: [illegible] Time: 9:00AM DATE: 8-1-03

PAGE 01/01

NOTE :

NO CONFIRMED ASBESTOS CONTAINING MATERIAL WAS FOUND



○ taken on : 12-16-2004

.TI **2710 Central Ave** **St. Petersburg, Fl** **33712**	**USARC OH 059-004** **Morgan Downs** **Motorpool**	**SAMPLED ASBESTOS LOCATIONS** **SCALE: NTS**

A. E. S. L.
Environmental
LABORATORY

800 North Mary Street • Tempe, Arizona 85281
(480) 966-7171 • Fax (480) 394-0188

BULK ASBESTOS ANALYSIS SUMMARY REPORT

CLIENT NAME: ITI
2710 Central Avenue
St. Petersburg, FL 33712

A.E.S.L. LAB #: **05-A004**

DATE OF RECEIPT: January 3, 2005
SAMPLE CONDITION: Good
DATE ANALYZED: January 4, 2005

PROJECT: **ADECCO**
OH-059-002 OMS
REPORT TO: **Brian G.**

A.E.S.L. LAB SAMPLE ID #	CLIENT SAMPLE ID #	SAMPLE DESCRIPTION & COLOR	TEST RESULTS Pos. / Neg.	% & Type	OTHER MATERIALS
A004-1	OH-059-002-1	PCLGB – White Plaster	Negative	---------	1% Cellulose 99% Non-Fibrous
A004-2 a	OH-059-002-2a	VFT-1-2 – White Tile	Negative	---------	100% Non-Fibrous
A004-2 b	OH-059-002-2 b	Black Mastic	Negative	---------	100% Non-Fibrous
A004-3	OH-059-002-3	CT – White/Gray Ceiling Tile	Negative	---------	30% Cellulose 30% Mineral Wool 40% Non-Fibrous
A004-4	OH-059-002-4	CK – White Caulk	Negative	---------	100% Non-Fibrous

Method: Polarized Light Microscopy, EPA Method 600/R-93/116

The result quantitations reported are an estimation based on the methods of visual microscopic estimation, which is considered only a semi-quantitative technique. Also, this report is indicative only of the sample material A.E.S.L. Laboratory received. Results do not necessarily reflect the makeup of the entire span of the material from which the samples were derived. Sampling techniques and/or sample handling may affect the integrity of the sample/s before submission to A.E.S.L. Laboratory and hence the outcome of the laboratory results. Samples not destroyed by testing are retained a minimum of thirty days.

A.E.S.L. Laboratory, recommends re-analysis by point count or Transmission Electron Microscopy (TEM) for materials that are found to contain less than ten percent (<10%) asbestos by PLM.

Analyst: Shawn Kearney

C:\DATA\AESL\BULK\05-A000/05-A004.doc

Turnaround Time: ☒ RUSH ☐ Same Day ☐ 24 Hour ☐ 48 Hour

☒ Stop @ First Positive
☐ Read All Samples

BULK ASBESTOS SAMPLE

CHAIN OF CUSTODY

A.E.S.L. LABORATORY # : 05-A004

Page 1 of 1

Client Name: ITI of South Florida, Inc. Contact: Brian G. Phone: (727) 586-7500 Fax: (727) 581-0764

Address: 2710 Central Avenue City: St. Petersburg State: Florida Zip: 33712

PROJECT: ADECCO PROJECT ID: OH-059-002 OMS DATE SAMPLES TAKEN: 12-16-04

SAMPLES REC'D (#): 4 DATE REC'D: _____ CONDITION: _____ SAMPLES ACCEPTED (Y , N): _____ IF NO, WHY? _____

*** SAMPLES TO BE RETURNED TO CLIENT AFTER 30 DAYS OR DISPOSED OF BY A.E.S.L. (D R): _____ ***
(If NOT SPECIFIED WILL AUTOMATICALLY BE DISPOSED OF AFTER 30 DAYS)

A.E.S.L. Sample #	Client ID #	Sample Location	Sample Description	A.E.S.L. Sample #	Client ID #	Sample Location	Sample Description
1	OH-059-002-1		PclgB ceiling ~~white~~				
2	OH-059-002-2		VFT-1-2				
3	OH-059-002-3		CT ceiling Tile				
4	OH-059-002-4		CK Caulking				

A.E.S.L. Environmental Laboratory
800 North Mary Street
Tempe, Arizona 85281

RELINQUISHED BY: Brian Gilmore Time: NOON DATE: 12-22-04

RECEIVED BY: [signature] Time: DATE: 1/03/05

A. E. S. L.
Environmental LABORATORY
800 North Mary Street • Tempe, Arizona 85281
(480) 966-7171 • Fax (480) 394-0188

BULK ASBESTOS ANALYSIS SUMMARY REPORT

CLIENT NAME: ITI
514 1st Ave. SW
Largo, FL 33770

DATE OF RECEIPT: August 1, 2003
SAMPLE CONDITION: Good
DATE ANALYZED: August 1, 2003

A.E.S.L. LABORATORY #: 03-A735

PROJECT: USARC
B03070H059005*

A.E.S.L. LAB SAMPLE ID #	CLIENT SAMPLE ID #	SAMPLE DESCRIPTION & COLOR	TEST RESULTS Pos. / Neg.	TEST RESULTS % & Type	OTHER MATERIALS
A735-1 a	005*1 a	CT-1 – White Coating	Negative	---------	100% Non-Fibrous
A735-1 b	005*1 b	CT-1 – Brown Tile	Negative	---------	40% Cellulose 60% Non-Fibrous
A735-2 a	005*2 a	CT-1 – White Coating	Negative	---------	100% Non-Fibrous
A735-2 b	005*2 b	CT-1 – Brown Tile	Negative	---------	40% Cellulose 60% Non-Fibrous
A735-3 a	005*3 a	CT-1 – White Coating	Negative	---------	100% Non-Fibrous
A735-3 b	005*3 b	CT-1 – Brown Tile	Negative	---------	40% Cellulose 60% Non-Fibrous

Legend: NAAPCR - Not analyzed as per customer request

Method: Polarized Light Microscopy, EPA Method 600/R-93/116

The result quantitations reported are an estimation based on the methods of visual microscopic estimation which is considered only a semi-quantitative technique. Also, this report is indicative only of the sample material A.E.S.L. Laboratory received. Results do not necessarily reflect the makeup of the entire span of the material from which the samples were derived. Sampling techniques and/or sample handling may affect the integrity of the sample/s before submission to A.E.S.L. Laboratory and hence the outcome of the laboratory results. Samples not destroyed by testing are retained a minimum of thirty days.

A.E.S.L. Laboratory, recommends re-analysis by point count or Transmission Electron Microscopy (TEM) for materials that are found to contain less than ten percent (<10%) asbestos by PLM.

This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

Analyst: Shawn Kearney

C:\DATA\AESL\BULK\03-a000/03-A589.DOC

C1059005

03-A735

Turnaround Time: ☐ RUSH ☐ Same Day ☐ 24 Hour ☐ 48 Hour -

☐ Stop @ First Positive
☐ Read All Samples

Group: B030701H059005A

BULK ASBESTOS SAMPLE
CHAIN OF CUSTODY

A.E.S.L. LABORATORY # : 03-A735

Page ___ of ___

Client Name: ITI Contact: Gil BAKSHI Phone: (727) 586-7500 Fax: _____

Address: 514 1st Ave SW City: LARGO State: FL. Zip: 33770

PROJECT NAME: USARC PROJECT ID: _____

Samples Collected By: Narciso Martinez DATE SAMPLES TAKEN: _____

SAMPLES REC'D (#): 3 DATE REC'D: 8-1-03 CONDITION: good SAMPLES ACCEPTED (Y, N): _____ IF NO, WHY? _____

*** SAMPLES TO BE RETURNED TO CLIENT AFTER 30 DAYS OR DISPOSED OF BY A.E.S.L. (D R): _____ ***
(IF NOT SPECIFIED WILL AUTOMATICALLY BE DISPOSED OF AFTER 30 DAYS)

A.E.S.L. Sample #	Client ID #	Sample Location	Sample Description	A.E.S.L. Sample #	Client ID #	Sample Location	Sample Description
1	005#1		CT-1				
2	005#2		CT-1				
3	005#3		CT-1				

A.E.S.L. ENVIRONMENTAL LABORATORY
1707 East Weber Drive, Suite 6
TEMPE, ARIZONA 85281
PHONE (480) 966-3714 FAX (480) 394-0188

RELINQUISHED BY: Narciso M. Martinez Time: _____ DATE: _____

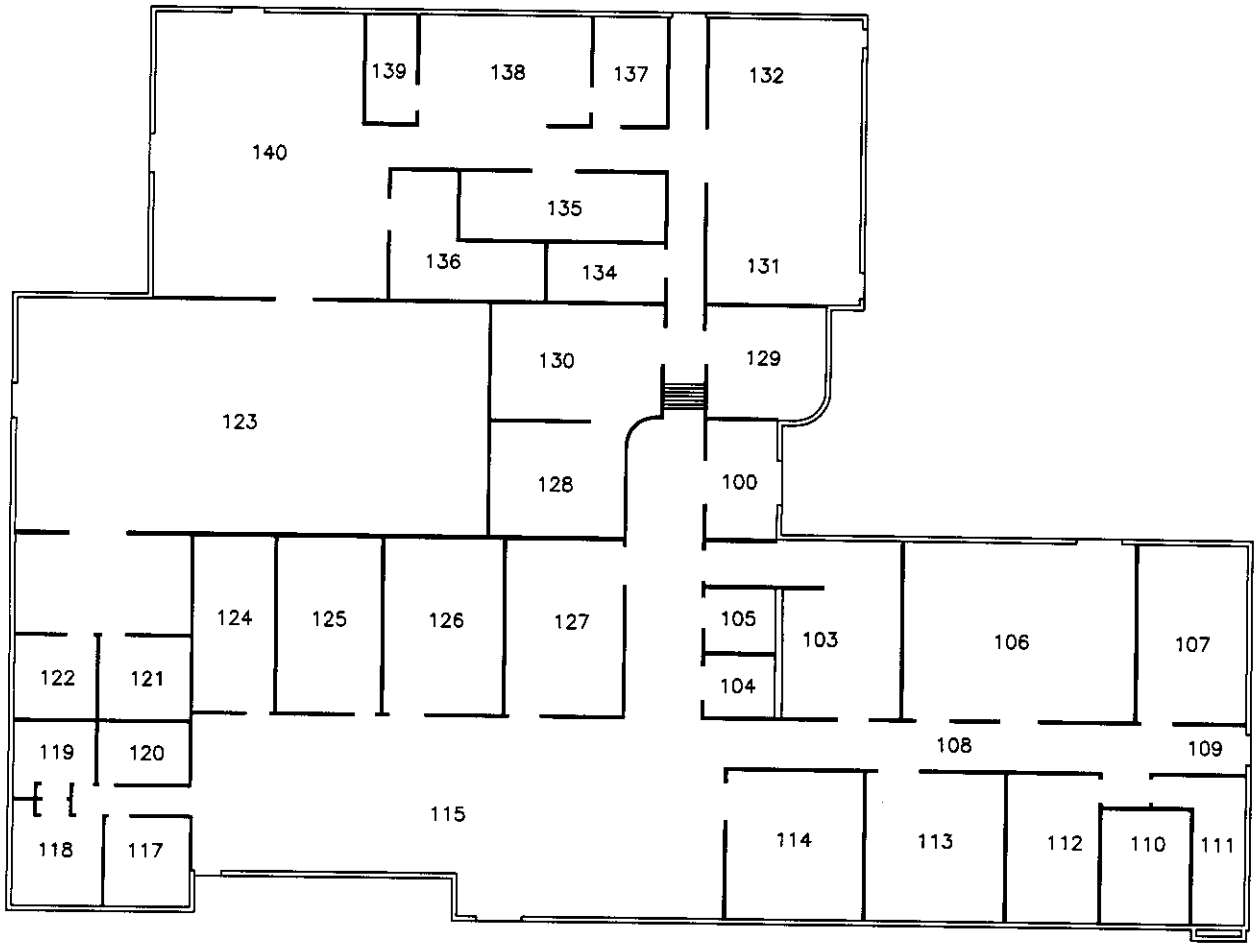
RECEIVED AT A.E.S.L. BY: M. Lee Time: 9:00AM DATE: 8-1-03

APPENDIX B

OH 059-001 USARC

Administration & Training Facility

Room number/name	Ballast #/Manufacturer	Label Stating No PCB's
Transport 111	Advance R-140-TP	Yes
Transport 110	Advance R-140-TP	Yes
Transport 112	Advance R-2540-1-TP	Yes
Truckmaster 107	Syvania QT 2x32/120 IS-SC (Electronic)	NA
Boiler room 106	Advance R-2540-1-TP	Yes
Administration 113	Advance R-140-TP	Yes
Office 114	Syvania QT 2x32/120 IS-SC (Electronic)	NA
Personnel 126	Advance R-2540-1-TP	Yes
Drill Hall 1	Advance R-2540-1-TP	Yes
Training 125	Advance R-2540-1-TP	Yes
Drill Hall 2	Syvania QT 2x32/120 IS-SC (Electronic)	NA
Orderly 124	Syvania QT 2x32/120 IS-SC (Electronic)	NA
Phone room 120	Advance R-2540-1-TP	Yes
Mens room	Advance R-2540-1-TP	Yes
Ladies room	Advance R-2540-1-TP	Yes
Retention	Advance R-140-TP	Yes
Kitchen 140 A	Advance R-2540-1-TP	Yes
Classroom 131	Advance R-2540-1-TP	Yes
Hallway 140	Advance R-2540-1-TP	Yes
Classroom 132	Advance R-2540-1-TP	Yes



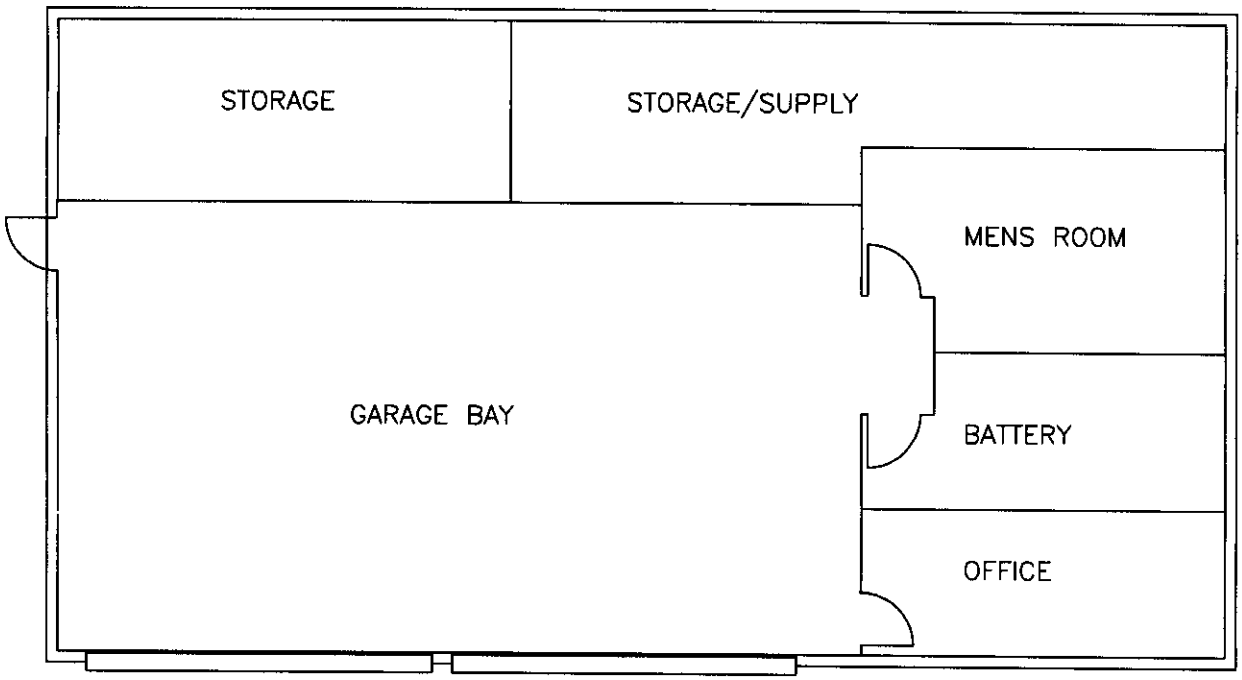
ADMINISTRATION BUILDING

.ΓI 2710 Central Ave St. Petersburg, Fl 33712	**USARC OH059-001** **Downs Facility**	**Floor Plan** SCALE: NTS

OH 059-002

OMS Building

Room number/name	Ballast #/Manufacturer	Label Stating No PCB's
Mechanical room	Advance R-2540-1-TP	Yes
Battery room	Advance R-2540-1-TP	Yes
2 Bay area	Advance R-2540-1-TP	Yes
Latrine	Advance R-2540-1-TP	Yes
Office	Advance R-2540-1-TP	Yes



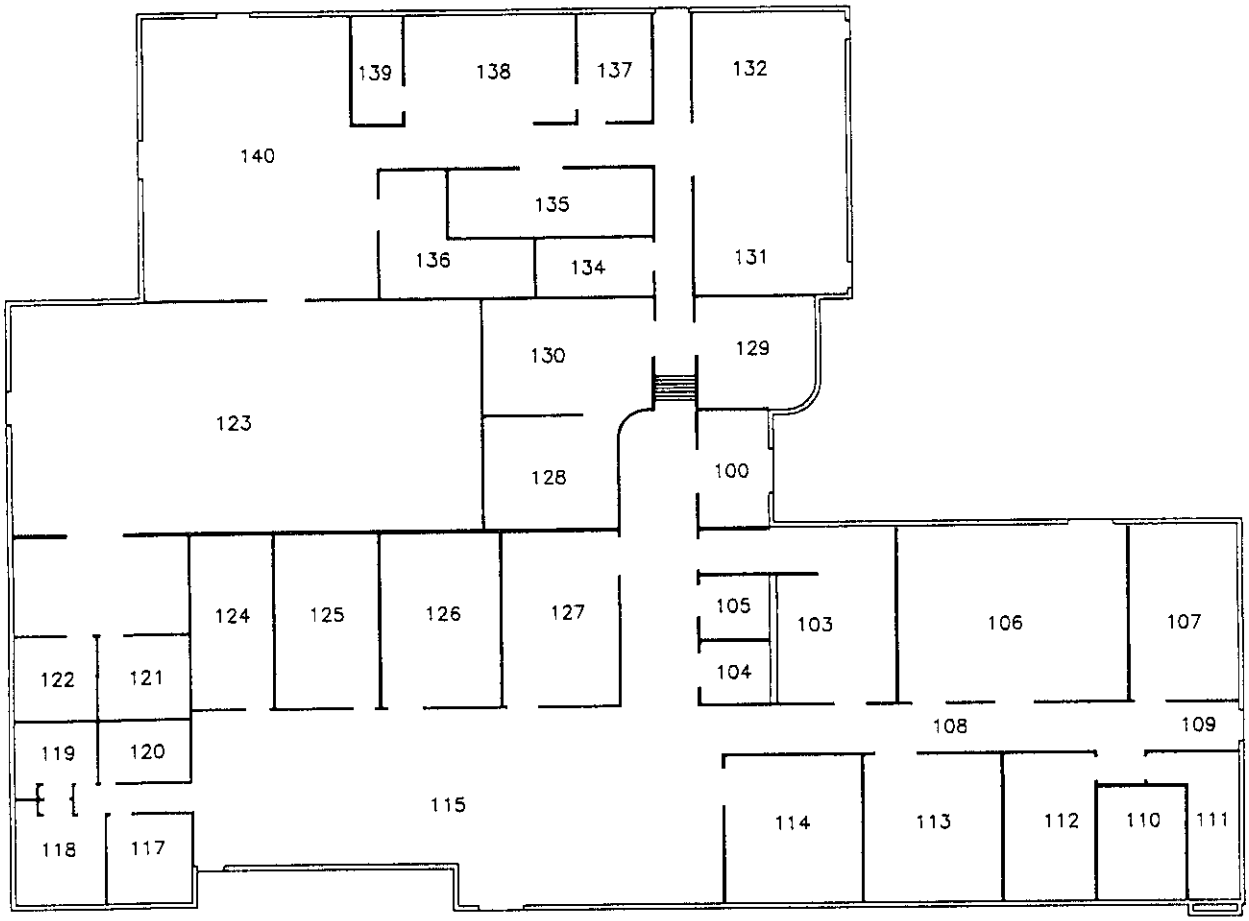
rfI 2710 Central Ave St. Petersburg, Fl 33712	**USARC OH 059-004** **Morgan Downs** **Motorpool**	**Floor Plan** SCALE: NTS

APPENDIX C

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: SFC Morgan L. Downs USARC

Inspection Date:	05/15/03	OH-059-001; Building SP002
Report Date:	6/6/2005	Springfield, OH
Abatement Level:	1.0	
Report No.	S#01908 - 05/15/03 07:43	
Total Readings:	91 Actionable: 0	
Job Started:	05/15/03 07:43	
Job Finished:	05/15/03 08:17	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Calibration Readings									
---- End of Readings ----									



ADMINISTRATION BUILDING

ITI 2710 Central Ave St. Petersburg, Fl 33712	**USARC OH059-001** **Downs Facility**	**Floor Plan** SCALE: NTS

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: SFC Morgan L. Downs USARC

Inspection Date: 05/15/03
Report Date: 6/6/2005
Abatement Level: 1.0
Report No. S#01908 - 05/15/03 07:43
Total Readings: 91
Job Started: 05/15/03 07:43
Job Finished: 05/15/03 08:17

OH-059-001; Building SP002
Springfield, OH

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Interior Room 107 Number Only									
023	A	Wall	L Ctr		I	N/A	N/A	-0.2	QM
028	A	Door	Lft	Rgt jamb	I	N/A	N/A	0.1	QM
027	A	Door	Lft	U Ctr	I	N/A	N/A	0.0	QM
024	B	Wall	L Ctr		I	N/A	N/A	-0.2	QM
025	C	Wall	L Ctr		I	N/A	N/A	-0.4	QM
026	D	Wall	L Ctr		I	N/A	N/A	0.0	QM
Interior Room 111 Number Only									
017	A	Wall	L Ctr		I	N/A	N/A	-0.1	QM
022	A	Door	Lft	Rgt jamb	I	N/A	N/A	-0.1	QM
021	A	Door	Lft	U Ctr	I	N/A	N/A	-0.1	QM
018	B	Wall	L Ctr		I	N/A	N/A	-0.3	QM
019	C	Wall	L Ctr		I	N/A	N/A	-0.2	QM
020	D	Wall	L Ctr		I	N/A	N/A	-0.3	QM
Interior Room 112 Number Only									
011	A	Wall	L Ctr		I	N/A	N/A	-0.2	QM
016	A	Door	Rgt	Rgt jamb	I	N/A	N/A	-0.2	QM
015	A	Door	Rgt	U Ctr	I	N/A	N/A	0.0	QM
012	B	Wall	L Ctr		I	N/A	N/A	0.1	QM
013	C	Wall	L Ctr		I	N/A	N/A	0.0	QM
014	D	Wall	L Ctr		I	N/A	N/A	0.1	QM
Interior Room 114 Number Only									
004	A	Wall	L Ctr		I	N/A	N/A	-0.2	QM
010	A	Door	Lft	Rgt jamb	I	N/A	N/A	-0.2	QM
009	A	Door	Lft	U Ctr	I	N/A	N/A	-0.2	QM
005	B	Wall	L Ctr		I	N/A	N/A	-0.3	QM
006	C	Wall	L Ctr		I	N/A	N/A	-0.3	QM
008	C	Window	Ctr	Rgt jamb	I	N/A	N/A	0.0	QM
007	D	Wall	L Ctr		I	N/A	N/A	-0.1	QM
Interior Room 117 Number Only									
041	A	Wall	L Ctr		I	N/A	N/A	0.0	QM
046	A	Door	Ctr	Rgt jamb	I	N/A	N/A	-0.1	QM
045	A	Door	Ctr	U Ctr	I	N/A	N/A	-0.1	QM
042	B	Wall	L Ctr		I	N/A	N/A	-0.1	QM
043	C	Wall	L Ctr		I	N/A	N/A	0.0	QM
044	D	Wall	L Ctr		I	N/A	N/A	0.0	QM
Interior Room 119 Number Only									
047	A	Wall	L Ctr		I	N/A	N/A	-0.2	QM
052	A	Door	Rgt	Rgt jamb	I	N/A	N/A	0.0	QM
051	A	Door	Rgt	U Ctr	I	N/A	N/A	-0.1	QM
048	B	Wall	L Ctr		I	N/A	N/A	-0.1	QM
049	C	Wall	L Ctr		I	N/A	N/A	0.0	QM
050	D	Wall	L Ctr		I	N/A	N/A	-0.1	QM
Interior Room 125 Number Only									

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: SFC Morgan L. Downs USARC

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
035	A	Wall	L Ctr		I	N/A	N/A	-0.4	QM
040	A	Door	Rgt	Rgt jamb	I	N/A	N/A	0.0	QM
039	A	Door	Rgt	U Ctr	I	N/A	N/A	-0.1	QM
036	B	Wall	L Ctr		I	N/A	N/A	0.0	QM
037	C	Wall	L Ctr		I	N/A	N/A	-0.2	QM
038	D	Wall	L Ctr		I	N/A	N/A	-0.1	QM
Interior Room 126 Number Only									
029	A	Wall	L Ctr		I	N/A	N/A	0.0	QM
034	A	Door	Lft	Rgt jamb	I	N/A	N/A	0.2	QM
033	A	Door	Lft	U Ctr	I	N/A	N/A	-0.1	QM
030	B	Wall	L Ctr		I	N/A	N/A	-0.1	QM
031	C	Wall	L Ctr		I	N/A	N/A	-0.2	QM
032	D	Wall	L Ctr		I	N/A	N/A	-0.1	QM
Interior Room 130 Number Only									
059	A	Wall	L Ctr		I	N/A	N/A	-0.2	QM
064	A	Door	Rgt	Rgt jamb	I	N/A	N/A	0.3	QM
063	A	Door	Rgt	U Ctr	I	N/A	N/A	0.0	QM
060	B	Wall	L Ctr		I	N/A	N/A	-0.1	QM
061	C	Wall	L Ctr		I	N/A	N/A	0.0	QM
062	D	Wall	L Ctr		I	N/A	N/A	-0.1	QM
Interior Room 131 Number Only									
065	A	Wall	L Ctr		I	N/A	N/A	-0.1	QM
070	A	Door	Rgt	Rgt jamb	I	N/A	N/A	0.2	QM
069	A	Door	Rgt	U Ctr	I	N/A	N/A	-0.2	QM
066	B	Wall	L Ctr		I	N/A	N/A	-0.4	QM
067	C	Wall	L Ctr		I	N/A	N/A	-0.3	QM
068	D	Wall	L Ctr		I	N/A	N/A	-0.1	QM
Interior Room 901 Retention									
053	A	Wall	L Ctr		I	N/A	N/A	-0.1	QM
058	A	Door	Lft	Rgt jamb	I	N/A	N/A	0.3	QM
057	A	Door	Lft	U Ctr	I	N/A	N/A	-0.1	QM
054	B	Wall	L Ctr		I	N/A	N/A	-0.1	QM
055	C	Wall	L Ctr		I	N/A	N/A	-0.1	QM
056	D	Wall	L Ctr		I	N/A	N/A	0.2	QM
Interior Room 902 Drill Hall									
071	A	Wall	L Ctr		I	N/A	N/A	-0.4	QM
076	A	Door	Ctr	Rgt jamb	I	N/A	N/A	0.3	QM
075	A	Door	Ctr	U Ctr	I	N/A	N/A	-0.1	QM
072	B	Wall	L Ctr		I	N/A	N/A	-0.2	QM
073	C	Wall	L Ctr		I	N/A	N/A	-0.1	QM
074	D	Wall	L Ctr		I	N/A	N/A	-0.2	QM
Interior Room 903 Admin. Ofc.									
077	A	Wall	L Ctr		I	N/A	N/A	-0.1	QM
082	A	Door	Rgt	Rgt jamb	I	N/A	N/A	0.1	QM
081	A	Door	Rgt	U Ctr	I	N/A	N/A	-0.1	QM
078	B	Wall	L Ctr		I	N/A	N/A	-0.1	QM
079	C	Wall	L Ctr		I	N/A	N/A	-0.1	QM
080	D	Wall	L Ctr		I	N/A	N/A	0.0	QM
Interior Room 904 Mens Room									
083	A	Wall	L Ctr		I	N/A	N/A	-0.2	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: SFC Morgan L. Downs USARC

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
089	A	Floor			I	N/A	N/A	-0.1	QM
088	A	Ceiling			I	N/A	N/A	-0.1	QM
091	A	Door	Ctr	Rgt jamb	I	N/A	N/A	0.0	QM
090	A	Door	Ctr	U Ctr	I	N/A	N/A	-0.1	QM
084	B	Wall	L Ctr		I	N/A	N/A	-0.1	QM
085	C	Wall	L Ctr		I	N/A	N/A	-0.3	QM
087	C	Ceiling			I	N/A	N/A	0.0	QM
086	D	Wall	L Ctr		I	N/A	N/A	0.0	QM
Calibration Readings									
001								1.0	TC
002								0.9	TC
003								0.9	TC

---- End of Readings ----

Facility number	OH059
Location (city and state)	Springfeild Ohio
Building description	1 Level TAN BUILDING
JBN file number	5-1503-0743 UNIT 8

Reading #	Value	Room #	Substrate	Color	Condition	Notes

NO pos. Readings

SFC MORGAN DOWNS USARC.

file # 51503-0743

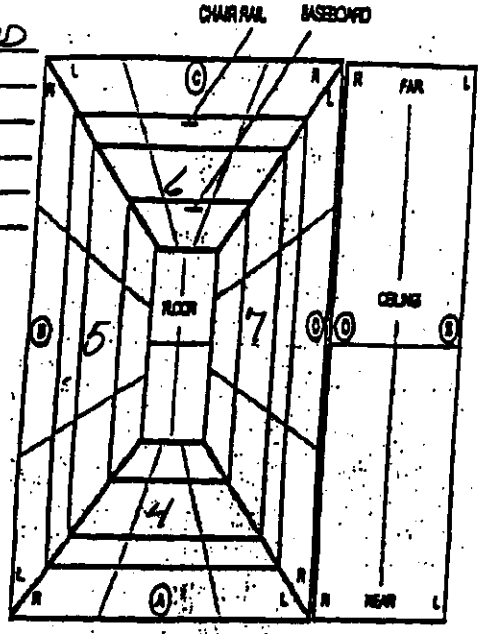
ADDRESS Springfield Ohio

JOB # 01059

CAL CK 1, 2, 3

UNIT # 8

ROOM # 114



READINGS ON UNSOUND PAINT ARE CIRCLED

WALL A B C D

LEFT ∅

RIGHT ○

AIR ○

WALL A B C D

LEFT ○

RIGHT ○

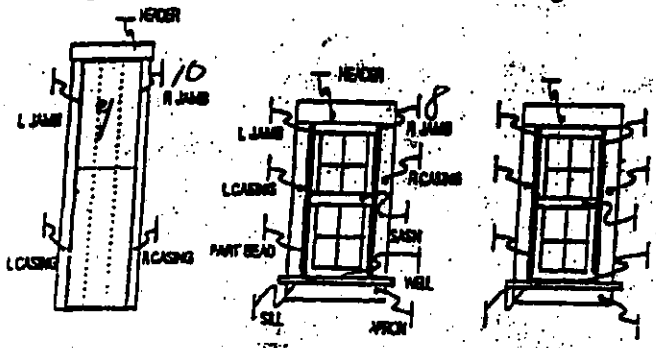
CENTER ○

WALL A B C D

LEFT ○

RIGHT ○

CENTER ○



	Finish	Substrate
Walls	TAN	CONCRETE BLK
Windows	BROWN	METAL
Window Components	BROWN	METAL
Doors	TAN	METAL
Door Components	TAN	METAL
Ceiling	WHITE	DROP
Floors	—	—

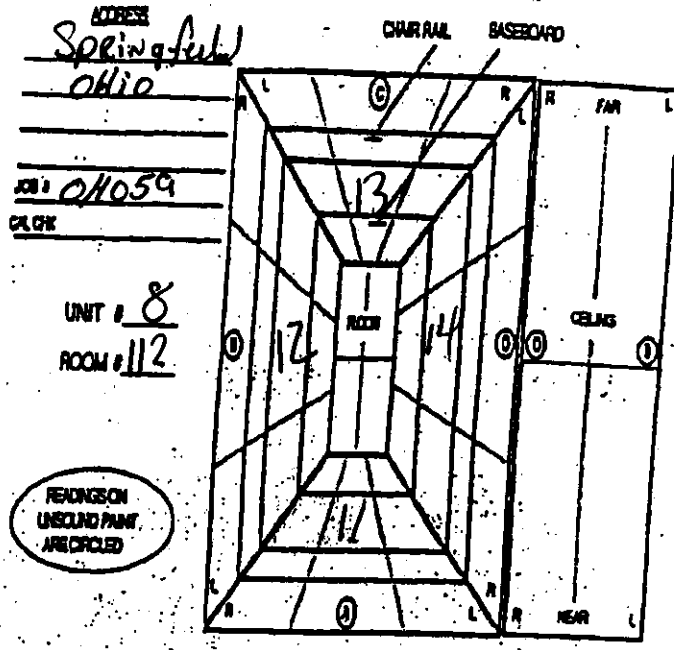
ADDRESS Springfield Ohio

JOB # 01059

CAL CK

UNIT # 8

ROOM # 112



READINGS ON UNSOUND PAINT ARE CIRCLED

WALL A B C D

LEFT ○

RIGHT ∅

CENTER ○

WALL A B C D

LEFT ○

RIGHT ○

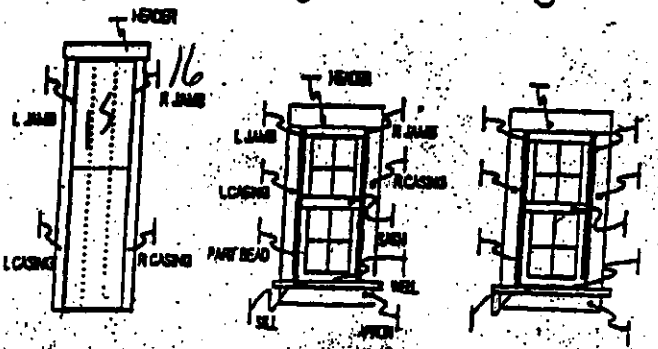
CENTER ○

WALL A B C D

LEFT ○

RIGHT ○

CENTER ○



	Finish	Substrate
Walls	TAN	CONCRETE BLK
Windows	BROWN	METAL
Window Components	BROWN	METAL
Doors	TAN	METAL
Door Components	TAN	METAL
Ceiling	WHITE	DROP
Floors		

c ments:

SFC MORGAN DOWNS USARC

file # 51503-0743

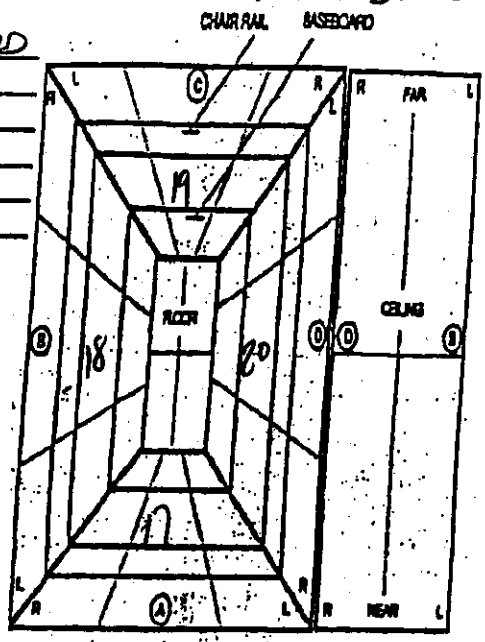
ADDRESS Springfield Ohio

JOB # OH059

CAL CHK

UNIT # 8

ROOM # 111



READINGS ON UNSOUND PAINT ARE CIRCLED

WALL A B C D

LEFT Ø

RIGHT

JER

WALL A B C D

LEFT

RIGHT

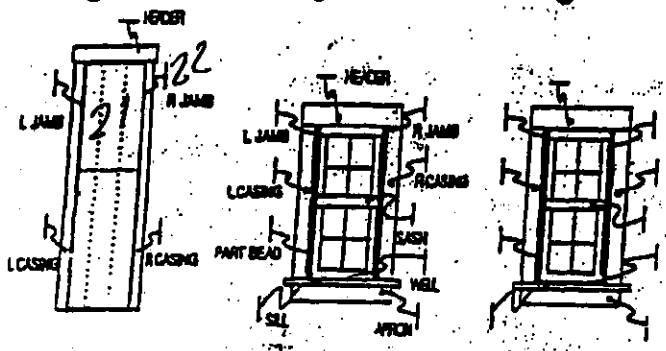
CENTER

WALL A B C D

LEFT

RIGHT

CENTER



	Finish	Substrate
Walls	TAN	CONCRETE BLK
Windows	BROWN	METAL
Window Components	BROWN	METAL
Doors	TAN	METAL
Door Components	TAN	METAL
Ceiling	WHITE	DROP
Floors	—	—

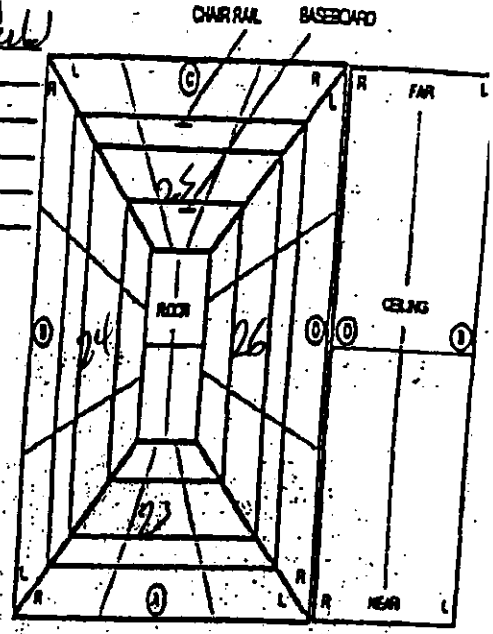
ADDRESS Springfield Ohio

JOB # OH059

CAL CHK

UNIT # 8

ROOM # 107



READINGS ON UNSOUND PAINT ARE CIRCLED

WALL A B C D

LEFT Ø

RIGHT

CENTER

WALL A B C D

LEFT

RIGHT

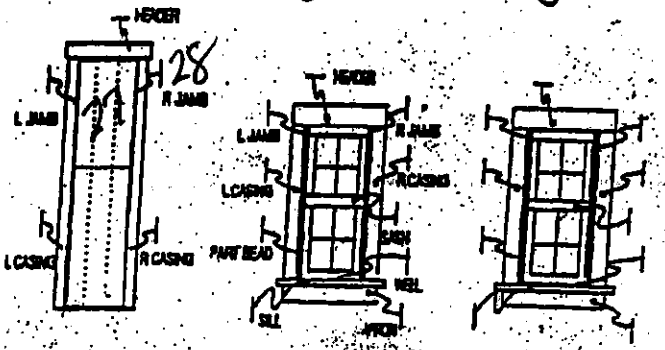
CENTER

WALL A B C D

LEFT

RIGHT

CENTER



	Finish	Substrate
Walls	TAN	CONCRETE BLK
Windows	BROWN	METAL
Window Components	BROWN	METAL
Doors	TAN	METAL
Door Components	TAN	METAL
Ceiling	WHITE	DROP
Floors		

or ents:

SFC MORGAN DOWNS USARC

File # 51503-0743

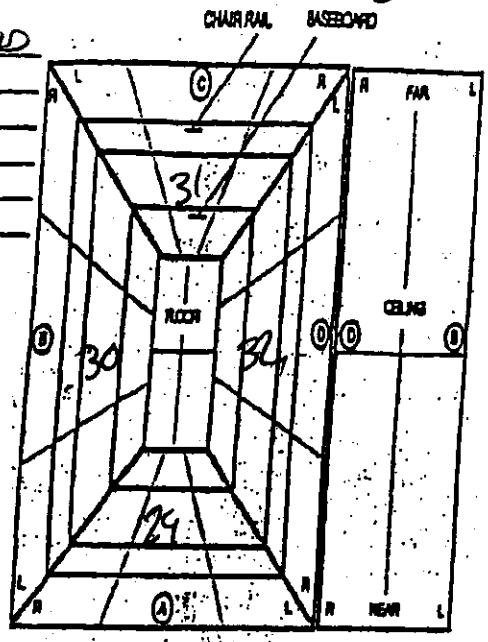
ADDRESS Springfield Ohio

JOB # OH059

CALCK

UNIT # 8

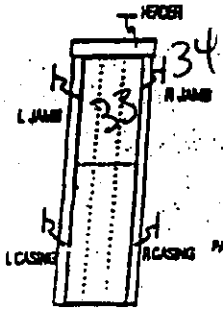
ROOM # 126

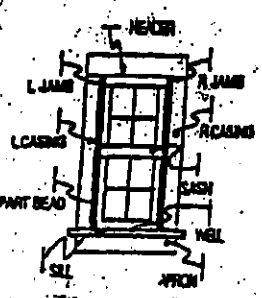


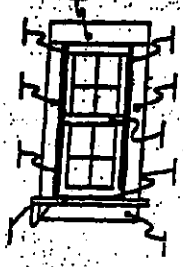
REASONS ON UNSOUND PAINT ARE CIRCLED

WALL A B C D

LEFT
RIGHT
REAR
CENTER







	Finish	Substrate
alls	TAN	CONCRETE BLK
indows	BROWN	METAL
indow Components	BROWN	METAL
oors	TAN	METAL
or Components	TAN	METAL
eiling	WHITE	DROP
loors	—	—

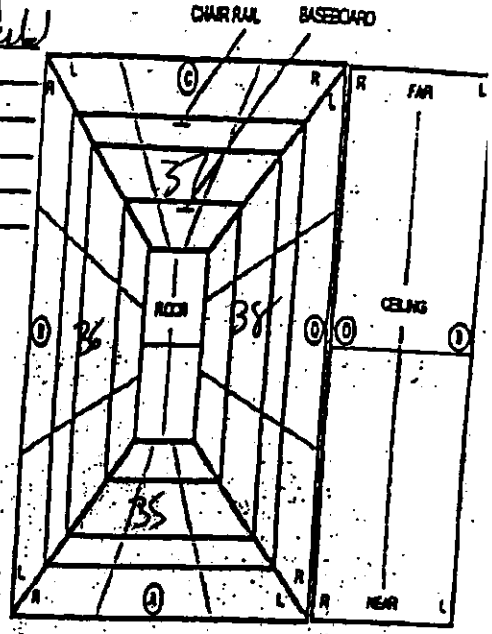
ADDRESS Springfield Ohio

JOB # OH059

CALCK

UNIT # 8

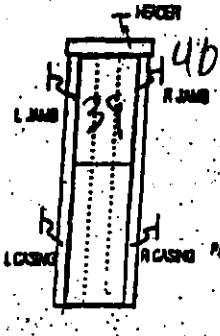
ROOM # 125

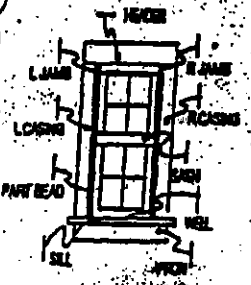


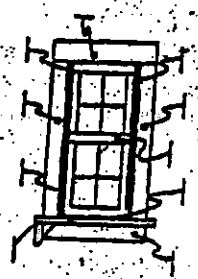
REASONS ON UNSOUND PAINT ARE CIRCLED

WALL A B C D

LEFT
RIGHT
REAR
CENTER







	Finish	Substrate
Walls	TAN	CONCRETE BLK
Windows	BROWN	METAL
Window Components	BROWN	METAL
Doors	TAN	METAL
Door Components	TAN	METAL
Ceiling	WHITE	DROP
Floors		

or ents:

SFC MORGAN DOWNS USARC

File # 51503-0743

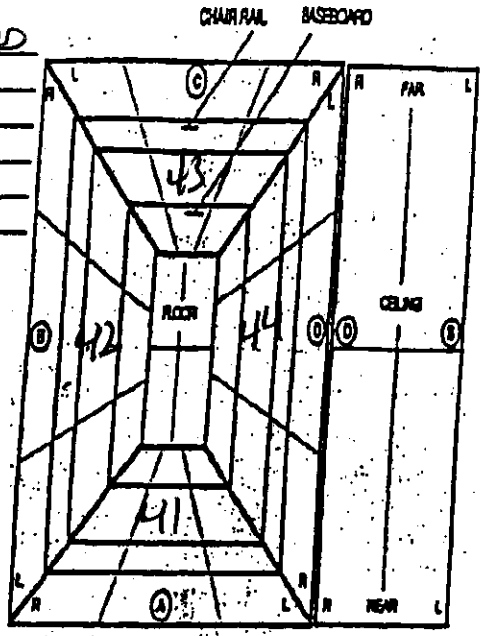
ADDRESS Springfield Ohio

JOB # OH059

CALC#

UNIT # 8

ROOM # 117



READINGS ON UNSOUND PAINT ARE CIRCLED

WALL A B C D

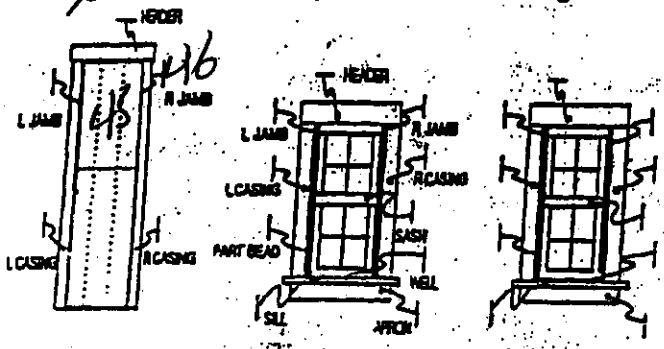
LEFT
RIGHT
JOB Ø

WALL A B C D

LEFT
RIGHT
CORNER

WALL A B C D

LEFT
RIGHT
CORNER



	Finish	Substrate
Walls	TAN	CONCRETE BLK
Windows	BROWN	METAL
Window Components	BROWN	METAL
Doors	TAN	METAL
Door Components	TAN	METAL
Ceiling	WHITE	DROP
Floors	—	—

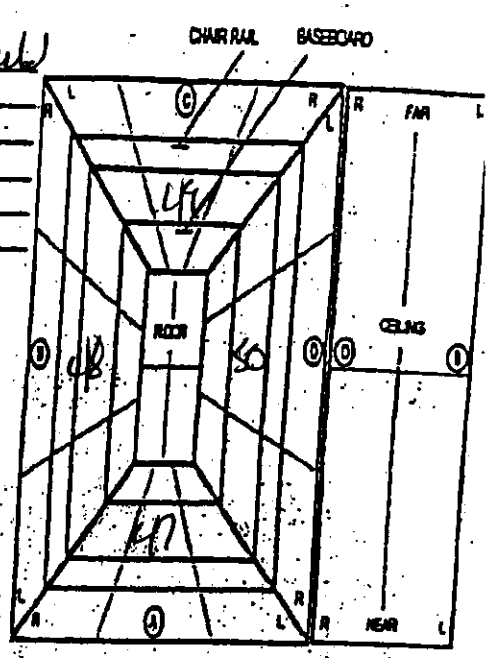
ADDRESS Springfield Ohio

JOB # OH059

CALC#

UNIT # 8

ROOM # 119



READINGS ON UNSOUND PAINT ARE CIRCLED

WALL A B C D

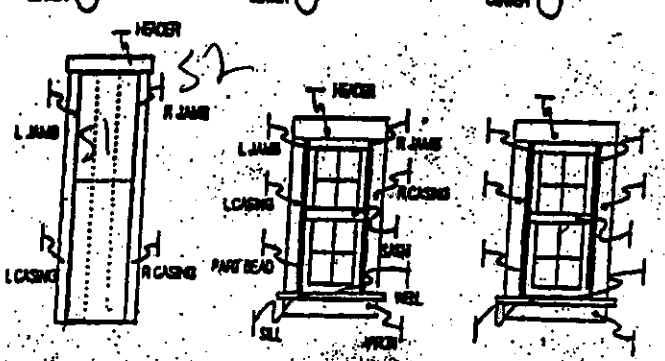
LEFT
RIGHT Ø
CORNER

WALL A B C D

LEFT
RIGHT
CORNER

WALL A B C D

LEFT
RIGHT
CORNER



	Finish	Substrate
Walls	TAN	CONCRETE BLK
Windows	BROWN	METAL
Window Components	BROWN	METAL
Doors	TAN	METAL
Door Components	TAN	METAL
Ceiling	WHITE	DROP
Floors		

ents:

SFC MORGAN DOWNS USARC

File # 51503-0743

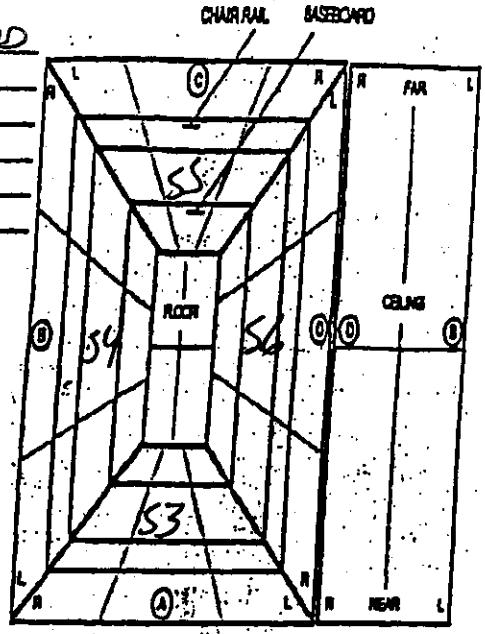
ADDRESS Springfield Ohio

JOB: OH059

CALCHK

UNIT # 8

ROOM # 130



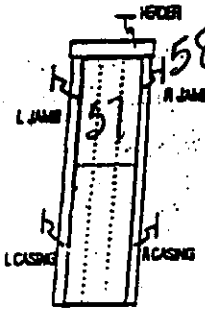
READINGS ON UNSOUND PAINT ARE CIRCLED

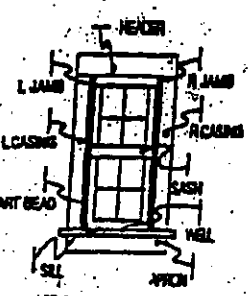
WALL Ⓐ Ⓑ Ⓒ Ⓓ

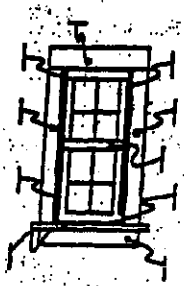
LEFT ∅

RIGHT ∅

CENTER ∅







	Finish	Substrate
Walls	TAN	CONCRETE BLK
Windows	BROWN	METAL
Window Components	BROWN	METAL
Doors	TAN	METAL
Door Components	TAN	METAL
Ceiling	WHITE	DROP
Floors	—	—

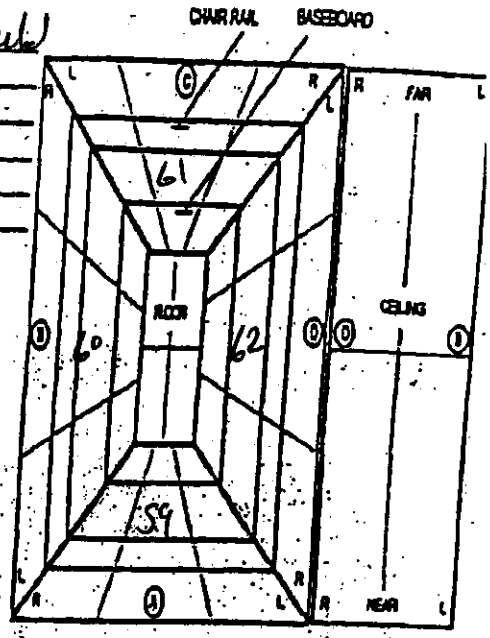
ADDRESS Springfield Ohio

JOB: OH059

CALCHK

UNIT # 8

ROOM # 130



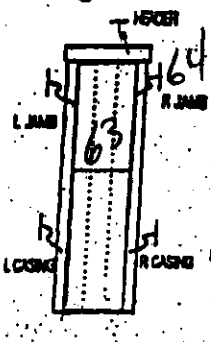
READINGS ON UNSOUND PAINT ARE CIRCLED

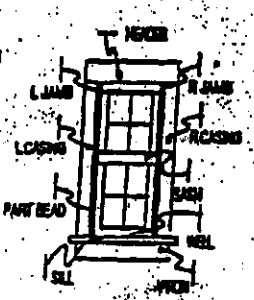
WALL Ⓐ Ⓑ Ⓒ Ⓓ

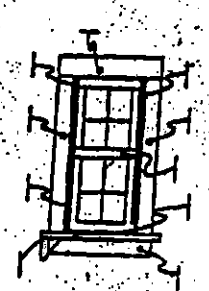
LEFT ∅

RIGHT ∅

CENTER ∅







	Finish	Substrate
Walls	TAN	CONCRETE BLK
Windows	BROWN	METAL
Window Components	BROWN	METAL
Doors	TAN	METAL
Door Components	TAN	METAL
Ceiling	WHITE	DROP
Floors		

901 Retention

Comments:

SFC MORGAN DOWNS USARC

file # 51503-0743

ADDRESS Springfield Ohio

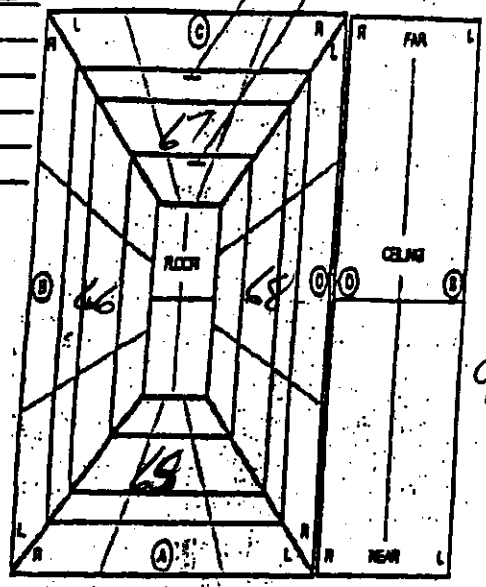
JOB # OH059

CALC#

UNIT # 8

ROOM # 131

CHAIR RAIL BASEBOARD



READINGS ON UNSOUND PAINT ARE CIRCLED

902 Drill Hall

ADDRESS Springfield Ohio

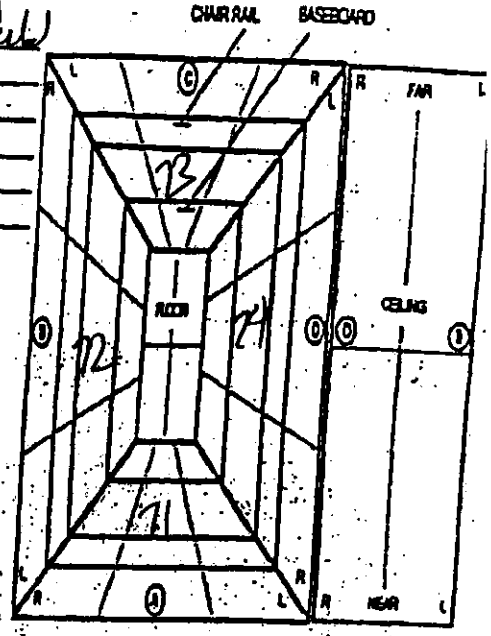
JOB # OH059

CALC#

UNIT # 8

ROOM #

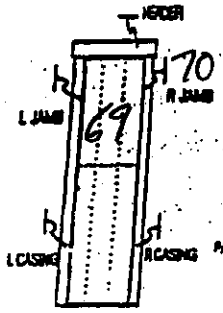
CHAIR RAIL BASEBOARD

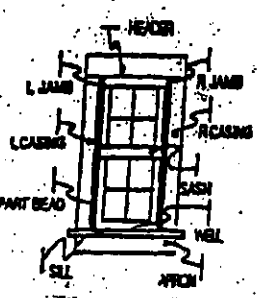


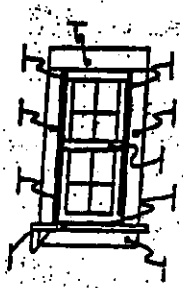
READINGS ON UNSOUND PAINT ARE CIRCLED

WALL A B C D

LEFT
RIGHT
JOB
CENTER

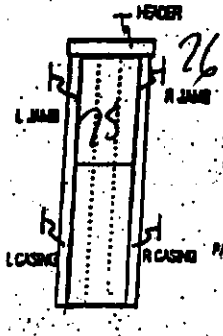


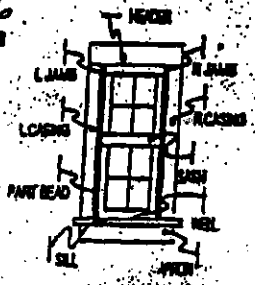


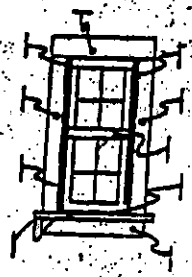


WALL A B C D

LEFT
RIGHT
CENTER







	Finish	Substrate
alls	TAN	CONCRETE BLK
indows	BROWN	METAL
indow Components	BROWN	METAL
oors	TAN	METAL
or Components	TAN	METAL
iling	WHITE	DROP
loors	—	—

	Finish	Substrate
Walls	TAN	CONCRETE BLK
Windows	BROWN	METAL
Window Components	BROWN	METAL
Doors	TAN	METAL
Door Components	TAN	METAL
Ceiling	WHITE	DROP
Floors		

or ents:

SFC MORGAN DOWNS USARC

File # 51503-0743

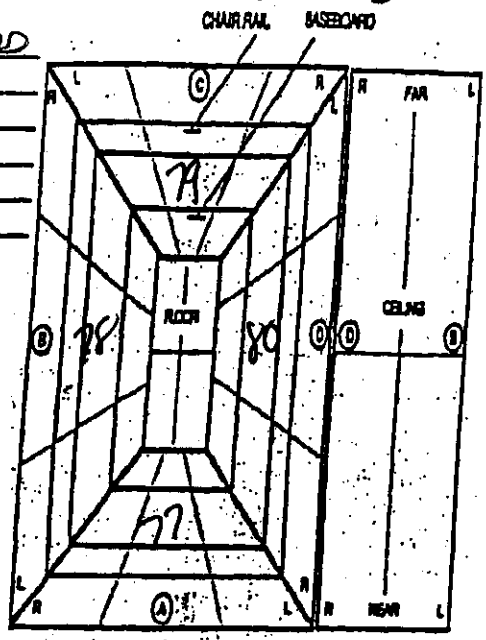
ADDRESS Springfield Ohio

JOB # OH059

CALC'K

UNIT # 8

ROOM # 903 Admin.



READINGS ON UNSOUND PAINT ARE CIRCLED

WALL A B C D

LEFT

RIGHT 8

JOB

WALL A B C D

LEFT

RIGHT

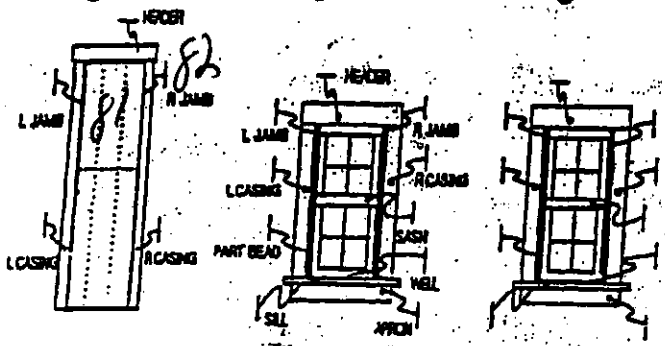
CENTER

WALL A B C D

LEFT

RIGHT

CENTER



	Finish	Substrate
alls	TAN	CONCRETE BLK
indows	BROWN	METAL
indow Components	BROWN	METAL
oors	TAN	METAL
or Components	TAN	METAL
eiling	WHITE	DROP
loors	—	—

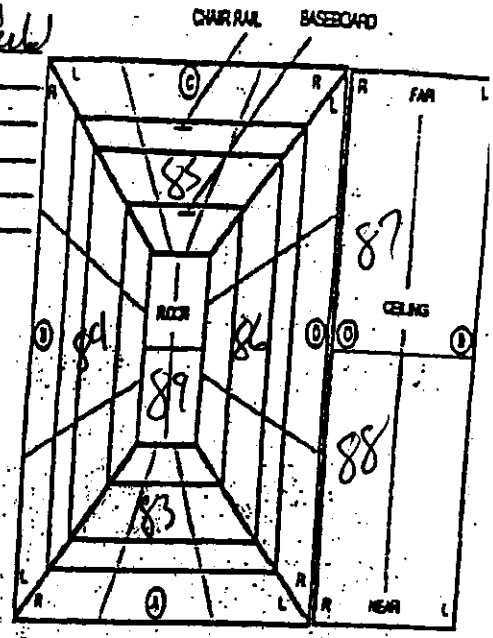
ADDRESS Springfield Ohio

JOB # OH059

CALC'K

UNIT # 8

ROOM # 904 MENS RR



READINGS ON UNSOUND PAINT ARE CIRCLED

WALL A B C D

LEFT

RIGHT

CENTER 9

WALL A B C D

LEFT

RIGHT

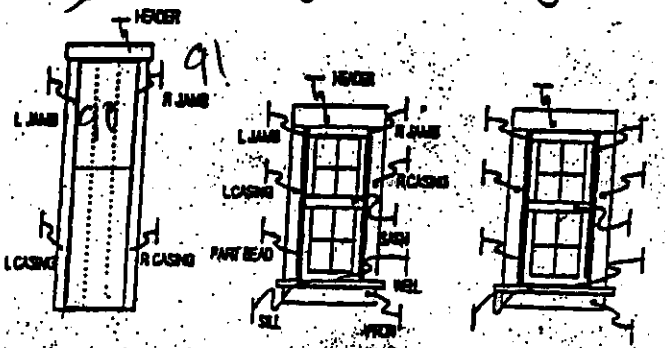
CENTER

WALL A B C D

LEFT

RIGHT

CENTER



	Finish	Substrate
Walls	TAN	CONCRETE BLK
Windows	BROWN	METAL
Window Components	BROWN	METAL
Doors	TAN	METAL
Door Components	TAN	METAL
Ceiling	WHITE	DROP
Floors		

or ents:

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: SFC Morgan L. Downs AMSA (G)

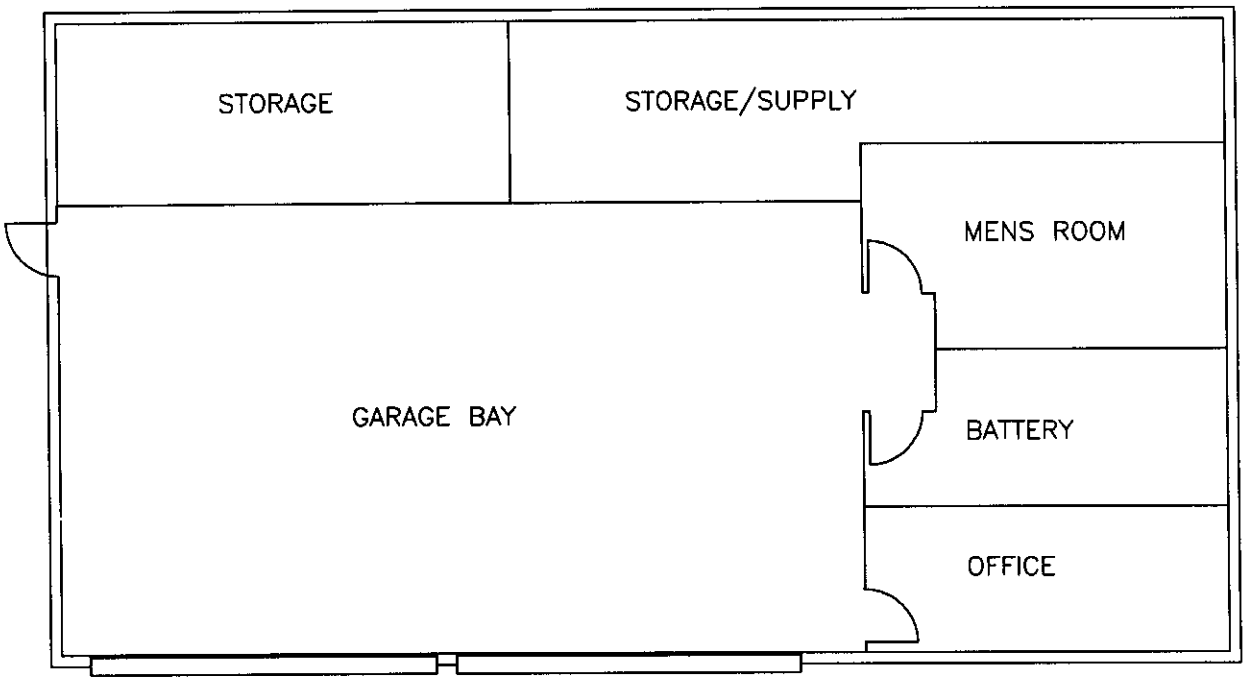
Inspection Date: 05/15/03
Report Date: 12/30/2003
Abatement Level: 1.0
Report No. S#01908 - 05/15/03 06:59
Total Readings: 39 Actionable: 5
Job Started: 05/15/03 06:59
Job Finished: 05/15/03 07:38

OH-059-005; Building SP003
Springfield, OH

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Interior Room 903 Bay Area									
021	A	Floor			P	Concrete	Yellow	7.6	QM
023	A	Door	Lft	Rgt jamb	I	Metal	Tan	1.0	QM
024	A	Door	Lft	Rgt casing	I	Metal	Tan	1.0	QM
022	A	Door	Lft	U Ctr	I	Metal	Tan	1.0	QM
020	C	Floor			P	Concrete	Yellow	1.3	QM

Calibration Readings

---- End of Readings ----



rfI **2710 Central Ave** **St. Petersburg, Fl** **33712**	**USARC OH 059-004** **Morgan Downs** **Motorpool**	**Floor Plan** SCALE: NTS

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: SFC Morgan L. Downs AMSA (G)

Inspection Date: 05/15/03 OH-059-005; Building SP003
Report Date: 12/30/2003 Springfield, OH
Abatement Level: 1.0
Report No. S#01908 - 05/15/03 06:59
Total Readings: 39
Job Started: 05/15/03 06:59
Job Finished: 05/15/03 07:38

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Interior Room 901 Supply Room									
004	A	Wall	L Ctr		I	N/A	N/A	-0.4	QM
009	A	Door	Ctr	Rgt jamb	I	N/A	N/A	0.5	QM
008	A	Door	Ctr	U Ctr	I	N/A	N/A	-0.1	QM
005	B	Wall	L Ctr		I	N/A	N/A	-0.1	QM
006	C	Wall	L Ctr		I	N/A	N/A	0.0	QM
007	D	Wall	L Ctr		I	N/A	N/A	-0.2	QM
Interior Room 902 Shop Office									
010	A	Wall	L Ctr		I	N/A	N/A	-0.3	QM
015	A	Door	Ctr	Rgt jamb	I	N/A	N/A	0.4	QM
014	A	Door	Ctr	U Ctr	I	N/A	N/A	-0.1	QM
011	B	Wall	L Ctr		I	N/A	N/A	-0.1	QM
012	C	Wall	L Ctr		I	N/A	N/A	-0.3	QM
013	D	Wall	L Ctr		I	N/A	N/A	-0.1	QM
Interior Room 903 Bay Area									
016	A	Wall	L Ctr		I	N/A	N/A	-0.1	QM
021	A	Floor			P	Concrete	Yellow	7.6	QM
023	A	Door	Lft	Rgt jamb	I	Metal	Tan	1.0	QM
024	A	Door	Lft	Rgt casing	I	Metal	Tan	1.0	QM
022	A	Door	Lft	U Ctr	I	Metal	Tan	1.0	QM
017	B	Wall	L Ctr		I	N/A	N/A	0.0	QM
018	C	Wall	L Ctr		I	N/A	N/A	0.0	QM
020	C	Floor			P	Concrete	Yellow	1.3	QM
019	D	Wall	L Ctr		I	N/A	N/A	-0.1	QM
Interior Room 904 Office									
025	A	Wall	L Ctr		I	N/A	N/A	0.0	QM
030	A	Door	Ctr	Rgt jamb	I	N/A	N/A	0.3	QM
029	A	Door	Ctr	U Ctr	I	N/A	N/A	0.0	QM
026	B	Wall	L Ctr		I	N/A	N/A	-0.3	QM
027	C	Wall	L Ctr		I	N/A	N/A	0.0	QM
028	D	Wall	L Ctr		I	N/A	N/A	-0.2	QM
Interior Room 905 Number Only									
031	A	Wall	L Ctr		I	N/A	N/A	-0.1	QM
038	A	Ceiling			I	N/A	N/A	-0.2	QM
036	A	Door	Ctr	Rgt jamb	I	N/A	N/A	0.3	QM
035	A	Door	Ctr	U Ctr	I	N/A	N/A	0.0	QM
032	B	Wall	L Ctr		I	N/A	N/A	-0.1	QM
033	C	Wall	L Ctr		I	N/A	N/A	0.0	QM
039	C	Floor			I	N/A	N/A	-0.2	QM
037	C	Ceiling			I	N/A	N/A	-0.2	QM
034	D	Wall	L Ctr		I	N/A	N/A	-0.2	QM
Calibration Readings									
001								0.9	TC
002								1.0	TC
003								0.8	TC

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: SFC Morgan L. Downs AMSA (G)

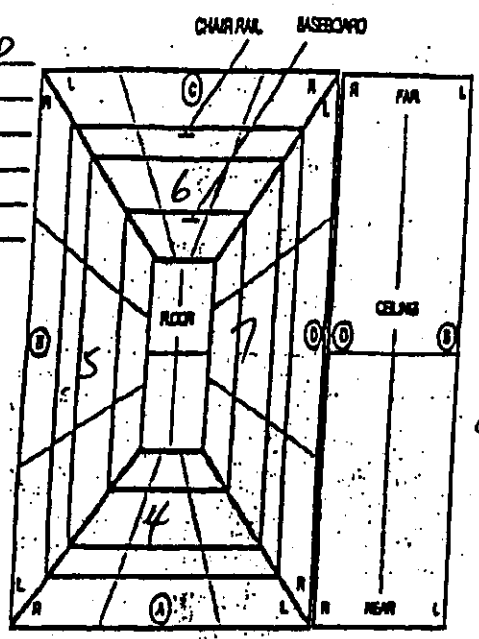
Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm^2)	Mode
---- End of Readings ----									

Facility number	OH059
Location (city and state)	Springfield OHio
Building description	
JBN file number	5150[illegible]-0659 - UNIT 7

