



THE MEMPHIS DEPOT TENNESSEE

ADMINISTRATIVE RECORD COVER SHEET

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U.S. ARMY BASE

REALIGNMENT AND

CLOSURE 95 PROGRAM

Environmental Baseline
Survey Report

Defense Distribution Depot
Memphis, Tennessee

Prepared for
U.S. Army Corps of Engineers
Seattle District
Mobile District

November 6, 1996

Woodward-Clyde



Woodward-Clyde Federal Services
4582 S. Ulster Street
Stanford Place 3, Suite 1200
Denver, Colorado 80237

Contract No. DACW97-95-D-1001



5 November 1996

Ms. Denise Cooper
BRAC Environmental Coordinator
Environmental Office
2163 Airways Blvd.
Memphis, TN 38114

Subject: *Final Environmental Baseline Survey Report for the
Defense Distribution Depot, Memphis, Tennessee*

Dear Ms. Cooper:

In accordance with the contract for the U.S. Army Base Realignment and Closure (BRAC) 95 Program, Woodward-Clyde has enclosed 12 copies of the Final Environmental Baseline Survey (EBS) Report for the Defense Distribution Depot, Memphis, TN.

Additional copies of the Final EBS Report are included in this mailing and have been prepared to be mailed via Federal Express to Karen Moran, DLA; Kenneth Wiggans, U.S. Army Environmental Center (AEC); Kurt Braun, Geographic Project Manager (GPM); Mike Nelson, Seattle District Project Manager of the U.S. Army Corps of Engineers (USACE); and Ellis C. Pope, P.E., USACE.

If you have any questions, please contact me at (206) 343-7933.

Very truly yours,


Geoffrey C. Compeau
Project Manager

Attachment: 12 hardcopies and 1 set of diskettes for the
Defense Distribution Depot, Memphis, Tennessee

GCC:msj

cc: Final EBS Report (included in this mailing)

- Karen Moran, DLA
- Kenneth Wiggans, USAEC
- Kurt Braun, GPM, USACE (1 set of diskettes for the Defense Distribution Depot, Memphis, Tennessee)
- Mike Nelson, USACE, Seattle District
- Ellis C. Pope, P.E., USACE

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EXECUTIVE SUMMARY

The Defense Distribution Depot Memphis, Tennessee (DDMT), located in Shelby County, Tennessee, has been selected for closure under the 1995 Base Realignment and Closure (BRAC) process. The purpose of this Environmental Baseline Survey (EBS) is to classify discrete areas of real property associated with the DDMT, subject to transfer or lease, into one of the seven standard environmental condition of property area types as defined by the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended, Community Environmental Response Facilitation Act (CERFA) guidance and the Department of Defense (DOD) *BRAC Cleanup Plan (BCP) Guidebook* (DOD 1993). This is achieved by identifying, characterizing, and documenting the obviousness of the presence or likely presence of a release or threatened release of hazardous substances or petroleum products associated with the historical and current use of the DDMT. Releases at properties adjacent to the DDMT that could affect the environmental condition of the installation property are also identified, characterized, and documented. Additionally, areas containing or suspected of containing non-CERCLA contamination substances (e.g., asbestos, lead-based paint, polychlorinated biphenyls (PCBs), radon, and radionuclides) that may limit or preclude the transfer or lease of the property for unrestricted use are delineated separately as qualified.

The seven standard environmental condition of property area types (categories) are presented in Section 1.3. Areas that are designated as Category 1, 2, 3, or 4 are suitable for transfer or lease, subject to consideration of the qualifiers. Areas that are currently designated as Category 5, 6, or 7 are not suitable for transfer without further investigation or remediation. These areas may be leased.

The entire installation was evaluated under this investigation of the DDMT. The installation encompasses 642 acres, all of which have been identified as BRAC property, subject to transfer or lease.

The U.S. Army acquired the 642 acres in 1942 to provide stock control, storage, and maintenance services for the Army Engineer, Chemical, and Quartermaster Corps. The installation was originally named Memphis General Depot, but has also been known as Memphis Quartermaster Depot, Memphis Army Service Forces Depot, and Memphis Army Depot.

EXECUTIVE SUMMARY

During World War II the Depot served as an internment center for 800 prisoners of war and performed supply missions for the Signal and Ordnance Corps. Since 1963, the DDMT has been a principal distribution center for the Defense Logistics Agency (formerly the Defense Supply Agency) for shipping and receiving hazardous materials, textile products, food products, electronic equipment, construction materials, and industrial, medical, and general supplies. The DDMT receives, warehouses, and distributes supplies common to all U.S. military services in the southeastern United States, Puerto Rico, and Panama. Approximately 107,000 tons of goods are shipped by the DDMT annually.

To prepare the Draft EBS Report, Woodward-Clyde reviewed existing installation documents; federal, state, and local government records; and aerial photographs. A site visit was conducted that included visual inspections of the property and surrounding properties, and employee interviews. Additionally, reasonably obtainable federal, state, and local government records for adjacent properties were reviewed. No sampling activities were associated with this EBS.

This Final EBS Report for the DDMT incorporates comments received from installation personnel and the regulatory community on the Draft EBS Report, as appropriate. The information provided in this report is current as of October 1996.

The survey and parcelization of the DDMT identified parcels based on the environmental condition of the property. Tables 5-1a and 5-1b and Figures 5-1 and 5-2 present the parcels and corresponding categorizations. Of the 642 acres identified for transfer or lease, 50.5 acres are designated as Categories 1 through 4, as shown in the BRAC Acreage Summary Table. The remaining 591.5 acres of BRAC property are designated as Categories 5 through 7. Additionally, 149 acres of the categorized parcels were designated qualified for asbestos-containing material (ACM), lead-based paint (LBP), polychlorinated biphenyls (PCBs), and unexploded ordnance (UXO) and/or ordnance fragments.

EXECUTIVE SUMMARY

**BRAC ACREAGE SUMMARY TABLE
DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE**

| ENVIRONMENTAL CONDITION CATEGORY NUMBER | TOTAL ACREAGE | ACREAGE MINES QUALIFIED AREAS | TOTAL QUALIFIED ACREAGE | ACM- QUALIFIED ACREAGE | LBP- QUALIFIED ACREAGE | UXO- QUALIFIED ACREAGE |
|--|--------------------------|--|--|---------------------------------------|---------------------------------------|---------------------------------------|
| 1 | 6.2 | 4.4 | 1.8 | 1.8 | 1.7 | 0 |
| 2 | 10.8 | 0.2 | 10.6 | 10.6 | 10.5 | 0 |
| 3 | 3.4 | 0.4 | 3.0 | 3.0 | 3.0 | 0 |
| 4 | 30.1 | 4.2 | 25.9 | 25.9 | 25.9 | 0 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | 591.5 | 483.8 | 107.7 | 98.8 | 99.6 | 8.2 |
| Total | 642.0 | 493.0 | 149.0 | 140.1 | 140.7 | 8.2 |

Note: Acreage figures are approximate; figures have been calculated using AutoCad Release 12.

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LIST OF ACRONYMS

| ACRONYM | DEFINITION |
|----------------|---|
| ACM | asbestos-containing material |
| AIS | Asbestos Identification Survey |
| AOC | Area of Concern |
| AST | aboveground storage tank |
| BCT | BRAC Cleanup Team |
| BRAC | Base Realignment and Closure |
| CAIS | Chemical Agent Identification Set |
| CEHNC | U.S. Army Engineering and Support Center, Huntsville |
| CERCLA | Comprehensive Environmental Response, Compensation and Liability Act, as amended |
| CERCLIS | Comprehensive Environmental Response, Compensation and Liability Information System |
| CERFA | Community Environmental Response Facilitation Act |
| CFR | Code of Federal Regulations |
| CWM | chemical warfare materials |
| CWMP | Chemical Warfare Management Plan |
| DDMT | Defense Distribution Depot Memphis, Tennessee |
| DDRC | Defense Distribution Region Central |
| DDRE | Defense Distribution Region East |
| DLA | Defense Logistics Agency |
| DMR | Discharge Monitoring Report |
| DOD | Department of Defense |
| DPDO | Defense Property Disposal Office |
| DRMO | Defense Reutilization and Marketing Office |
| DRMR | Defense Reutilization and Marketing Region |
| EBS | Environmental Baseline Survey |
| EE/CA | Engineering Evaluation/Cost Analysis |
| EPA | U.S. Environmental Protection Agency |
| ER | Early Removal |

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LIST OF ACRONYMS

| | |
|-------|---|
| ERNS | Emergency Response Notification System |
| FINDS | Facility Index System |
| FY | Fiscal Year |
| HTRW | Hazardous, Toxic, and Radiological Waste |
| HUD | U.S. Department of Housing and Urban Development |
| IRA | Interim Remedial Action |
| IPMP | Installation Pest Management Program |
| IRP | Installation Restoration Program |
| kW | kilowatt |
| LBP | lead-based paint |
| LUST | leaking underground storage tank |
| mCi | milliCuries |
| MCL | maximum contaminant level |
| MCLG | maximum contaminant level goal |
| MDRA | Memphis Depot Redevelopment Agency |
| MFD | Memphis Fire Department |
| MFH | Military Family Housing |
| MLGW | Memphis Light, Gas, and Water |
| MSDS | Material Safety Data Sheet |
| MWR | Morale Welfare Recreation |
| NCP | National Contingency Plan |
| NFA | No Further Action |
| NOV | Notice of Violation |
| NPDES | National Pollutant Discharge Elimination System |
| NPL | National Priorities List |
| NRC | Nuclear Regulatory Commission |
| OEW | Ordnance and Explosive Waste |
| OPD | Office of Planning and Development, Memphis and Shelby County |
| ORM | Other Regulated Material |

LIST OF ACRONYMS

| | |
|---------|---|
| OU | Operable Unit |
| PAH | polynuclear aromatic hydrocarbon |
| PCB | polychlorinated biphenyl |
| PCE | tetrachloroethylene |
| pCi/L | picoCuries per liter |
| PCP | pentachlorophenol |
| PMCD | Program Manager for Chemical Demilitarization |
| POL | petroleum, oil, and lubricants |
| PP | petroleum product |
| ppm | parts per million |
| RCRA | Resource Conservation and Recovery Act |
| RCRIS | Resource Conservation and Recovery Information System |
| RFA | RCRA Facility Assessment |
| RI/FS | Remedial Investigation/Feasibility Study |
| ROD | Record of Decision |
| SPL | State Priority List |
| SWMU | Solid Waste Management Unit |
| TCE | trichloroethylene |
| TDEC | Tennessee Department of Environment and Conservation |
| TEU | U.S. Army Technical Escort Unit |
| TPH | total petroleum hydrocarbon |
| TSD | treatment, storage, and disposal |
| TSS | total suspended solids |
| UPS | Uninterruptable Power Supply |
| USACE | U.S. Army Corps of Engineers |
| USAEHA | U.S. Army Environmental Hygiene Agency |
| USATHMA | U.S. Army Toxic and Hazardous Materials Agency |
| USGS | U.S. Geological Survey |
| UST | underground storage tank |

LIST OF ACRONYMS

| | |
|-----|---------------------------|
| UXO | unexploded ordnance |
| VOC | volatile organic compound |
| XRF | X-ray fluorescence |

TAB

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SECTION ONE**INTRODUCTION****1.0 INTRODUCTION**

The Environmental Baseline Survey (EBS) Report for the Defense Distribution Depot Memphis, Tennessee (DDMT) was prepared by Woodward-Clyde Federal Services (Woodward-Clyde) for the U.S. Army Corps of Engineers (USACE) under Contract No. DACA67-95-D-1001, Delivery Order No. 0010. This section describes the purpose and scope of the work conducted in preparing the U.S. Army Base Realignment and Closure (BRAC) 95 EBS report.