Reading #	Value	Room #	Substrate	Color	Condition	Notes
20	1.3	BAY	Concrete	yellow	poor	
21	7.6	"	"	"	"	
22	1.0	OVERHEAD DOOR	METAL	TAN	Good	
23	1.0	"	"	"	"	
24	1.0	"	"	"	"	

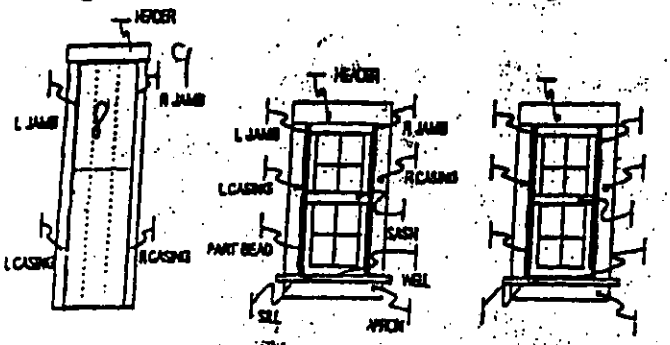
Springfield AMSA 58#
file # 51303-0659

ADDRESS Springfield Ohio
JOB # OH059
CALC # 1, 2, 3
UNIT # 7
ROOM # 901 Supply



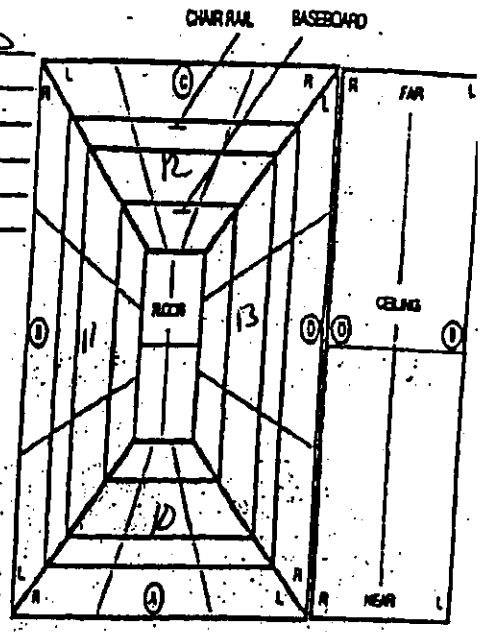
READINGS ON UNSOUND PAINT ARE CIRCLED

WALL A B C D
LEFT
RIGHT
CORNER



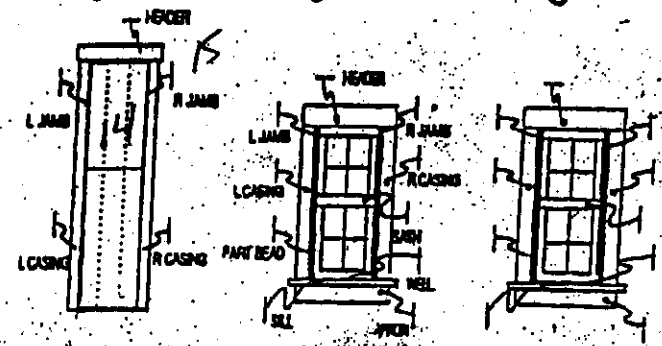
	Finish	Substrate
Walls	TAN	CONCRETE BLOCK
Windows	—	—
Window Components	—	—
Doors	TAN	METAL
Door Components	"	"
Ceiling	OPEN	
Floors	UNPAINTED	CONCRETE

ADDRESS Springfield Ohio
JOB # OH059
CALC #
UNIT # 7
ROOM # 902 Shop office



READINGS ON UNSOUND PAINT ARE CIRCLED

WALL A B C D
LEFT
RIGHT
CORNER

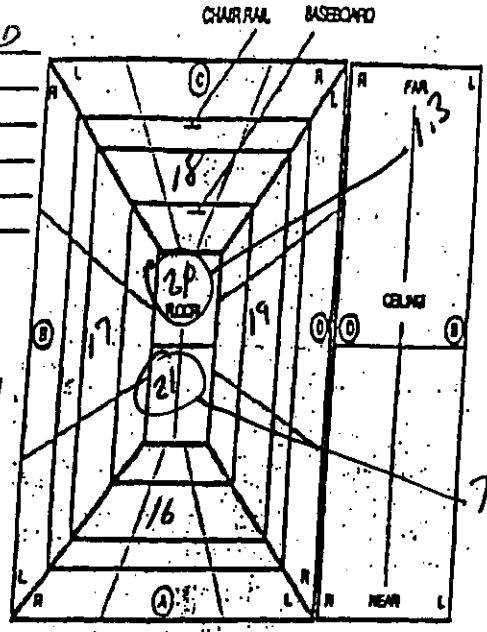


	Finish	Substrate
Walls	TAN	CONCRETE BLOCK
Windows	—	—
Window Components	—	—
Doors	TAN	METAL
Door Components	"	"
Ceiling	OPEN	
Floors	UNPAINTED	CONCRETE

c ments:

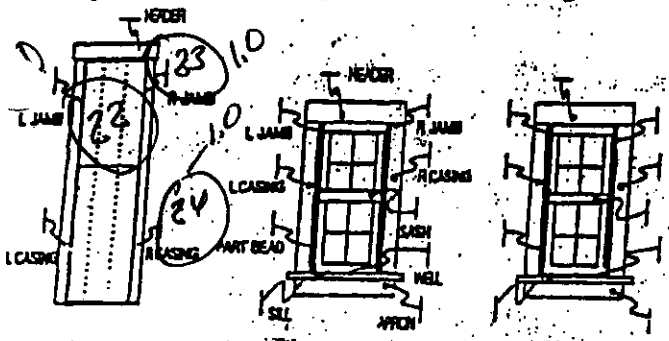
Springfield AMSA 58#
file # 51303-0659

ADDRESS Springfield Ohio
JOB # OH059
CALC'K
UNIT # 7
ROOM # 903 Bag Area



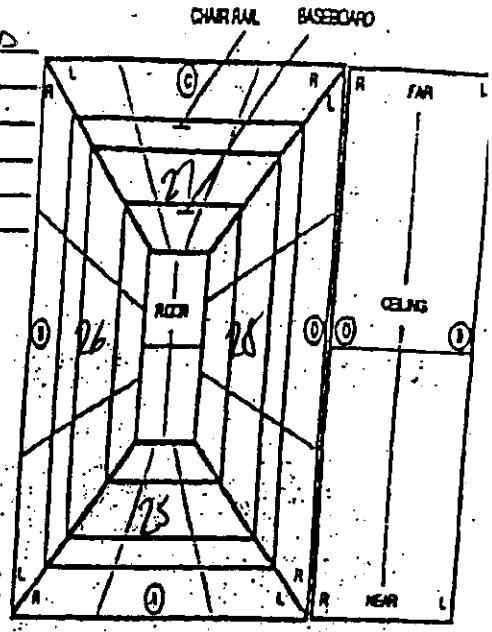
READINGS ON UNSOUND PAINT ARE CIRCLED

WALL Ⓐ Ⓑ Ⓒ Ⓓ
LEFT Ø
RIGHT
JOB
WALL Ⓐ Ⓑ Ⓒ Ⓓ
LEFT
RIGHT
CENTER
WALL Ⓐ Ⓑ Ⓒ Ⓓ
LEFT
RIGHT
CENTER



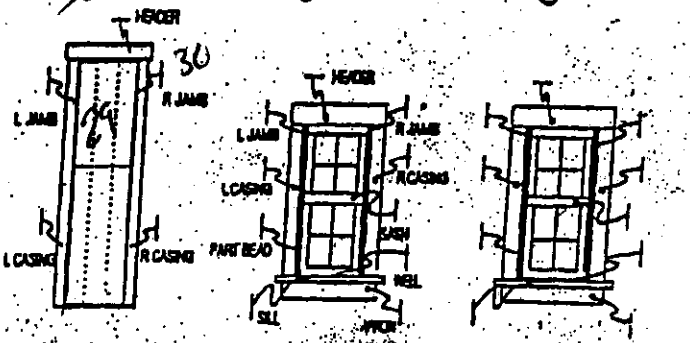
	Finish	Substrate
Walls	TAN/Brown	Concrete Block
Windows	—	—
Window Components	—	—
Doors	TAN	METAL
Door Components	"	"
Ceiling	—	—
Floors	Yellow	Concrete

ADDRESS Springfield Ohio
JOB # OH059
CALC'K
UNIT # 7
ROOM # 904 Office



READINGS ON UNSOUND PAINT ARE CIRCLED

WALL Ⓐ Ⓑ Ⓒ Ⓓ
LEFT
RIGHT
CENTER Ø
WALL Ⓐ Ⓑ Ⓒ Ⓓ
LEFT
RIGHT
CENTER
WALL Ⓐ Ⓑ Ⓒ Ⓓ
LEFT
RIGHT
CENTER

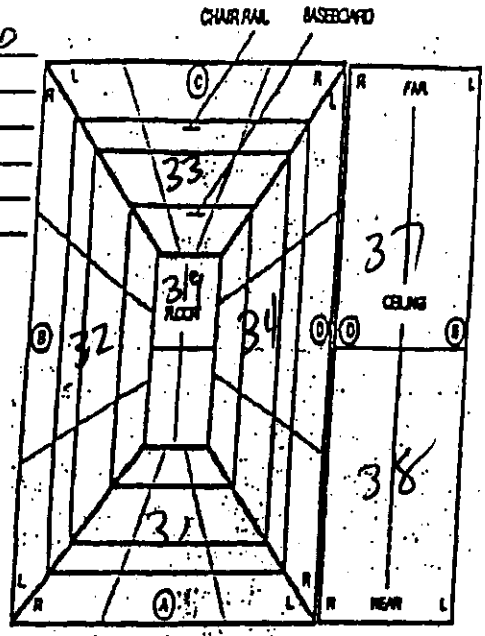


	Finish	Substrate
Walls	TAN	Concrete
Windows	—	—
Window Components	—	—
Doors	TAN	METAL
Door Components	"	"
Ceiling	Drop	—
Floors	—	—

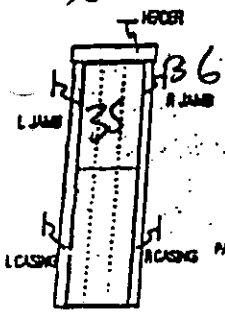
mments:

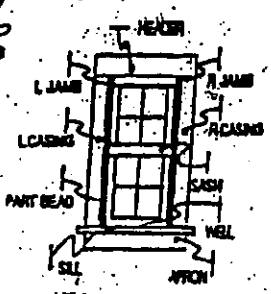
Springfield AMSA 58#
file # 51303-0659

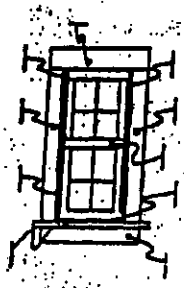
ADDRESS Springfield Ohio
JOB # OH059
CK/CK
UNIT # 7
ROOM # 905
READINGS ON UNSOUND PAINT ARE CIRCLED



WALL A B C D
LEFT
RIGHT
CENTER

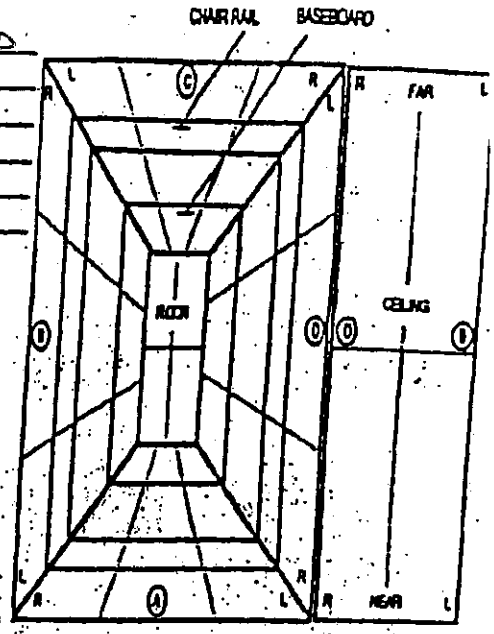




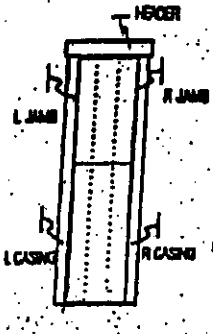


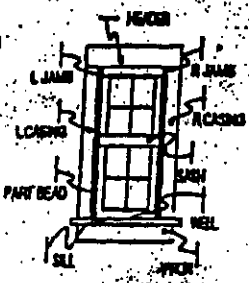
	Finish	Substrate
lls	TAN	CONCRETE BLK
dows	"	"
dow Components	"	"
ors	TAN	METAL
r Components	"	"
ling	White	Sheetrock
ors	BROWN	TILE

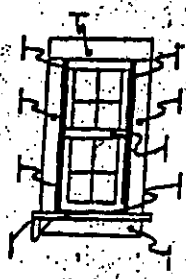
ADDRESS Springfield Ohio
JOB # OH059
CK/CK
UNIT # 7
ROOM #
READINGS ON UNSOUND PAINT ARE CIRCLED



WALL A B C D
LEFT
RIGHT
CENTER







	Finish	Substrate
Walls		
Windows		
Window Components		
Doors		
Door Components		
Ceiling		
Floors		

nn nts:

APPENDIX D

AccuStar Labs

Radon in Air

NEHA NRPP #101193 AL
NRSB #ARL0017

EPA Method #402-R-93-004 079
NEHA Device # 8205
NRSB Device # 12001

Laboratory Report For

International Training Institute of South Florida
514 1st Avenue SW
Largo FL 33770

Property Tested

OH 059
SFC Morgan L. Downs
1515 W. High Street
Springfield

Laboratory ID	Device Number	Area Tested	Test Start	Test End	Result pCi/L
551219	982868	Rm# 128/130	02/09/03	04/07/04	1.1
551220	982869	Rm# 128/130	02/09/03	04/07/04	1.1
551221	982865	Non #'d room / across from 118/	02/09/03	04/07/04	1.0
551222	982867	Non #'d room / across from 118/	02/09/03	04/07/04	1.0
551223	982855	Rm# 114	02/09/03	04/07/04	1.5
551224	982856	Rm# 114	02/09/03	04/07/04	1.5
551225	982853	Rm# 113	02/09/03	04/07/04	1.5
551226	982876	Rm# 113	02/09/03	04/07/04	1.3
551227	982874	Rm# 110	02/09/03	04/07/04	1.4
551228	982866	Rm# 110	02/09/03	04/07/04	1.6
551229	982878	Rm# 111	02/09/03	04/07/04	1.3
551230	988480	Rm# 111	02/09/03	04/07/04	1.8
551231	982862	Rm# 107	02/09/03	04/07/04	1.5
551232	982857	Rm# 107	02/09/03	04/07/04	1.4

Date Received: 4/28/2004 Date Analyzed: 5/3/2004 Date Reported: 5/3/2004

Report Reviewed By: _____

Disclaimer: The uncertainty of this radon measurement is ~+/- 15 %. Factors contributing to uncertainty include, statistical variations, daily and seasonal variations in radon concentrations, and operation of the dwelling. Interference with test conditions may influence the test results.

This report may only be transferred to a third party in its entirety. Results shown on this report represent levels of radon gas measured between the dates shown in the room or area of the site identified above as "Property Tested". Incorrect information will affect results. The results may not be construed as either predictive or supportive of measurements conducted in any area of this structure at any other time. AccuStar Labs, its employees and agents are not responsible for the consequences of any action taken or not taken based upon the results reported or any verbal or written interpretation of the results.

11 Awl Street Medway MA 02053 508-533-8812 fax 508-533-8831

NEHA NRPP #101193 AL
NRSB #ARL0017

EPA Method #402-R-93-004 079
NEHA Device # 8205
NRSB Device # 12001

Laboratory Report For

International Training Institute of South Florida
514 1st Avenue SW
Largo FL 33770

Property Tested

OH 059

SFC Morgan L. Downs
1515 W. High Street
Springfield

Laboratory ID	Device Number	Area Tested	Test Start	Test End	Result pCi/L
551233	982860	Huge reception area behind fron	02/09/03	04/07/04	1.4
551234	982859	Huge reception area behind fron	02/09/03	04/07/04	1.5
551235	982854	Rm# 126	02/09/03	04/07/04	1.5
551236	982872	Rm# 126	02/09/03	04/07/04	1.5
551237	988499	Rm# 125	02/09/03	04/07/04	1.4
551238	982864	Rm# 125	02/09/03	04/07/04	1.4
551239	982870	Rm# 124	02/09/03	04/07/04	1.4
240	988476	Rm# 124	02/09/03	04/07/04	1.4
551241	988484	Rm# 119	02/09/03	04/07/04	1.4
551242	988483	Rm# 119	02/09/03	04/07/04	1.5
551243	988477	Rm #118	02/04/03	08/06/03	3.7
551244	988493	Rm#118	02/09/03	04/07/04	1.6
551245	982871	Rm#117	02/09/03	04/07/04	1.7
551246	982877	Rm#117	02/09/03	04/07/04	1.3
551247	988452	Main Office	02/09/03	04/07/04	1.5

Date Received: 4/28/2004 Date Analyzed: 5/3/2004 Date Reported: 5/3/2004

Report Reviewed By: _____

Disclaimer: The uncertainty of this radon measurement is ~+/- 15 %. Factors contributing to uncertainty include, statistical variations, daily and seasonal variations in radon concentrations, and operation of the dwelling. Interference with test conditions may influence the test results.

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11 Awl Street Medway MA 02053 508-533-8812 fax 508-533-8831

2-11-2002 11:18 AM AccuStar-Labs

AccuStar Alpha Track Field Data Sheet

Program _____ Report Address SFL Morgan L. Olsen USARC Springfield [redacted] 1515 W. High St. Recorded by OH059 Page 1 of 2

Detector # (Small Bar Code Label)	Date Installed	Date Removed	Comments & Location (building, floor, room, etc.)
982868	2/9/03		Room # 128/130 (AMSA 586) (DC Location Drop Ceiling)
982869			
982865			Room is not #1! Access from 128/130 Left side (D.C.) HHS Exh. 110!
982867			
982855			Room # 114 (D.C.)
982856			
982853			Room # 113 (D.C.)
982876			
982874			Room # 110 (D.C.)
982866			
982878			Room # 111 (D.C.)
988480			
982862			Room # 107 (D.C.)
982857			
982860			Huge reception Area behind front Pillar And Above MAIN desk
982859			
982854			Room # 126
982872			

Rev. 12/01

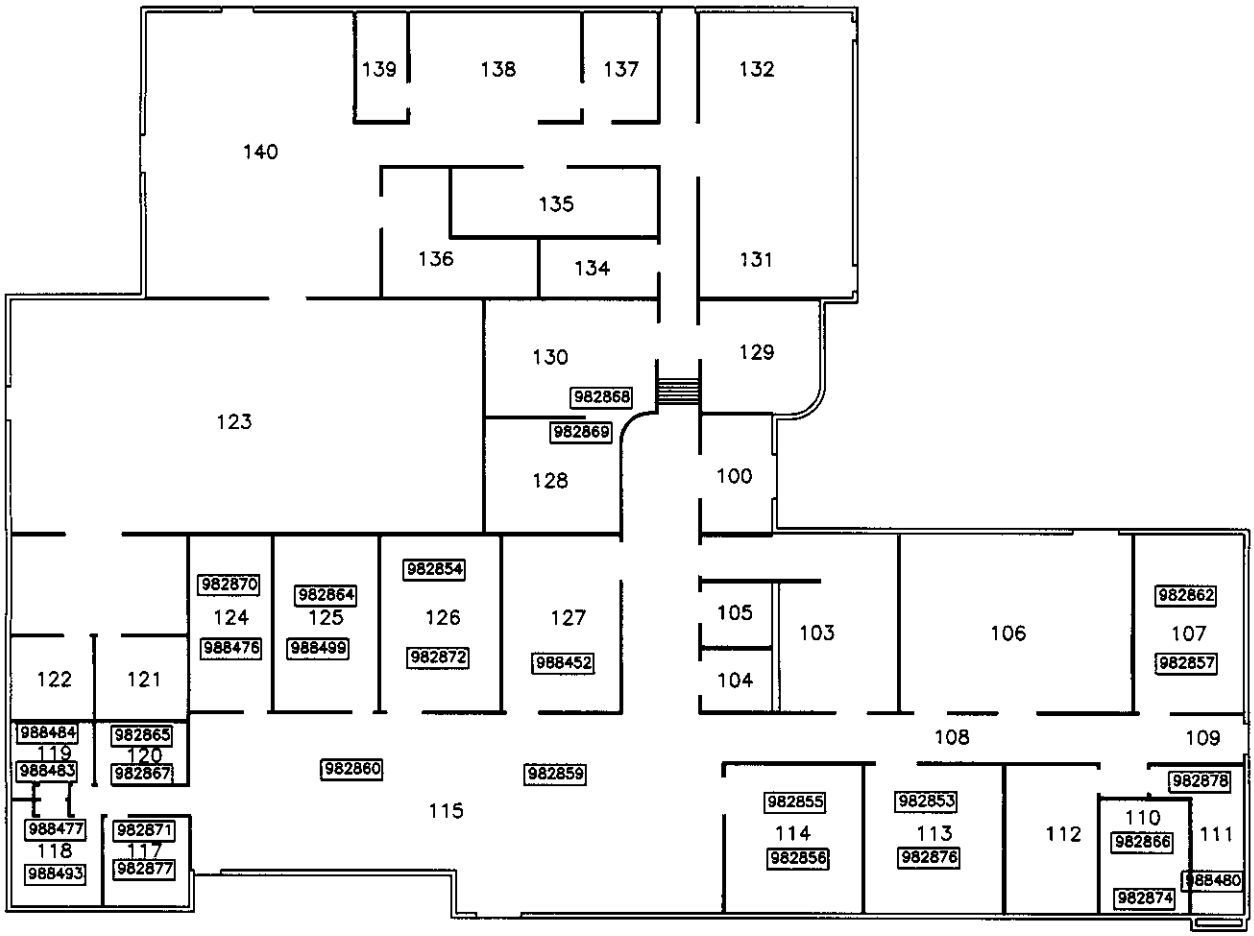
AccuStar Alpha Track Field Data Sheet

OH059 2002

SFC Morgan L. Downs

Program _____ Report Address USARC 1515 Pine 2 Recorded by _____ Page ___

Detector # (Small Bar Code Label)	Date Installed	Date Removed	Comments & Location (building, floor, room, etc.)
988499	02/9/03		Room# 125
982864			
982870			Room # 124
988476			
988484			Room# 119
988483			
988477			Room # 118
988493			
982871			Room # [redacted] 117
982877			
988452			Main Office! caddy corner from entrance
988481			



XXXXXX = Radon device Locations

ADMINISTRATION BUILDING

.ΓI **2710 Central Ave** **St. Petersburg, Fl** **33712**	**USARC OH059-001** **Downs Facility**	**Radon Sampled Locations**

AccuStar Labs

Radon in Air

NEHA NRPP #101193 AL
NRSB #ARL0017

EPA Method #402-R-93-004 079
NEHA Device # 8205
NRSB Device # 12001

Laboratory Report For

International Training Institue Of South Florida
514 1st Avenue SW
Largo FL 33770

Property Tested

OHO59

SMSA #50

Laboratory ID	Device Number	Area Tested	Test Start	Test End	Result pCi/L
565998	118993	blank	02/05/03	05/06/04	< 0.4
565999	988497	Bay Area	02/05/03	05/06/04	2.0
566000	988451	Ofc area	02/05/03	05/06/04	1.9
566001	988494	Ofc area	02/05/03	05/06/04	3.2
566002	988468	Bay Area	02/05/03	05/06/04	3.0

Date Received: 6/11/2004 Date Analyzed: 6/17/2004 Date Reported: 6/17/2004

Report Reviewed By: _____

Disclaimer: The uncertainty of this radon measurement is ~+/- 15 %. Factors contributing to uncertainty include, statistical variations, daily and seasonal variations in radon concentrations, and operation of the dwelling. Interference with test conditions may influence the test results.

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11 Awl Street Medway MA 02053 508-533-8812 fax 508-533-8831

DEC-11-2002 11:18 AM AccuStar-Labs

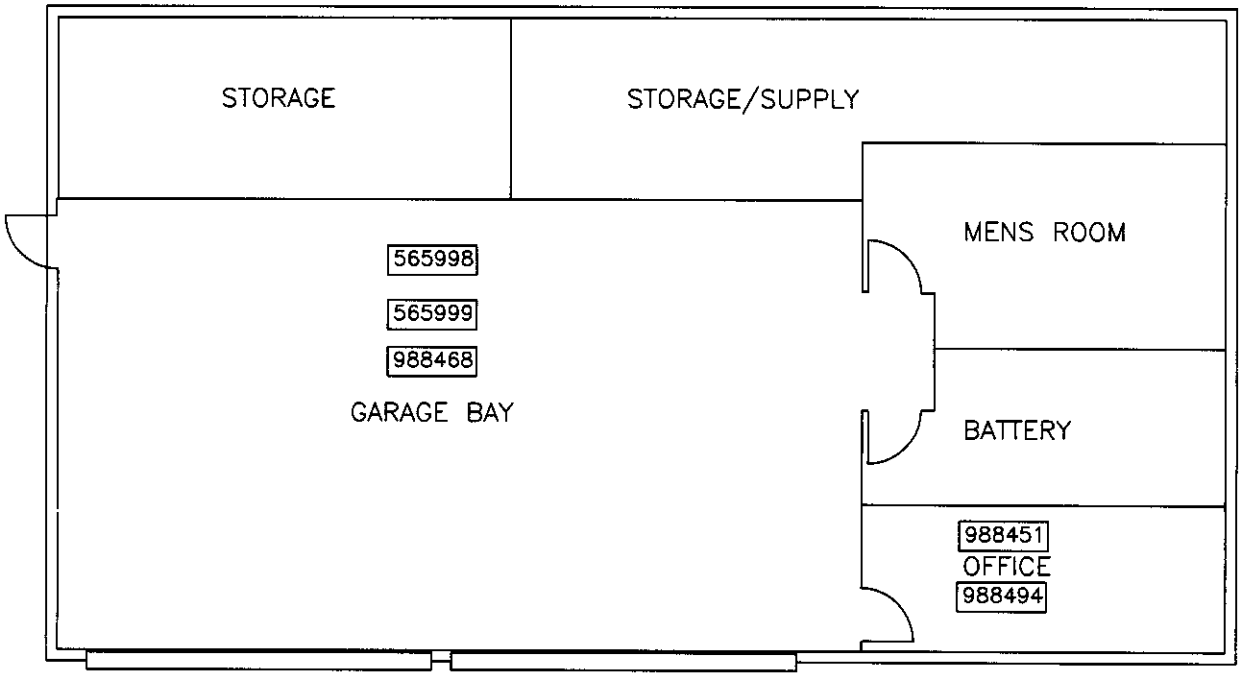
AccuStar Alpha Track Field Data Sheet

OH059

Program _____ Report Address SFC Morgan L. Lewis USMRC-[redacted] Springfield, 1516 W. High St. Maintenance Building Recorded by _____ Page ____

Detector # (Small Bar Code Label)	Date Installed	Date Removed	Comments & Location (building, floor, room, etc.)
988468	2/9/03		Supply Room (D.C)
988494			
988497			Front Office
988451			

Rev 12/0



XXXXXX = Radon device Locations

.ΓI 2710 Central Ave St. Petersburg, Fl 33712	**USARC OH 059-004** **Morgan Downs** **Motorpool**	**RADON SAMPLED LOCATIONS** SCALE: NTS

APPENDIX E

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ISO/IEC 17025:1999
ISO 9002:1994

Certificate of Accreditation

DEPARTMENT OF COMMERCE * UNITED STATES OF AMERICA *

A.E.S.L. ENVIRONMENTAL LABORATORY
TEMPE, AZ

is recognized by the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria set forth in NIST Handbook 150:2001, all requirements of ISO/IEC 17025:1999, and relevant requirements of ISO 9002:1994. Accreditation is awarded for specific services, listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

March 31, 2005
Effective through

For the National Institute of Standards and Technology
NVLAP Lab Code: 200303-0

NVLAP-01C (08-01)

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ISO/IEC 17025:1999
ISO 9002:1994

Certificate of Accreditation

DEPARTMENT OF COMMERCE * UNITED STATES OF AMERICA *

A.E.S.L. ENVIRONMENTAL LABORATORY
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BULK ASBESTOS FIBER ANALYSIS

March 31, 2004
Effective through

For the National Institute of Standards and Technology
NVLAP Lab Code: 200303-0

NVLAP-01C (C)

APPENDIX F

OHIO DEPARTMENT OF HEALTH

246 North High Street
Post Office Box 118
Columbus, Ohio 43216-0118

Telephone: (614) 466-3543
www.odh.state.oh.us

BOB TAFT
Governor

J. NICK BAIRD, M.D.
Director of Health

January 29, 2003

ITI of South Florida
514 First Avenue, S. W.
Largo, FL 32606

ATTN: Narciso Martinez

RE: Evaluation Specialist Certification # 34253

Dear Narciso Martinez:

This letter is to inform you that you have been certified by this department as an Asbestos Hazard Evaluation Specialist.

Included with this letter is your identification card. Proof of certification must be available for review at any relevant project.

This certification may be revoked by the Director of Health for violation of any of the requirements of 3701-34 of the Ohio Administrative Code.

This certification will expire on JAN-27-2004.

If you have any questions regarding your identification card please call and speak with the asbestos licensing staff at (614)644-0226.

Sincerely,

Bridgette C. Smith
Licensure Administrator
Asbestos Program
Division of Quality Assurance

APPENDIX G

FT. KNOX ASBESTOS SURVEY REPORT
U. S. ARMY RESERVE CENTERS

Downs USARC
Springfield, Ohio

CONTENTS

NARRATIVE SUMMARY

DATABASE SUMMARY

BUILDING DRAWING

ASBESTOS SURVEY FIELD LOG

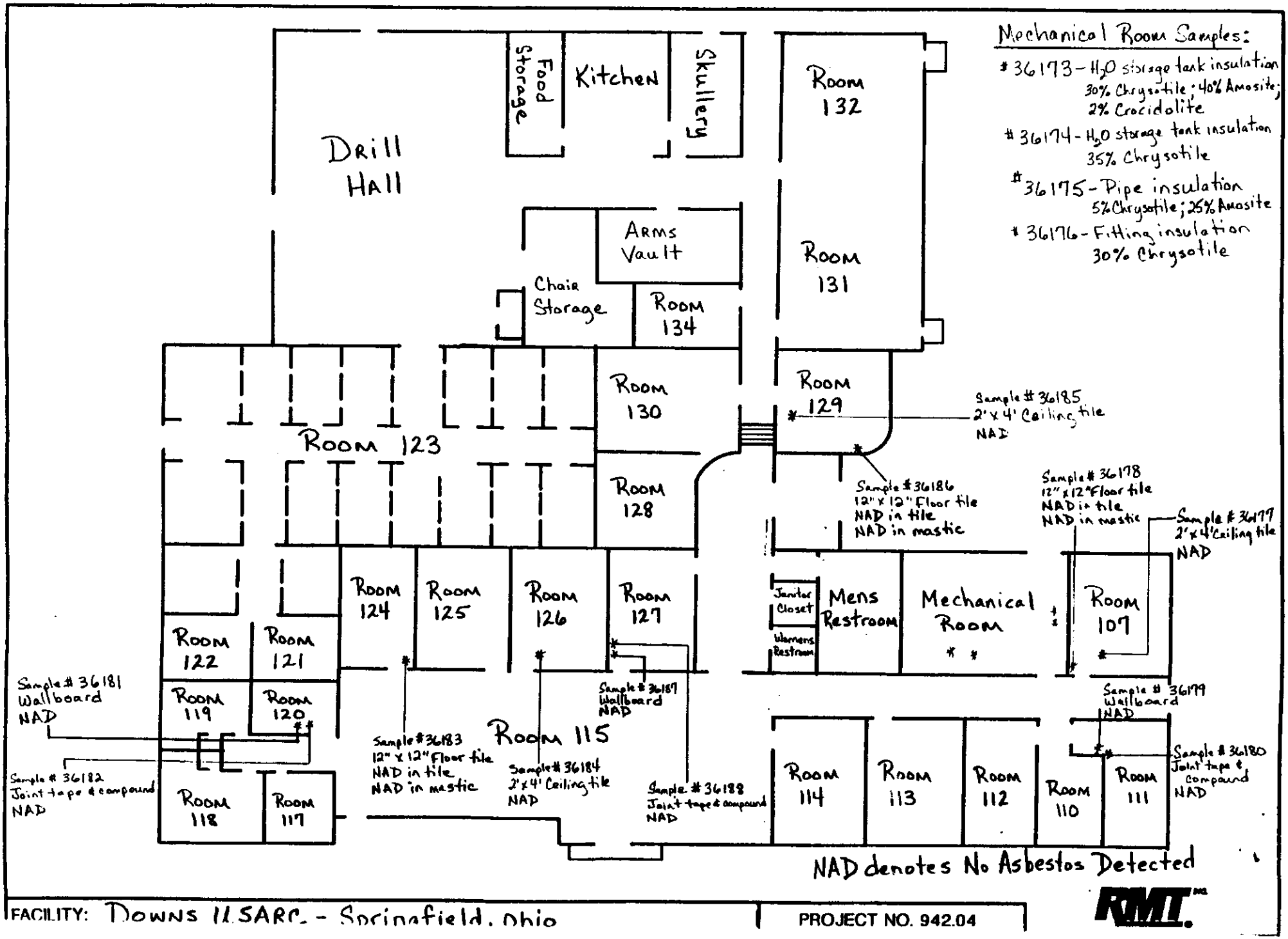
POLARIZED LIGHT MICROSCOPY ANALYSIS SUMMARY SHEETS

Prepared by:

RMT INC.

COST ESTIMATES FOR DOWNS USARC

ACM	Quantity	Abatement			Replacement			Total
		Labor Hours	Unit Cost	Total	Labor Hours	Unit Cost	Total	
Water storage tank insulation	98 SF	39	$20.00	$1,960	20	$12.00	$1,176	$3,136
Pipe insulation	14 LF	4	$14.00	$196	2	$8.25	$116	$312
Fitting insulation	8 EA	5	$30.00	$240	3	$25.00	$200	$440


Mechanical Room Samples:
36173 - H_2O storage tank insulation
30% Chrysotile; 40% Amosite;
2% Crocidolite
36174 - H_2O storage tank insulation
35% Chrysotile
36175 - Pipe insulation
5% Chrysotile; 25% Amosite
36176 - Fitting insulation
30% Chrysotile
Drill Hall
Food Storage
Kitchen
Skullery
Room 132
Arms Vault
Chair Storage
Room 134
Room 131
Room 130
Room 129
Room 123
Room 128
Sample # 36185
2' x 4' Ceiling tile
NAD
Sample # 36186
12" x 12" Floor tile
NAD in tile
NAD in mastic
Sample # 36178
12" x 12" Floor tile
NAD in tile
NAD in mastic
Sample # 36177
2' x 4' Ceiling tile
NAD
Room 124
Room 125
Room 126
Room 127
Janitor Closet
Mens Restroom
Womens Restroom
Mechanical Room
Room 107
Room 122
Room 121
Room 119
Room 120
Sample # 36181
Wallboard
NAD
Sample # 36182
Joint tape & compound
NAD
Sample # 36183
12" x 12" Floor tile
NAD in tile
NAD in mastic
Room 115
Sample # 36184
2' x 4' Ceiling tile
NAD
Sample # 36187
Wallboard
NAD
Sample # 36188
Joint tape & compound
NAD
Sample # 36179
Wallboard
NAD
Sample # 36180
Joint tape & compound
NAD
Room 118
Room 117
Room 114
Room 113
Room 112
Room 110
Room 111
NAD denotes No Asbestos Detected
FACILITY: Downs ILSARC - Springfield, Ohio
PROJECT NO. 942.04
RMT, Inc.

U. S. ARMY RES[illegible]E CENTERS
ASBESTOS SURV[illegible] FIELD LOG

Building Name: Downs USARC

Building Site: Springfield, Ohio

Date: 12-16-92

Building Usage Code: 9

FLOOR	AREA / ROOM #	HOMO AREA	TYPE	ASSESSMENT FRBL	ACC	COND	ACT	# OF OCCUP	DUR OF OCCUP	SAMPLE #	SAMPLE LOCATION	RESULTS	QUANTITY	COMMENTS
	Mechanism Room	No Suspect A-M						12	40					All fiberglass, plastic boots, rubber expansion joints
	Chair Storage	"												Cinder block & concrete
	Electrical and Closet	"												
	Mechanical Room	01	H	L	M	G	L			#36173	Front right side	30% Chrysotile 40% Amosite 2% Crocidolite	98sf	01 - H_2O storage tank insulation
	↓	01	H	L	M	G	L			#36174	Right end of tank	35% Chrysotile	see above	
		02	A	H	M	SD	L			#36175	At exposed end	5% Chrysotile 25% Amosite	14 LF	02 - Pipe insulation
	↓	03	H	L	M	G	L			#36176	Near main value @ the ceiling	30% Chrysotile	8 ea.	03 - Fitting insulation
	Room 107	04	N	H	M	G	L			#36177	Beside light fixture @ the door	NAD		04 - 2'x4' ceiling tile (small deep fissures w/ d
	↓	05	C	L	H	G	H			#36178	Behind the door	NAD in tile NAD in mastic		05 - 12"x12" tan floor tile
	Room 111	04	N	H	M	G	L						170 sf	
	↓	06	K	L	H	G	L			#36179	At the corner - above dropped ceiling	NAD	160sf	06 - Wallboard (8' wall)
	↓	07	H	L	L	G	L			#36180	"	NAD		07 - Joint tape & compound
	Room 110	04	N	H	M	G	L						137sf	
	↓	06	K	L	H	G	L						292 sf	(three walls)
	↓	07	H	L	L	G	L							
	Room 112	04	N	H	M	G	L						209sf	
	↓	06	K	L	H	G	L						304sf	(two walls)
		07	H	L	L	G	L							

U. S. ARMY RESERVE CENTERS
ASBESTOS SURVEY FIELD LOG

Building Name: Downs USARC

Building Site: Springfield, Ohio

Date: 12-16-92

Building Usage Code: 9

FLOOR	AREA / ROOM #	HOMO AREA	TYPE	ASSESSMENT FRBL	ASSESSMENT ACC	ASSESSMENT COND	ASSESSMENT ACT	# OF OCCUP	DUR OF OCCUP	SAMPLE #	SAMPLE LOCATION	RESULTS	QUANTITY	COMMENTS
	Room 117	04	N	H	M	G	L	12	40					
	↓	06	K	L	H	G	L	↓	↓				100 SF	
	↓	07	H	L	L	G	L	↓	↓				160 SF	(two walls)
	Room 118	04	N	H	M	G	L	↓	↓					
	↓	06	K	L	H	G	L	↓	↓				164 SF	
	↓	07	H	L	L	G	L	↓	↓				304 SF	
	Room 119	04	N	H	M	G	L	↓	↓					
	↓	05	C	L	H	G	H	↓	↓				114 SF	
	↓	06	K	L	H	G	L	↓	↓				123 SF	
	↓	07	H	L	L	G	L	↓	↓				184 SF	
	Room 120	04	N	H	M	G	L	↓	↓					
	↓	05	C	L	H	G	H	↓	↓				106 SF	
	↓	06	K	L	H	G	L	↓	↓	#36181	Above the door above drop ceiling	NAD	106 SF	
	↓	07	H	L	L	G	L	↓	↓	#36182		NAD	168 SF	
	Hall to rooms 117, 118, 119, 120	04	N	H	M	G	L	↓	↓					
	↓	05	C	L	H	G	H	↓	↓				90 SF	
	↓	06 07	K H	L L	H L	G G	L L	↓	↓				90 SF 540 SF	

U. S. ARMY RESERVE CENTERS
ASBESTOS SUR FIELD LOG

Building Name: Downs USARC

Building Site: Springfield, Ohio

Date: 12-16-92

Building Usage Code: 9

FLOOR	AREA / ROOM #	HOMO AREA	TYPE	ASSESSMENT FRBL	ACC	COND	ACT	# OF OCCUP	DUR OF OCCUP	SAMPLE #	SAMPLE LOCATION	RESULTS	QUANTITY	COMMENTS
1st	Woman's restroom	06	K	L	M	G	L	12	40				49sf	ceiling only
	↓	07	H	L	L	G	L							
	Janitors (room 105) Closet	06	K	L	M	G	L						30sf	ceiling only
	↓	07	H	L	L	G	L							
	Mens restroom	06	K	L	M	G	L						248sf	ceiling only
	↓	07	H	L	L	G	L							
	Room 128	04	N	H	M	G	L						224sf	
	↓	05	C	L	H	G	H						224sf	
	Room 130	04	N	H	M	G	L						320sf	
	↓	05	C	L	H	G	H						320sf	
	Room 129	04	N	H	M	G	L			#36185	Beside air vent - infront of door	NAD	270sf	
	↓	05	C	L	H	G	H			#36186	Right wall - where glass starts	NAD in tile NAD in mastic	270sf	
	Room 131	04	N	H	M	G	L						525sf	
	↓	05	C	L	H	G	H						525sf	
	Room 131 closet	05	C	L	H	G	H						12sf	
	↓	06	K	L	M	G	L						12sf	ceiling only
	↓	07	H	L	L	G	L	↓	↓					

U. S. ARMY RES[illegible]VE CENTERS
ASBESTOS SUR[illegible] FIELD LOG

Building Name: Downs USARC

Building Site: Springfield, Ohio

1985- remodeled [illegible]
Pipe chases - fiberglass

Date: 12-16-92

Building Usage Code: 9

FLOOR	AREA / ROOM #	HOMO AREA	TYPE	ASSESSMENT FRBL	ASSESSMENT ACC	ASSESSMENT COND	ASSESSMENT ACT	# OF OCCUP	DUR OF OCCUP	SAMPLE #	SAMPLE LOCATION	RESULTS	QUANTITY	COMMENTS
	Room 122	04	N	H	M	G	L	12	40				113 SF	
	↓	05	C	L	H	G	H						113 SF	
	Room 123	No suspect ACM												
	Halls & lobby	04	N	H	M	G	L						1450 SF	
	↓	05	C	L	H	G	H						1450 SF	
	Front Entrance	06	K	L	M	G	L						140 SF	ceiling only
	↓	07	H	L	L	G	L	↓	↓					
Roof	Roof													- Rubber membrane
	Maintenance Shop													
	Office	04	N	H	M	G	L			#36189	Beside back light	NAD	120 SF	
	↓	05	C	L	H	G	H			#36190	Under heat register	NAD	120 SF	
	Mens	06	K	L	M	G	L						58 SF	Ceiling only
	↓	07	H	L	L	G	L							
													(2) 4 SF	Possible with exp.

Hygeia Environmental Laboratories Inc.

Atlanta
Boston
Los Angeles
New York

Cobb Corporate Center
350 Franklin Road/300
Marietta, Georgia
30067-7749
404-425-9901
FAX: 404-424-0185

PLM Analysis Summary

HEL Project Number: A005-93-027
Client Project ID: 942.04 (DOWNS USARC)

Sample ID		Asbestos Percent					Other Fibers		Non-Fibers		
Client	HEL	Ch.	Am.	Cr.	An.	T/A	Cell.	Glass	Per.	Ver.	Binder
36173	67461-A	30%	40%	2%			5%	5%			18%
Comments: .											
36174	67462-A	35%					5%				60%
Comments: .											
36175	67463-A	5%	25%					10%			60%
Comments: .											
36176	67464-A	30%									70%
Comments: .											
36177	67465-A						25%	25%	25%		25%
Comments: No Asbestos Detected											
36178	67466-A										100
Comments: NAD in tile, NAD in mastic.											
36179	67467-A						5%	25%			70%
Comments: No Asbestos Detected											
36180	67468-A						40%				60%
Comments: No Asbestos Detected											
36181	67469-A						20%				80%
Comments: No Asbestos Detected											
36182	67470-A						30%				70%
Comments: No Asbestos Detected											
36183	67471-A										100
Comments: NAD in tile, NAD in mastic.											
36184	67472-A						25%	35%	20%		20%
Comments: No Asbestos Detected											

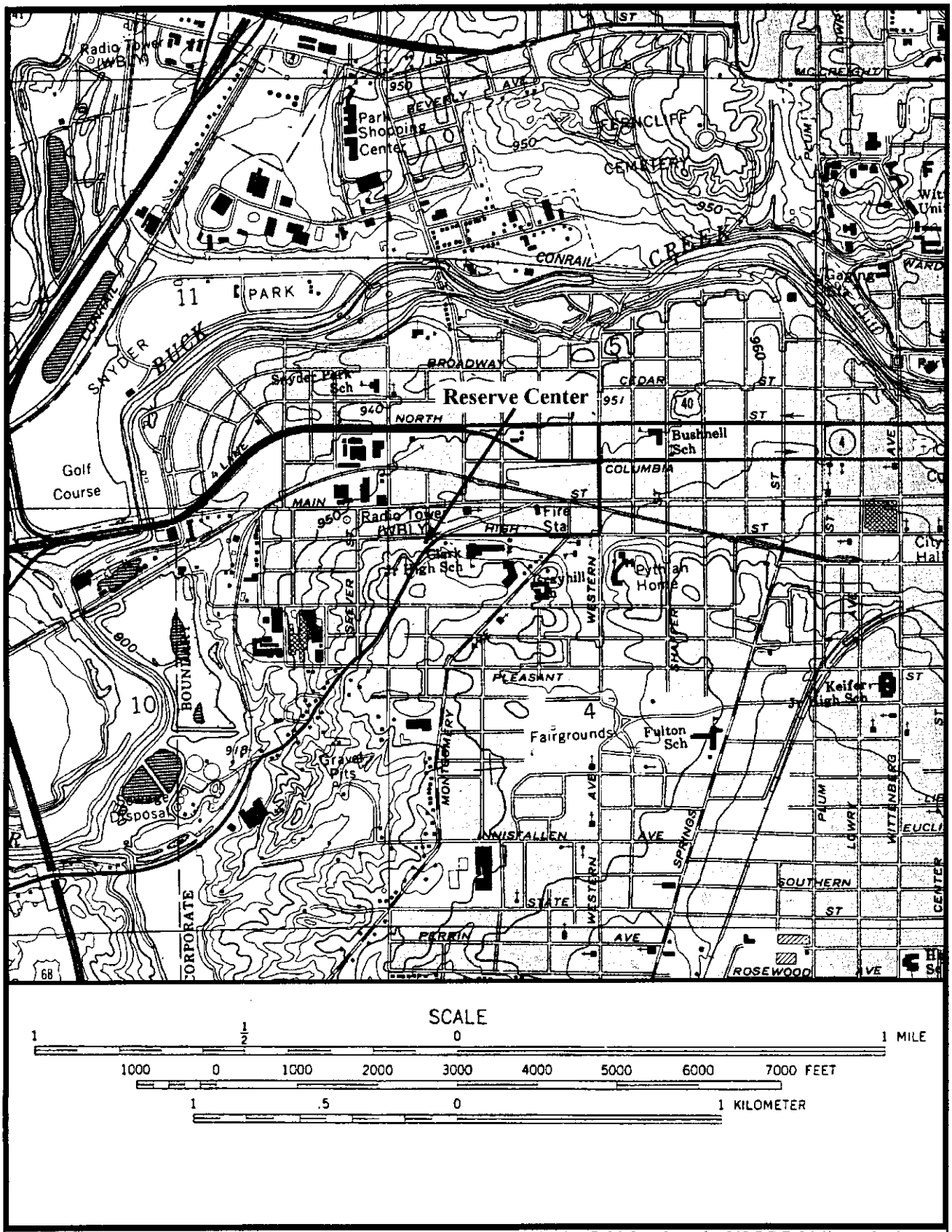
Springfield, Ohio
SFC Morgan L. Downs USARC

Identification Information:	Identification Number: OH059/39955 SFC Morgan Downs USARC 1515 West High St., Springfield, Clark County, Ohio 45506-1197 Telephone Number: (937) 322-1295 Springfield Quadrangle, Ohio-Clark Co., USGS 7.5 Minute Series, T4N R9W, Section 4 (Figure 488) UTM: Z17, 257664E, 4423325N Present Owner/Occupant: The facility is owned by the United States Government and controlled by the 88th RSC.
Setting and Landscape:	The SFC Morgan Downs USARC consists of two buildings located on three acres of land (SP001) in Springfield, Ohio (Figure 489). The facility is landscaped with grass, trees, and shrubs.
Archaeological Resources:	An archaeological records search at the Ohio State Historic Preservation Office determined that there are no known archaeological sites located within a one-mile radius of the SFC Morgan Downs USARC.
Historical Information:	The SFC Morgan Downs USARC was originally constructed in 1957 and dedicated "in memory of Sergeant First Class Morgan L. Downs who...[gave] his life in defense of his country while serving in Korea."[1] In 1986, the facility was extensively renovated with modifications that changed the original design of the Reserve Center and Organizational Maintenance Shop. Alterations included the construction of additional space and installing a gray stucco façade over the original brick veneer finish on the exterior of both structures.[2] The significant modifications to the Reserve Center and Organizational Maintenance Shop led to reestablishing the construction date in the 88th RSC DSCEN Real Property records as 1986. In 1996, the 88th RSC assumed control of the SFC Morgan Downs USARC.[3]

Security:	Security measures at the SFC Morgan Downs USARC include chain-link fencing topped with barbed wire surrounding the facility. A visibility screen is interwoven within the chain-link on the north and west sides of the property. A second chain-link fence topped with barbed wire encloses the Organizational Maintenance Shop and a military vehicle parking area. High intensity lighting is also present to illuminate military and civilian vehicle parking areas.
Architectural Information:	The SFC Morgan Downs USARC consists of two concrete block buildings with a red brick veneers covered with gray stucco. The buildings do not appear to exhibit historical or architectural character or merit that significantly contributes to the historic context of the period associated with their construction.
Building Descriptions:	**Reserve Center** (SP002) The Reserve Center functions as an administrative and drill facility for the SFC Morgan Downs USARC. The structure was constructed in 1957[4], as a rectangular building that rested on a concrete foundation with concrete block walls and a brick veneer. The Reserve Center underwent an extensive renovation in 1986, when additional space was added to the south and east sections of the building modifying it into a multiple-level irregular-shaped structure (Figure 490). A gray stucco façade was also installed on the exterior at that time. A pair recessed entrance containing a pair of glass pedestrian doors with one-over-one fixed light sidelights and a single light transom is located on the west side of the building (Figure 491). A tiled walkway leads from a civilian vehicle parking area to the western entrance. Two sets of concrete stairs are located between the public sidewalk and the Reserve Center on the west side of the building. Additional entrances include single and paired metal pedestrian doors located on the north, south, east, and west walls (Figure 492). Fenestrations include single light fixed and casement ribbon windows arranged in geometrical patterns on the north, south, and east walls (Figure 493). Sections of corning glass block windows are located near the entrance on the west wall. A flat roof covers the structure. **Organizational Maintenance Shop** (SP003) The Organizational Maintenance Shop functions as a vehicle maintenance facility for the SFC Morgan L. Downs USARC. The structure was constructed in 1957 as a rectangular building that rested on a concrete foundation with concrete block walls and a brick veneer. The

	Organizational Maintenance Shop underwent an extensive renovation in 1986 when additional space was added, modifying it into a multiple-level rectangular structure. A gray stucco façade was also installed on the exterior at that time (Figure 494). Two metal overhead retractable bay doors are located on the north wall of the building (Figure 495). Additional entrances include single and paired metal pedestrian doors along the east and west walls (Figure 496). A single light fixed window is located on the east wall. A flat roof covers the one-and-one-half-story maintenance bay, and a low-pitch shed roof covers the administration area (Figure 497).
Eligibility:	None of the buildings located at the SFC Morgan L. Downs USARC meet the criteria for the National Register of Historic Places (NRHP), under Criterion A, B, C, or D, and thus are not recommended for nomination to the NRHP. A documentary and architectural investigation conducted at the facility determined there is no direct relationship between the facility and prehistoric or historic events in the Springfield area (criterion A), there is no association with significant persons involved in prehistoric or historic events (criterion B), buildings on the facility are not architecturally or technologically significant (criterion C), and the facility is unlikely to hold future research potential (criterion D).
Recommendations:	No additional review under Section 110 is recommended until the existing buildings at the SFC Morgan L. Downs USARC reach the 50 year eligibility requirement for the NRHP in 2036, or unless specific undertakings require compliance with Section 106 of the National Historic Preservation Act (36 CFR 800).
Sources:	"Annual Utilization Survey-USAR Real Estate Authority: SFC Morgan L. Downs U.S. Army Reserve Center." 83rd RSC Real Estate Division. 5 March 1989. "Annual Utilization Survey –USARC Real Estate Authority." 5 March 1989. "Environmental Audit of Downs U.S. Army Reserve Center." Lexington, Kentucky: Howard K. Bell, Consulting Engineers, Inc. 1991. "Real Estate Utilization Inspection Report," 24 July 1969.

	"Springfield Quadrangle, Ohio-Clark Co." USGS 7.5 Minute Series Map. Denver, Colorado: United States Geological Survey. photorevised 1981. "Transfer and Acceptance of Military Real Property." 88th RSC DSCEN Real Estate Division. 25 September 1996.
Notes:	[1] "Annual Utilization Survey-USAR Real Estate Authority: SFC Morgan L. Downs U.S. Army Reserve Center," 83rd RSC Real Estate Division, 5 March 1989, p. 1. [2] Ibid. and "Real Estate Utilization Inspection Report," 24 July 1969. Copies of these reports are on file at the 88th RSC DSCEN Real Estate Division Office, Fort Snelling, Minnesota. [3] "Transfer and Acceptance of Military Real Property," 88th RSC DSCEN Real Estate Division, 25 September 1996. The 88th RSC assumed control of the SFC Morgan Downs USARC from the 83rd RSC. [4] "Annual Utilization Survey –USARC Real Estate Authority," 5 March 1989, p. 1.



Springfield Quadrangle, USGS 7.5 Minute Series

Figure 488. Location of the SFC Morgan Downs USARC.

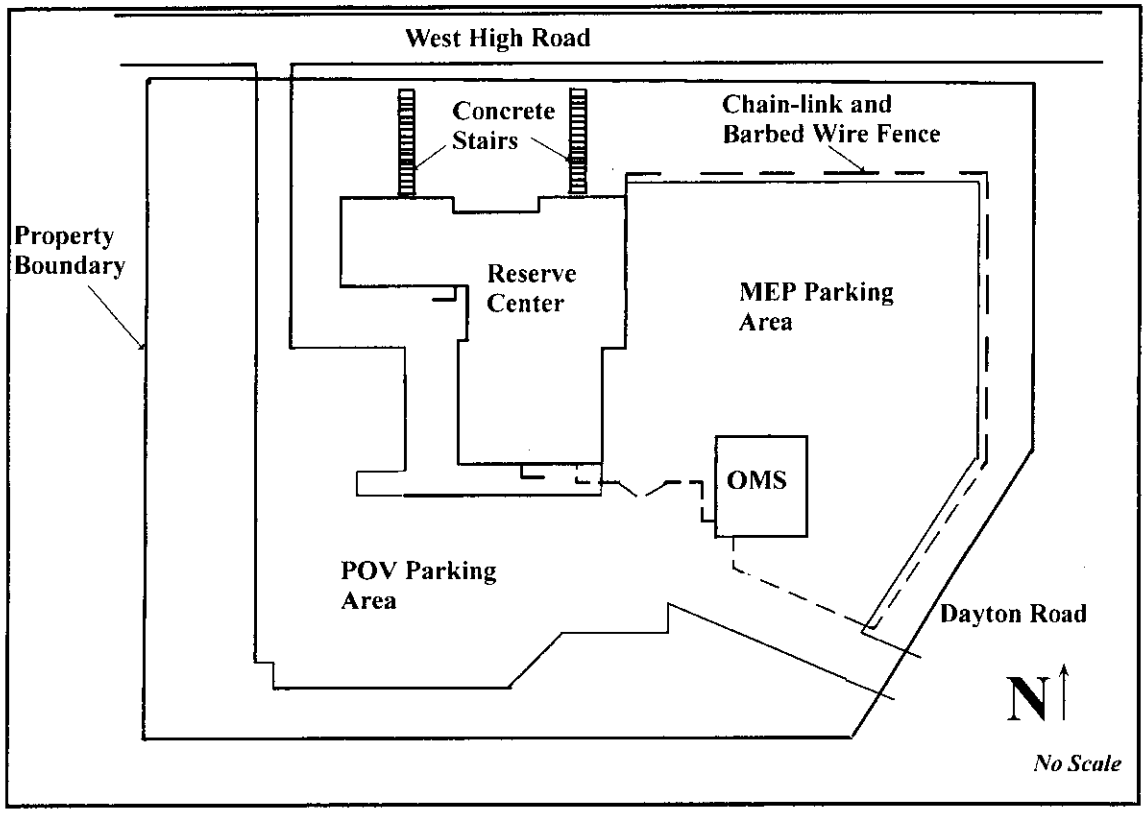


Figure 489. Map of the SFC Morgan Downs USARC (map modified from "Environmental Audit of Downs U.S. Army Reserve Center," Howard K. Bell, Consulting Engineers, Inc., Attachment No. 1).

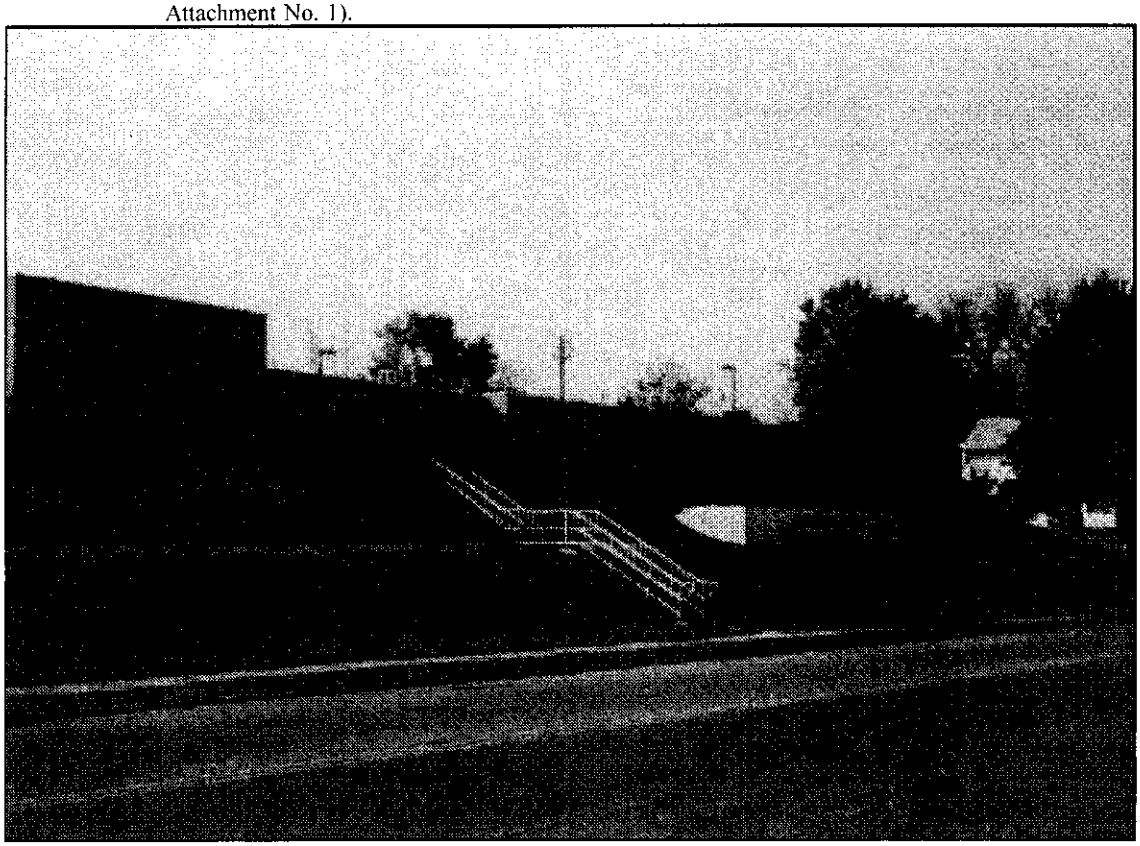


Figure 490. SFC Morgan Downs USARC Reserve Center, facing southwest.

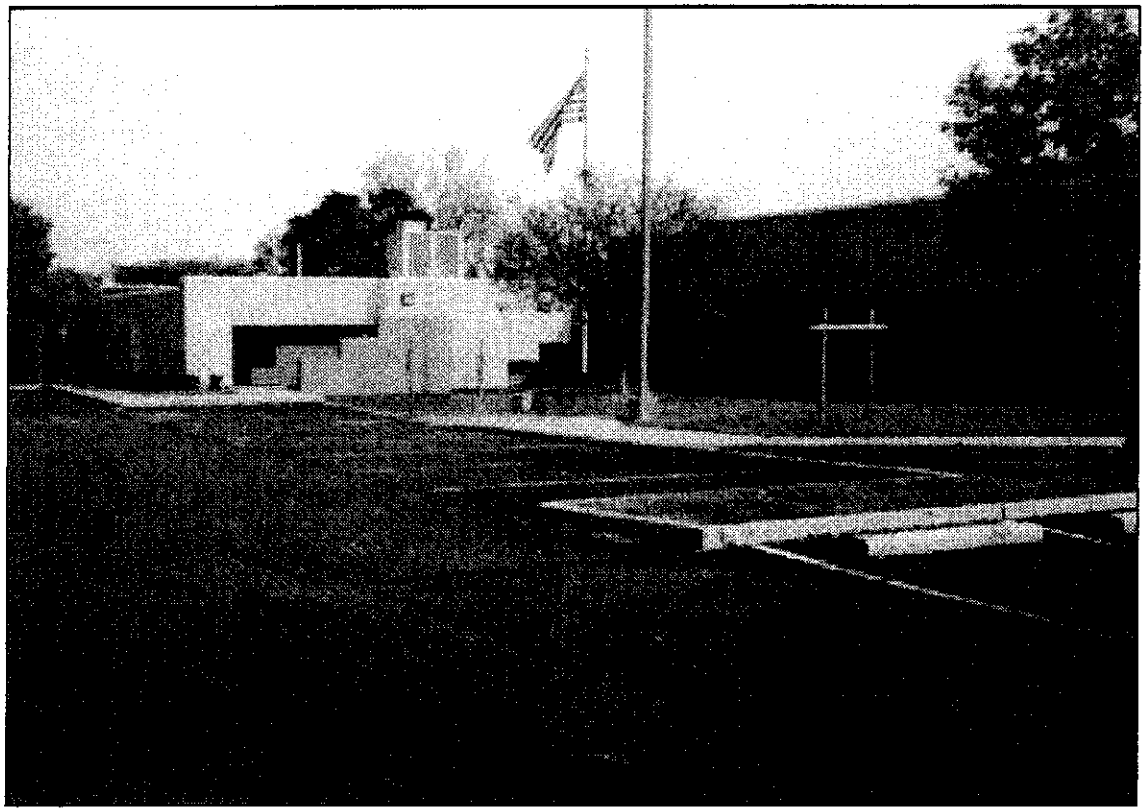


Figure 491. SFC Morgan Downs USARC Reserve Center, facing northeast.

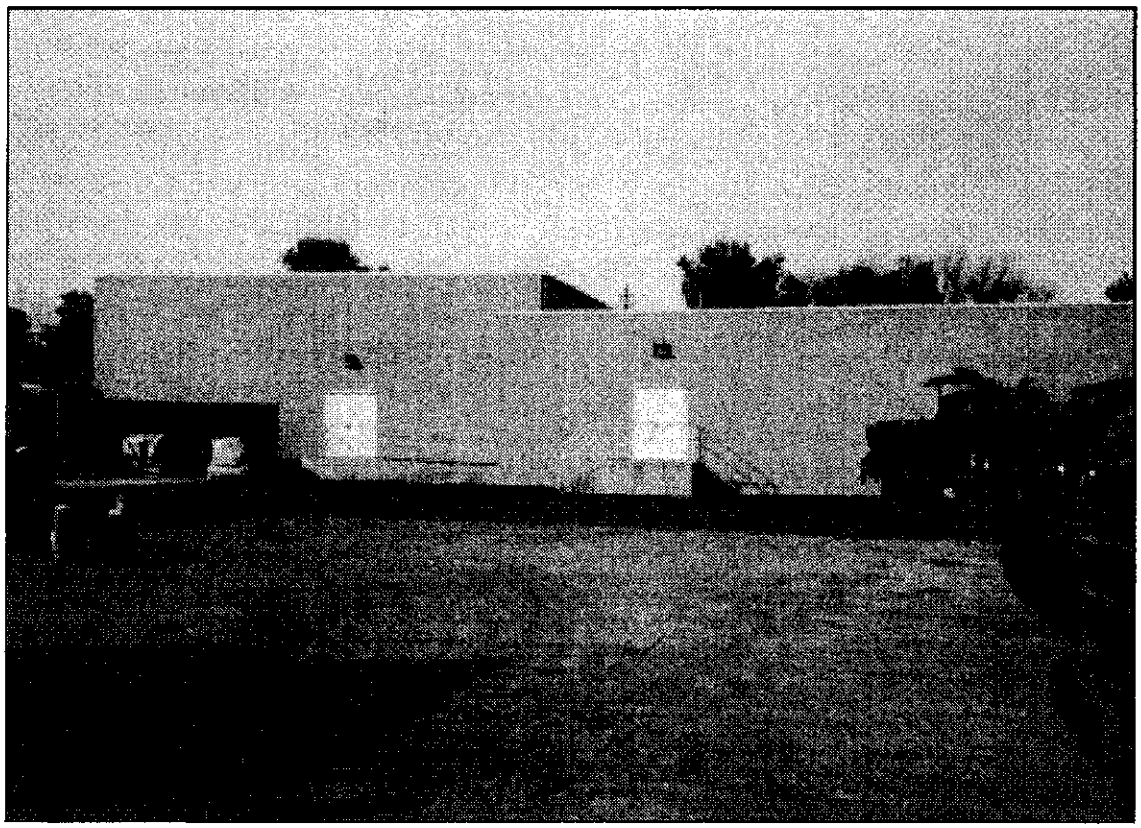


Figure 492. SFC Morgan Downs USARC Reserve Center, facing southwest.

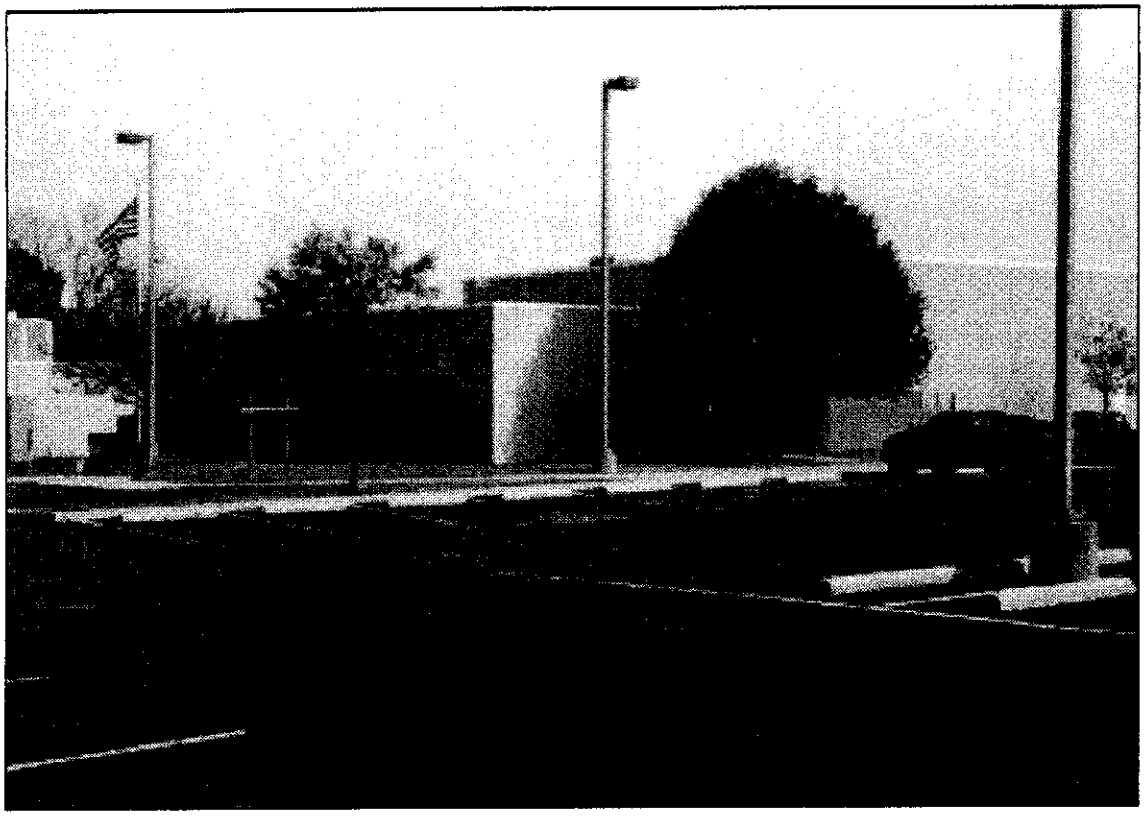


Figure 493. SFC Morgan Downs USARC Reserve Center, facing northeast.

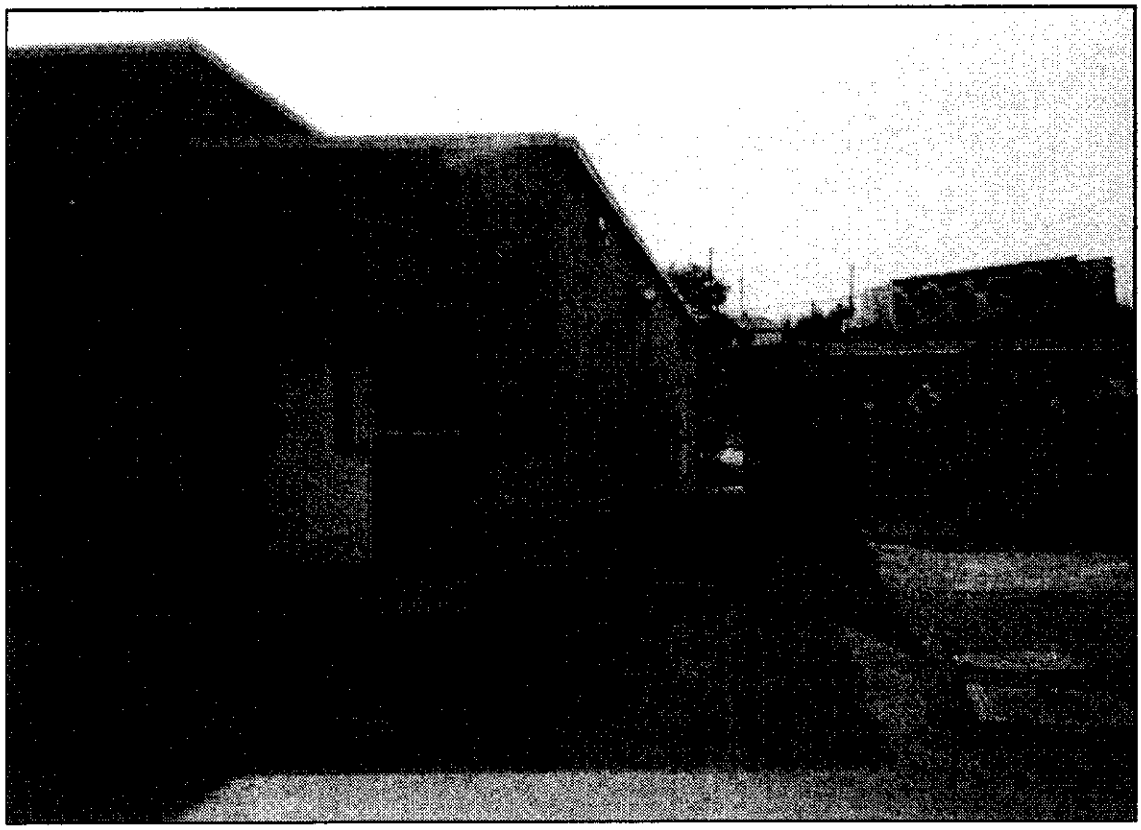


Figure 494. SFC Morgan Downs USARC Organizational Maintenance Shop, facing southeast.