The Final EBS Report for the DDMT incorporates comments received from installation personnel and the regulatory community on the Draft EBS Report, as appropriate. The comments and corresponding responses have been compiled in a Comment Response Package that is included as Appendix A. The information provided in this report is current as of October 1996.

The DDMT, located in Shelby County, Tennessee (Figure 1-1), is a U.S. government property selected for closure by the BRAC 95 Commission. The DDMT encompasses 642 acres, all of which have been identified as BRAC property, subject to transfer or lease.

The installation was established in 1942 to provide stock control, storage, and maintenance services for the Army Engineer, Chemical, and Quartermaster Corps. Historically, the DDMT has been used as a principal distribution center for the Defense Logistics Agency (DLA) for shipping and receiving hazardous materials, textile products, food products, electronic equipment, construction materials, and industrial, medical, and general supplies.

1.1 BRAC PROGRAM OVERVIEW

Prior to the late 1980s, base closure was a time-consuming and inconsistent process. The Secretary of Defense, in cooperation with Congress, proposed a base closure law to create a process to close bases and bring base infrastructure in line with force structure. Public Law (PL) 100-526, enacted in 1988, created the Commission on Base Realignment and Closure. The law charged the Commission with recommending installations for closure or realignment based on an independent study of the domestic military base structure.

SECTION ONE**INTRODUCTION**

The closure process was refined in PL 101-510, in which Congress created the Defense Base Closure and Realignment Commission. The process identified installations based on eight criteria, including four military value criteria; savings and return-on-investment; and the economic and environmental impacts of closure. The Commission met in 1991, 1993, and 1995, and its recommendations are currently being implemented by DOD.

The BRAC environmental restoration program is similar to DOD's Installation Restoration Program (IRP), but has been expanded to include non-Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) contamination substances that are not normally addressed under the IRP, including asbestos, lead-based paint (LBP), polychlorinated biphenyls (PCBs), radon, unexploded ordnance (UXO), and radionuclides.

The Community Environmental Response Facilitation Act (CERFA) (PL 102-426) was enacted in 1992 and amends Section 120 of CERCLA. CERFA directs federal agencies to evaluate all base closure and realignment property to identify uncontaminated parcels and allows the transfer or lease of remediated parcels when the successful operation of an approved remedy has been demonstrated. The CERFA identification process considers hazardous substances and petroleum products.

1.2 PURPOSE AND SCOPE OF ENVIRONMENTAL BASELINE SURVEY

The BRAC 95 environmental restoration program for the DDMT was initiated by conducting an EBS. The EBS included the review of existing installation environmental documents; federal, state, and local government records; and aerial photographs. A site visit, which included visual inspections and employee interviews, was also conducted. Additionally, reasonably obtainable federal, state, and local government records for adjacent properties were reviewed. The EBS report describes the environmental condition of the property and will be used to support determination of the suitability to transfer or lease.

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SECTION ONE

INTRODUCTION

The purpose of the EBS is to classify discrete areas at the DDMT into one of seven standard environmental condition of property area types as defined by CERCLA 120 (h), CERFA guidance and the DOD *BRAC Cleanup Plan (BCP) Guidebook* (DOD 1993). This is achieved by:

- Identifying, characterizing, and documenting the obvious presence or likely presence of a release or threatened release of a hazardous substance or petroleum product associated with the historical and current use of the DDMT.
- Identifying, characterizing, and documenting the obvious presence or likely presence of a release or threatened release of a hazardous substance or petroleum product from an adjacent property that is likely to cause or contribute to contamination at the DDMT.

No sampling or analysis activities were conducted during this survey.

1.3 DEFINITIONS

The following definitions are used in this report:

- **BRAC property:** The installation real property that is subject to transfer or lease. Real property includes land and rights in land, ground improvements, utility distribution systems, pipes or pipelines, buildings, and other structures located on the property and affixed to the land.
- **Adjacent properties:** Those properties, off the installation, contiguous to or nearby the property boundaries being surveyed that are likely to cause or contribute to contamination and affect the results of the EBS or the classification of the BRAC property into standard environmental condition of property area types.
- **Parcel:** An area of BRAC property that can be segregated from its surrounding areas based on the environmental condition of the area.

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SECTION ONE

INTRODUCTION

- **Memphis Depot Redevelopment Agency (MDRA) Parcel:** The area of property designated as an individual parcel by MDRA.
- **Hazardous substances:** Substances listed in 40 Code of Federal Regulations (CFR) 302.4, CERCLA Hazardous Substance Table.
- **Petroleum:** Any petroleum product or its derivatives, including aviation fuel and motor oil.
- **Environmental condition of property area type:** Any of the seven standard environmental condition of property area types (categories) as defined in CERCLA 120 (h), the CERFA guidance and the DOD *BCP Guidebook* (DOD 1993) and presented in Table 1-1.

Table 1-1
ENVIRONMENTAL CONDITION OF
PROPERTY DEFINITIONS

| CATEGORY 1 |
|--|
| Areas where no storage, release, or disposal of hazardous substances or petroleum products has occurred (including no migration of these substances from adjacent properties). |
| CATEGORY 2 |
| Areas where only storage of hazardous substances or petroleum products has occurred, but no release, disposal, or migration has occurred. |
| CATEGORY 3 |
| Areas where storage, release, disposal, or migration of hazardous substances or petroleum products has occurred, but at concentrations that do not require a removal or remedial action. |
| CATEGORY 4 |
| Areas where storage, release, disposal, or migration of hazardous substances or petroleum products has occurred, and all removal or remedial actions to protect human health and the environment have been taken. |
| CATEGORY 5 |
| Areas where storage, release, disposal, or migration of hazardous substances or petroleum products has occurred, and removal or remedial actions are underway, but all required actions have not yet been implemented. |

SECTION ONE

INTRODUCTION

Table 1-1
(Continued)

| CATEGORY 6 |
|--|
| Areas where storage, release, disposal, or migration of hazardous substances or petroleum products has occurred, but required removal or remedial actions have not yet been initiated. |
| CATEGORY 7 |
| Areas that are not evaluated or require additional evaluation. |

- **Suitable for transfer:** Parcels that are designated as Category 1, 2, 3, or 4 are suitable for transfer or lease, subject to consideration of the non-CERCLA qualifiers.
- **Not suitable for transfer:** Parcels that are currently designated as Category 5, 6, or 7 are not suitable for transfer.
- **Reserve enclave:** An area of the installation real property that will be retained by DOD and, therefore, is not categorized into standard environmental condition of property area types under the EBS.
- **Parcel labels:** Each parcel has been given a number to which appropriate descriptive labels are attached. The numbers consist of a unique parcel identification number and an environmental condition of the property category number. The labels consist of a designation describing the type of contamination or storage, if applicable. The following designations are used to indicate the type of contamination or storage present in a parcel.

PS = Petroleum storage

PR = Petroleum release or disposal

HS = Hazardous substance storage

HR = Hazardous substance release or disposal

SECTION ONE**INTRODUCTION**

Examples of this identification system follow:

- 2(1) indicates that the second parcel is designated as a Category 1 parcel.
- 12(3)HR indicates that the twelfth parcel is designated as a Category 3 because of a documented hazardous substance release, but the concentrations do not warrant remediation.

- **Qualified parcels:** Areas containing or suspected of containing non-CERCLA contamination substances that may limit or preclude the transfer or lease of the property for unrestricted use. These parcels will be delineated separately and labeled with the letter "Q" for "qualified." Qualified parcels overlay all environmental condition of the property categories (i.e., Categories 1 through 7). The qualified parcel labels are identified with the following designator, as applicable:

| | | |
|----|---|---|
| A | = | Asbestos-containing material (ACM) |
| L | = | Lead-based paint (LBP) |
| P | = | Polychlorinated biphenyls (PCBs) |
| R | = | Radon |
| X | = | Unexploded ordnance (UXO) and/or ordnance fragments |
| RD | = | Radionuclides |

For all parcels, "(P)" is used to indicate that the presence of a contaminant is possible, but that data are unavailable for verification.

For example, the fifth parcel with the presence of asbestos-containing material and the possible presence of lead-based paint will be labeled 5Q-A/L(P).

SECTION ONE**INTRODUCTION****1.4 LIMITATIONS**

Although this investigation was performed professionally, no investigation may be considered so comprehensive as to guarantee complete information regarding the possible presence of materials on the installation that currently or in the future may be considered hazardous. The conclusions presented in this EBS report are based on information that was reasonably available from designated installation contacts, other public sources, and visual inspections at the time the EBS was conducted. In addition, information obtained from the records review, interviews, and visual inspections has been assumed to be correct and complete, unless contradictory information was obtained through other sources.

1.5 GENERAL GEOGRAPHIC AND ENVIRONMENTAL SETTINGS**1.5.1 Physical Setting**

The DDMT encompasses 642 acres in the city of Memphis, Shelby County, Tennessee. The DDMT is located in the south-central section of Memphis, four miles southeast of the Central Business District and one mile north of Memphis International Airport (Figure 1-1). The installation is located in a mixed residential, commercial, and industrial land use area.

The DDMT is generally described as consisting of two geographic areas, the main installation and Dunn Field. The main installation area consists of 574 acres bordered by Airways Boulevard on the east, Perry Road on the west, Ball Road to the south, and Dunn Road to the north. The main installation area is highly developed and contains most of the buildings and material storage yards for the facility. The Dunn Field area is located just to the north, across Dunn Road from the northwest quadrant of the main installation area. Dunn Field consists of 68 acres of mostly undeveloped land, which has historically been used for storage of bauxite and fluorspar and for waste disposal. The DDMT contains approximately 110 buildings, 26 miles of railroad tracks, and 28 miles of paved streets. Approximately 126 acres are used for covered storage space and approximately 138 acres are used for open storage space.

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SECTION ONE**INTRODUCTION****1.5.2 Demographics**

The DDMT is located in the south-central section of the city of Memphis in an area of widely varying uses. Formerly a residential and agricultural area, the surrounding area is characterized by small commercial and manufacturing uses north and east of the DDMT and single-family residences south and west of the DDMT. Numerous small church buildings are scattered throughout the residential neighborhoods. Several schools are located in the neighborhoods, as well as two neighborhood parks.

Airways Boulevard, located on the east border of the main installation, is the most heavily traveled thoroughfare in the vicinity. It is developed with numerous small, commercial establishments, particularly in the area from the DDMT southward to the Airways Boulevard interchange with Interstate 240. Businesses along Airways Boulevard are typical of highway commercial districts and include convenience stores, liquor stores, restaurants, used car dealers, and service stations. Other commercial establishments are located to the north, south, and west of the DDMT. Most are small groceries or convenience stores that serve their immediate neighborhoods. Memphis Light, Gas, and Water (MLGW) operates a large substation located northwest of the DDMT along Person Avenue.

To the north of the DDMT are the Frisco Railroad and Illinois Central Gulf Railroad rail lines. A number of large industrial and warehousing operations are located along the rail lines in this area, including the Kellogg Company; Laramie Tires; Lanigan Storage and Van Company; the Kroger Company; the National Manufacturing Company, Incorporated; and United Uniforms. A triangular area located immediately to the north of the DDMT along Dunn Road also contains several industrial firms.