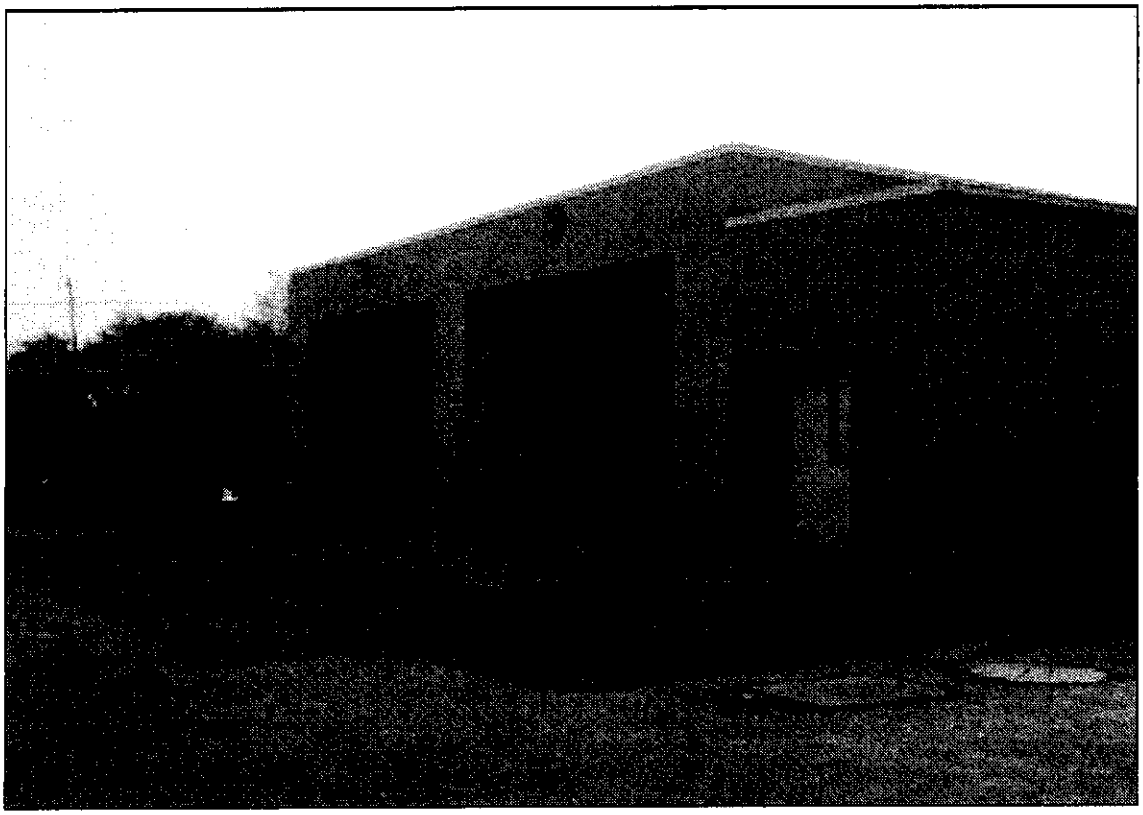


Figure 495. SFC Morgan Downs USARC Organizational Maintenance Shop, facing southeast.

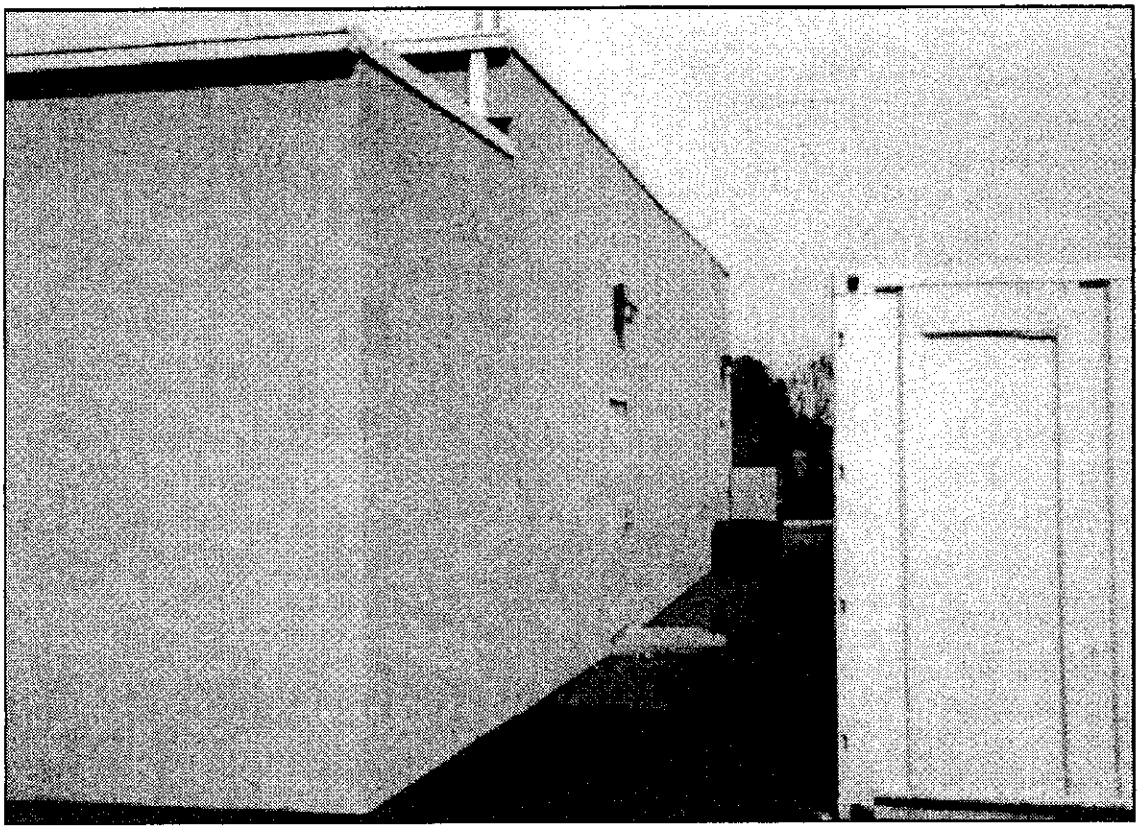


Figure 496. SFC Morgan Downs USARC Organizational Maintenance Shop, facing northwest.

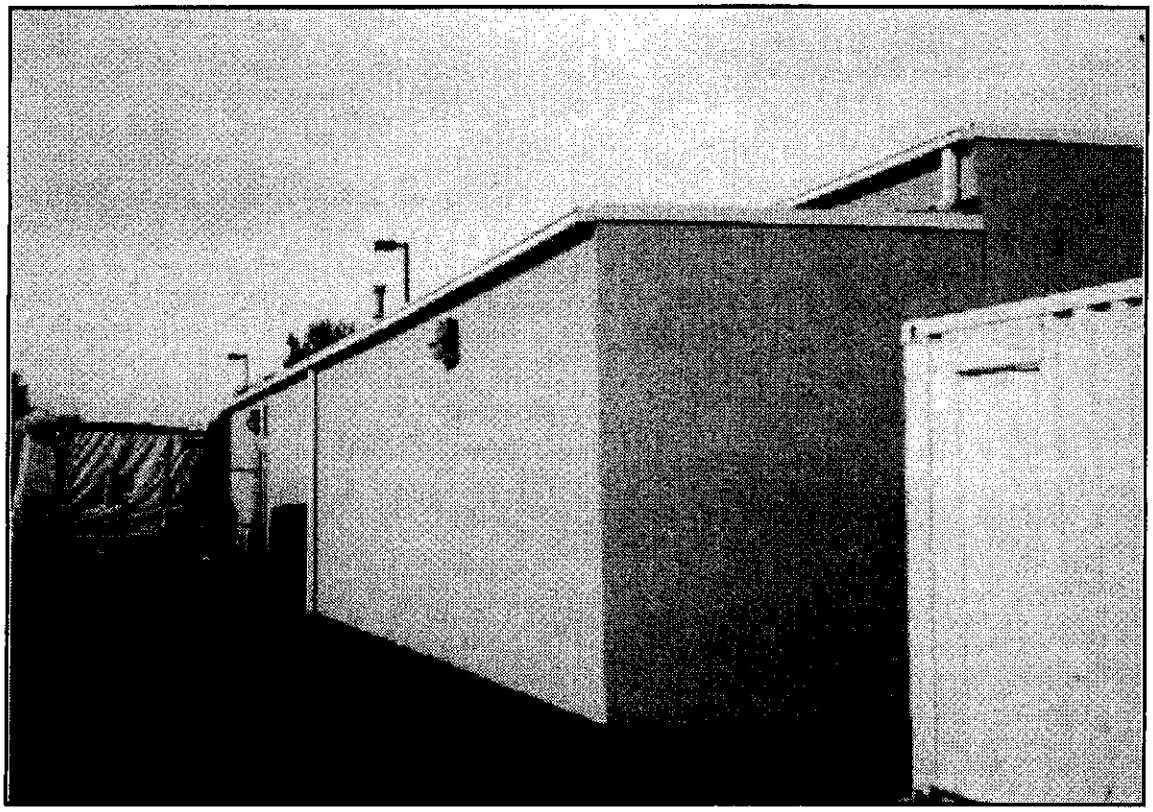


Figure 497. SFC Morgan Downs USARC Organizational Maintenance Shop, facing northwest.

ROOM SCHEDULE

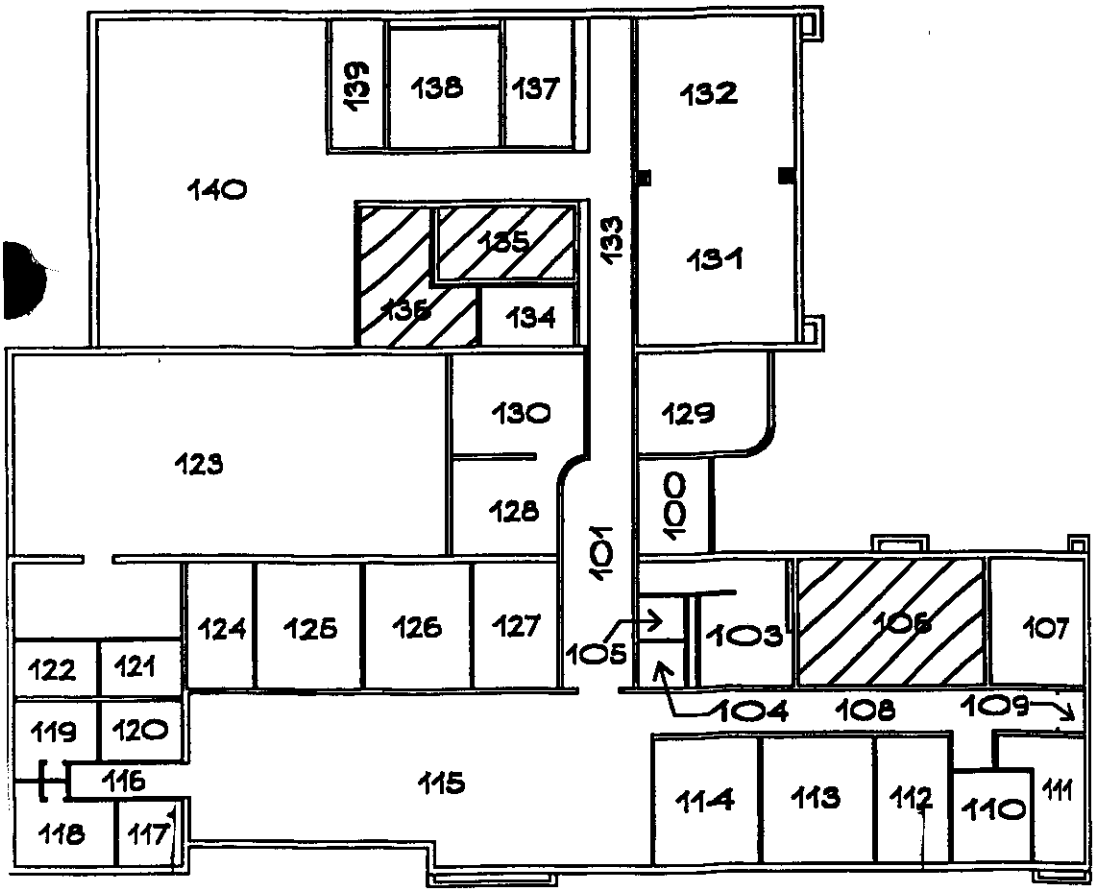
DOWNS USARC, SPRINGFIELD, OH

059

ROOM NUMBER	NET SQ.FT.	FLOOR TYPE
100	146	Tile
101	344	Tile
103	537	Tile
104	49	Tile
105	44	Concrete
106	NIC	
107	316	Tile
108	333	Tile
109	36	Tile
110	138	Carpet
111	229	Carpet
112	217	Tile
113	302	Tile
114	253	Tile
115	1629	Tile
116	93	Tile
117	103	Carpet
118	161	Carpet
119	115	Tile
120	105	Tile
121	106	Tile
122	108	Tile
123	640	Concrete
124	200	Tile
125	291	Tile
126	291	Tile
127	244	Tile
128	219	Tile
129	266	Tile
130	302	Tile
131	536	Tile
132	536	Tile
133	430	Tile
134	123	Tile
135	NIC	
136	NIC	
137	189	Tile
138	288	Tile
139	132	Tile
140	1772	Tile
TOTAL	11,823	

NIC = NOT IN CONTRACT

16 July 1997



NO CUSTODIAL REQUIRED

NORTH

CUSTODIAL SERVICE
DOWNS USARC
1515 WEST HIGH STREET
SPRINGFIELD, OH
16 JUL 97

U.S. ARMY RESERVE 88TH REGIONAL READINESS COMMAND NATURAL RESOURCES FACT SHEET

Facility Location Information			
FACID: OH059	**INSNO:** 39955	**State:** Ohio	**USGS Quad:** Springfield
Facility Name: SFC Morgan L. Downs USARC/AMSA 58		**County:** Clark	**Land Survey:** T9N R4E
Type of Facility: USARC/AMSA	**Address:** 1515 West High St.		**Acreage Calc.:** 2.97 **Real:** 3.00
Facility POC: Billy O'Neal	**City/State/Zip:** Springfield, OH 45506		**Phone:** 937-322-1297 x4
Ownership: The 88th RRC owns the land and 2 buildings that compose OH059			**Survey Date:** None

Land Use	
On-site Land Use:	90% improved areas including paved parking and buildings. Remaining 10% is maintained grass areas.
Surrounding Land Use:	North and west – residential, east – highway, and south - institutional.
Geologic Resources	
Physiographic Province:	Till Plain
State Region:	Western
Geologic Formation:	Silurian
Soil Region:	Miamian – Kokomo – Eldean, with Eldean-Urban land complex mapping unit
Topography:	Relatively flat site at 970-980 ft AMSL.
Water Resources	
Watershed:	Great Miami River/Ohio River
Floodplains:	No data available
On-Site Surface Water:	None
Off-site Surface Water:	None
Biological Resources	
Vegetation Communities/Land Cover:	No natural vegetation communities on-site.
On-site Wetlands:	None according to OWI and NWI data.
Off-site Wetlands:	None according to OWI and NWI data.
On-site Rare Species:	None according to ODNR.
On-site Potential Rare Species Habitat:	Low potential for on-site rare species due to lack of natural areas.
Off-site Rare Species:	None
Federally Listed Species in County:	Indiana bat (E), eastern prairie fringed orchid (T), and eastern massasauga (C)
Other Sensitive Resources	
On-site Resources:	None
Off-site Resources:	None

Notes: FACID-Facility ID, INSNO-Installation Number, E-federal endangered, T-federal threatened, C-federal candidate, Acreage Calc.-value calculated in GIS, Real-value given in The Real Property Detail Report.

OH059 Facility Map
SFC Morgan L Downs USARC

88th Regional Readiness Command
Springfield, Ohio
Clark County

Legend

- Buildings
- Facility Boundary

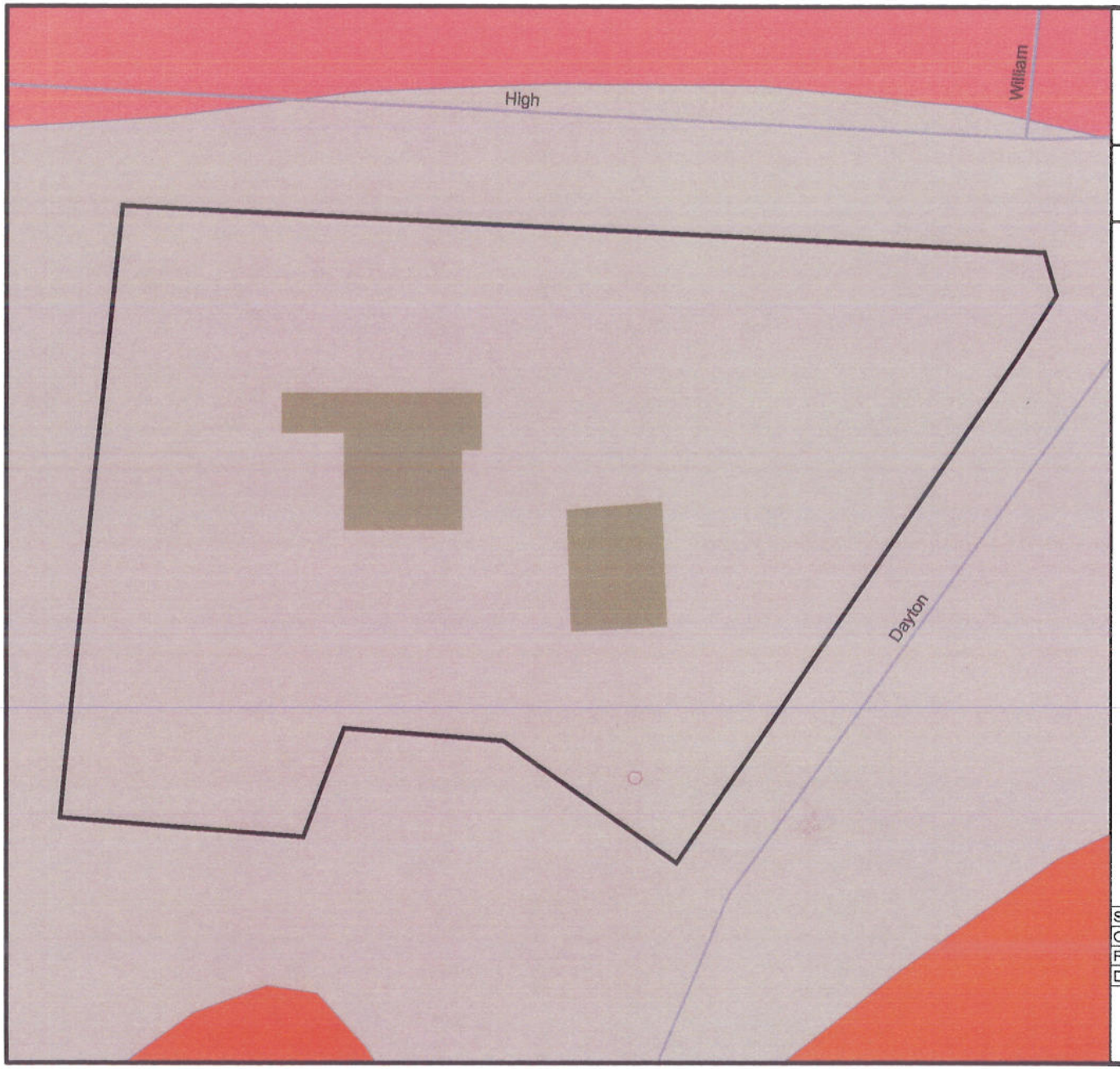
Data Sources:
Facility--88th RRC Facility Boundary Drawings
Buildings--USGS Orthophoto, DOQQ 1996
Streets--TIGER Data 2000
Streams and Lakes--USGS, NHD
Wetlands--USFWS, NWI
Wetlands--Ohio DNR OWI
Flood Zones--FEMA Q3

N
W
E
S

0 100 200 400 600 800
Feet

Scale:	1:4,800
Created By:	Parsons
File:	OH059_Facility.mxd
Date:	3/2005

PARSONS



OH059 Soils Map
SFC Morgan L Downs
USARC

88th Regional Readiness Command
Springfield, Ohio
Clark County

Legend

- Streets
- Facility
- Building

Soils

- Eldean-Urban land complex (2-6% Slopes)
- Eldean-Urban land complex (6-12% Slopes)
- Miamian-Urban Land Complex

Data Sources:
Facility--88th RRC Facility Boundary Drawings
Buildings--USGS Orthophoto, DOQQ 1996
Soils--Ohio DNR 11/15/79
Streets--TIGER Data 2000

N
W E
S

0 25 50 100 150
Feet

Scale:	1:1000
Created By:	Parsons
File:	Springfield_Soils.mxd
Date:	9/24/03

PARSONS

OH059 Land Cover Map
SFC Morgan L Downs
USARC

88th Regional Readiness Command
Springfield, Ohio
Clark County

Legend

Facility Boundary

Land Cover

Buildings

Maintained Grass

Paved Road/Parking

Data Sources:
Facility--88th RRC Facility Boundary Drawings
Buildings--USGS Orthophoto, DOQQ 1996
Streets--TIGER Data 2000
Streams and Lakes--USGS, NHD
Wetlands--USFWS, NWI
Wetlands--Ohio DNR OWI
Flood Zones--FEMA Q3

N
W
E
S

0 50 100 200 300 400
Feet

Scale:	1:2,400
Created By:	Parsons
File:	OH059_LandCover.mxd
Date:	3/2005

PARSONS

Appendix E

Regulatory Database Search Reports

The EDR Radius Map
with GeoCheck®

SFC M. L. Downs USARC/AMSA 58
1515 W. HIGH STREET
SPRINGFIELD, OH 45506

Inquiry Number: 01714247.86r

July 12, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

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Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
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Physical Setting Source Records Searched	A-14

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

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

1515 W. HIGH STREET
SPRINGFIELD, OH 45506

COORDINATES

Latitude (North):	39.924900 - 39° 55' 29.6''
Longitude (West):	83.835600 - 83° 50' 8.2''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	257665.1
UTM Y (Meters):	4423062.5
Elevation:	979 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	39083-H7 SPRINGFIELD, OH
Most Recent Revision:	1981

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following government records. For more information on this property see page 6 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
US ARC DOWNS 1515 W HIGH ST SPRINGFIELD, OH 45506	RCRA-SQG FINDS	OH5210490525

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
Delisted NPL ---------- National Priority List Deletions

EXECUTIVE SUMMARY

NPL RECOVERY Federal Superfund Liens
CORRACTS Corrective Action Report
ERNS Emergency Response Notification System
HMIRS Hazardous Materials Information Reporting System
US ENG CONTROLS Engineering Controls Sites List
US INST CONTROL Sites with Institutional Controls
DOD Department of Defense Sites
FUDS Formerly Used Defense Sites
CONSENT Superfund (CERCLA) Consent Decrees
ROD Records Of Decision
UMTRA Uranium Mill Tailings Sites
ODI Open Dump Inventory
TRIS Toxic Chemical Release Inventory System
TSCA Toxic Substances Control Act
FTTS FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS Section 7 Tracking Systems
ICIS Integrated Compliance Information System
PADS PCB Activity Database System
MLTS Material Licensing Tracking System
MINES Mines Master Index File
RAATS RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

SHWS This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.
TOWNGAS DERR Towngas Database
SWF/LF Licensed Solid Waste Facilities
HIST LF Old Solid Waste Landfill
UNREG LTANKS Ohio Leaking UST File
ARCHIVE UST Archived Underground Storage Tank Sites
OH Spills Emergency Response Database
ENG CONTROLS Sites with Engineering Controls
INST CONTROL Sites with Institutional Engineering Controls
DRYCLEANERS Drycleaner Facility Listing
BROWNFIELDS Ohio Brownfield Inventory
CDL Clandestine Drug Lab Locations
NPDES NPDES General Permit List
USD Urban Setting Designation Sites
HIST INST CONTROLS Institutional Controls Database
HIST ENG CONTROLS Operation & Maintenance Agreements Database
HIST USD Urban Setting Designations Database

TRIBAL RECORDS

INDIAN RESERV Indian Reservations

EDR PROPRIETARY RECORDS

EDR Historical Auto Stations EDR Proprietary Historic Gas Stations
EDR Historical Cleaners EDR Proprietary Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

EXECUTIVE SUMMARY

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

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

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

FEDERAL RECORDS

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 02/01/2006 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
SPRINGFIELD ARMATURE WORKS	***1514 WEST MAIN STREET***	***0 - 1/8 NNW***	***A4***	***7***

CERCLIS-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 02/01/2006 has revealed that there is 1 CERC-NFRAP site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
MOYNO INC	***1895 W JEFFERSON AVE***	***1/4 - 1/2 WSW***	***D19***	***15***

RCRAInfo: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System(RCRIS). The database 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). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month Large quantity generators generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-TSDF list, as provided by EDR, and dated 03/09/2006 has revealed that there is 1

RCRA-TSDF site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
MOYNO INC	*1895 W JEFFERSON AVE*	*1/4 - 1/2 WSW*	*D19*	*15*

RCRAInfo: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System(RCRIS). The database 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). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month Large quantity generators generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/09/2006 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
GLASGO PLASTICS INC	*34 N ISABELLA AVE*	*1/8 - 1/4 ENE*	*10*	*10*

RCRAInfo: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System(RCRIS). The database 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). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month Large quantity generators generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/09/2006 has revealed that there are 5 RCRA-SQG sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
PARKER SWEEPER CO	*91-99 BECHTLE AVENUE*	*0 - 1/8 E*	*2*	*6*
DYNEX INDUSTRIES INC	*1422 W MAIN ST*	*0 - 1/8 NE*	*B6*	*8*
ZIEBART	*1602 W MAIN ST*	*0 - 1/8 NW*	*7*	*9*
ACE BODY SHOP	*1405 W MAIN ST*	*0 - 1/8 ENE*	*B8*	*9*
MOORES PBE INC	*1721 W MAIN ST*	*1/8 - 1/4 WNW*	*9*	*10*

US BROWNFIELDS: The EPA's listing of Brownfields properites addressed by Cooperative Agreement Recipients and Brownfields properties addressed by Targeted Brownfields Assessments

A review of the US BROWNFIELDS list, as provided by EDR, and dated 04/26/2006 has revealed that there is 1 US BROWNFIELDS site within approximately 0.5 miles of the target property.

EXECUTIVE SUMMARY

Lower Elevation	Address	Dist / Dir	Map ID	Page
FORMER SPECO PLANT	1205 WEST COLUMBIA STRE	1/4 - 1/2 NE	C14	12

STATE AND LOCAL RECORDS

DERR: The DERR database is an index of sites for which Ohio EPA maintains files. It includes sites with known or suspected contamination, but a site's inclusion in the database does not mean that it is now or has ever been contaminated.

A review of the DERR list, as provided by EDR, and dated 03/14/2006 has revealed that there are 3 DERR sites within approximately 1 mile of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
SPRINGFIELD ARMATURE WORKS	***1514 W MAIN ST***	***0 - 1/8 NNW***	***A3***	***7***
SPECO KELSEY-HAYES MFG FAC	***1205 W COLUMBIA ST***	***1/4 - 1/2 NE***	***C15***	***13***
Activity: COF, VAP				
ROBBINS & MYERS INC	***1895 W JEFFERSON AVE***	***1/4 - 1/2 WSW***	***D18***	***14***

OH MSL: Ohio EPA no longer maintains or publishes the MSL, which was a list of sites with known or suspected contamination. Please be advised that this report does not constitute a determination that any site identified in the report is or may be contaminated.

A review of the MSL list, as provided by EDR, and dated 03/01/1999 has revealed that there is 1 MSL site within approximately 1 mile of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
SPRINGFIELD ARMATURE WORKS	***1514 W MAIN ST***	***0 - 1/8 NNW***	***A3***	***7***

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come 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 03/15/2006 has revealed that there are 13 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
PEPSI-COLA BOTTLERS OF SPRINGF	233 DAYTON AVE	0 - 1/8 SSW	5	8
Facility Status: Inactive FR Status: No Further Action letter issued				
Facility Status: Inactive FR Status: No Further Action letter issued				

Lower Elevation	Address	Dist / Dir	Map ID	Page
R & R TAKMAR OPERATIONS INC	***1533 W NORTH ST***	***1/8 - 1/4 N***	***11***	***11***
Facility Status: Inactive FR Status: No Further Action letter issued				
WELLS 76	1721 W NORTH ST	1/4 - 1/2 NNW	12	12
Facility Status: Active FR Status: Tier 2				
KELSEY HAYS/SPECO DEM SITE	1205 W COLUMBIA ST	1/4 - 1/2 NE	C13	12
Facility Status: Active FR Status: No Further Action letter issued				

EXECUTIVE SUMMARY

Lower Elevation	Address	Dist / Dir	Map ID	Page
SPEEDWAY #1155	1301 W NORTH ST	1/4 - 1/2 NE	16	13
Facility Status: Active FR Status: A Release is Disproved				
Facility Status: Active FR Status: A Release is Disproved				
REWEY RENT A CAR	1821 W NORTH ST	1/4 - 1/2 NW	17	14
Facility Status: Inactive FR Status: No Further Action letter issued				
ROBBINS & MYERS INC	***1895 W JEFFERSON AVE***	***1/4 - 1/2 WSW***	***D18***	***14***
Facility Status: Inactive FR Status: No Further Action letter issued				
SPEEDWAY #8916	***1241 W NORTH STREET***	***1/4 - 1/2 NE***	***20***	***23***
Facility Status: Inactive FR Status: A Release is Disproved				
FORMER MARATHON	1875 W NORTH	1/4 - 1/2 NW	21	24
Facility Status: Inactive FR Status: No Further Action letter issued				
W.A. STEVENS	125 S WALTER ST	1/4 - 1/2 W	22	24
Facility Status: Inactive FR Status: No Further Action letter issued				
FORMER BONDED BULK PLT 1098	2000 W JEFFERSON ST	1/4 - 1/2 WSW	23	24
Facility Status: Inactive FR Status: No Further Action letter issued				
COLUMBIA GAS OF OHIO, INC.	2101 W MAIN ST	1/4 - 1/2 WNW	E25	25
Facility Status: Active FR Status: Tier 2				
BP OIL CO. #22797	***2112 W MAIN ST***	***1/4 - 1/2 WNW***	***E26***	***25***
Facility Status: Active FR Status: No Further Action letter issued				
Facility Status: Active FR Status: Tier 2				

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 come 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 03/15/2006 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
R & R TAKMAR OPERATIONS INC	***1533 W NORTH ST***	***1/8 - 1/4 N***	***11***	***11***

VCP: Ohio EPA, Voluntary Action Program Sites.

A review of the VCP list, as provided by EDR, and dated 03/06/2006 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
SPECO KELSEY-HAYES MFG FAC	***1205 W COLUMBIA ST***	***1/4 - 1/2 NE***	***C15***	***13***

EDR PROPRIETARY RECORDS

EDR Manufactured Gas Plants: The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States

from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

A review of the Manufactured Gas Plants list, as provided by EDR, has revealed that there is 1 Manufactured Gas Plants site within approximately 1 mile of the target property.