Most of the land surrounding the DDMT is highly developed; however, three relatively large, undeveloped sites exist in the general area. The largest site is located to the north of the DDMT at Person Avenue and Rozelle Street. The other undeveloped areas are located south of the DDMT along Ball Road and Ketchum Road in the vicinity of the Orchid Manor Apartments, and east of the DDMT along Dwight Street.

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In Memphis, zoning controls and subdivision requirements are under the jurisdiction of the Memphis and Shelby County Office of Planning and Development (OPD). The DDMT property is zoned Light Industrial. This designation extends to several contiguous land parcels located east of the DDMT along Airways Boulevard, in the vicinity of the Kellogg plant westward past Rozelle Street. Several smaller areas adjacent to those mentioned above are zoned Heavy Industrial. Most of the remaining land in the vicinity of the DDMT is zoned for residential use.

The 1990 census data for the city of Memphis and Shelby County is listed in Table 1-2 (Memphis and Shelby County Division of Planning and Development 1993).

Table 1-2
CENSUS DATA FOR THE CITY OF MEMPHIS
AND SHELBY COUNTY

| | 1990 DATA |
|-----------------|-----------|
| City of Memphis | 610,337 |
| Shelby County | 826,330 |

1.5.3 Climatology

The DDMT is located in the West Tennessee Climatic Division of the United States (Law Environmental 1990c). This division experiences a typical continental climate with warm, humid summers and cold winters. The average temperatures are 40 degrees Fahrenheit (°F) in the winter and 80°F in the summer. The Memphis area has a 30-year annual precipitation average of 50 inches. Normally, precipitation is heaviest during the winter and early spring. A second, less significant rainfall period occurs as thundershowers during late spring and early summer. The one-year, 24-hour average rainfall for the area surrounding the DDMT is 3.4 inches (Law Environmental 1990c). Prevailing winds are from the southwest.

1.5.4 Hydrology

Surface drainage at the DDMT is accomplished by overland flow to swales, ditches, concrete-lined channels, and a storm drainage system. The majority of surface drainage at the Dunn Field area is achieved by overland flow to adjacent properties located to the north and west of the installation (Figure 1-2). The northeast quadrant of the Dunn Field area drains to the east, to a concrete-lined

SECTION ONE**INTRODUCTION**

channel or to adjacent properties located to the north. The main installation's surface drainage is achieved by overland flow to a storm drainage system. The concrete-lined channels and storm drainage system are directed to Nonconnah Creek or Cane Creek, a tributary of Nonconnah Creek. Nonconnah Creek drains into Lake McKellar, a tributary of the Mississippi River. Where exposed, undisturbed installation surface soils are predominantly grassed, fine-grained semi-cohesive materials which tend to promote large volumes of rapid runoff. Paved and built-up sections of the installation also tend to generate significant amounts of runoff.

Topographically, most of the DDMT is generally level with or above the surrounding terrain; therefore, the DDMT receives little or no run-on from adjacent areas.

Two permanent surface water bodies exist at the DDMT. The larger is Lake Danielson, which is approximately four acres in size. Lake Danielson receives a significant amount of the installation's stormwater runoff, primarily from the area where Buildings 470, 489, 490, 670, 689, and 690 are located. Lake overflow is channeled through a drop inlet at the dam through a concrete-lined channel to a culvert extending beneath N Street and Ball Road. The smaller surface water body is the golf course pond. It receives runoff from the surrounding golf course; the area where Buildings 249, 450, 251, 265, 270, 271 are located; and the south parking lot. Pond overflow is directed to the culvert extending beneath N Street and Ball Road. Surface water flow is then directed to Nonconnah Creek via unnamed tributaries.

1.5.5 Geology and Soils

Topographically, the DDMT is situated in an area of gently rolling loess hills. Most of the DDMT terrain is fairly uniform, with elevations ranging from 282 to 300 feet above mean sea level. Five distinct surface soil units have been mapped at the DDMT: the Falaya Silt Loam, the Filled Land-Silty, the Graded Land, the Memphis Silt Loam, and the Memphis Silt Loam 2. Surface soils at the developed portion of the DDMT main installation primarily consist of filled land (CH2M Hill 1995b).

Geologically, the area around the DDMT is located in the north-central part of the Mississippi embayment, which is a broad, trough-like geologic structure that plunges to the south. The geologic

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units that have been identified at the DDMT are: loess, which can contain "perched" water-bearing zones for short periods of time after a rainfall event; fluvial (terrace) deposits, which contain the site's shallow aquifer; the Jackson Formation/Upper Claiborne Group, which is a confining unit between aquifers; and the Memphis Sand, which represents the region's most important source of water.

Subsurface soils at the DDMT consist of moderately drained to well drained silty deposits. The soil in graded areas varies from clay to sandy-silt. The permeability range for the soil is 4.4×10^{-4} to 1.4×10^{-3} centimeters per second (CH2M Hill 1995b). The upper strata in the Dunn Field area, located adjacent to the DDMT main installation area, consists of a loess layer underlain by fluvial deposits of sand and gravel, which includes a perched water element.

The DDMT is situated approximately 40 miles southeast of Marked Tree, Arkansas, where the abrupt termination of one of the two major deeply buried faults of the New Madrid region seismic zone is located. This places the DDMT in one of the highest earthquake risk zones east of the Rocky Mountains. Three of the greatest earthquakes in American history occurred in 1811 through 1812 in the New Madrid seismic zone. The recurrence of quakes of similar magnitude is estimated to be 600 to 800 years. Although thousands of microearthquakes are recorded, very few earthquakes have been felt in the Memphis/Shelby County area.

1.5.6 Hydrogeology

The DDMT is underlain by a layer of unsaturated loess, a firm silty clay or clayey silt that is approximately 20 to 30 feet thick. Where intact and undisturbed, the loess unit tends to limit precipitation infiltration (recharge) to significant underlying aquifers. Sandy zones within the loess may become seasonal perched water-bearing zones that contain water for short periods of time after rainfall events.

Terrace deposits underlie the loess. The lower, saturated portion of the terrace deposits is referred to as the Fluvial Aquifer, which is the uppermost unconfined aquifer beneath the DDMT. The saturated thickness of the Fluvial Aquifer varies from 5.7 feet to 18 feet at the DDMT, and the

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water level top varies from 37 to 145 feet below ground surface (CH2M Hill 1995b). The Fluvial Aquifer is not used as a drinking water source within the city of Memphis.

The Memphis Sand Aquifer underlies the Fluvial Aquifer and is the primary source of drinking water for the city of Memphis.

The Fluvial and Memphis Sand Aquifers are separated by the Jackson Formation/Upper Claiborne Group, which generally consists of a high-plasticity clay of variable thickness. The depth to the top of the confining clay unit at the DDMT ranges from approximately 70 feet below ground surface on the east and west sides of Operable Unit 4 (OU-4) (see Section 4.1) to approximately 160 feet below ground surface in the north-central portion of OU-4, where a structural depression in the top of the clay unit exists. The thickness of this confining stratum ranges from approximately 85 feet to less than 15 feet. The Memphis Sand Aquifer underlies the DDMT at a depth of approximately 180 feet below ground surface and averages 500 feet in thickness. Some recharge is derived from overlying or hydraulically communicating units; however, most of its recharge is derived from the unit's outcrop area, located generally east of Memphis. The outcrop area consists of a broad band ranging in width from approximately 50 miles at the Tennessee-Mississippi border to less than 15 miles at the Tennessee-Kentucky border (in Henry County, Tennessee). The southernmost part of the outcrop area in Tennessee begins in southeasternmost Shelby County, Tennessee, although the unit's outcrop continues south into Mississippi and north into Kentucky.

The Fort Pillow Sand Aquifer underlies the DDMT at an approximate depth of 1,400 feet below ground surface. It averages approximately 200 feet in thickness. The unit contains groundwater under artesian (confined) conditions and derives most of its recharge from unit outcrop areas and hydrogeologic units in hydraulic communication (CH2M Hill 1995b).

Figure 1-3 presents the 1996 potentiometric surface map of the Fluvial Aquifer at the DDMT (CH2M Hill 1995b).

Two general groundwater flow regimes occur in the Fluvial Aquifer at the DDMT. In the Dunn Field area, a west-southwest direction of flow is indicated by the contours. However, over the majority of the main installation, the direction of groundwater flow is toward the depression in the

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top of the clay-confining unit on the northern portion of OU-4 just south of the southwest corner of Dunn Field. This area of apparent convergent flows is suspected to be an area with hydraulic interconnection between the Fluvial Aquifer and the underlying Memphis Sand Aquifer. An investigation of the presence or absence of a hydraulic connection between the aquifers is planned as part of the ongoing Remedial Investigation/Feasibility Study (RI/FS).