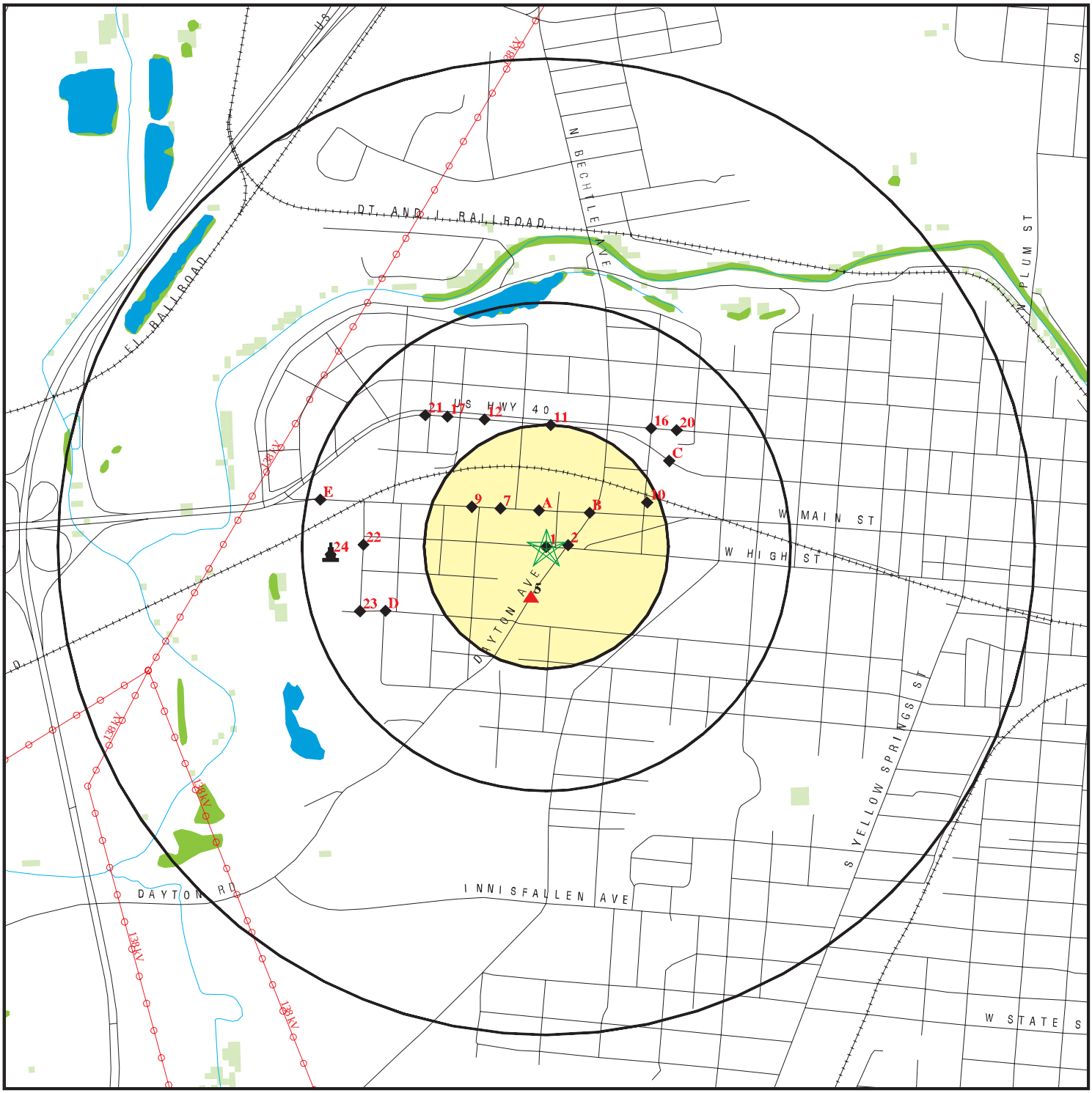
Lower Elevation	Address	Dist / Dir	Map ID	Page
SPRINGFIELD GAS CO	SWC WALTER AND W. HIGH	1/4 - 1/2 W	24	25

EXECUTIVE SUMMARY

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

Site Name	Database(s)
DAYTON ROAD LANDFILL	DERR, MSL
WAL-MART SUPERCENTER #2429	RCRA-SQG
M H S SUPPLY CO	OH Spills
R & M / PLANT #5	OH Spills
M&K HUFFORD	OH Spills
BUCK CREEK DEVELOPMENT AREA	DERR

OVERVIEW MAP - 01714247.86r



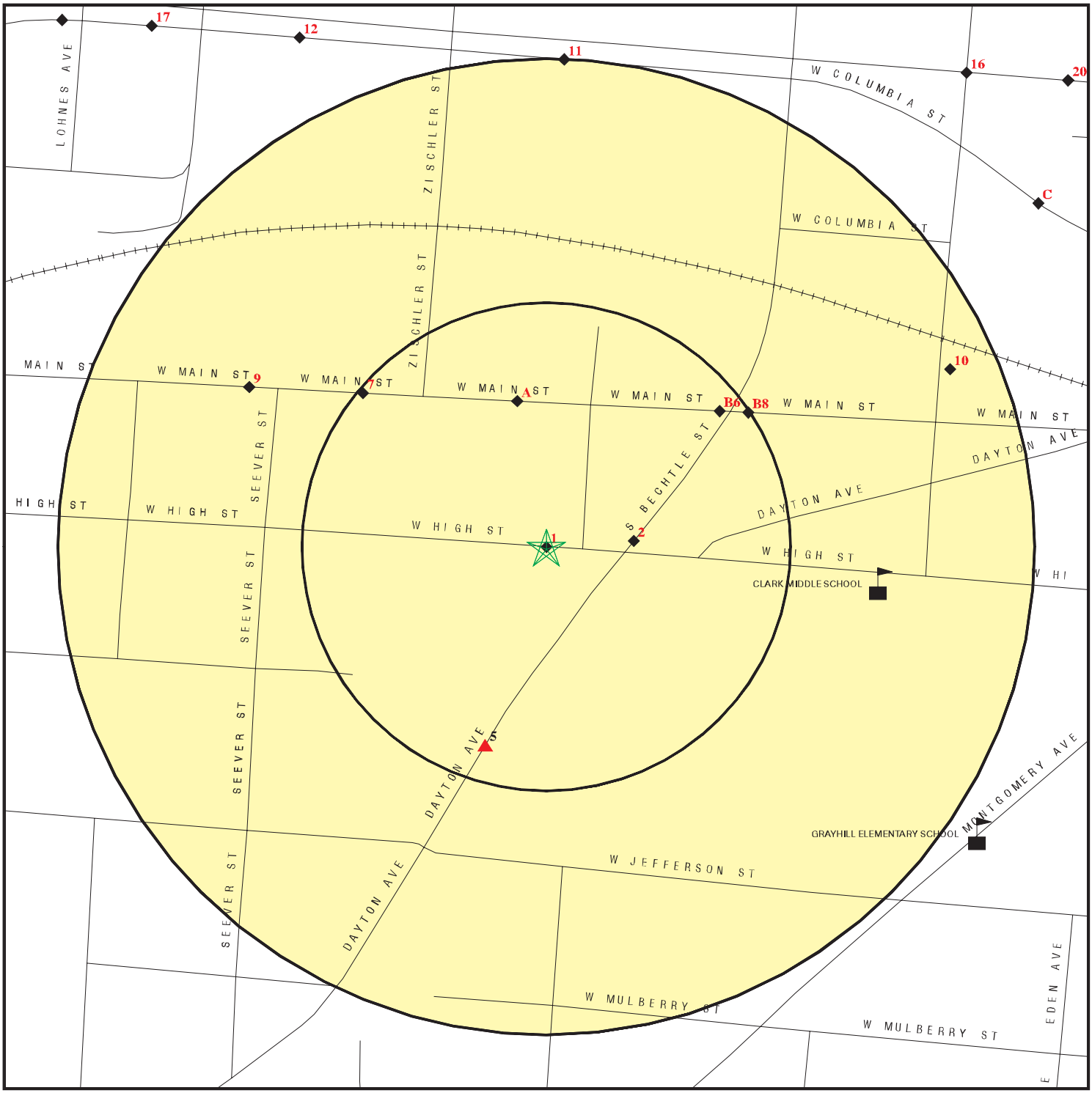
0 1/4 1/2 1 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Oil & Gas pipelines
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: SFC M. L. Downs USARC/AMSA 58 ADDRESS: 1515 W. HIGH STREET SPRINGFIELD OH 45506 LAT/LONG: 39.9249 / 83.8356	CLIENT: CH2M Hill CONTACT: Mary Beth Jacques INQUIRY #: 01714247.86r DATE: July 12, 2006

DETAIL MAP - 01714247.86r



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: SFC M. L. Downs USARC/AMSA 58	CLIENT: CH2M Hill
ADDRESS: 1515 W. HIGH STREET SPRINGFIELD OH 45506	CONTACT: Mary Beth Jacques
LAT/LONG: 39.9249 / 83.8356	INQUIRY #: 01714247.86r DATE: July 12, 2006

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FEDERAL RECORDS								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL RECOVERY		TP	NR	NR	NR	NR	NR	0
CERCLIS		0.500	1	0	0	NR	NR	1
CERC-NFRAP		0.500	0	0	1	NR	NR	1
CORRACTS		1.000	0	0	0	0	NR	0
RCRA TSD		0.500	0	0	1	NR	NR	1
RCRA Lg. Quan. Gen.		0.250	0	1	NR	NR	NR	1
RCRA Sm. Quan. Gen.	X	0.250	4	1	NR	NR	NR	5
ERNS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	1	NR	NR	1
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS	X	TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
STATE AND LOCAL RECORDS								
State Haz. Waste		N/A	N/A	N/A	N/A	N/A	N/A	N/A
DERR		1.000	1	0	2	0	NR	3
TOWNGAS		1.000	0	0	0	0	NR	0
MSL		1.000	1	0	0	0	NR	1
State Landfill		0.500	0	0	0	NR	NR	0
HIST LF		0.500	0	0	0	NR	NR	0
LUST		0.500	1	1	11	NR	NR	13
UNREG LTANKS		0.500	0	0	0	NR	NR	0
UST		0.250	0	1	NR	NR	NR	1
ARCHIVE UST		0.250	0	0	NR	NR	NR	0
OH Spills		TP	NR	NR	NR	NR	NR	0
ENG CONTROLS		0.500	0	0	0	NR	NR	0
INST CONTROL		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	1	NR	NR	1

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
BROWNFIELDS		0.500	0	0	0	NR	NR	0
CDL		TP	NR	NR	NR	NR	NR	0
NPDES		TP	NR	NR	NR	NR	NR	0
USD		0.500	0	0	0	NR	NR	0
HIST INST CONTROLS		0.500	0	0	0	NR	NR	0
HIST ENG CONTROLS		0.500	0	0	0	NR	NR	0
HIST USD		0.500	0	0	0	NR	NR	0
TRIBAL RECORDS								
INDIAN RESERV		1.000	0	0	0	0	NR	0
EDR PROPRIETARY RECORDS								
Manufactured Gas Plants		1.000	0	0	1	0	NR	1
EDR Historical Auto Stations		TP	NR	NR	NR	NR	NR	0
EDR Historical Cleaners		TP	NR	NR	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

N/A = This State does not maintain a SHWS list. See the Federal CERCLIS list.

1
Target
Property

US ARC DOWNS
1515 W HIGH ST
SPRINGFIELD, OH 45506

RCRA-SQG
FINDS

1000834441
OH5210490525

Actual:
978 ft.

RCRAInfo:
Owner: 83D ARCOM HQ
(614) 692-1936
EPA ID: OH5210490525

Contact: BILLY ONEAL
(513) 322-1296

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

2
East
< 1/8
237 ft.

PARKER SWEEPER CO
91-99 BECHTLE AVENUE
SPRINGFIELD, OH 45501

RCRA-SQG
FINDS

1000269078
OHD004280467

Relative:
Lower

Actual:
975 ft.

RCRAInfo:
Owner: NAME NOT REPORTED
(312) 555-1212
EPA ID: OHD004280467

Contact: LINDELL PETERSON
(513) 323-4901

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

A3 **SPRINGFIELD ARMATURE WORKS** **DERR** **S101871683**
NNW **1514 W MAIN ST** **MSL** **N/A**
< 1/8 **SPRINGFIELD, OH 45504**
402 ft.

Site 1 of 2 in cluster A

Relative:
Lower

Actual:
956 ft.

OH MSL:
Facility ID: 512-1504
EPA ID: OHD000127694
Lat/Long: 39 55 35 / 83 50 08
Facility Type: None

DERR:
Facility Id: 512001504
EPA Id: OH0001276948
Lat/Long: 39.92638889 / -83.83555556
Alias: Not reported
District: SWDO
Activity: Not reported
Site Info: 937-285-6357

A4 **SPRINGFIELD ARMATURE WORKS** **CERCLIS** **1001032363**
NNW **1514 WEST MAIN STREET** **FINDS** **OH0001276948**
< 1/8 **SPRINGFIELD, OH 45504**
402 ft.

Site 2 of 2 in cluster A

Relative:
Lower

Actual:
956 ft.

CERCLIS Classification Data:
Federal Facility: Not a Federal Facility
Non NPL Status: Referred to Removal - NFRAP
NPL Status: Not on the NPL
Site Description: Springield Armature Works operated from 1973 to 1980. In 1980, the Scherer Industrial Group purchased Springfield Armature Works and continued operations until February 1985. Operations that occurred at the facility during the years of operation c onsisted of disassembling, cleaning, overhauling, and reassembling used electrical armatures.

CERCLIS Assessment History:

Assessment:	DISCOVERY	Completed:	09/22/1995
Assessment:	INTEGRATED ASSESSMENT	Completed:	09/30/1996
Assessment:	SITE INSPECTION	Completed:	09/30/1996
Assessment:	PRELIMINARY ASSESSMENT	Completed:	09/30/1996
Assessment:	NON-NPL PRP SEARCH	Completed:	07/31/1998
Assessment:	ADMIN ORDER ON CONSENT	Completed:	07/31/1998
Assessment:	PRP REMOVAL	Completed:	09/07/1999
Assessment:	EXPANDED SITE INSPECTION	Completed:	09/11/2002

CERCLIS Site Status:
NFRAP (No Futher Remedial Action Planned

FINDS:
Other Pertinent Environmental Activity Identified at Site:
CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include: Incident Tracking, Compliance Assistance, and Compliance Monitoring.

5
SSW
< 1/8
561 ft.

PEPSI-COLA BOTTLERS OF SPRINGFIE
233 DAYTON AVE
SPRINGFIELD, OH 45506

LUST

S101559926
N/A

Relative:
Higher

Actual:
1011 ft.

LUST:
Owner: GENERAL CINEMA BEVERAGES OF SPNG
LTF Status: 6 Closure of regulated UST
Release Number: 12003464-N00001
Owner Address: 233 DAYTON AVE
SPRINGFIELD, OH 45506
Facility Status: Inactive
FR Status: No Further Action letter issued
Old Facility Id: 123464
Former Lust Release Number: 120265600.0
Release Date: Not reported

Owner: GENERAL CINEMA BEVERAGES OF SPNG
LTF Status: 6 Closure of regulated UST
Release Number: 12003464-N00002
Owner Address: 233 DAYTON AVE
SPRINGFIELD, OH 45506
Facility Status: Inactive
FR Status: No Further Action letter issued
Old Facility Id: 123464
Former Lust Release Number: 120265601.0
Release Date: Not reported

B6
NE
< 1/8
595 ft.

DYNEX INDUSTRIES INC
1422 W MAIN ST
SPRINGFIELD, OH 45504

RCRA-SQG
FINDS

1000834250
OHD987050986

Site 1 of 2 in cluster B

Relative:
Lower

Actual:
963 ft.

RCRAInfo:
Owner: WILLIAMS PAT
(513) 325-1147
EPA ID: OHD987050986

Contact: KEITH GOVRO
(800) 733-9639

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

7
NW
< 1/8
647 ft.

Relative:
Lower

Actual:
951 ft.

ZIEBART
1602 W MAIN ST
SPRINGFIELD, OH 45504

RCRA-SQG
FINDS

1000161966
OHD004793618

RCRAInfo:
Owner: MARSHALL DAVID S
(312) 555-1212
EPA ID: OHD004793618
Contact: THOMAS STERRET
(614) 863-1766
Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

B8
ENE
< 1/8
655 ft.

Site 2 of 2 in cluster B

Relative:
Lower

Actual:
963 ft.

ACE BODY SHOP
1405 W MAIN ST
SPRINGFIELD, OH 45504

RCRA-SQG
FINDS

1004767243
OHR000032185

RCRAInfo:
Owner: ED COGAR
(937) 323-3267
EPA ID: OHR000032185
Contact: ED COGAR
(937) 323-3267
Classification: Conditionally Exempt Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

9
WNW
1/8-1/4
912 ft.

MOORES PBE INC — **RCRA-SQG** **1004767279**
1721 W MAIN ST — **FINDS** **OHR000033456**
SPRINGFIELD, OH 45504

Relative:
Lower

Actual:
950 ft.

RCRAInfo:
Owner: MOORES PBE INC
(937) 223-9185
EPA ID: OHR000033456
Contact: CURTIS BUMGARNER
(937) 322-5417
Classification: Conditionally Exempt Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

10
ENE
1/8-1/4
1192 ft.

GLASGO PLASTICS INC — **FINDS** **1000381064**
34 N ISABELLA AVE — **RCRA-LQG** **OHD042314716**
SPRINGFIELD, OH 45505

Relative:
Lower

Actual:
959 ft.

RCRAInfo:
Owner: NAME NOT REPORTED
(312) 555-1212
EPA ID: OHD042314716
Contact: WILLIAM TILLMAN
(513) 325-3502
Classification: Large Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

GLASGO PLASTICS INC (Continued) **1000381064**

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

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11 **R & R TAKMAR OPERATIONS INC** **LUST U000889886**
North **1533 W NORTH ST** **UST N/A**
1/8-1/4 **SPRINGFIELD, OH 45501**
1319 ft.

Relative:
Lower

Actual:
947 ft.

LUST:
Owner: RANDY SINGH
LTF Status: 1 SUS/CON from regulated UST
Release Number: 12000025-N00001
Owner Address: 7851 OLD TROY PK
DAYTON, OH 45424
Facility Status: Inactive
FR Status: No Further Action letter issued
Old Facility Id: 120025
Former Lust Release Number: 127126100.0
Release Date: Not reported

UST:

Facility ID:	12000025	Tank ID:	T00006
Owner:	HISSOWAL INC		
Owner Address:	7851 OLD TROY PK DAYTON, OH 45424		
Capacity:	11627	Tank Status:	Currently In Use
Install Date:	12/09/97		
Content:	Gasoline		
Tank Type:	Fiberglass Reinforced Plastic		

Facility ID:	12000025	Tank ID:	T00007
Owner:	HISSOWAL INC		
Owner Address:	7851 OLD TROY PK DAYTON, OH 45424		
Capacity:	9728	Tank Status:	Currently In Use
Install Date:	12/09/97		
Content:	Gasoline		
Tank Type:	Fiberglass Reinforced Plastic		

Facility ID:	12000025	Tank ID:	T00008
Owner:	HISSOWAL INC		
Owner Address:	7851 OLD TROY PK DAYTON, OH 45424		
Capacity:	5929	Tank Status:	Currently In Use
Install Date:	12/09/97		
Content:	Diesel		
Tank Type:	Fiberglass Reinforced Plastic		

R & R TAKMAR OPERATIONS INC (Continued) **U000889886**

Facility ID:	12000025	Tank ID:	T00009
Owner:	HISSOWAL INC		
Owner Address:	7851 OLD TROY PK DAYTON, OH 45424		
Capacity:	5929	Tank Status:	Currently In Use
Install Date:	12/09/97		
Content:	Kerosene		
Tank Type:	Fiberglass Reinforced Plastic		

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12 **WELLS 76** **LUST** **S104775034**
NNW **1721 W NORTH ST** **N/A**
1/4-1/2 **SPRINGFIELD, OH 45504**
1530 ft.

Relative:
Lower

Actual:
938 ft.

LUST:
Owner: RICHARD A. WELLS
LTF Status: 1 SUS/CON from regulated UST
Release Number: 12009661-N00001
Owner Address: 11898 COLLIN & ARBOGAST RD
SOUTH VIENNA, OH 45396
Facility Status: Active
FR Status: Tier 2
Old Facility Id: 129661
Former Lust Release Number: 12904900.0
Release Date: 1999-09-09 00:00:00

C13 **KELSEY HAYS/SPECO DEM SITE** **LUST** **S107454260**
NE **1205 W COLUMBIA ST** **N/A**
1/4-1/2 **SPRINGFIELD, OH 45504**
1622 ft.

Site 1 of 3 in cluster C

Relative:
Lower

Actual:
956 ft.

LUST:
Owner: Greg Chambers
LTF Status: 6 Closure of regulated UST
Release Number: 12010140-N00002
Owner Address: 76 E HIGH ST
SPRINGFIELD, OH 45502
Facility Status: Active
FR Status: No Further Action letter issued
Old Facility Id: Not reported
Former Lust Release Number: Not reported
Release Date: 2005-05-10 00:00:00

C14 **FORMER SPECO PLANT** **US BROWNFIELDS** **1007442658**
NE **1205 WEST COLUMBIA STREET** **N/A**
1/4-1/2 **SPRINGFIELD, OH 45505**
1622 ft.

Site 2 of 3 in cluster C

Relative:
Lower

Actual:
956 ft.

US BROWNFIELDS:
Pilot Name: Springfield, OH
EPA ID: Not reported
Latitude: Not reported
Longitude: Not reported
Assessment: Not reported

C15 **SPECO KELSEY-HAYES MFG FAC** **DERR** **S106687467**
NE **1205 W COLUMBIA ST** **VCP** **N/A**
1/4-1/2 **SPRINGFIELD, OH 45504**
1622 ft.

Site 3 of 3 in cluster C

Relative:
Lower

DERR:
Facility Id: 512002315
EPA Id: Not reported
Lat/Long: 39.926441 / -83.830003
Alias: Steel Products Engineering Co Property
District: SWDO
Activity: COF, VAP
Site Info: 937-285-6357

Actual:
956 ft.

OH VCP:
Facility ID: 512-2315-002
DERR ID: 512-2315
OH EPA District: SWDO
Program Area: VAP
Project Type: VAP MOA

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16 **SPEEDWAY #1155** **LUST** **S104409030**
NE **1301 W NORTH ST** **N/A**
1/4-1/2 **SPRINGFIELD, OH 45504**
1713 ft.

Relative:
Lower

LUST:
Owner: DANNY D. COFFEY
LTF Status: 1 SUS/CON from regulated UST
Release Number: 12000019-N00001
Owner Address: PO BOX 1500
SPRINGFIELD, OH 45501
Facility Status: Active
FR Status: A Release is Disproved
Old Facility Id: 120019
Former Lust Release Number: 122315200.0
Release Date: Not reported

Actual:
948 ft.

Owner: DANNY D. COFFEY
LTF Status: 1 SUS/CON from regulated UST
Release Number: 12000019-N00002
Owner Address: PO BOX 1500
SPRINGFIELD, OH 45501
Facility Status: Active
FR Status: A Release is Disproved
Old Facility Id: 120019
Former Lust Release Number: 122315201.0
Release Date: Not reported

Owner: DANNY D. COFFEY
LTF Status: 1 SUS/CON from regulated UST
Release Number: 12000019-N00003
Owner Address: PO BOX 1500
SPRINGFIELD, OH 45501
Facility Status: Active
FR Status: Corrective Actions in Progress
Old Facility Id: 120019
Former Lust Release Number: 122315202.0
Release Date: 1999-11-06 00:00:00

17
NW
1/4-1/2
1767 ft.

REWEY RENT A CAR
1821 W NORTH ST
SPRINGFIELD, OH 45504

LUST

S101559908
N/A

Relative:
Lower

Actual:
938 ft.

LUST:
Owner: REWEY RENT A CAR
LTF Status: 6 Closure of regulated UST
Release Number: 12010011-N00001
Owner Address: 1821 W NORTH ST
SPRINGFIELD, OH 45504
Facility Status: Inactive
FR Status: No Further Action letter issued
Old Facility Id: Not reported
Former Lust Release Number: 120068100.0
Release Date: Not reported

D18
WSW
1/4-1/2
1870 ft.

ROBBINS & MYERS INC
1895 W JEFFERSON AVE
SPRINGFIELD, OH 45501

LUST
OH Spills
DERR

S102519169
N/A

Site 1 of 2 in cluster D

Relative:
Lower

Actual:
952 ft.

LUST:
Owner: ROBBINS & MYERS INC
LTF Status: 1 SUS/CON from regulated UST
Release Number: 12010009-N00001
Owner Address: 1895 W JEFFERSON ST
SPRINGFIELD, OH 45501
Facility Status: Inactive
FR Status: No Further Action letter issued
Old Facility Id: Not reported
Former Lust Release Number: 120058000.0
Release Date: Not reported

SPILLS:
Spill Year : 2002
Spill Month : 9
Spill Number : 3569
Date Spill Reported : 09/07/02
Sequential Number : 0
Lat/Long : Not reported
Spill No. : 0209-12-3569
Reporter Name : SCOTT WILSON
Confidential : No
District Code : SW
Employee Number : Not reported
Product Spilled: CHROMIUM ACID

DERR:
Facility Id: 512001813
EPA Id: OHD079435897
Lat/Long: 39.922663 / -83.8416
Alias: Not reported
District: SWDO
Activity: Not reported
Site Info: 937-285-6357

D19
WSW
1/4-1/2
1870 ft.

Relative:
Lower

Actual:
952 ft.

MOYNO INC
1895 W JEFFERSON AVE
SPRINGFIELD, OH 45506

Site 2 of 2 in cluster D

Database(s): **FINDS, RCRA-LQG, TRIS, RCRA-TSDF, CERC-NFRAP, CT MANIFEST**

EDR ID Number: **1000842186**
EPA ID Number: **45506MYNPR18**

CERCLIS-NFRAP Classification Data:
Federal Facility: Not a Federal Facility
Non NPL Code: DR
NPL Status: Not on the NPL

CERCLIS-NFRAP Assessment History:
Assessment: DISCOVERY — Completed: 08/21/1991
Assessment: PRELIMINARY ASSESSMENT — Completed: 01/10/1992
Assessment: ARCHIVE SITE — Completed: 12/28/1995

RCRAInfo:
Owner: ROBBINS & MYERS INC
(513) 327-3211
EPA ID: OHD079435897

Contact: THOMAS QUIGLEY
(513) 327-3211

Classification: Large Quantity Generator, TSDF
TSDF Activities: Not reported

BIENNIAL REPORTS:
Last Biennial Reporting Year: 2003

Waste	Quantity (Lbs)	Waste	Quantity (Lbs)
D001	30437.37	D002	3700.00
D007	68900.71	D018	2204.37
D039	2204.37	D040	12098.37
F003	12033.00	F005	12033.00

Violation Status: Violations exist

Regulation Violated: 3745-66-42
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 11/17/2004
Actual Date Achieved Compliance: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/01/2004
Penalty Type: Not reported

Regulation Violated: 3745-52-41
Area of Violation: GENERATOR-RECORDKEEPING REQUIREMENTS
Date Violation Determined: 05/30/2003
Actual Date Achieved Compliance: 07/03/2003

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 05/30/2003
Penalty Type: Not reported

Regulation Violated: 3745-66-42
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 12/19/2002
Actual Date Achieved Compliance: 02/03/2003

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/30/2002
Penalty Type: Not reported

Regulation Violated: 3745-66-47

MOYNO INC (Continued) **1000842186**

Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 12/19/2002
Actual Date Achieved Compliance: 02/03/2003

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/30/2002
Penalty Type: Not reported

Regulation Violated: 3745-66-43
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 12/19/2002
Actual Date Achieved Compliance: 02/03/2003

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/30/2002
Penalty Type: Not reported

Regulation Violated: 3745-66-43
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 08/08/2001
Actual Date Achieved Compliance: 03/15/2002

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 08/08/2001
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/12/2001
Penalty Type: Not reported

Regulation Violated: 3745-66-47
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 08/08/2001
Actual Date Achieved Compliance: 03/15/2002

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 08/08/2001
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/12/2001
Penalty Type: Not reported

Regulation Violated: 3745-66-42
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 01/11/1994
Actual Date Achieved Compliance: 03/15/1994

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 01/20/1994
Penalty Type: Not reported

Regulation Violated: 3745-66-43
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 01/11/1994
Actual Date Achieved Compliance: 03/15/1994

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 01/20/1994
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 06/06/1991

MOYNO INC (Continued) **1000842186**

Actual Date Achieved Compliance: 06/25/1991

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/07/1991
Penalty Type: Not reported

Regulation Violated: 3745-65-56(D)(2)
Area of Violation: TSD-CONTINGENCY PLAN REQUREMENTS
Date Violation Determined: 06/13/1990
Actual Date Achieved Compliance: 08/28/1990

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/27/1990
Penalty Type: Not reported

Regulation Violated: 3745-65-53(B)
Area of Violation: TSD-CONTINGENCY PLAN REQUREMENTS
Date Violation Determined: 06/13/1990
Actual Date Achieved Compliance: 08/28/1990

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/27/1990
Penalty Type: Not reported

Regulation Violated: 3745-65-52
Area of Violation: TSD-CONTINGENCY PLAN REQUREMENTS
Date Violation Determined: 06/13/1990
Actual Date Achieved Compliance: 08/28/1990

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/27/1990
Penalty Type: Not reported

Regulation Violated: 3745-65-15(D)
Area of Violation: TSD-GENERAL STANDARDS
Date Violation Determined: 07/26/1988
Actual Date Achieved Compliance: 09/13/1988

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 07/29/1988
Penalty Type: Not reported

Regulation Violated: 3745-65-73
Area of Violation: TSD-MANIFEST REQUIREMENTS
Date Violation Determined: 07/26/1988
Actual Date Achieved Compliance: 09/13/1988

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 07/29/1988
Penalty Type: Not reported

Regulation Violated: PART A PERMIT
Area of Violation: GENERATOR-OTHER REQUIREMENTS
Date Violation Determined: 08/13/1987
Actual Date Achieved Compliance: 12/16/1987

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 08/17/1987
Penalty Type: Not reported

Regulation Violated: 3745-65-54(D)
Area of Violation: TSD-CONTINGENCY PLAN REQUREMENTS
Date Violation Determined: 08/13/1987
Actual Date Achieved Compliance: 12/16/1987

MOYNO INC (Continued) **1000842186**

Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	08/17/1987
Penalty Type:	Not reported
Regulation Violated:	3745-65-15
Area of Violation:	TSD-GENERAL STANDARDS
Date Violation Determined:	09/18/1986
Actual Date Achieved Compliance:	12/05/1986
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	09/24/1986
Penalty Type:	Not reported
Regulation Violated:	3745-52-20(B)
Area of Violation:	GENERATOR-MANIFEST REQUIREMENTS
Date Violation Determined:	09/18/1986
Actual Date Achieved Compliance:	12/05/1986
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	09/24/1986
Penalty Type:	Not reported
Regulation Violated:	3745-66-74
Area of Violation:	TSD-CONTAINERS REQUIREMENTS
Date Violation Determined:	09/18/1986
Actual Date Achieved Compliance:	12/05/1986
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	09/24/1986
Penalty Type:	Not reported
Regulation Violated:	3745-65-73(B)
Area of Violation:	TSD-MANIFEST REQUIREMENTS
Date Violation Determined:	09/18/1986
Actual Date Achieved Compliance:	12/05/1986
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	09/24/1986
Penalty Type:	Not reported
Regulation Violated:	3745-65-52,54,55
Area of Violation:	TSD-CONTINGENCY PLAN REQUREMENTS
Date Violation Determined:	09/18/1986
Actual Date Achieved Compliance:	12/05/1986
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	09/24/1986
Penalty Type:	Not reported
Regulation Violated:	3745-66-73(A)
Area of Violation:	TSD-CONTAINERS REQUIREMENTS
Date Violation Determined:	09/18/1986
Actual Date Achieved Compliance:	12/05/1986
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	09/24/1986
Penalty Type:	Not reported
Regulation Violated:	3745-66-77
Area of Violation:	TSD-CONTAINERS REQUIREMENTS
Date Violation Determined:	09/18/1986
Actual Date Achieved Compliance:	12/05/1986
Enforcement Action:	WRITTEN INFORMAL

MOYNO INC (Continued) **1000842186**

Enforcement Action Date: 09/24/1986
Penalty Type: Not reported

Regulation Violated: PART A PERMIT
Area of Violation: GENERATOR-OTHER REQUIREMENTS
Date Violation Determined: 09/20/1985
Actual Date Achieved Compliance: 03/14/1986

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 09/30/1985
Penalty Type: Not reported

Regulation Violated: 3745-65-35
Area of Violation: TSD-PREPAREDNESS/PREVENTION REQUIREMENTS
Date Violation Determined: 09/20/1985
Actual Date Achieved Compliance: 03/14/1986

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 09/30/1985
Penalty Type: Not reported

Regulation Violated: 3745-66-12
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 09/20/1985
Actual Date Achieved Compliance: 03/14/1986

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 09/30/1985
Penalty Type: Not reported

Regulation Violated: 3745-65-73
Area of Violation: TSD-MANIFEST REQUIREMENTS
Date Violation Determined: 08/30/1984
Actual Date Achieved Compliance: 01/28/1985

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 09/17/1984
Penalty Type: Not reported

Regulation Violated: 3745-65-13(B)
Area of Violation: TSD-GENERAL STANDARDS
Date Violation Determined: 08/30/1984
Actual Date Achieved Compliance: 01/28/1985

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 09/17/1984
Penalty Type: Not reported

Regulation Violated: 3745-65-73(B)
Area of Violation: TSD-MANIFEST REQUIREMENTS
Date Violation Determined: 04/12/1983
Actual Date Achieved Compliance: 05/11/1983

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 04/18/1983
Penalty Type: Not reported

Regulation Violated: 3745-66-12
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 04/12/1983
Actual Date Achieved Compliance: 05/11/1983

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 04/18/1983

MOYNO INC (Continued) **1000842186**

Penalty Type: Not reported

Regulation Violated: 3745-65-14
Area of Violation: TSD-GENERAL STANDARDS
Date Violation Determined: 04/12/1983
Actual Date Achieved Compliance: 05/11/1983

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 04/18/1983
Penalty Type: Not reported

Regulation Violated: 3745-65-15-(B)
Area of Violation: TSD-GENERAL STANDARDS
Date Violation Determined: 04/12/1983
Actual Date Achieved Compliance: 05/11/1983

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 04/18/1983
Penalty Type: Not reported

Regulation Violated: 3745-65-16(C)
Area of Violation: TSD-GENERAL STANDARDS
Date Violation Determined: 04/12/1983
Actual Date Achieved Compliance: 05/11/1983

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 04/18/1983
Penalty Type: Not reported

Regulation Violated: 3745-65-16(D)(E)
Area of Violation: TSD-GENERAL STANDARDS
Date Violation Determined: 03/11/1982
Actual Date Achieved Compliance: 05/21/1982

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 03/15/1982
Penalty Type: Not reported

Regulation Violated: 3745-65-13(B)
Area of Violation: TSD-GENERAL STANDARDS
Date Violation Determined: 03/11/1982
Actual Date Achieved Compliance: 05/21/1982

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 03/15/1982
Penalty Type: Not reported

Regulation Violated: 3745-65-51
Area of Violation: TSD-CONTINGENCY PLAN REQUREMENTS
Date Violation Determined: 03/11/1982
Actual Date Achieved Compliance: 05/21/1982

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 03/15/1982
Penalty Type: Not reported

Regulation Violated: 3745-65-55
Area of Violation: TSD-CONTINGENCY PLAN REQUREMENTS
Date Violation Determined: 03/11/1982
Actual Date Achieved Compliance: 05/21/1982

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 03/15/1982
Penalty Type: Not reported

MOYNO INC (Continued) **1000842186**

There are 38 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	
Non-Financial Record Review	GENERATOR-RECORDKEEPING REQUIREMENTS	20030703
Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20030203
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20030203
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20030203
Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20020315
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20020315
Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20020315
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20020315
Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19940315
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19940315
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19910625
Compliance Evaluation Inspection	TSD-CONTINGENCY PLAN REQUREMENTS	19900828
	TSD-CONTINGENCY PLAN REQUREMENTS	19900828
	TSD-CONTINGENCY PLAN REQUREMENTS	19900828
Compliance Evaluation Inspection	TSD-GENERAL STANDARDS	19880913
	TSD-MANIFEST REQUIREMENTS	19880913
Compliance Evaluation Inspection	GENERATOR-OTHER REQUIREMENTS	19871216
	TSD-CONTINGENCY PLAN REQUREMENTS	19871216
Compliance Evaluation Inspection	TSD-GENERAL STANDARDS	19861205
	TSD-CONTINGENCY PLAN REQUREMENTS	19861205
	TSD-MANIFEST REQUIREMENTS	19861205
	GENERATOR-MANIFEST REQUIREMENTS	19861205
	TSD-CONTAINERS REQUIREMENTS	19861205
	TSD-CONTAINERS REQUIREMENTS	19861205
	TSD-CONTAINERS REQUIREMENTS	19861205
Compliance Evaluation Inspection	GENERATOR-OTHER REQUIREMENTS	19860314
	TSD-PREPAREDNESS/PREVENTION REQUIREMENTS	19860314
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19860314
Compliance Evaluation Inspection	TSD-MANIFEST REQUIREMENTS	19850128
	TSD-GENERAL STANDARDS	19850128
Compliance Evaluation Inspection	TSD-MANIFEST REQUIREMENTS	19830511
	TSD-GENERAL STANDARDS	19830511
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19830511
	TSD-GENERAL STANDARDS	19830511
	TSD-GENERAL STANDARDS	19830511
Compliance Evaluation Inspection	TSD-GENERAL STANDARDS	19820521
	TSD-GENERAL STANDARDS	19820521
	TSD-CONTINGENCY PLAN REQUREMENTS	19820521
	TSD-CONTINGENCY PLAN REQUREMENTS	19820521

FINDS:

Other Pertinent Environmental Activity Identified at Site:

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

MOYNO INC (Continued) **1000842186**

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

PCS (Permit Compliance System) is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

CT MANIFEST:

Year:	1989
Manifest ID:	CTC0110118
TSDF EPA ID:	CTD000604488
TSDF Name:	CECOS TREATMENT CORPORATION
TSDF Address:	51 BRODERICK RD
TSDF City,St,Zip:	BRISTOL, CT 06010
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	05/05/89
Transporter EPA ID:	NYD088658646
Transporter Name:	D & J TRANSPORTATION SPECIALISTS, INC.,
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	/ /
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
Generator EPA ID:	OHD079435897
Gererator Phone:	5133273136
Generator Address:	Not reported
Generator City,State,Zip:	Not reported
Generator Country:	Not reported
Special Handling:	Yes
Discrepancies:	Yes

MOYNO INC (Continued) **1000842186**

Date Shipped: 05/05/89
Date Received: 05/08/89
Last modified date: 04/27/04
Last modified by: IG
Comments: Not reported

Click this hyperlink while viewing on your computer to access additional CT MANIFEST: detail in the EDR Site Report.