VICINITY MAP
DEFENSE DEPOT MEMPHIS

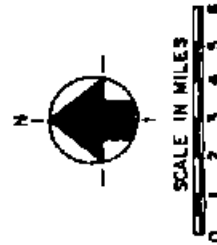
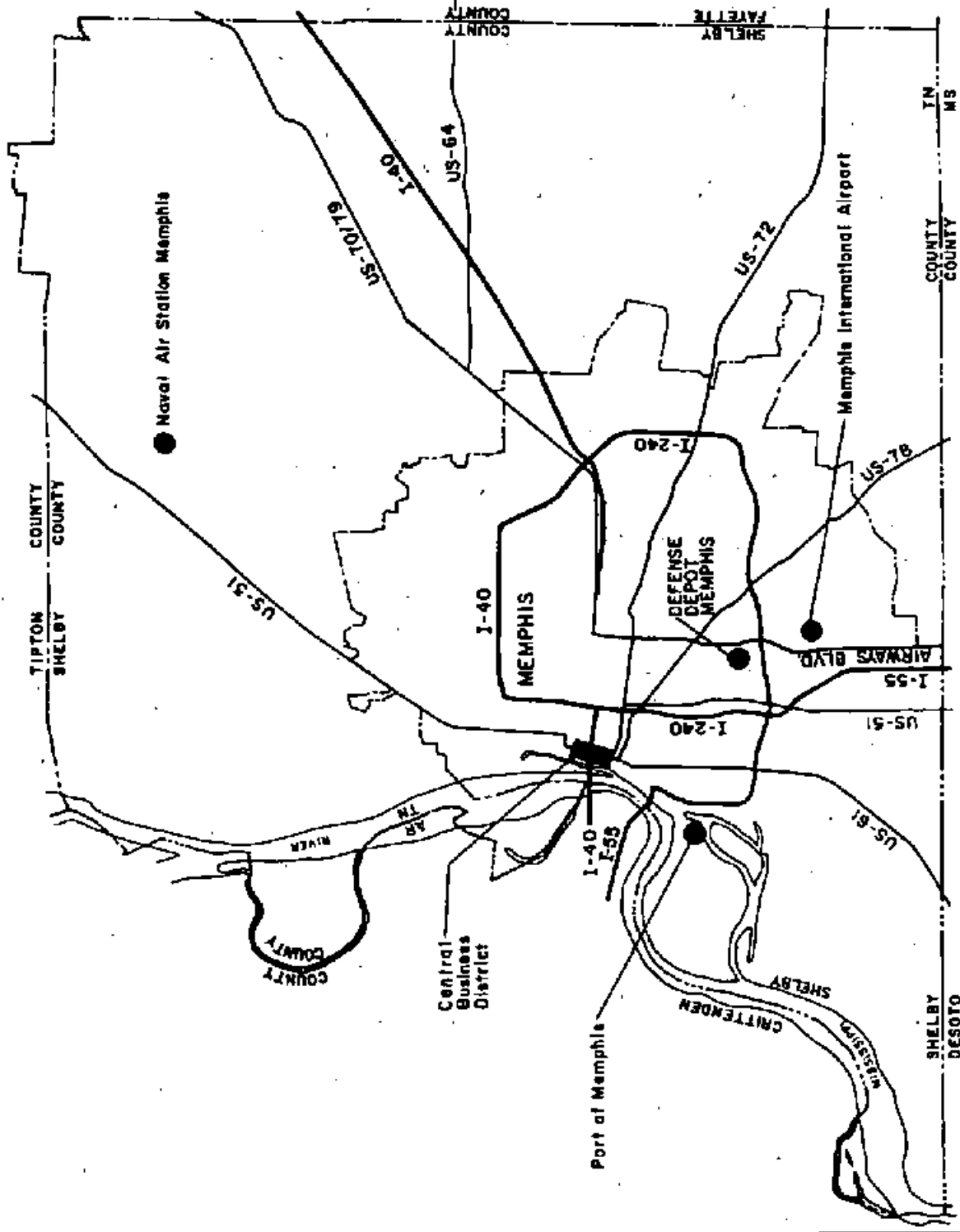
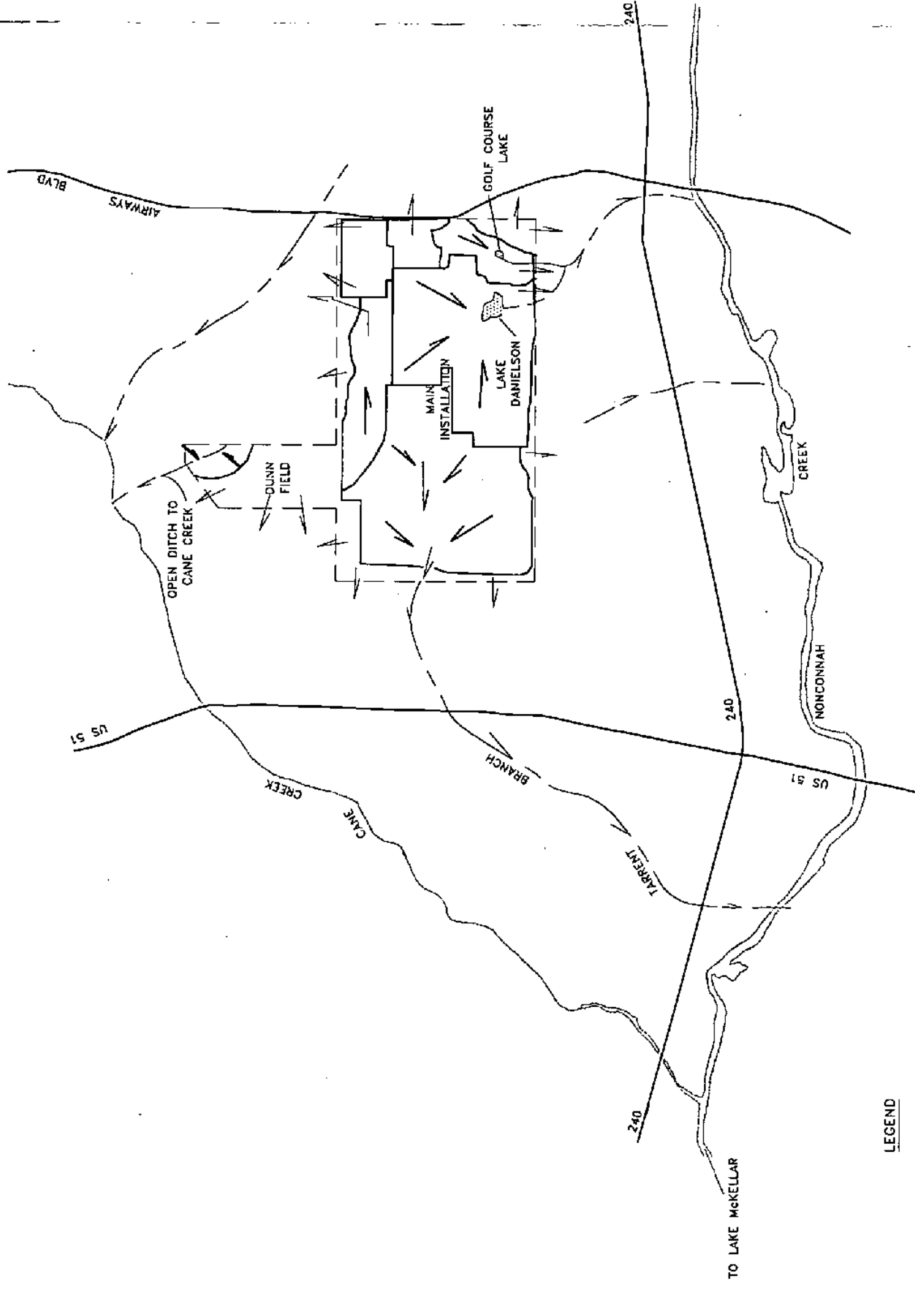


FIGURE
1-1

LOCATION MAP

Woodward-Clyde

DEFENSE DISTRIBUTION DEPOT, MEMPHIS, TENNESSEE



LEGEND

- INTERMITTENT STREAM
- BASIN BOUNDARIES
- DRAINAGE DIRECTION, LOCAL STORM DRAINS
- DRAINAGE DIRECTION, OVERLAND FLOW
- DEFENSE DEPOT BOUNDARY

Source: LAW ENVIRONMENTAL, 1990



FINAL

| REVISION | DATE | DESCRIPTION | BY |
|----------|----------|-------------|-----|
| 1 | 5/15/96 | DRAFT | KLF |
| 2 | 9/18/96 | DRAFT FINAL | NJE |
| 3 | 10/30/96 | FINAL | NJE |

Woodward-Clyde

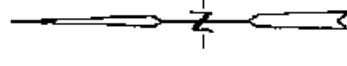
DEFENSE DISTRIBUTION DEPOT
MEMPHIS, TENNESSEE

SURFACE DRAINAGE AT
DEFENSE DISTRIBUTION DEPOT
MEMPHIS, TENNESSEE

FIGURE 1-2

| EXISTING MONITORING WELL LOCATIONS AND NUMBER | POTENTIOMETRIC CONTOUR (FT/AMSL) 5 FT CONTOUR INTERVAL | GROUNDWATER GRADIENT DIRECTION IN THE FLUVIAL AQUIFER | ODWT BOUNDARY | RAILROAD TRACKS | WATER LEVEL ELEVATION (FT/AMSL - 2/14/96) |
|---|---|---|---------------|-----------------|--|
| 210 | | | | | |

NOTE:
ELEVATIONS ARE IN FEET
ABOVE NATIONAL GEODETIC
VERTICAL DATUM.



FINAL

| REVISION | DATE | DESCRIPTION | BY |
|----------|----------|-------------|-----|
| 1 | 5/5/96 | DRAFT | KLF |
| 2 | 9/18/96 | DRAFT FINAL | NJE |
| 3 | 10/30/96 | FINAL | NJE |
| | | | |

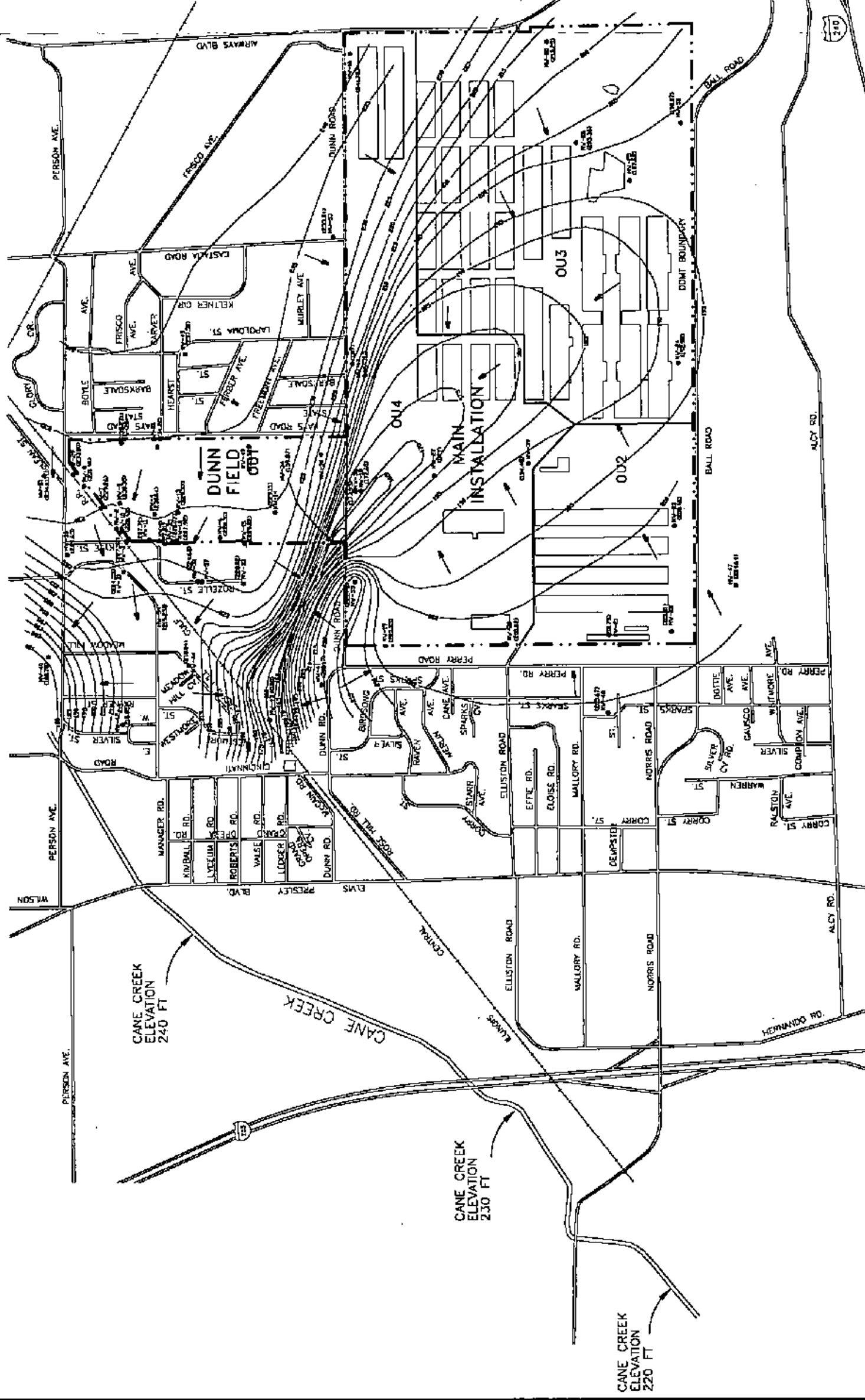
Woodward-Clyde



DEFENSE DISTRIBUTION DEPOT
MEMPHIS, TENNESSEE

JANUARY 1996
POTENTIOMETRIC SURFACE
MAP OF FLUVIAL AQUIFER

FIGURE 1-3



NONCONNAH
CREEK ELEVATION
220 FT

CREEK

NONCONNAH
CREEK ELEVATION
210 FT

TAB

2.0

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SECTION TWO

SOURCES OF INFORMATION

2.0 SOURCES OF INFORMATION

The EBS investigation meets the requirements of CERCLA (1980) Section 120(h), as amended by CERFA and implemented by DOD. This section describes the sources of information that were used to support the determination of the environmental condition of the DDMT BRAC property.

2.1 INSTALLATION/BRAC PROPERTY

Relevant information and documents that were used to conduct the DDMT EBS are identified in the following sections. This information includes environmental studies; federal, state, and local regulatory records; and interviews with installation personnel. Visual inspections of the installation property and adjacent properties were also conducted.

2.1.1 Existing Documents

Existing documents were reviewed to evaluate the environmental conditions at the DDMT. The 38 documents presented in Table 2-1 are the primary documents used in the preparation of this EBS report. Each document has a document identification number, which is referenced in the CERFA map tables (Tables 5-1a and 5-1b) in Section Five. These documents are the primary source of evidence for the resulting environmental condition of property area categorization. A complete list of references is included in Section Six.

Table 2-1
PRIMARY DOCUMENTS

| DOCUMENT TITLE | AUTHOR AND REFERENCE | DATE | EBS SOURCE OF EVIDENCE DOCUMENT IDENTIFICATION NUMBER |
|---|---|------|---|
| <i>RFA Report</i> | A.T. Kearney, Inc. for the U.S. Environmental Protection Agency | 1990 | 1 |
| <i>Lead-Based Paint Risk Assessment for the Defense Distribution Depot Memphis, Tennessee</i> | Barge, Waggoner, Sumner, and Cannon | 1995 | 2 |
| <i>Installation Assessment of DDMT</i> | Chemical Systems Laboratory | 1981 | 3 |

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Table 2-1
(Continued)

| DOCUMENT TITLE | AUTHOR AND REFERENCE | DATE | EBS SOURCE OF EVIDENCE DOCUMENT IDENTIFICATION NUMBER |
|---|--|------|---|
| <i>No Further Action Report, Draft</i> | CH2M Hill | 1994 | 4 |
| <i>Generic Remedial Investigation/Feasibility Study Work Plan</i> | CH2M Hill | 1995 | 5 |
| <i>Operable Unit 1 - Field Sampling Plan</i> | CH2M Hill | 1995 | 6 |
| <i>Operable Unit 2 - Field Sampling Plan</i> | CH2M Hill | 1995 | 7 |
| <i>Operable Unit 3 - Field Sampling Plan</i> | CH2M Hill | 1995 | 8 |
| <i>Operable Unit 4 - Field Sampling Plan</i> | CH2M Hill | 1995 | 9 |
| <i>Record of Decision for Interim Remedial Action of the Groundwater at Dunn Field (OU-1)</i> | CH2M Hill | 1995 | 10 |
| <i>Screening Sites Field Sampling Plan for Defense Distribution Depot Memphis</i> | CH2M Hill | 1995 | 11 |
| <i>Technical Memorandum, Summary of Information Inventory, Early Removal Task</i> | CH2M Hill | 1995 | 12 |
| <i>Transmittal of Selection of Early Remedial Sites</i> | CH2M Hill | 1995 | 13 |
| <i>1993 Spill Response Summary</i> | Defense Logistics Agency, DDMT | 1993 | 14 |
| <i>Facility List</i> | Defense Logistics Agency, DDMT | 1995 | 15 |
| <i>1995 Spill Response Checklist</i> | Defense Logistics Agency, DDMT | 1995 | 16 |
| <i>Spill Response for DDMT 1990, 1991, 1992</i> | Defense Logistics Agency, DDMT | 1992 | 17 |
| <i>Location of Tanks on Depot to be Cleaned Map</i> | Facilities Engineering Division, DDMT | 1993 | 18 |
| <i>Master Plan Report</i> | Harland Bartholomew & Associates, Inc. | 1988 | 19 |
| <i>Depot Layout Plan</i> | Office of Post Engineer, DDMT | 1947 | 20 |
| <i>Location of Materials Buried in Dunn Field Map</i> | Office of the Post Engineer, DDMT | 1984 | 21 |
| <i>Asbestos Identification Survey for Buildings 144-209</i> | The Pickering Firm, Incorporated | 1993 | 22 |
| <i>Asbestos Identification Survey for Building 210-257</i> | The Pickering Firm, Incorporated | 1993 | 23 |

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SOURCES OF INFORMATION

Table 2-1
(Continued)

| DOCUMENT TITLE | AUTHOR AND REFERENCE | DATE | EBS SOURCE OF EVIDENCE DOCUMENT IDENTIFICATION NUMBER |
|--|---|------|---|
| <i>Asbestos Survey for Buildings 260-271</i> | The Pickering Firm, Incorporated | 1993 | 24 |
| <i>Storage Tank Survey</i> | The Pickering Firm, Incorporated | 1993 | 25 |
| <i>Asbestos Identification Survey of Buildings 139-198</i> | The Pickering Firm, Incorporated | 1994 | 26 |
| <i>Asbestos Identification Survey for Buildings 211-795</i> | The Pickering Firm, Incorporated | 1994 | 27 |
| <i>Asbestos Identification Survey for Buildings 229-309</i> | The Pickering Firm, Incorporated | 1994 | 28 |
| <i>Asbestos Identification Survey of Buildings 319-359</i> | The Pickering Firm, Incorporated | 1994 | 29 |
| <i>Asbestos Identification Survey of Buildings 319-490</i> | The Pickering Firm, Incorporated | 1994 | 30 |
| <i>Asbestos Identification Survey for Buildings 429-530</i> | The Pickering Firm, Incorporated | 1994 | 31 |
| <i>Asbestos Identification Survey of Buildings 549-650</i> | The Pickering Firm, Incorporated | 1994 | 32 |
| <i>Asbestos Identification Survey of Buildings 670-720</i> | The Pickering Firm, Incorporated | 1994 | 33 |
| <i>Asbestos Identification Survey of Buildings 737-793</i> | The Pickering Firm, Incorporated | 1994 | 34 |
| <i>Asbestos Survey of Buildings 1084-Gatehouse #25</i> | The Pickering Firm, Incorporated | 1994 | 35 |
| <i>Asbestos Survey on 31 Buildings (801-995)</i> | The Pickering Firm, Incorporated | 1994 | 36 |
| <i>Archives Search Report Findings, Ordnance and Explosive Waste Chemical Warfare Materials</i> | U.S. Army Corps of Engineers, Huntsville Division | 1995 | 37 |
| <i>Remedial Investigation Final Report for U.S. Army Corps of Engineers, Huntsville Division</i> | Law Environmental | 1990 | 38 |

2.1.2 Federal, State, and Local Government Regulatory Records

A search of available federal, state, and local records pertaining to the DDMT and a search of reasonably obtainable records of adjacent (within a two-mile radius of the installation) properties

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SOURCES OF INFORMATION

was performed. In addition, a search of the environmental databases listed in Table 2-2 was conducted.

Table 2-2
ENVIRONMENTAL DATABASES

| DATABASE | CONTENTS |
|---|--|
| National Priorities List (NPL) | The NPL lists Superfund sites, which are sites that are determined by EPA to pose an immediate public health hazard requiring immediate cleanup response. |
| Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) | The EPA CERCLIS database contains information on CERCLA sites, and is updated periodically. |
| Emergency Response Notification System (ERNS) | EPA maintains ERNS, which is a repository for information on hazardous spills nationwide. This information is based on reports filed by local agencies (e.g., municipal fire, police, or environmental departments), county agencies, state entities, and federal agencies (e.g., U.S. Coast Guard, National Response Center, and EPA). |
| Resource Conservation and Recovery Act (RCRA) Facilities Database | Facilities listed in this EPA database are RCRA facilities for which a Corrective Action has been issued to address waste handling problems. |
| Resource Conservation and Recovery Information System (RCRIS) | This database contains information on all RCRA facilities. The facility types include: large quantity generators; small quantity generators; conditionally exempt facilities; transporter facilities; and treatment, storage, and disposal (TSD) facilities. Large quantity generators generate over 1,000 kilograms (kg) hazardous waste per month, or greater than 1 kg acutely hazardous waste as defined by RCRA. Small quantity generators generate more than 100 kg and less than 1,000 kg of hazardous waste during any calendar month. |
| Facility Index System (FINDS) | EPA references any facility or event that has been issued an EPA identification number; the EPA program office that issued the identification number is also listed. These listings do not necessarily reflect releases. |
| Tennessee State Hazardous Waste Sites and Landfills Database | This state of Tennessee database contains state-designated hazardous waste cleanup sites and landfills within a one-mile radius of the DDMT. |
| Tennessee State Registered Underground Storage Tanks (USTs) Database | This database contains information on all known registered USTs in the state of Tennessee, and is updated periodically. |
| Tennessee Leaking Underground Storage Tanks (LUSTs) Database | This database contains information on USTs reported to the state of Tennessee as leaking. |

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SECTION TWO**SOURCES OF INFORMATION**

The complete database search report, including a map indicating locations of sites identified below, is provided in Appendix B. The database search has identified the following information:

- The DDMT is identified as an NPL site.
- The DDMT is identified as a CERCLA site.
- The DDMT is identified as a RCRA large quantity generator.
- The DDMT is identified as a RCRA TSD facility.
- Two spills were reported for the DDMT. One was a 60-gallon spill of tetrachloroethylene (PCE) that occurred on March 9, 1990. The second was a 50-gallon spill of PCB-containing oil. A specific facility or location at the DDMT was not reported for either spill. However, DDMT records provided further information regarding these spills. This information is discussed in Section 4.1.3 and Table 4-1 (Buildings 737 and 873).
- The DDMT was listed on the Tennessee List of Inactive Hazardous Substance Sites, but was removed from this list in February 1996.
- No LUSTs were reported for the DDMT.
- Twenty-five USTs were reported for the DDMT. No specific facilities were listed. However, DDMT records indicate that all but two USTs have either been closed in place or removed.

2.1.2.1 Permits and Permit Applications

Information concerning permits and permit applications was identified through the records review. The installation currently operates under the permits listed in Table 2-3.

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SOURCES OF INFORMATION

Table 2-3
ACTIVE DDMT PERMITS

| TYPE OF PERMIT | PERMIT NUMBER | FACILITY | EXPIRATION DATE |
|---|--|--|--------------------|
| RCRA Hazardous Waste Generator | EPA Identification Number TN4210020570 | Installation | None |
| RCRA Part B Permit | EPA Identification Number TN4210020570 | Installation | September 28, 2000 |
| National Pollutant Discharge Elimination System (NPDES) | TN0022322 | Various stormwater system outfalls | September 29, 1998 |
| Air Pollution Control Operating Permit | 0209-01P | Abrasive blast cleaning, Building 1088 | October 30, 1995 |
| Air Pollution Control Operating Permit | 0209-02P | Paint spray booth, Building 1087 | October 30, 1995 |
| Air Pollution Control Operating Permit | 0209-03P | Spray booth, Building 1086 | October 30, 1995 |

Applications for renewal for the Air Pollution Control Operating Permits have been submitted to the Memphis and Shelby County Health Department. This submission serves to extend the validity of these expired permits until new permits are either granted or denied.

In addition, Table 2-4 presents the air permits that have been closed for the installation.

Table 2-4
CLOSED DDMT PERMITS

| TYPE OF PERMIT | PERMIT NUMBER | FACILITY | EXPIRATION DATE |
|--|---------------|---------------------------|------------------|
| Air Pollution Control Operating Permit | 0209-04P | Spray Booth, Building 770 | October 30, 1995 |
| Air Pollution Control Operating Permit | 0209-05P | Spray Booth, Building 260 | October 30, 1995 |
| Air Pollution Control Operating Permit | 0209-011. | Incinerator, natural gas | October 30, 1995 |

2.1.2.2 Inspection Reports and Enforcement Actions

The database search described in Section 2.1.2 included a search of compliance records. In addition, inspection reports and documentation of enforcement actions were identified during the EBS records review.