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20 NE 1/4-1/2 1892 ft. **SPEEDWAY #8916** **LUST U003727670**
1241 W NORTH STREET **UST N/A**
SPRINGFIELD, OH 45504

Relative: Lower

Actual: 949 ft.

LUST:
Owner: DANNY D. COFFEY
LTF Status: 1 SUS/CON from regulated UST
Release Number: 12005963-N00001
Owner Address: PO BOX 1500
SPRINGFIELD, OH 45501
Facility Status: Inactive
FR Status: A Release is Disproved
Old Facility Id: 125963
Former Lust Release Number: Not reported
Release Date: 2000-06-20 00:00:00

UST:
Facility ID: 12005963 Tank ID: T00001
Owner: SPEEDWAY SUPERAMERICA LLC
Owner Address: PO BOX 1500
SPRINGFIELD, OH 45501
Capacity: 10000 Tank Status: Currently In Use
Install Date: 09/03/99
Content: Gasoline
Tank Type: Fiberglass Reinforced Plastic

Facility ID: 12005963 Tank ID: T00002
Owner: SPEEDWAY SUPERAMERICA LLC
Owner Address: PO BOX 1500
SPRINGFIELD, OH 45501
Capacity: 12000 Tank Status: Currently In Use
Install Date: 09/03/99
Content: Gasoline
Tank Type: Fiberglass Reinforced Plastic

Facility ID: 12005963 Tank ID: T00003
Owner: SPEEDWAY SUPERAMERICA LLC
Owner Address: PO BOX 1500
SPRINGFIELD, OH 45501
Capacity: 12000 Tank Status: Currently In Use
Install Date: 09/03/99
Content: Gasoline
Tank Type: Fiberglass Reinforced Plastic

Facility ID: 12005963 Tank ID: T00004
Owner: SPEEDWAY SUPERAMERICA LLC
Owner Address: PO BOX 1500
SPRINGFIELD, OH 45501
Capacity: 4000 Tank Status: Currently In Use
Install Date: 09/03/99

SPEEDWAY #8916 (Continued) **U003727670**

Content: Diesel
Tank Type: Fiberglass Reinforced Plastic

Facility ID: 12005963 Tank ID: T00005
Owner: SPEEDWAY SUPERAMERICA LLC
Owner Address: PO BOX 1500
SPRINGFIELD, OH 45501
Capacity: 4000 Tank Status: Currently In Use
Install Date: 09/02/99
Content: Kerosene
Tank Type: Fiberglass Reinforced Plastic

21
NW
1/4-1/2
1934 ft.

FORMER MARATHON **LUST** **S101559918**
1875 W NORTH **N/A**
SPRINGFIELD, OH 45504

Relative:
Lower

Actual:
938 ft.

LUST:
Owner: FORMER MARATHON
LTF Status: 1 SUS/CON from regulated UST
Release Number: 12010027-N00001
Owner Address: 1875 W NORTH
SPRINGFIELD, OH 45504
Facility Status: Inactive
FR Status: No Further Action letter issued
Old Facility Id: Not reported
Former Lust Release Number: 120161400.0
Release Date: Not reported

22
West
1/4-1/2
1977 ft.

W.A. STEVENS **LUST** **S104774977**
125 S WALTER ST **N/A**
SPRINGFIELD, OH 45506

Relative:
Lower

Actual:
937 ft.

LUST:
Owner: W.A. STEVENS
LTF Status: 6 Closure of regulated UST
Release Number: 12000062-N00001
Owner Address: 125 S WALTER ST
SPRINGFIELD, OH 45506
Facility Status: Inactive
FR Status: No Further Action letter issued
Old Facility Id: 120062
Former Lust Release Number: 123078000.0
Release Date: Not reported

23
WSW
1/4-1/2
2130 ft.

FORMER BONDED BULK PLT 1098 **LUST** **S104774985**
2000 W JEFFERSON ST **N/A**
SPRINGFIELD, OH 45506

Relative:
Lower

Actual:
941 ft.

FORMER BONDED BULK PLT 1098 (Continued) **S104774985**

LUST:
Owner: DANNY D. COFFEY
LTF Status: 6 Closure of regulated UST
Release Number: 12000117-N00001
Owner Address: PO BOX 1500
SPRINGFIELD, OH 45501
Facility Status: Inactive
FR Status: No Further Action letter issued
Old Facility Id: 120117
Former Lust Release Number: Not reported
Release Date: 2000-08-21 00:00:00

24
West
1/4-1/2
2334 ft.

SPRINGFIELD GAS CO **Manufactured Gas Plants** **1008407629**
SWC WALTER AND W. HIGH STREETS **N/A**
SPRINGFIELD, OH 45501

Relative:
Lower

Actual:
931 ft.

Alternate Name: OHIO FUEL GAS CO/ COLUMBIA GAS OF OHIO.

E25
WNW
1/4-1/2
2461 ft.

COLUMBIA GAS OF OHIO, INC. **LUST** **S104774990**
2101 W MAIN ST **N/A**
SPRINGFIELD, OH 45504

Site 1 of 2 in cluster E

Relative:
Lower

Actual:
926 ft.

LUST:
Owner: TIFFANY FRITCHLEY
LTF Status: 1 SUS/CON from regulated UST
Release Number: 12000203-N00001
Owner Address: 200 CIVIC CTR DR
COLUMBUS, OH 43215
Facility Status: Active
FR Status: Tier 2
Old Facility Id: 120203
Former Lust Release Number: 121085000.0
Release Date: 1991-04-19 00:00:00

E26
WNW
1/4-1/2
2493 ft.

BP OIL CO. #22797 **LUST** **1000560745**
2112 W MAIN ST **OH Spills** **N/A**
SPRINGFIELD, OH 45504 **UST**

Site 2 of 2 in cluster E

Relative:
Lower

Actual:
926 ft.

LUST:
Owner: SAM PATTERSON
LTF Status: 1 SUS/CON from regulated UST
Release Number: 12000289-N00001
Owner Address: P.O. BOX 6038
ARTESIA, CA 90702
Facility Status: Active
FR Status: No Further Action letter issued
Old Facility Id: 120289
Former Lust Release Number: 123209600.0

BP OIL CO. #22797 (Continued) **1000560745**

Release Date: 1993-10-19 00:00:00

Owner: SAM PATTERSON
LTF Status: 1 SUS/CON from regulated UST
Release Number: 12000289-N00002
Owner Address: P.O. BOX 6038
ARTESIA, CA 90702
Facility Status: Active
FR Status: Tier 2
Old Facility Id: 120289
Former Lust Release Number: 123209601.0
Release Date: 1996-03-28 00:00:00

SPILLS:
Spill Year : 1993
Spill Month : 10
Spill Number : 4335
Date Spill Reported : 10/19/93
Sequential Number : 0
Lat/Long : Not reported
Spill No. : 9310-12-4335
Reporter Name : COMPANY
Confidential : No
District Code : SW
Employee Number : Not reported
Product Spilled: GASOLINE

UST:
Facility ID: 12000289 Tank ID: T00001
Owner: BP PRODUCTS N A INC-HSSE COMPL
Owner Address: P.O. BOX 6038
ARTESIA, CA 90702
Capacity: 8000 Tank Status: Currently In Use
Install Date: 01/01/76
Content: Gasoline
Tank Type: Fiberglass Reinforced Plastic

Facility ID: 12000289 Tank ID: T00002
Owner: BP PRODUCTS N A INC-HSSE COMPL
Owner Address: P.O. BOX 6038
ARTESIA, CA 90702
Capacity: 8000 Tank Status: Currently In Use
Install Date: 01/01/76
Content: Gasoline
Tank Type: Fiberglass Reinforced Plastic

Facility ID: 12000289 Tank ID: T00003
Owner: BP PRODUCTS N A INC-HSSE COMPL
Owner Address: P.O. BOX 6038
ARTESIA, CA 90702
Capacity: 8000 Tank Status: Currently In Use
Install Date: 01/01/76
Content: Gasoline
Tank Type: Fiberglass Reinforced Plastic

Facility ID: 12000289 Tank ID: T00004
Owner: BP PRODUCTS N A INC-HSSE COMPL
Owner Address: P.O. BOX 6038
ARTESIA, CA 90702
Capacity: 10000 Tank Status: Currently In Use

BP OIL CO. #22797 (Continued) **1000560745**

Install Date: 07/01/96
Content: Diesel
Tank Type: Fiberglass Reinforced Plastic

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SPRINGFIELD	S106335817	M H S SUPPLY CO	8450 ANGOLA RD		OH Spills
SPRINGFIELD	1009218270	WAL-MART SUPERCENTER #2429	2100 N BECHTLE AVE	45504	RCRA-SQG
SPRINGFIELD	S106895792	BUCK CREEK DEVELOPMENT AREA	CEDAR ST, CLIFF ST, W NORTH ST	45504	DERR
SPRINGFIELD	S106269837	R & M / PLANT #5	N/A		OH Spills
SPRINGFIELD	S102410089	DAYTON ROAD LANDFILL	EAST OF INT. OF DAYTON RD / MILL	45506	DERR, MSL
SPRINGFIELD	S106329061	M&K HUFFORD	WILLOW RD		OH Spills

EPA Waste Codes Addendum

Code	Description
D001	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
D002	A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
D007	CHROMIUM
D018	BENZENE
D039	TETRACHLOROETHYLENE
D040	TRICHLOROETHYLENE
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.
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.

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.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

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, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/19/2006
Date Data Arrived at EDR: 05/05/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 17

Source: EPA
Telephone: N/A
Last EDR Contact: 05/05/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 8
Telephone: 303-312-6774

EPA Region 4
Telephone 404-562-8033

Proposed NPL: Proposed National Priority List Sites

Date of Government Version: 04/19/2006
Date Data Arrived at EDR: 05/05/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 17

Source: EPA
Telephone: N/A
Last EDR Contact: 05/05/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

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.

Date of Government Version: 04/19/2006
Date Data Arrived at EDR: 05/05/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 17

Source: EPA
Telephone: N/A
Last EDR Contact: 05/05/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Quarterly

NPL RECOVERY: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by 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 received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

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: 02/01/2006
Date Data Arrived at EDR: 03/21/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 23

Source: EPA
Telephone: 703-413-0223
Last EDR Contact: 06/22/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 02/01/2006
Date Data Arrived at EDR: 03/21/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 23

Source: EPA
Telephone: 703-413-0223
Last EDR Contact: 06/23/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/15/2006
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 05/21/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database 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). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/09/2006
Date Data Arrived at EDR: 04/27/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 33

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/28/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Quarterly

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 01/12/2006
Date Made Active in Reports: 02/21/2006
Number of Days to Update: 40

Source: National Response Center, United States Coast Guard
Telephone: 202-260-2342
Last EDR Contact: 04/26/2006
Next Scheduled EDR Contact: 07/24/2006
Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 46

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 04/14/2006
Next Scheduled EDR Contact: 07/17/2006
Data Release Frequency: Annually

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/21/2006
Date Data Arrived at EDR: 03/27/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 703-603-8905
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/21/2006
Date Data Arrived at EDR: 03/27/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 703-603-8905
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 703-692-8801
Last EDR Contact: 05/12/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 01/19/2006
Date Made Active in Reports: 02/21/2006
Number of Days to Update: 33

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 04/26/2006
Date Data Arrived at EDR: 04/27/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/12/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Semi-Annually

CONSENT: Superfund (CERCLA) Consent Decrees

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: 12/14/2004
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 04/25/2005
Number of Days to Update: 69

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/13/2006
Next Scheduled EDR Contact: 07/24/2006
Data Release Frequency: Varies

ROD: Records Of Decision

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: 04/13/2006
Date Data Arrived at EDR: 04/28/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 32

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 07/06/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 11/04/2005
Date Data Arrived at EDR: 11/28/2005
Date Made Active in Reports: 01/30/2006
Number of Days to Update: 63

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 06/21/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TRIS: Toxic Chemical Release Inventory System

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: 12/31/2003
Date Data Arrived at EDR: 07/13/2005
Date Made Active in Reports: 08/17/2005
Number of Days to Update: 35

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 06/22/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

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.

Date of Government Version: 12/31/2002
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 46

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 04/12/2006
Next Scheduled EDR Contact: 07/17/2006
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/29/2006
Date Data Arrived at EDR: 04/26/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 34

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Date of Government Version: 03/31/2006
Date Data Arrived at EDR: 04/26/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 34

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Quarterly

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 05/11/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 11

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 03/06/2006
Next Scheduled EDR Contact: 07/17/2006
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 02/13/2006
Date Data Arrived at EDR: 04/21/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 20

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 04/11/2006
Next Scheduled EDR Contact: 07/17/2006
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

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: 12/27/2005
Date Data Arrived at EDR: 02/08/2006
Date Made Active in Reports: 02/27/2006
Number of Days to Update: 19

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 06/28/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

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: 04/12/2006
Date Data Arrived at EDR: 04/26/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 34

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Quarterly

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/09/2006
Date Data Arrived at EDR: 03/29/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 62

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 06/28/2006
Next Scheduled EDR Contact: 09/25/2006
Data Release Frequency: Semi-Annually

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/27/2006
Date Data Arrived at EDR: 05/02/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 28

Source: EPA
Telephone: N/A
Last EDR Contact: 04/03/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

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. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2003
Date Data Arrived at EDR: 06/17/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 48

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/30/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Biennially

STATE AND LOCAL RECORDS

SHWS: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.
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: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: Ohio EPA
Telephone: 614-644-2924
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: N/A

DERR: Division of Emergency & Remedial Response's Database
The DERR listings contains sites from all of Ohio that are in the Division of Emergency and Remedial Response (DERR) database, which is an index of sites for which our district offices maintain files. The database is NOT a record of contaminated sites or sites suspected of contamination. Not all sites in the database are contaminated, and a site's absence from the database does not imply that it is uncontaminated.

Date of Government Version: 03/14/2006
Date Data Arrived at EDR: 03/15/2006
Date Made Active in Reports: 03/30/2006
Number of Days to Update: 15

Source: Ohio EPA, Div. of Emergency and Remedial Response
Telephone: 614-644-3538
Last EDR Contact: 06/12/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Semi-Annually

TOWNGAS: DERR Towngas Database
The database includes 82 very old sites (circa 1895) which produced gas from coal for street lighting. Most visual evidence of these sites has disappeared, however the potential for buried coal tar remains. The database is no longer in active use.

Date of Government Version: 07/28/1992
Date Data Arrived at EDR: 02/21/2003
Date Made Active in Reports: 03/05/2003
Number of Days to Update: 12

Source: Ohio EPA
Telephone: 614-644-3749
Last EDR Contact: 02/12/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

MSL: Master Sites List
Ohio EPA no longer maintains or publishes the MSL, which was a list of sites with known or suspected contamination. Please be advised that this report does not constitute a determination that any site identified in the report is or may be contaminated.

Date of Government Version: 03/01/1999
Date Data Arrived at EDR: 03/29/1999
Date Made Active in Reports: 04/21/1999
Number of Days to Update: 23

Source: Ohio Environmental Protection Agency
Telephone: 614-644-2068
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: No Update Planned

SWF/LF: Licensed Solid Waste Facilities
Solid Waste Facilities/Landfill Sites. SWF/LF 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 Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/23/2006
Date Data Arrived at EDR: 05/24/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 35

Source: Ohio Environmental Protection Agency
Telephone: 614-644-2621
Last EDR Contact: 05/11/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Annually

HIST LF: Old Solid Waste Landfill

A list of about 1200 old abandoned dumps or landfills. This database was developed from Ohio EPA staff notebooks and other information dating from the mid-1970s

Date of Government Version: 01/01/1980
Date Data Arrived at EDR: 07/01/2003
Date Made Active in Reports: 07/17/2003
Number of Days to Update: 16

Source: Ohio EPA
Telephone: 614-644-3749
Last EDR Contact: 06/26/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

LUST: Leaking Underground Storage Tank File

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: 03/15/2006
Date Data Arrived at EDR: 03/15/2006
Date Made Active in Reports: 03/30/2006
Number of Days to Update: 15

Source: Department of Commerce
Telephone: 614-752-7924
Last EDR Contact: 06/14/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Quarterly

UNREG LTANKS: Ohio Leaking UST File

A suspected or confirmed release of petroleum from a non-regulated UST.

Date of Government Version: 08/25/1999
Date Data Arrived at EDR: 08/19/2003
Date Made Active in Reports: 08/26/2003
Number of Days to Update: 7

Source: Department of Commerce
Telephone: 614-752-7938
Last EDR Contact: 08/01/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST: Underground Storage Tank Tank File

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: 03/15/2006
Date Data Arrived at EDR: 03/15/2006
Date Made Active in Reports: 04/03/2006
Number of Days to Update: 19

Source: Department of Commerce
Telephone: 614-752-7938
Last EDR Contact: 06/14/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Quarterly

ARCHIVE UST: Archived Underground Storage Tank Sites

Underground storage tank records that have been removed from the Underground Storage Tank database.

Date of Government Version: 03/15/2006
Date Data Arrived at EDR: 03/15/2006
Date Made Active in Reports: 03/30/2006
Number of Days to Update: 15

Source: Department of Commerce, Division of State Fire Marshal
Telephone: 614-752-7938
Last EDR Contact: 06/14/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Quarterly

SPILLS: Emergency Response Database

Incidents reported to the Emergency Response Unit. The focus of the ER program is to minimize the impact on the environment from accidental releases, spills, and unauthorized discharges from any fixed or mobile sources. Incidents involving petroleum products, hazardous materials, hazardous waste, abandoned drums, or other materials which may pose as a pollution threat to the state?s water, land, or air should be reported immediately. Not all incidents included in the database are actual SPILLS, they can simply be reported incidents.

Date of Government Version: 06/05/2006
Date Data Arrived at EDR: 06/06/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 22

Source: Ohio EPA
Telephone: 614-644-2084
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Varies

ENG CONTROLS: Sites with Engineering Controls
A database that tracks properties with engineering controls.

Date of Government Version: 03/20/2006
Date Data Arrived at EDR: 04/04/2006
Date Made Active in Reports: 05/04/2006
Number of Days to Update: 30

Source: Ohio EPA
Telephone: 614-644-2324
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Semi-Annually

INST CONTROL: Sites with Institutional Engineering Controls
A database that tracks properties with institutional controls.

Date of Government Version: 03/20/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/04/2006
Number of Days to Update: 28

Source: Ohio Environmental Protection Agency
Telephone: 614-644-2324
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Semi-Annually

VCP: Voluntary Action Program Sites
Site involved in the Voluntary Action Program.

Date of Government Version: 03/06/2006
Date Data Arrived at EDR: 03/06/2006
Date Made Active in Reports: 03/30/2006
Number of Days to Update: 24

Source: Ohio EPA, Voluntary Action Program
Telephone: 614-644-1298
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Semi-Annually

DRYCLEANERS: Drycleaner Facility Listing
A listing of drycleaner facility locations.

Date of Government Version: 04/20/2006
Date Data Arrived at EDR: 04/26/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 15

Source: Ohio EPA
Telephone: 614-644-3469
Last EDR Contact: 04/20/2006
Next Scheduled EDR Contact: 07/24/2006
Data Release Frequency: Varies

BROWNFIELDS: Ohio Brownfield Inventory
A statewide brownfields inventory. A brownfield is an abandoned, idled or under-used industrial or commercial property where expansion or redevelopment is complicated by known or potential releases of hazardous substances and/or petroleum.

Date of Government Version: 04/11/2006
Date Data Arrived at EDR: 05/19/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 40

Source: Ohio EPA
Telephone: 614-644-3748
Last EDR Contact: 04/11/2006
Next Scheduled EDR Contact: 07/10/2006
Data Release Frequency: Varies

CDL: Clandestine Drug Lab Locations
A list of clandestine drug lab sites with environmental impact. This list is extracted from the SPILLS database based on the "product" type.

Date of Government Version: 03/22/2006
Date Data Arrived at EDR: 04/10/2006
Date Made Active in Reports: 05/04/2006
Number of Days to Update: 24

Source: Ohio EPA
Telephone: 614-644-2080
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPDES: NPDES General Permit List

General information regarding NPDES (National Pollutant Discharge Elimination System) permits.

Date of Government Version: 05/02/2006
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 26

Source: Ohio EPA
Telephone: 614-644-2031
Last EDR Contact: 06/02/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Semi-Annually

USD: Urban Setting Designation Sites

A USD may be requested for properties participating in the VAP when there is no current or future use of the ground water by local residents for drinking, showering, bathing or cooking. In these areas, an approved USD would lower the cost of cleanup and promote economic redevelopment while still protecting public health and safety. If these USDs were to be approved, the ground water cleanup or response requirements for the areas could be lessened. The Ohio EPA director may approve a USD request based on a demonstration that the USD requirements are met and an evaluation of existing and future uses of ground water in the area. The Ohio EPA director's decision on approval or denial of the request is needed before cleanup requirements for the site can be determined.

Date of Government Version: 03/15/2006
Date Data Arrived at EDR: 04/25/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 16

Source: Ohio EPA
Telephone: 614-644-3749
Last EDR Contact: 06/07/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Varies

HIST INST CONTROLS: Institutional Controls Database

"Institutional control" is a restriction that is recorded in the same manner as a deed which limits access to or use of the property such that exposure to hazardous substances or petroleum are effectively and reliably eliminated or mitigated. Examples of institutional controls include land and water use restrictions. This database is no longer updated or maintained by the state agency.

Date of Government Version: 05/10/2005
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/04/2006
Number of Days to Update: 28

Source: Ohio EPA
Telephone: 614-644-3749
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: No Update Planned

HIST ENG CONTROLS: Operation & Maintenance Agreements Database

Volunteers that complete a voluntary action that relies on the ongoing operation and maintenance (O&M) of an engineered control to make the site protective (e.g" cap systems and ground water treatment systems) must enter into a legally binding agreement with the Ohio EPA before the director issues a covenant not to sue. This O&M Agreement must describe how the remedy is constructed and how itwill be monitored, maintained and repaired. It also lays out inspection opportunities for the agency. Companies must document that they have the financial capability to operate any remedy relied on, before the agency will agree to enter into the O&M Agreement. The statute requires that the agency be notified of any change in ownership. This database is no longer updated or maintained by the state agency.

Date of Government Version: 05/10/2005
Date Data Arrived at EDR: 04/04/2006
Date Made Active in Reports: 05/04/2006
Number of Days to Update: 30

Source: Ohio EPA
Telephone: 614-644-3749
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: No Update Planned

HIST USD: Urban Setting Designations Database

A USD may be requested for properties participating in the VAP when there is no current or future use of the ground water by local residents for drinking, showering, bathing or cooking. In these areas, an approved USD would lower the cost of cleanup and promote economic redevelopment while still protecting public health and safety. If these USDs were to be approved, the ground water cleanup or response requirements for the areas could be lessened. The Ohio EPA director may approve a USD request based on a demonstration that the USD requirements are met and an evaluation of existing and future uses of ground water in the area. The Ohio EPA director's decision on approval or denial of the request is needed before cleanup requirements for the site can be determined. This database is no longer updated or maintained by the state agency.

Date of Government Version: 05/10/2005
Date Data Arrived at EDR: 04/25/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 16

Source: Ohio EPA
Telephone: 614-644-3749
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: No Update Planned

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 05/12/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Semi-Annually

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/17/2006
Date Made Active in Reports: 04/07/2006
Number of Days to Update: 49

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 06/14/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 04/24/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 8

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/05/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 05/02/2006
Date Data Arrived at EDR: 05/31/2006
Date Made Active in Reports: 06/27/2006
Number of Days to Update: 27

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/31/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 05/04/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 33

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/12/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 09/30/2005
Date Data Arrived at EDR: 05/09/2006
Date Made Active in Reports: 05/24/2006
Number of Days to Update: 15

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/17/2006
Number of Days to Update: 61

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 05/15/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 46

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 07/11/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Annually

Oil/Gas Pipelines: 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.

Electric Power Transmission Line Data
Source: PennWell Corporation
Telephone: (800) 823-6277
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Child Day Care Facilities
Source: Department of Job & Family Services
Telephone: 614-466-6282

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Department of Natural Resources
Telephone: 614-265-1044

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

SFC M. L. DOWNS USARC/AMSA 58
1515 W. HIGH STREET
SPRINGFIELD, OH 45506

TARGET PROPERTY COORDINATES

Latitude (North):	39.92490 - 39° 55' 29.6''
Longitude (West):	83.8356 - 83° 50' 8.2''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	257665.1
UTM Y (Meters):	4423062.5
Elevation:	979 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	39083-H7 SPRINGFIELD, OH
Most Recent Revision:	1981

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

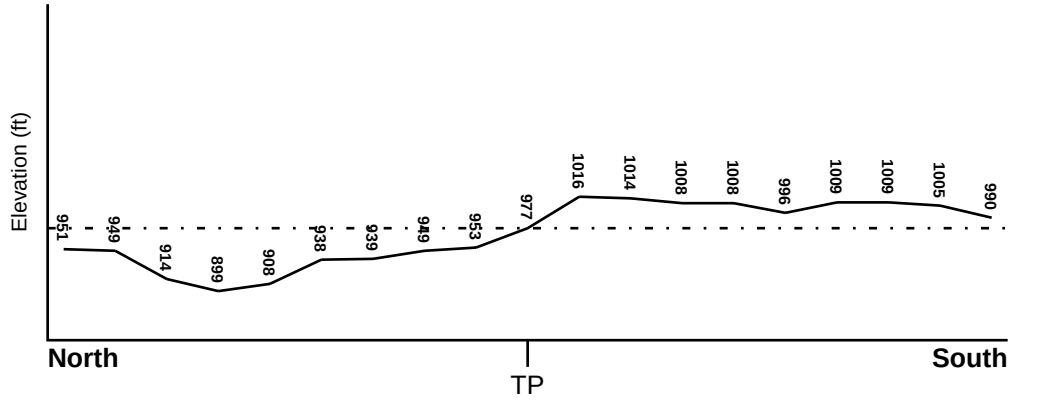
TOPOGRAPHIC INFORMATION

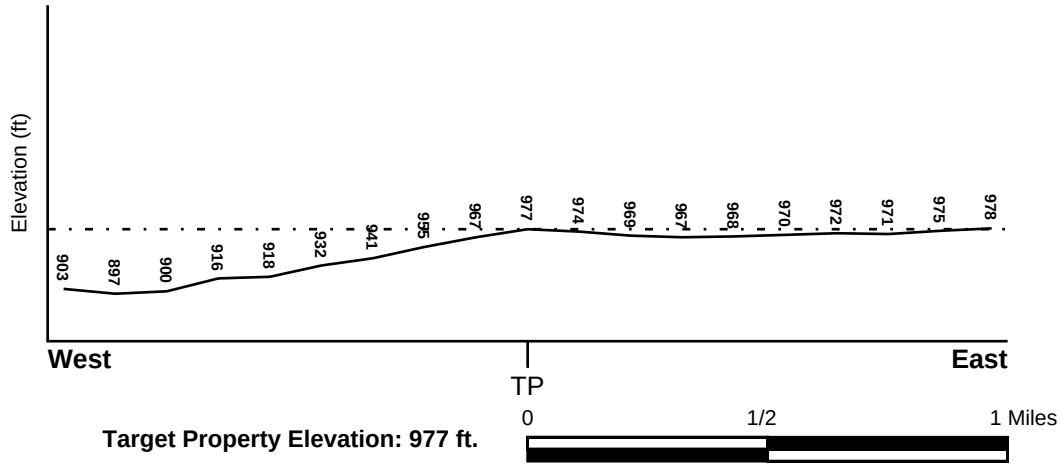
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NNW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 977 ft.

0 1/2 1 Miles

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
CLARK, OH	Not Available

Flood Plain Panel at Target Property: Not Reported

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
SPRINGFIELD	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT **GEOLOGIC AGE IDENTIFICATION**

Era:	Paleozoic	Category:	Stratifed Sequence
System:	Silurian		
Series:	Middle Silurian (Niagoaran)		
Code:	S2 *(decoded above as Era, System & Series)*		

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	ELDEAN
Soil Surface Texture:	loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	12 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.30 Min: 5.60
2	12 inches	23 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.20	Max: 7.80 Min: 5.60
3	23 inches	30 inches	very gravelly - clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 8.40 Min: 6.60
4	30 inches	60 inches	stratified	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 20.00 Min: 6.00	Max: 8.40 Min: 7.40

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silty clay loam
silt loam

Surficial Soil Types: silty clay loam
silt loam

Shallow Soil Types: clay loam
silty clay
gravelly - silt loam
silty clay loam

Deeper Soil Types: gravelly - coarse sand
very gravelly - loamy sand

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

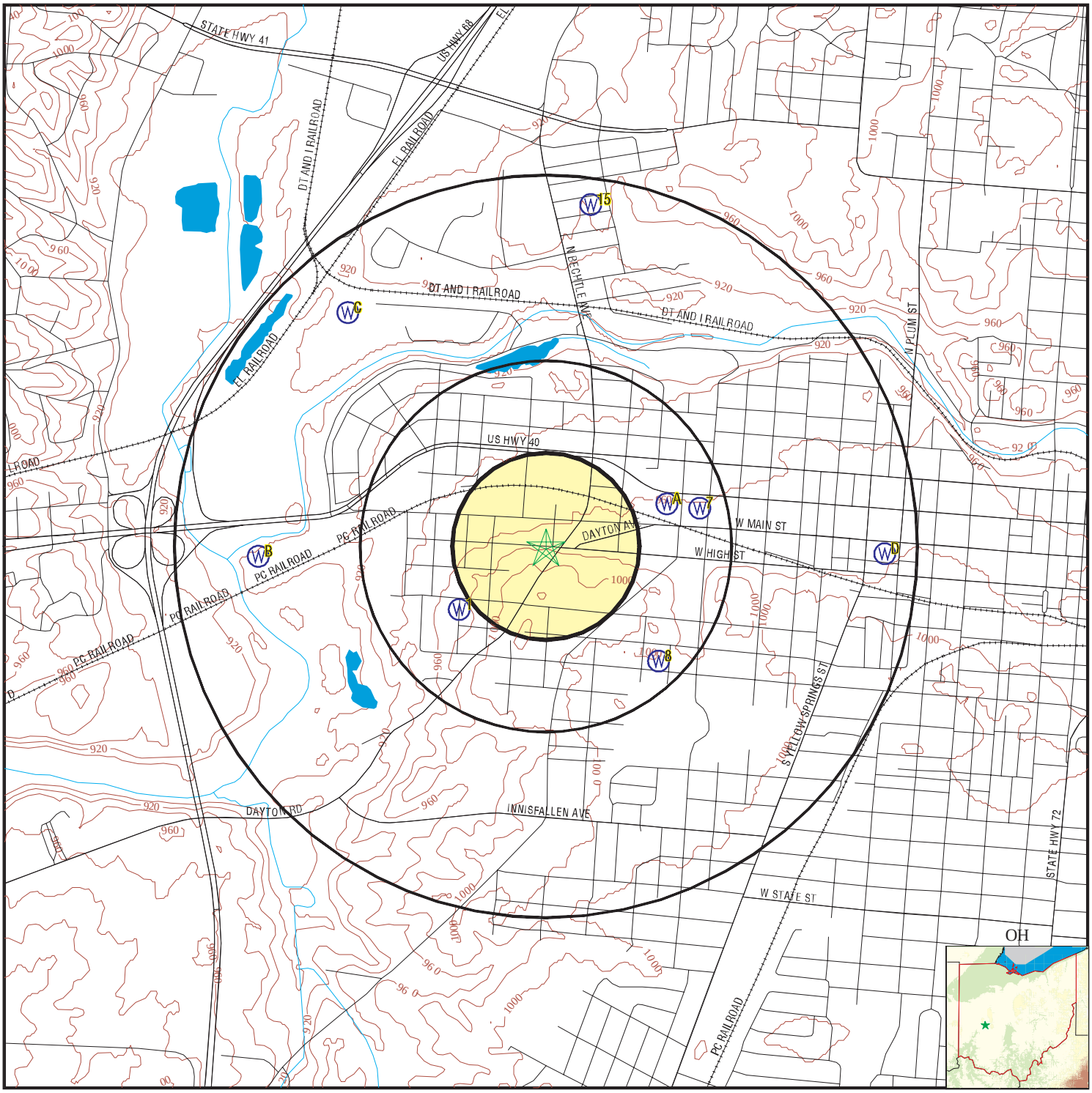
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	OHD100000017026	1/4 - 1/2 Mile SW
A2	OHD100000017350	1/4 - 1/2 Mile ENE
A3	OHD100000017376	1/4 - 1/2 Mile ENE
A4	OHD100000017364	1/4 - 1/2 Mile ENE
A5	OHD100000017365	1/4 - 1/2 Mile ENE
A6	OHD100000017366	1/4 - 1/2 Mile ENE
7	OHD100000017351	1/4 - 1/2 Mile ENE
8	OHD100000016871	1/4 - 1/2 Mile SE
B9	OHD100000017151	1/2 - 1 Mile West
B10	OHD100000017169	1/2 - 1 Mile West
C11	OHD100000017973	1/2 - 1 Mile NW
C12	OHD100000018006	1/2 - 1 Mile NW
D13	OHD100000017158	1/2 - 1 Mile East
D14	OHD100000017210	1/2 - 1 Mile East
15	OHD100000018324	1/2 - 1 Mile North

PHYSICAL SETTING SOURCE MAP - 01714247.86r



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

0 1/4 1/2 1 Miles

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location

SITE NAME:	SFC M. L. Downs USARC/AMSA 58	CLIENT:	CH2M Hill
ADDRESS:	1515 W. HIGH STREET SPRINGFIELD OH 45506	CONTACT:	Mary Beth Jacques
LAT/LONG:	39.9249 / 83.8356	INQUIRY #:	01714247.86r
		DATE:	July 12, 2006

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
1 **SW** **1/4 - 1/2 Mile** **Lower**	**OH WELLS**	**OHD100000017026**

Well log n:	9912221	Well type :	W
Cnty code:	23	Twp code:	2635
Orig owner:	Not Reported	Orig own 1:	PATTON MANUFACTURING
Well use c:	Not Reported	Aquifer ty:	LSH
St dir cod:	Not Reported	St no:	1802
St name:	PLEASANT	St type co:	ST
City:	Not Reported	State code:	OH
Zip:	Not Reported	Horiz x:	1624152.37
Horiz y:	702951.93	Latitude:	Not Reported
Longitude:	Not Reported	Total dept:	162

A2 **ENE** **1/4 - 1/2 Mile** **Lower**	**OH WELLS**	**OHD100000017350**

Well log n:	969186	Well type :	W
Cnty code:	23	Twp code:	2635
Orig owner:	CITY OF	Orig own 1:	SPRINGFIELD
Well use c:	M	Aquifer ty:	LST
St dir cod:	W	St no:	1605
St name:	COLUMBIA	St type co:	ST
City:	SPRINGFIELD	State code:	OH
Zip:	Not Reported	Horiz x:	Not Reported
Horiz y:	Not Reported	Latitude:	39.926389
Longitude:	-83.83	Total dept:	22

A3 **ENE** **1/4 - 1/2 Mile** **Lower**	**OH WELLS**	**OHD100000017376**

Well log n:	969199	Well type :	W
Cnty code:	23	Twp code:	2635
Orig owner:	Not Reported	Orig own 1:	SPRINGFIELD CITY
Well use c:	M	Aquifer ty:	SLT
St dir cod:	W	St no:	1205
St name:	COLUMBIA	St type co:	AVE
City:	SPRINGFIELD	State code:	OH
Zip:	Not Reported	Horiz x:	Not Reported
Horiz y:	Not Reported	Latitude:	39.926667
Longitude:	-83.83	Total dept:	23