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The database search identified seven RCRA violations that occurred at the DDMT under EPA identification number TN4210020570. These violations resulted from state of Tennessee and EPA inspections and are summarized in Table 2-5.

Table 2-5
RCRA VIOLATIONS

| VIOLATION DATE | INSPECTOR | TYPE OF VIOLATION |
|------------------|--------------------|---|
| December 6, 1985 | State of Tennessee | Generator Requirements - Except Land Ban |
| August 14, 1986 | State of Tennessee | TSD - Other Requirements |
| March 3, 1988 | State of Tennessee | Generator Requirements - Except Land Ban |
| April 20, 1988 | EPA | Generator Requirements - Except Land Ban |
| May 18, 1989 | EPA | Generator - Land Ban Requirements Generator Requirements - Except Land Ban |
| August 24, 1990 | State of Tennessee | TSD - Other Requirements |
| August 4, 1994 | State of Tennessee | TSD - Other Requirements |

The records review provided the Notice of Violation (NOV) reports for the inspections on March 3, 1988; April 20, 1988; May 18, 1989; and August 4, 1994. Specific explanations of the RCRA violations are presented in the following table.

Table 2-6
BASIS FOR RCRA VIOLATIONS

| VIOLATION RULE NUMBER | EXPLANATION | BUILDING NUMBER |
|-----------------------------------|--|---------------------|
| Tennessee (TN) Rule 1200-1-11-.03 | The DDMT was accumulating solvent rags and not treating them as hazardous waste. The NOV required the DDMT to determine if its solvent rags were hazardous or not and to manage accordingly. | 260, 770 |
| TN Rule 1200-1-11-.03(2)(b) | The DDMT was cited for not updating notifications for the F-solvent waste streams (including Safety Kleen), as well as other generated waste streams. | 210, 260, S469, 770 |
| TN Rule 1200-1-11-.03(3) | Two Safety Kleen manifests did not have the appropriate signatures needed. | 210, 260, S469, 770 |

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SOURCES OF INFORMATION

Table 2-6
(Continued)

| VIOLATION RULE NUMBER | EXPLANATION | BUILDING NUMBER |
|--|--|---------------------|
| TN Rule 1200-1-11-.03(3)(a)1 | The DDMT is a fully regulated generator and must use the uniform hazardous waste manifest for the Safety Kleen waste shipped off site. Additionally, if any of the waste is subject to the land ban restrictions, a notification that the waste is a restricted waste must accompany each manifest. An exemption from the manifesting requirements, TN Rule 1200-1-11-.02(3)(a)5, applies only to small quantity generators (100 to 1,000 kg/month) under a contractual agreement. | 210, 260, S469, 770 |
| TN Rule 1200-1-11-.03(4)(e)1(ii) | The Defense Reutilization and Marketing Office (DRMO) stored spent waste acid from the reclamation of batteries. The NOV stated that the accumulation date must be marked on the containers when the spent acid is placed in the DRMO temporary storage area. | 210, 260, S469, 770 |
| TN Rule 1200-1-11-.03(4)(e)1(iii) | The NOV stated that the spent acid containers must be labeled and marked clearly with the words Hazardous Waste once the containers are placed in the temporary storage area. | 210, 260, S469, 770 |
| TN Rule 1200-1-11-.03(5)(b)1 and Rule 1200-1-11-.08(4) | An internal audit was conducted by DDMT personnel on November 4, 1987 regarding the non-submittal of annual reports. The findings of this audit were forwarded to the Division of Solid Waste Management, Central Office on December 28, 1987. | 210, 260, S469, 770 |
| TN Rule 1200-1-11-.06 | The NOV stated that the DDMT did not have documentation of Environmental Refresher Training for DRMO hazardous property handlers. This training is required to be conducted annually. In addition, the DDMT needs to send Emergency Response Coordination letters to local hospitals, the fire department, or the police department outlining the potential for an emergency episode and to develop an Evacuation Plan. | 210, 260, S469, 770 |
| 40 CFR 268.7 | The NOV stated that the DDMT did not have a copy of the notification required for F-listed solvents on manifest number 426406, as required. | 210, 260, S469, 770 |
| 40 CFR 268.8(a)2 | The NOV stated that the DDMT did not have a copy of the certification/demonstration for the U220 waste on manifest number 89-0040. | 210, 260, S469, 770 |

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Table 2-6
(Continued)

| VIOLATION RULE NUMBER | EXPLANATION | BUILDING NUMBER |
|-----------------------|--|-----------------|
| 40 CFR 264.177(c) | The NOV stated that the DDMT had storage of incompatible materials in adjacent areas not protected by a suitable dike or berm. | 308 |

In addition to these RCRA violations, the DDMT has received NOV's for noncompliance with their NPDES permit, number TN0022322.

Table 2-7
NOV's FOR NONCOMPLIANCE WITH NPDES PERMIT

| DATE OF NOTICE OF VIOLATION | REPORTING PERIOD | TYPE OF VIOLATION |
|-----------------------------|--|--|
| February 6, 1991 | Ending December 31, 1990 | Total suspended solids (TSS) at outfalls 005 and 006 exceeded permit requirements. |
| February 8, 1993 | Ending December 31, 1992 | TSS at outfall 008 exceeded maximum requirements for each report since June 1, 1992. |
| November 17, 1993 | Ending June 30, 1993 and September 30, 1993 | TSS at outfall 008 exceeded the permit requirement, and the discharge monitoring report (DMR) for September 30, 1993 was incomplete. |
| May 20, 1994 | Ending March 31, 1994 | No DMR received. |
| August 8, 1994 | Compliance Evaluation Inspection | The outfalls were not properly labeled and the site did not have a Storm Water Pollution Prevention Plan. |
| September 2, 1994 | Ending March 31, 1994 and June 30, 1994 | TSS at outfall 008 exceeded the permit requirement. |
| October 31, 1995 | Ending March 31, 1995; June 30, 1995; and September 30, 1995 | No DMRs received. |

2.1.3 Aerial Photographs

A search for existing aerial photographs was conducted through the Department of Interior, U.S. Geological Survey (USGS), Tennessee. The search located several aerial photographs of the DDMT and surrounding properties of an adequate scale to provide useful detail and information to support the EBS. Photographs taken in 1940 support the prior use of the DDMT property as

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agricultural. Photographs dating from the 1960s through the 1980s support the use of the Dunn Field area for aboveground storage.

Table 2-8 summarizes the aerial photographs that were reviewed.

Table 2-8
AERIAL PHOTOGRAPHS

| PHOTOGRAPH DATE | DESCRIPTION |
|-------------------------------------|--|
| June 22, 1940 | Northeast corner of installation property prior to development (approximately 15 percent) and adjacent property to the north and east, approximately 2 miles from the installation boundary. |
| June 22, 1940 | The installation property is centered in the photograph. Adjacent property is shown around the installation, approximately a half mile. |
| June 22, 1940 | Installation property not shown, only adjacent property to the east. |
| Late 1960s - Early 1970s (Estimate) | South-central portion of the installation (approximately 10 percent), adjacent to Alcy Drive. |
| Late 1960s - Early 1970s (Estimate) | Southeastern portion of the installation (approximately 20 percent) and adjacent property south to Alcy Drive. |
| Late 1960s - Early 1970s (Estimate) | Western portion of Dunn Field and northwestern portion of the installation (approximately 30 percent). |
| Late 1960s - Early 1970s (Estimate) | All of Dunn Field and north-central portion of the installation (approximately 30 percent). |
| Late 1960s - Early 1970s (Estimate) | Eastern portion of the installation (approximately 20 percent). |
| Late 1960s - Early 1970s (Estimate) | Southwestern portion of the installation (approximately 20 percent). |
| November 7, 1971 | Entire installation and adjacent property approximately 3 miles from the installation boundary. |
| February 20, 1981 | Entire installation and adjacent property approximately 3 miles from the installation boundary. |
| Late 1980s (Estimate) | North, east, and west portion of the installation and adjacent property to the north, east, and west approximately 1 mile from the installation boundary. |
| February 20, 1990 | North, east, and west portion of the installation and adjacent property to the north, east, and west approximately 1 mile from the installation boundary. |

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2.1.4 Existing Property Maps

Existing installation property maps were used to assist in identifying past property use and practices at the DDMT that may have contributed to environmental degradation or concerns. Property maps were also used to determine current physical conditions of the installation and to focus on areas where there may be concerns regarding past or current waste management practices. The most current maps were obtained in Microstation 5.0 format, converted to AutoCad Release 12, and used as the base for the CERFA maps presented in Section Five (Figures 5-1 and 5-2).

2.1.5 Interviews

To facilitate the review of the installation's environmental history and practices, interviews of current and former employees involved in operations were conducted. To ensure the interview process was thorough, standardized interview forms were created and utilized. A sample interview form is presented in Appendix C.

Table 2-9 provides a list of the individuals who were interviewed.

Table 2-9
DDMT PERSONNEL INTERVIEWED AND AREAS DISCUSSED

| NAME | TITLE | ORGANIZATION | AREAS DISCUSSED | TELEPHONE NUMBER | PERIOD ASSOCIATED WITH INSTALLATION |
|-----------------------|--|------------------------|--|------------------|-------------------------------------|
| Henry Arnett | Civil Engineer | Facilities Engineering | Building 865 | (901) 775-4909 | 1979 to present |
| Phillip Ballard | Supervisor | Receiving | Buildings 1086, 1086A, 1087, 1088, S1089, S1090, and S1091 | (901) 775-4055 | 1979 to present |
| Bill Beason | Chief of Telecommunications | Telecommunications | Buildings 210 and 211 | (901) 775-6386 | 1969 to present |
| Jewell "Buddy" Barber | Assistant On-Site Coordinator for Spill Response | Installation Services | Buildings S465, S468, and S469 | (901) 775-6875 | 1984 to present |
| Clinton Cain | Material Handler Foreman | Medical Warehouse | Buildings 319, 359, and 560 | (901) 775-6152 | 1985 to present |
| Johnny Carson | Supervisor | Facilities Engineering | Entire Installation | (901) 775-6585 | 1976 to present |

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Table 2-9
(Continued)

| NAME | TITLE | ORGANIZATION | AREAS DISCUSSED | TELEPHONE NUMBER | PERIOD ASSOCIATED WITH INSTALLATION |
|-----------------|------------------------------------|-------------------------------------|---|------------------|-------------------------------------|
| Richard Cobb | Management Analyst | Morale Welfare Recreation (MWR) | Buildings 151, 176, 179, 184, 188, 189, 192, 193, 194, 196, 197, 251, 252, 274, 279, 398, P42, S178, S183, S195, S195A, and S198; golf cart shed; equipment shed; flammable storage | (901) 775-6343 | 1994 to present |
| Denise Cooper | Environmental Protection Assistant | Environmental Protection and Safety | Entire Installation | (901) 775-4507 | 1988 to present |
| Charlie Edwards | Maintenance Chief | Operational Maintenance | Building 770 | (901) 775-6374 | 1972 to 1995 |
| Jewell Edwards | Pest Controller | Preventive Maintenance | Buildings 350, 549, and S737; Areas X05, X06, and X07; East Side Railroad | (901) 775-6560 | 1975 to 1995 |
| Terry Garner | Police Officer | Command Security | Building S145 | (901) 775-6525 | 1985 to present |
| Bill Gray | Storage Specialist | Division II Warehousing | Entire Installation | (901) 775-6004 | 1964 to 1996 |
| Jim Glouster | Chief of Warehousing | Division I Warehousing | Buildings 229, 230, 249, 250, 329, 330, 349, 350, 429, 449, 450, 529, 530, 550, 629, 630, 649, 650, S863, S970, S972, T860, and T1084; Areas X10, X11, and X12 | (901) 775-6232 | 1985 to present |
| Ron Handwerker | Engineering Shop Supervisor | Facilities Engineering | Entire Installation | (901) 775-6505 | 1980 to present |
| Hank Harris | Division Chief | Division I Warehousing | Buildings 470, 484, 490, 670, 689, and 690 | (901) 775-6785 | 1967 to present |

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Table 2-9
(Continued)

| NAME | TITLE | ORGANIZATION | AREAS DISCUSSED | TELEPHONE NUMBER | PERIOD ASSOCIATED WITH INSTALLATION |
|------------------|--|---------------------------------------|--|------------------|-------------------------------------|
| Harry Hartwig | Hazardous Materials Technical Specialist | Division II Warehousing | Buildings 835, 865, 875, 925, 1089, P949, S558, and S873; Areas X02, X03, X04, X10, X11, X17, X19, X21, X23, X27, X30, and Y11; West Side Railroad | (901) 775-6232 | 1985 to present |
| Ken Hudson | Chief of Installation Services | Installation Services | Buildings 179, 260, 270, 360, 753, 754, 755, 787, 793, S271, T256, T261, and T874 | (901) 775-6572 | 1985 to 1995 |
| Ursula Jones | Environmental Protection Specialist | Environmental Protection and Safety | Entire Installation | (901) 775-4910 | 1989 to present |
| Chris Kartman | Base Environmental Coordinator | Environmental Protection and Safety | Entire Installation | (901) 775-4568 | 1993 to present |
| Jake Mangum | Acting Receiving Division Chief | Product Receipt and Evaluation Branch | Buildings 490, 1081, 1087, 1088, S1085, S1090, S1091, and T1084 | (901) 775-6356 | 1986 to 1995 |
| Althea Peoples | Branch Chief | Transportation | Buildings 685, 689, 690, and S995 | (901) 775-6293 | 1966 to 1996 |
| Famous Phipps | Motor Vehicle Operator Foreman | Division II Warehousing | Buildings 253, 263, 257, 720, and T254 | (901) 775-6481 | 1971 to present |
| Harold Roach | Industrial Engineer | Installation Services | Building 360 | (901) 775-4904 | 1992 to present |
| Charlie Thompson | Environmental Protection Specialist | DRMO | Buildings 304, 305, 306, 307, 319, S308, S309, S209, S559, T404, T405, and T406; Storage Yards Y10 and Y50 | (901) 775-6518 | 1970 to present |

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Table 2-9
(Continued)

| NAME | TITLE | ORGANIZATION | AREAS DISCUSSED | TELEPHONE NUMBER | PERIOD ASSOCIATED WITH INSTALLATION |
|--------------|--------------------------------|-----------------------|-----------------|------------------|-------------------------------------|
| Tommy Walker | Chief of Installation Services | Installation Services | Building 756 | (901) 775-6394 | 1980 to present |

2.1.6 Visual Inspections

As required by CERCLA 120(h)(4)(A)(iv) and (v) and DOD guidance, a visual inspection of the real property and properties adjacent to the property was conducted and is addressed in this EBS report. On-site visual inspections of the installation property and adjacent properties were conducted by the EBS field team during the periods of December 13, 1995 through January 7, 1996 and March 27 through April 17, 1996. Visual inspections conducted by the field team included grounds, buildings, structures, and equipment. Inspection methods included visual inspections from automobiles and surveys conducted during site walks. To ensure the visual inspections were thorough, standardized visual inspection forms were created and utilized. A sample visual inspection form is presented in Appendix D. A list of visual inspections is provided in Table 2-10 (following Section Two). Results of the visual inspections are discussed in Section 4.2 of this report.

2.1.7 Title Documents

CERCLA 120(h)(4)(A)(ii) and DOD guidance require a review of the "recorded chain of title documents regarding the real property." For the EBS, tract maps and title and transfer documents were reviewed to identify the prior property owners at the time of transfer to the U.S. Army. The purpose of this review was to collect additional information concerning the prior use and environmental condition of the property at the time of transfer to the U.S. Army. Previous ownership and the dates of transfer are presented in Appendix E.

A title documents search was conducted for the DDMT for the period from January 1, 1941 to January 22, 1996. These documents revealed that the United States of America took title of

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571.266 acres from individuals by Declaration of Taking on May 22, 1941. In addition, the United States of America took title of 68.83 acres from individuals by Declaration of Taking on September 22, 1942. The documents did not indicate a prior use of the property that would result in an environmental concern.

2.2 ADJACENT PROPERTIES

The DDMT is surrounded by industrial and commercial facilities, as well as interspersed residential properties (see Section 1.5). An electronic records search of federal and state environmental databases was conducted for properties adjacent to the DDMT. Additionally, an automobile visual inspection was performed. The findings of these investigations are presented in the following sections.

2.2.1 Federal, State, and Local Government Regulatory Records

A search of federal and state database records was performed as a means of identifying potential sources of off-site contamination that could impact the DDMT site. The records include CERCLA NPL and potential NPL sites; waste generators and facilities permitted under RCRA; spill reports; USTs and LUSTs; and solid waste disposal sites. The complete database search report is presented in Appendix B, including a map of identified site locations, and is summarized in Table 2-11.

Table 2-11
SUMMARY OF FINDINGS FROM DATABASE
SEARCH FOR ADJACENT PROPERTIES

| TYPE OF RECORD | NUMBER OF SITES 0 TO 1/4 MILE FROM THE DDMT ^a | NUMBER OF SITES 1/4 TO 2 MILES FROM THE DDMT ^a | TOTAL NUMBER OF SITES WITHIN 2 MILES OF THE DDMT ^a |
|---|--|---|---|
| NPL or SPL ^b | 0 | 0 | 0 |
| CERCLIS ^c | 2 | 6 | 8 |
| RCRA Large Quantity Generators | 1 | 1 | 2 |
| RCRA Small and Very Small Quantity Generators | 14 | 37 | 51 |
| RCRA TSD Facilities | 0 | 1 | 1 |
| RCRA Transporter | 0 | 1 | 1 |
| ERNS ^d | 3 | 1 | 4 |

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Table 2-11
(Continued)

| TYPE OF RECORD | NUMBER OF SITES 0 TO 1/2 MILE FROM THE DDMT ^a | NUMBER OF SITES 1/2 TO 2 MILES FROM THE DDMT ^a | TOTAL NUMBER OF SITES WITHIN 2 MILES OF THE DDMT ^a |
|---|--|---|---|
| LUST (case open) ^c | 1 | 6 | 7 |
| LUST (cleanup complete/case closed) | 3 | 4 | 7 |
| UST (number of tanks/number of sites) ^f | 102/42 | 248/94 | 350/136 |

Notes:

- ^a Distances shown are from installation boundary
- ^b EPA NPL Superfund sites and State Superfund Promulgated Sites List (SPL)
- ^c EPA list of potential NPL sites
- ^d EPA ERNS spill sites
- ^e Tennessee Department of Environment and Conservation, UST Division, UST sites
- ^f Tennessee UST report

Potential off-site sources of contamination are still being evaluated by the U.S. Army as part of the ongoing RI. This includes further evaluation of upgradient groundwater quality. Section 4.3 discusses the sites that have potential environmental impact on the DDMT.

Table 2-10
VISUAL INSPECTIONS SUMMARY
DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE

| Building Number | Description | Date of Visit |
|---------------------------------|--|---------------|
| 1 | Sentry Station Gate #1 | 4/9/96 |
| 2 | Sentry Station Gate #2 | 4/9/96 |
| 7 | Sentry Station Gate #7 | 4/5/96 |
| 8 | Sentry Station Gate #8 | 4/5/96 |
| 9 | Sentry Station Gate #9 | 4/5/96 |
| 22 | Sentry Station Gate #22 | 4/1/96 |
| 23 | Sentry Station Gate #23 | 4/1/96 |
| 24 | Sentry Station Gate #24 | 4/1/96 |
| 25 | Sentry Station Gate #25 | 4/1/96 |
| P42 | Equipment Shed | 4/1/96 |
| 129 | Waiting Shelter | 4/9/96 |
| 139 | Waiting Shelter | 4/9/96 |
| 143 | Flagpole | 4/9/96 |
| 144 | Depot Headquarters Building/Air Raid Alarm System (356A/144A) | 4/3/96 |
| S145 | Security Building | 4/10/96 |
| 146 | Antenna Tower | 4/3/96 |
| 147 | Headquarters Switch Station Bldg. | 4/3/96 |
| 155 | Waiting Shelter | 4/9/96 |
| 176 | Military Family Housing | 12/19/95 |
| S178 | Detached Garage-Family Housing | 4/12/96 |
| 179 | Military Family Housing | 12/19/95 |
| 181 | Military Family Housing | 12/19/95 |
| S183 | Detached Garage-Family Housing | 4/12/96 |
| 184 | Military Family Housing | 12/19/95 |
| 188 | Tennis Court | 4/1/96 |
| 189 | Volleyball Court | 4/1/96 |
| 192 | Wading Pool | 4/1/96 |
| 193 | Outdoor Swimming Pool | 4/1/96 |
| 194 | Pool, Chemical Storage, Rest/Change Rooms | 4/1/96 |
| S195 | Community Club | 12/19/95 |
| Adjacent to S195 (southeast) | White Connex (metal shipping/storage container) Used for Flammables Storage | 4/1/96 |
| S195A | Community Club Expansion/Awning | 4/1/96 |
| 196 | MWR Office/Public Toilet | 4/1/96 |
| 197 | Community Center | 4/1/96 |
| S198 | Equipment Shed | 4/1/96 |
| S209 | Admin./General Purpose Warehouse | 3/29/96 |
| 210 | Admin./Computer Center-General Purpose Warehouse | 4/1/96 |
| 211 | Battery Shop | 4/1/96 |
| 229 | General Purpose Warehouse | 4/2/96 |
| 230 | General Purpose Warehouse | 4/2/96 |
| 249 | General Purpose Warehouse/Security Desk | 4/2/96 |
| 250 | General Purpose Warehouse | 4/2/96 |
| 251 | Thrift Shop | 4/10/96 |
| 252 | Physical Fitness Center | 4/10/96 |
| 253 | Vehicle Maintenance Shop | 1/3/96 |
| T254 | Covered Storage | 4/10/96 |
| T256 | Pump House | 4/1/96 |