A4 **ENE** **1/4 - 1/2 Mile** **Lower**	**OH WELLS**	**OHD100000017364**

Well log n:	201662	Well type :	W
Cnty code:	23	Twp code:	2635
Orig owner:	Not Reported	Orig own 1:	STEEL PRODUCTS ENGIN
Well use c:	Not Reported	Aquifer ty:	SHA
St dir cod:	W	St no:	1205
St name:	COLUMBIA	St type co:	ST
City:	Not Reported	State code:	OH
Zip:	Not Reported	Horiz x:	1627224.83
Horiz y:	704416.92	Latitude:	Not Reported
Longitude:	Not Reported	Total dept:	215

A5
ENE
1/4 - 1/2 Mile
Lower

OH WELLS **OHD100000017365**

Well log n:	201661	Well type :	W
Cnty code:	23	Twp code:	2635
Orig owner:	Not Reported	Orig own 1:	STEEL PRODUCTS ENGIN
Well use c:	Not Reported	Aquifer ty:	SHA
St dir cod:	W	St no:	1205
St name:	COLUMBIA	St type co:	ST
City:	Not Reported	State code:	OH
Zip:	Not Reported	Horiz x:	1627224.83
Horiz y:	704416.92	Latitude:	Not Reported
Longitude:	Not Reported	Total dept:	390

A6
ENE
1/4 - 1/2 Mile
Lower

OH WELLS **OHD100000017366**

Well log n:	295309	Well type :	W
Cnty code:	23	Twp code:	2635
Orig owner:	Not Reported	Orig own 1:	STEEL PRODUCTS
Well use c:	Not Reported	Aquifer ty:	GST
St dir cod:	Not Reported	St no:	Not Reported
St name:	Not Reported	St type co:	Not Reported
City:	Not Reported	State code:	OH
Zip:	Not Reported	Horiz x:	1627224.83
Horiz y:	704416.92	Latitude:	Not Reported
Longitude:	Not Reported	Total dept:	63

7
ENE
1/4 - 1/2 Mile
Lower

OH WELLS **OHD100000017351**

Well log n:	969190	Well type :	W
Cnty code:	23	Twp code:	2635
Orig owner:	Not Reported	Orig own 1:	SPRINGFIELD CITY
Well use c:	M	Aquifer ty:	SLT
St dir cod:	W	St no:	1205
St name:	COLUMBIA	St type co:	AVE
City:	SPRINGFIELD	State code:	OH
Zip:	Not Reported	Horiz x:	Not Reported
Horiz y:	Not Reported	Latitude:	39.926389
Longitude:	-83.827778	Total dept:	25

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
8 **SE** **1/4 - 1/2 Mile** **Higher**	**OH WELLS**	**OHD100000016871**

Well log n:	63766	Well type :	W
Cnty code:	23	Twp code:	2635
Orig owner:	J	Orig own 1:	HICKEY
Well use c:	Not Reported	Aquifer ty:	LST
St dir cod:	Not Reported	St no:	Not Reported
St name:	INNISFALLEN	St type co:	RD
City:	Not Reported	State code:	OH
Zip:	Not Reported	Horiz x:	1626973.38
Horiz y:	702176.84	Latitude:	Not Reported
Longitude:	Not Reported	Total dept:	56

B9 **West** **1/2 - 1 Mile** **Lower**	**OH WELLS**	**OHD100000017151**

Well log n:	9912202	Well type :	W
Cnty code:	23	Twp code:	2635
Orig owner:	Not Reported	Orig own 1:	OHIO EDISON CO
Well use c:	Not Reported	Aquifer ty:	GRA
St dir cod:	Not Reported	St no:	Not Reported
St name:	Not Reported	St type co:	Not Reported
City:	Not Reported	State code:	OH
Zip:	Not Reported	Horiz x:	1621317.35
Horiz y:	703711.6	Latitude:	Not Reported
Longitude:	Not Reported	Total dept:	57

B10 **West** **1/2 - 1 Mile** **Lower**	**OH WELLS**	**OHD100000017169**

Well log n:	9912069	Well type :	W
Cnty code:	23	Twp code:	2635
Orig owner:	Not Reported	Orig own 1:	OHIO EDISON CO
Well use c:	Not Reported	Aquifer ty:	GST
St dir cod:	Not Reported	St no:	Not Reported
St name:	BUCK CREEK/MAD RIVER	St type co:	RD
City:	Not Reported	State code:	OH
Zip:	Not Reported	Horiz x:	1621301.74
Horiz y:	703789.7	Latitude:	Not Reported
Longitude:	Not Reported	Total dept:	53

C11 **NW** **1/2 - 1 Mile** **Lower**	**OH WELLS**	**OHD100000017973**

Well log n:	47045	Well type :	W
Cnty code:	23	Twp code:	2635
Orig owner:	Not Reported	Orig own 1:	CITY OF SPRINGFIELD
Well use c:	Not Reported	Aquifer ty:	LST
St dir cod:	Not Reported	St no:	Not Reported
St name:	Not Reported	St type co:	Not Reported
City:	Not Reported	State code:	OH
Zip:	Not Reported	Horiz x:	1622640.93
Horiz y:	707148.34	Latitude:	Not Reported
Longitude:	Not Reported	Total dept:	60

C12
NW
1/2 - 1 Mile
Lower

OH WELLS **OHD100000018006**

Well log n:	47042	Well type :	W
Cnty code:	23	Twp code:	2635
Orig owner:	Not Reported	Orig own 1:	CITY OF SPRINGFIELD
Well use c:	Not Reported	Aquifer ty:	SHA
St dir cod:	Not Reported	St no:	Not Reported
St name:	Not Reported	St type co:	Not Reported
City:	Not Reported	State code:	OH
Zip:	Not Reported	Horiz x:	1622625.32
Horiz y:	707242.07	Latitude:	Not Reported
Longitude:	Not Reported	Total dept:	185

D13
East
1/2 - 1 Mile
Higher

OH WELLS **OHD100000017158**

Well log n:	9912072	Well type :	W
Cnty code:	23	Twp code:	2635
Orig owner:	P	Orig own 1:	COSMOS
Well use c:	Not Reported	Aquifer ty:	SHA
St dir cod:	Not Reported	St no:	Not Reported
St name:	Not Reported	St type co:	Not Reported
City:	Not Reported	State code:	OH
Zip:	Not Reported	Horiz x:	1630183.29
Horiz y:	703621.49	Latitude:	Not Reported
Longitude:	Not Reported	Total dept:	167

D14
East
1/2 - 1 Mile
Higher

OH WELLS **OHD100000017210**

Well log n:	9912071	Well type :	W
Cnty code:	23	Twp code:	2635
Orig owner:	P	Orig own 1:	COSMOS
Well use c:	Not Reported	Aquifer ty:	ROC
St dir cod:	Not Reported	St no:	Not Reported
St name:	Not Reported	St type co:	Not Reported
City:	Not Reported	State code:	OH
Zip:	Not Reported	Horiz x:	1630237.35
Horiz y:	703689.12	Latitude:	Not Reported
Longitude:	Not Reported	Total dept:	195

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
15 **North** **1/2 - 1 Mile** **Lower**	**OH WELLS**	**OHD100000018324**

Well log n:	73804	Well type :	W
Cnty code:	23	Twp code:	2635
Orig owner:	ERNEST	Orig own 1:	TILTON
Well use c:	Not Reported	Aquifer ty:	GRA
St dir cod:	Not Reported	St no:	1203
St name:	BEVERLY	St type co:	AVE
City:	Not Reported	State code:	OH
Zip:	Not Reported	Horiz x:	1626105.89
Horiz y:	708679.26	Latitude:	Not Reported
Longitude:	Not Reported	Total dept:	72

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: OH Radon

Radon Test Results

Zip	Total Sites	Median	1st Quartile	3rd Quartile	Min.	Max.
45506	109	5.2	2.8	10.05	0.3	47.1

Federal EPA Radon Zone for CLARK County: 1

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 45506

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.700 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Department of Natural Resources
Telephone: 614-265-1044

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

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

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
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 wells, springs, and other sources of groundwater.

STATE RECORDS

Public Water System Data
Source: Ohio Environmental Protection Agency
Telephone: 614-644-3677
The database includes community, transient noncommunity and nontransient noncommunity water wells; and source treatment unit locations.

Water Well Database
Source: Department of Natural Resources
Telephone: 614-265-6747

OTHER STATE DATABASE INFORMATION

RADON

State Database: OH Radon
Source: Department of Health
Telephone: 614-644-2727
Radon Statistics for Zip Code Areas

Area Radon Information
Source: USGS
Telephone: 703-356-4020
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.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

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

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

Fax To: CH2M Hill
Contact: Mary Beth Jacques
Fax : 404-229-9152
Date: 07/12/2006

Fax From: Bart Sobieralski
EDR
Phone: 1-800-352-0050

EDR PUR-IQ® Report

"the intelligent way to conduct historical research"

for
SFC M. L. Downs USARC/AMSA 58
1515 W. HIGH STREET
SPRINGFIELD, OH 45506
Lat./Long. 39.92490 / 83.83560
EDR Inquiry # 01714247.86r

The EDR PUR-IQ report facilitates historical research planning required to complete the Phase I ESA process. The report identifies the *likelihood* of prior use coverage by searching proprietary EDR-Prior Use Reports® comprising nationwide information on: city directories, fire insurance maps, aerial photographs, historical topographic maps, flood maps and National Wetland Inventory maps.

Potential for EDR Historical (Prior Use) Coverage - Coverage in the following historical information sources may be used as a guide to develop your historical research strategy:

1. City Directory: Coverage may exist for portions of Clark County, OH.

2. Fire Insurance Map: When you order online any EDR Package or the EDR Radius Map with EDR Sanborn Map Search/Print, you receive site specific Sanborn Map coverage information at no charge.

3. Aerial Photograph: Aerial photography coverage may exist for portions of Clark County. Please contact your EDR Account Executive for information about USGS photos available through EDR.

4. Topographic Map: The USGS 7.5 min. quad topo sheet(s) associated with this site:

Historical: Coverage exists for Clark County

Current: Target Property: TP | 1981 | 39083-H7 Springfield, OH

EDR's network of professional researchers, located throughout the United States, accesses the most extensive national collections of city directory, fire insurance maps, aerial photographs and historical topographic map resources available for SPRINGFIELD, OH. These collections may be located in multiple libraries throughout the country. To ensure maximum coverage, EDR will often assign researchers at these multiple locations on your behalf. Please call or fax your EDR representative to authorize a search.

EDR - HISTORICAL SOURCE(S) ORDER FORM

CH2M Hill
Mary Beth Jacques
Account # 1592163

SFC M. L. Downs USARC/AMSA 58
1515 W. HIGH STREET
SPRINGFIELD, OH 45506
Clark County
Lat./Long. 39.92490 / 83.83560
EDR Inquiry # 01714247.86r

Should you wish to change or add to your order, fax this form to your EDR account executive:

Bart Sobieralski
Ph: 1-800-352-0050 Fax: 1-800-231-6802

Reports

___ EDR Sanborn Map® Search/Print

___ EDR Fire Insurance Map Abstract

___ EDR Multi-Tenant Retail Facility® Report

___ EDR City Directory Abstract

___ EDR Aerial Photo Decade Package

___ USGS Aerial 5 Package

___ USGS Aerial 3 Package

___ EDR Historical Topographic Maps

___ Paper Current USGS Topo (7.5 min.)

___ Environmental Lien Search

___ Chain of Title Search

___ NJ MacRaes Industrial Directory Report

___ EDR Telephone Interview

Shipping:

___ Email
___ Express, Next Day Delivery — RUSH SERVICE IS AVAILABLE
___ Express, Second Day Delivery
___ Express, Next day Delivery — Customer Account — Acct # _____
___ Express, Second Day Delivery — Customer Account — Acct # _____
___ U.S. Mail

Thank you

The EDR Aerial Photo Decade Package

SFC M. L. Downs USARC/AMSA 58
1515 W. HIGH STREET
SPRINGFIELD, OH 45506

Inquiry Number: 1714247.89

July 12, 2006

EDR® Environmental Data Resources Inc

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDRs professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

This document reports that EDR searched its own collection or select outside repository collections of aerial photography, and based on client-supplied target property information, aerial photography, including the target property was not deemed reasonably ascertainable by Environmental Data Resources, Inc. (EDR). This no coverage determination reflects a search only of aerial photography repository collections that EDR accessed. It can not be concluded from this search that no coverage for the target property exists anywhere, in any collection.

NO COVERAGE

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

"Linking Technology with Tradition"®

Sanborn® Map Report

Ship To: Mary Beth Jacques
CH2M Hill
1569 Stampmill Way
Lawrenceville, GA 30043

Order Date: 7/12/2006 **Completion Date:** 7/13/2006
Inquiry #: 1714247.87s
P.O. #: NA
Site Name: SFC M. L. Downs USARC/AMSA 58
Address: 1515 W. HIGH STREET
City/State: SPRINGFIELD, OH 45506
Cross Streets:

Customer Project: NA
1592163BAS 770-338-1589

Based on client-supplied information, fire insurance maps for the following years were identified

1910 - 1 Map
1928 - 1 Map
1950 - 1 Map
1955 - 1 Map
1972 - 1 Map

Limited Permission to Photocopy Total Maps: 5

CH2M Hill (the client) is permitted to make up to THREE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

USER'S GUIDE

This User's Guide provides guidelines for accessing Sanborn Map® images and for transferring them to your Word Processor.

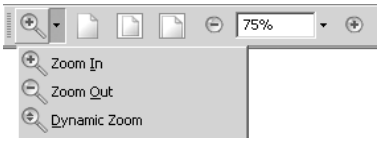
Reading Sanborn Maps

- Sanborn Maps document historical property use by displaying property information through words, abbreviations, and map symbols. The Sanborn Map Key provides information to help interpret the symbols and abbreviations used on Sanborn Maps. The Key is available from EDR's Web Site at: http://www.edrnet.com/reports/samples/key.pdf

Organization of Electronic Sanborn Image File

- Sanborn Map Report, listing years of coverage
- User's Guide
- Oldest Sanborn Map Image
- Most recent Sanborn Map Image

Navigating the Electronic Sanborn Image File

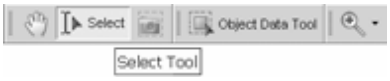


1. Open file on screen.
2. Identify TP (Target Property) on the most recent map.
3. Find TP on older printed images.
4. Using Acrobat® Reader®, zoom to 250% in order to view more clearly. (200-250% is the approximate equivalent scale of hardcopy Sanborn Maps.)
   A. On the menu bar, click "View" and then "Zoom to..."
   B. Or, use the magnifying tool and drag a box around the TP

Printing a Sanborn Map From the Electonic File

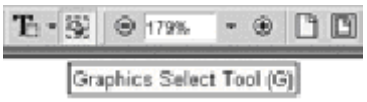
- EDR recommends printing images at 300 dpi (300 dpi prints faster than 600 dpi)
- To print only the TP area, cut and paste from Acrobat to your word processor application.

<u>Acrobat Versions 6 and 7</u>



1. Go to the menu bar
2. Click the "Select Tool"
3. Draw a box around the area selected
4. "Right click" on your mouse
5. Select "Copy Image to Clipboard"
6. Go to Word Processor such as Microsoft Word, paste and print.

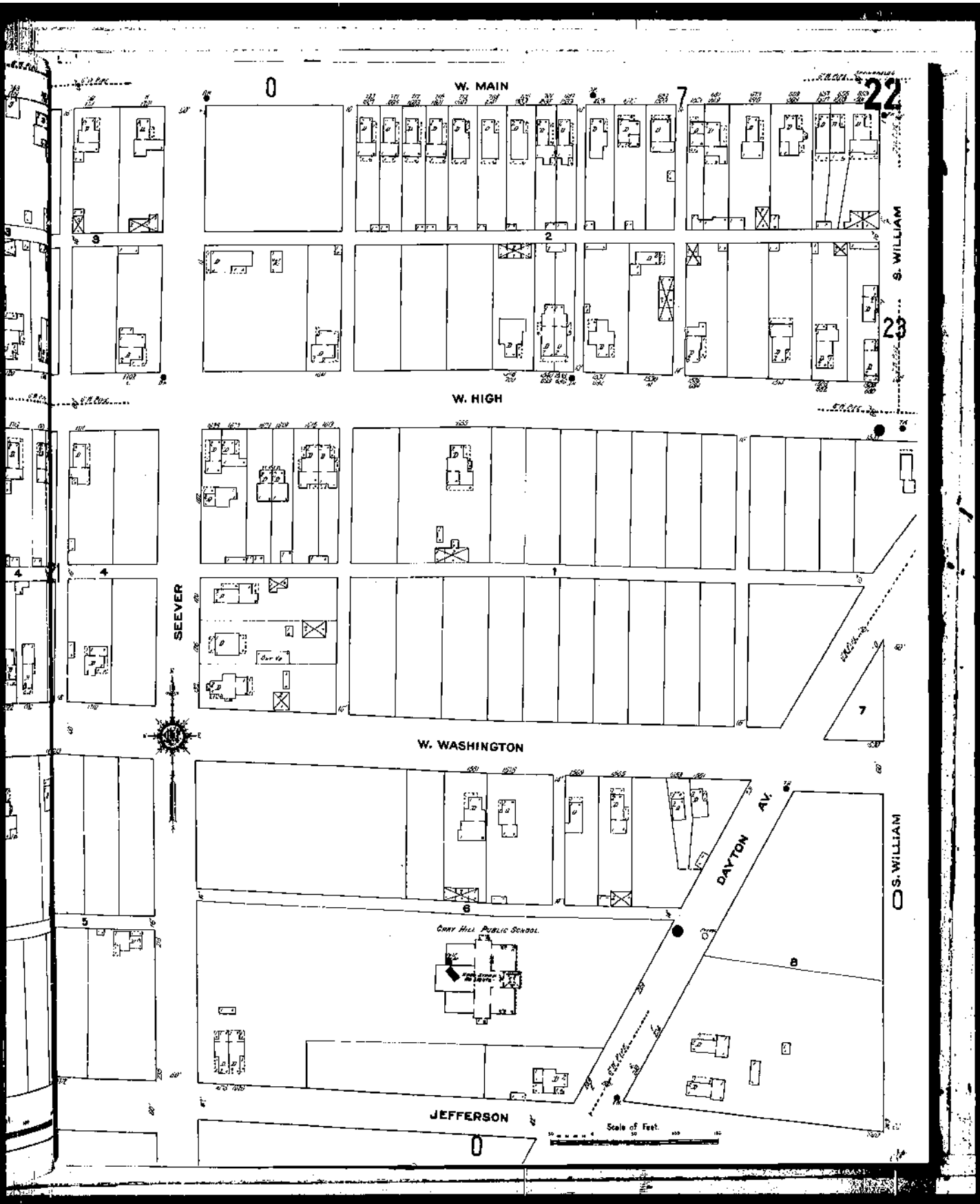
<u>Acrobat Version 5</u>

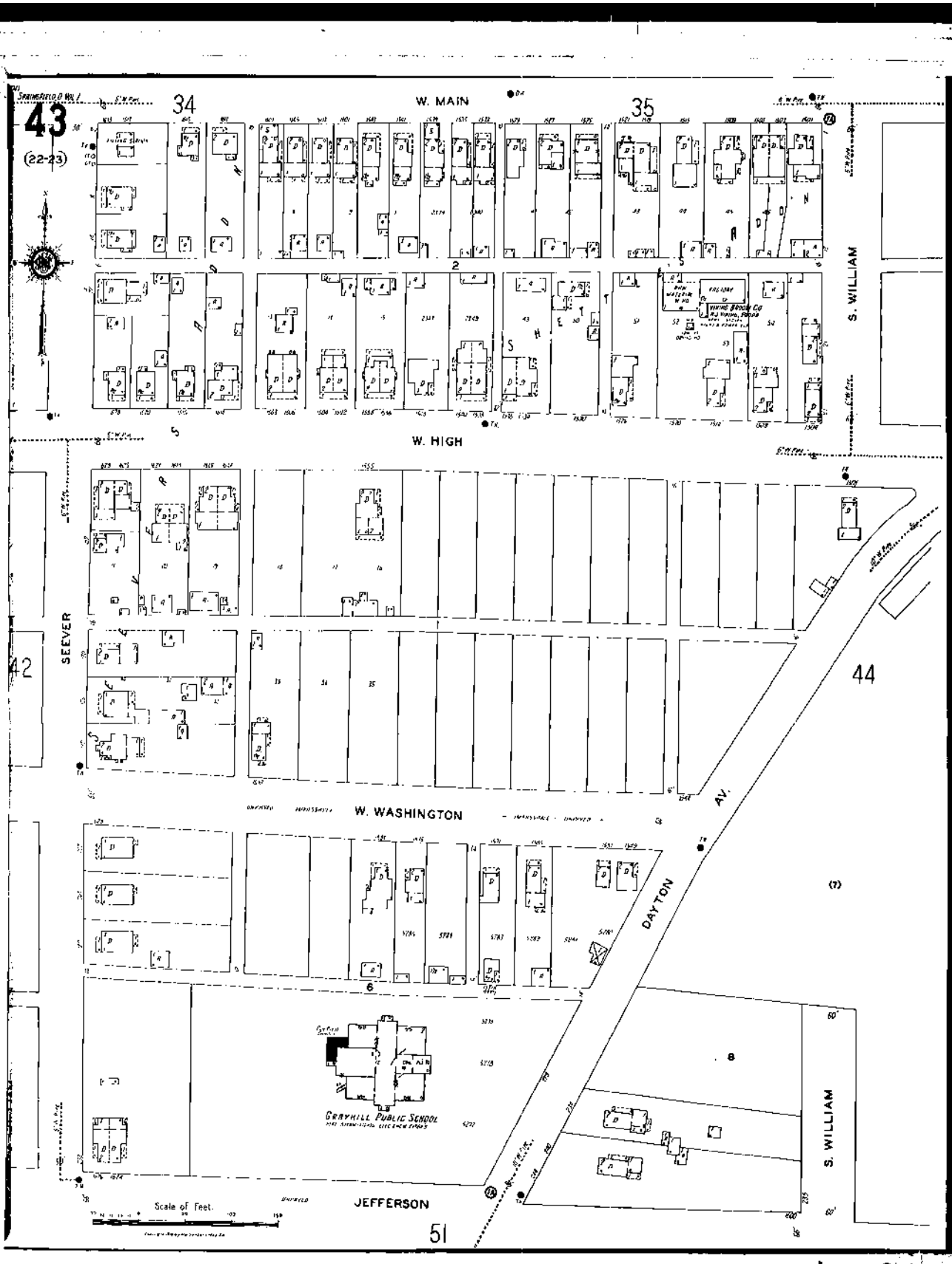


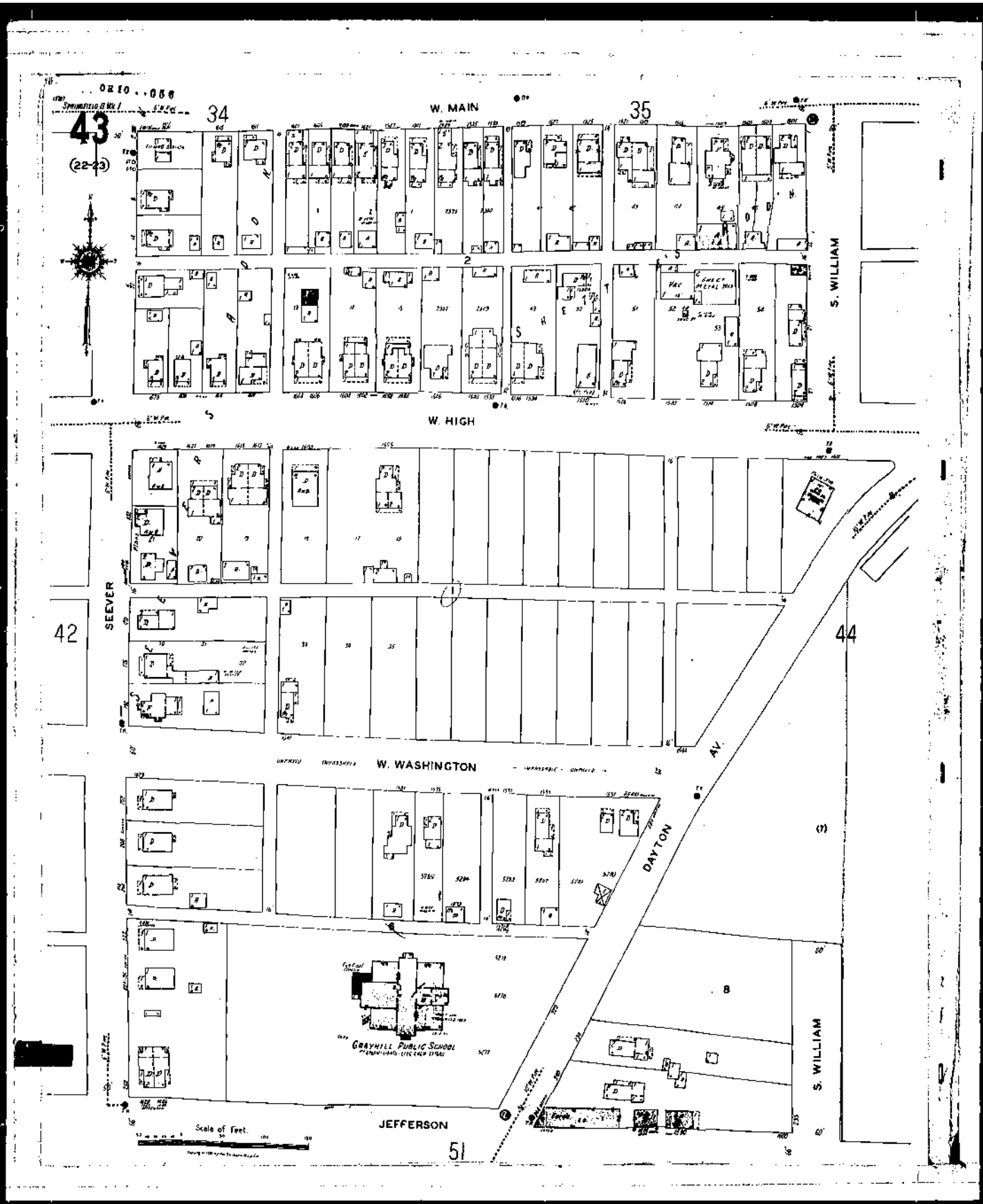
1. Go to the menu bar
2. Click the "Graphics Select Tool"
3. Draw a box around the area selected
4. Go to "Menu"
5. Highlight "Edit"
6. Highlight "Copy"
7. Go to Word Processor such as Microsoft Word, paste and print.

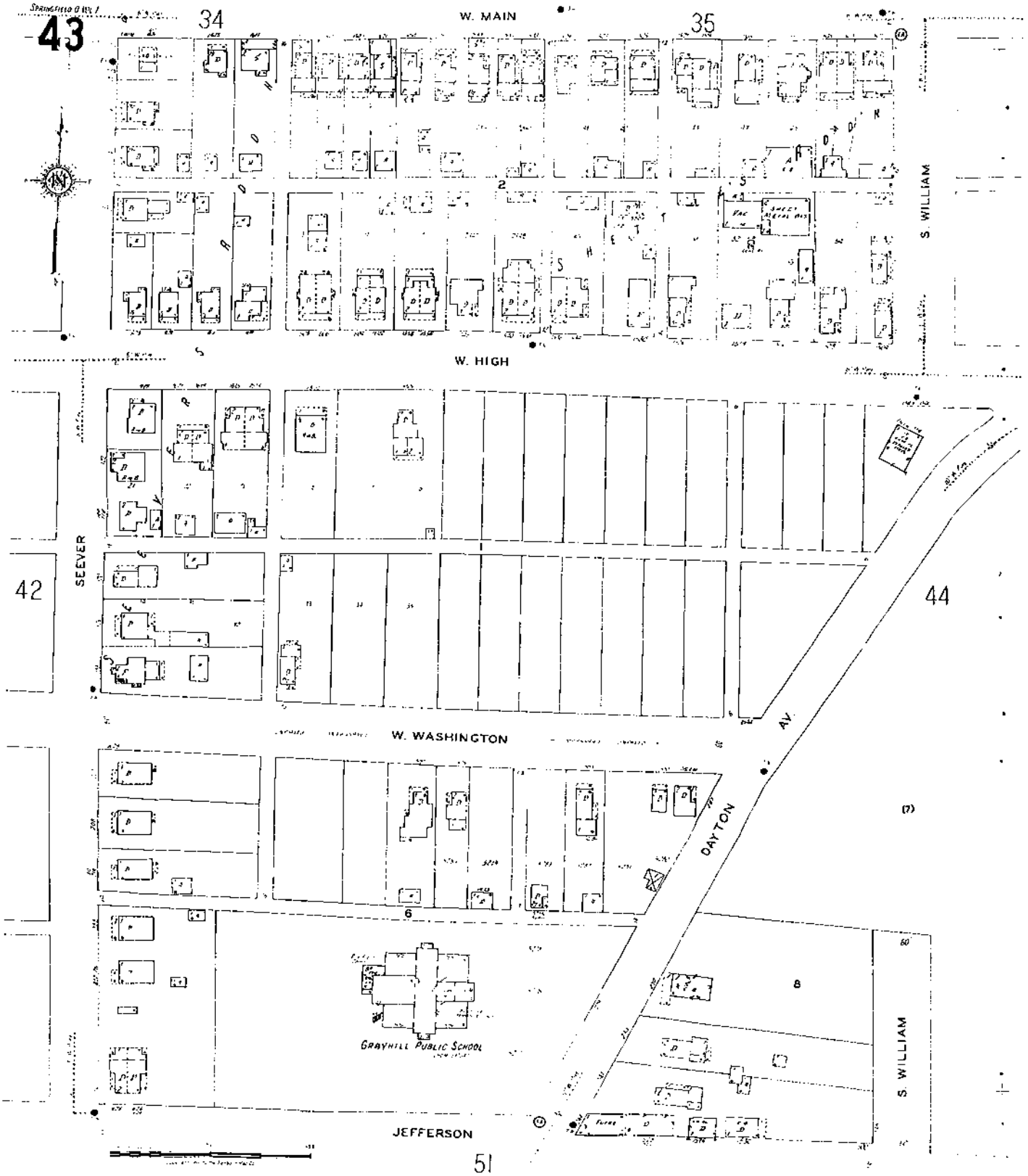
Important Information about Email Delivery of Electronic Sanborn Map Images

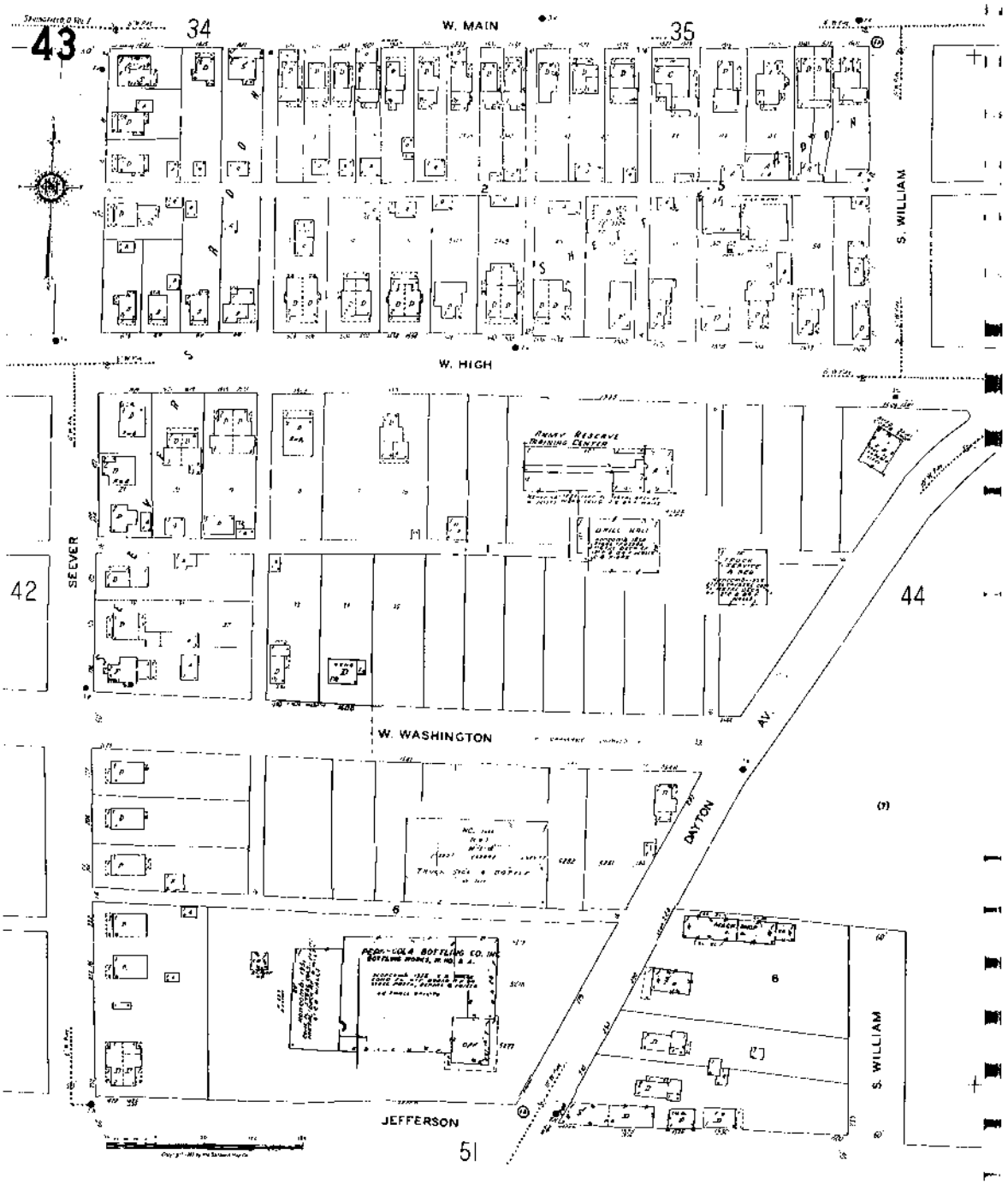
- Images are grouped intro one file, up to 2MB.
- In cases where in excess of 6-7 map years are available, the file size typically exceeds 2MB. In these cases, you will receive multiple files, labeled as "1 of 3", "2 of 3", etc. including all available map years.
- Due to file size limitations, certain ISPs, including AOL, may occasionally delay or decline to deliver files. Please contact your ISP to identify their specific file size limitations.











The EDR-City Directory
Abstract

SFC M. L. Downs USARC/AMSA 58
1515 W. HIGH STREET
SPRINGFIELD, OH 45506

Inquiry Number: 1714247.90

Monday, July 24, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR City Directory Abstract

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening report designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

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

SUMMARY

- ***City Directories:***

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 2005 through 2005. (These years are not necessarily inclusive.) A summary of the information obtained is provided in the text of this report.

Date EDR Searched Historical Sources: July 24, 2006

Target Property:
1515 W. HIGH STREET
SPRINGFIELD, OH 45506

Year	Uses	Source
2005	US Army Reserve Ctr	Polk's City Directory
	US Army Transportation	Polk's City Directory

Adjoining Properties

SURROUNDING

Multiple Addresses
SPRINGFIELD, OH 45506

Year	Uses	Source
2005	*West High Street*	Polk's City Directory
	Seat Cover King (1505)	Polk's City Directory
	Residences (1508)	Polk's City Directory
	Residence (1514)	Polk's City Directory
	Residence (1518)	Polk's City Directory
	Residences (1526)	Polk's City Directory
	Residence (1530)	Polk's City Directory