Table 2-10
VISUAL INSPECTIONS SUMMARY
DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE

| Building Number | Description | Date of Visit |
|-----------------|--|---------------------|
| 257 | Gas Station | 1/3/96 |
| 260 | Facility Engineer Maintenance Shop | 4/1/96 |
| T261 | Vehicle Storage Facility | 4/1/96 |
| 263 | Vehicle Grease Rack | 1/3/96 |
| 265 | Facility Engineer Maintenance Shop | 4/1/96 |
| T267 | Facility Engineer Storehouse | 4/16/96 |
| 270 | Facility Installation Services | 4/1/96 |
| S271 | Engineer Admin. Bldg. (USACE)/Golf Course Club House | 12/19/95 |
| T272 | Lumber and P Shed Facility Engineer | 4/11/96 |
| T273 | Shed | 4/11/96 |
| 274 | Post Restaurant | 4/9/96 |
| T275 | Facility Engineer Storehouse | 4/16/96 |
| 279 | Golf Course | 12/19/95 and 4/1/96 |
| 301 | Scale House | 4/9/96 |
| 304 | Switch Station | 4/9/96 |
| 305 | DRMO Storage Yard | 4/9/96 |
| 306 | DRMO Storage Yard | 4/9/96 |
| 307 | DRMO Load and Unload Dock | 4/9/96 |
| S308 | DRMO | 1/4/96 |
| S309 | DRMO | 1/4/96 |
| 319 | Flammable Storage | 1/4/96 |
| 329 | General Purpose Warehouse | 4/2/96 |
| 330 | General Purpose Warehouse | 4/2/96 |
| 349 | General Purpose Warehouse | 4/2/96 |
| 350 | General Purpose Warehouse | 12/20/95 and 4/2/96 |
| 359 | General Purpose Warehouse (Medical) | 1/3/96 |
| 359A | Diesel Fuel Storage | 4/11/96 |
| 360 | General Purpose Warehouse | 1/3/96 and 4/1/96 |
| 398 | Public Toilet | 4/1/96 |
| T416 | Installation Services Warehouse | 4/1/96 |
| T417 | Installation Services Warehouse | 4/1/96 |
| 429 | General Purpose Warehouse | 4/2/96 |
| 430 | General Purpose Warehouse | 4/2/96 |
| 449 | General Purpose Warehouse | 4/2/96 |
| 450 | General Purpose Warehouse | 4/2/96 |
| P459 | Training Facility | 4/10/96 |
| S465 | Vehicle Wash Rack | 12/20/95 |
| T467 | General Purpose Warehouse | 4/2/96 |
| S468 | Installation Services Warehouse | 3/29/96 |
| S469 | Battery Shop | 12/20/95 |
| 470 | General Purpose Warehouse | 4/11/96 |
| 489 | General Purpose Warehouse | 4/11/96 |
| 490 | General Purpose Warehouse | 12/19/95 |
| 529 | General Purpose Warehouse | 4/2/96 |
| 530 | General Purpose Warehouse | 4/2/96 |
| 549 | General Purpose Warehouse | 12/20/96 |
| 550 | General Purpose Warehouse | 4/2/96 |
| S558 | Concrete Pad | 4/16/96 |

Table 2-10
VISUAL INSPECTIONS SUMMARY
DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE

| Building Number | Description | Date of Visit |
|-----------------|---------------------------------------|--------------------|
| S559 | General Purpose Warehouse | 3/39/96 and 4/9/96 |
| 560 | General Purpose Warehouse | 1/3/96 |
| 629 | General Purpose Warehouse | 4/2/96 |
| 630 | General Purpose Warehouse | 4/2/96 |
| 649 | General Purpose Warehouse | 4/2/96 |
| 650 | General Purpose Warehouse | 4/2/96 |
| 670 | General Purpose Warehouse | 4/11/96 |
| 685 | General Purpose Warehouse | 1/4/96 |
| 689 | General Purpose Warehouse | 1/4/96 |
| 690 | General Purpose Warehouse | 1/4/96 |
| 701 | Pump House | 4/9/96 |
| S702 | Hobby Shop | 4/1/96 |
| 717 | Toilets/Ice House | 4/9/96 |
| 720 | Railroad Engine Shop | 1/3/96 |
| 720A | Diesel Oil Storage | 4/11/96 |
| 727 | Sentry Station | 4/9/96 |
| S737 | Pest Control Facility | 1/3/96 and 4/2/96 |
| S737A | Pest Control Facility (other) | 4/9/96 |
| 753 | Pump Station | 4/1/96 |
| 753A | Diesel Fuel Storage | 4/11/96 |
| 754 | Water Storage Tank | 4/1/96 |
| 755 | Sewage Pump | 4/1/96 |
| 756 | Water Supply Building | 4/1/96 |
| 770 | Vehicle Maintenance Shop | 12/19/95 |
| T771 | Public Toilet | 4/15/96 |
| 783 | Facility Engineer Storage | 4/1/96 |
| 787 | General Purpose Warehouse | 4/1/96 |
| 793 | Facility Engineer Storage | 4/1/96 |
| 795 | Waiting Shelter | 4/9/96 |
| 801 | Facility Engineer Maintenance Shop | 4/9/96 |
| 802 | Waiting Shelter | 4/9/96 |
| 804 | Load and Unload Dock | 4/9/96 |
| 826 | Load and Unload Dock | 4/1/96 |
| 835 | Special Purpose Warehouse (Hazardous) | 1/3/96 |
| T860 | Admin. General Purpose | 4/16/96 |
| S863 | Loading/Ops. Building | 4/16/96 |
| 865 | Special Purpose Warehouse-Recoup | 4/1/96 and 4/17/96 |
| 871 | Load and Unload Dock | 4/9/96 |
| 872 | Load and Unload Dock | 4/9/96 |
| S873 | Open Shed Warehouse/POL | 4/9/96 |
| T874 | Sewage Pump | 4/1/96 |
| S875 | Open Shed Warehouse | 4/9/96 |
| 877 | Load and Unload Dock | 4/9/96 |
| 881 | Load and Unload Dock | 4/9/96 |
| 882 | Load and Unload Dock | 4/9/96 |
| 889 | Load and Unload Dock | 4/9/96 |
| 910 | Load and Unload Dock | 4/9/96 |
| 925 | Special Purpose Warehouse | 1/3/96 |

Table 2-10
VISUAL INSPECTIONS SUMMARY
DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE

| Building Number | Description | Date of Visit |
|-----------------|--|--------------------|
| P949 | General Purpose Warehouse | 1/3/96 |
| S970 | Open Shed Warehouse | 4/12/96 |
| S972 | Open Shed Warehouse | 4/12/96 |
| 982 | Load and Unload Dock | 4/9/96 |
| S995 | Transportation-Steel Bldg. | 4/16/96 |
| T1084 | Open Warehouse | 4/9/96 |
| S1085 | Former Vehicle Grease Rack | 4/11/96 |
| 1086 | Care and Preservation Shop/Paint Booth | 12/19/95 |
| 1086A | Load and Unload Dock | 4/9/96 |
| 1087 | Paint Facility | 4/9/96 |
| 1088 | Sandblasting Facility | 4/9/96 |
| S1089 | Open Shed Warehouse | 4/9/96 |
| S1090 | Paint Storage Igloo | 4/9/96 |
| S1091 | Paint Storage Igloo | 4/9/96 |
| 1104 | Load and Unload Dock | 4/16/96 |
| 1145 | Load and Unload Dock | 4/16/96 |
| 1146 | Load and Unload Dock | 4/16/96 |
| 1184 | Facility Engineer Storehouse | 4/16/96 |
| 1185 | Former Firing Range | 4/16/96 |
| 17980 | Parade Field/Ball Field | 4/9/96 |
| 81160A | Standby Generator | 4/12/96 |
| 81160B | Standby Generator | 4/12/96 |
| 81160C | Standby Generator | 4/12/96 |
| 88015 | Garbage Dumpster-Concrete Pad | 4/9/96 |
| X01 | Open Storage Area | 4/11/96 |
| X02 | Open Storage Area | 1/3/96 |
| X03 | Open Storage Area | 4/16/96 |
| X04 | Open Storage Area | 1/3/96 |
| X05 | Open Storage Area | 4/16/96 |
| X06 | Open Storage Area | 4/16/96 |
| X07 | Open Storage Area | 4/16/96 |
| X08 | Open Storage Area | 4/16/96 |
| X09 | Open Storage Area | 1/3/96 |
| X10 | Open Storage Area | 4/12/96 |
| X11 | Open Storage Area | 1/3/96 and 4/12/96 |
| X12 | Open Storage Area | 4/12/96 |
| X13 | Open Storage Area | 1/3/96 |
| X15 | Open Storage Area | 1/3/96 |
| X17 | Open Storage Area | 1/3/96 |
| X19 | Open Storage Area | 1/3/96 |
| X20 | Open Storage Area | 1/3/96 |
| X21 | Open Storage Area | 1/3/96 |
| X23 | Open Storage Area | 1/3/96 |
| X27 | Open Storage Area | 1/3/96 |
| X30 | Open Storage Area | 1/3/96 |
| Y10 | Open Storage Area | 3/28/96 |
| Y11 | Open Storage Area | 4/12/96 |
| Y50 | Open Storage Area | 3/29/96 |

Table 2-10
VISUAL INSPECTIONS SUMMARY
DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE

| Building Number | Description | Date of Visit |
|-----------------|--|---------------|
| Y60 | Open Storage Area | 3/29/96 |
| Unnumbered | Golf Cart Shed | 4/1/96 |
| Unnumbered | Equipment Shed | 4/1/96 |
| Unnumbered | Concrete Pad (25 feet by 45 feet, 1,125 sq ft) | 4/1/96 |
| Unnumbered | Contractor Mower Shed | 4/2/96 |
| Unnumbered | West Side Railroad | 4/1/96 |
| Unnumbered | East Side Railroad | 4/16/96 |

TAB

3.0

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SECTION THREE**PROPERTY CHARACTERIZATION****3.0 PROPERTY CHARACTERIZATION**

This section presents an overview of past and current operations at the DDMT and a discussion of potential environmental contamination associated with these operations. It provides a description of the installation facilities and addresses past and current waste management practices at the DDMT.

3.1 PROPERTY OVERVIEW

Historic land uses of the DDMT have been researched and documented. Information was collected through record searches, interviews, and map and aerial photo reviews. This section contains a general description of each facility within the installation as described through existing documentation or site visits.

3.2 INSTALLATION HISTORY AND MISSION

The 642 acres on which the DDMT is located was originally used for producing cotton until its purchase by the U.S. Army in 1942. The initial mission and function of the DDMT was to provide stock control, storage, and maintenance services for the Army Engineer, Chemical, and Quartermaster Corps. The installation was originally named Memphis General Depot, but has also been known as Memphis Quartermaster Depot, Memphis Army Service Forces Depot, and Memphis Army Depot.

During World War II, the DDMT served as an internment center for 800 prisoners of war and performed supply missions for the Signal and Ordnance Corps. Since 1963, the DDMT has been a principal distribution center for the DLA (formerly the Defense Supply Agency) for shipping and receiving hazardous materials, textile products, food products, electronic equipment, construction materials, and industrial, medical, and general supplies. The DDMT receives, warehouses, and distributes supplies common to all U.S. military services in the southeastern United States, Puerto Rico, and Panama. Approximately four million line items are received and shipped by the DDMT annually; it ships approximately 107,000 tons of goods a year (CH2M Hill 1995b).

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SECTION THREE**PROPERTY CHARACTERIZATION****3.3 DESCRIPTION OF FACILITIES**

The DDMT contains approximately 110 buildings, 26 miles of railroad tracks, and 28 miles of paved streets. Approximately 126 acres are used for covered storage space and approximately 138 acres are used for open storage space.

For discussion purposes, the facilities at the DDMT have been classified into nine categories. These are Administrative/Security, Shops, Motor Pool, Community/Recreation, Housing, Storage, Open Storage, Loading Docks, and Miscellaneous. In addition, the Memphis Depot Redevelopment Agency (MDRA) has divided the DDMT into 36 MDRA parcels. Table 3-1 (following Section Three) provides a complete list of DDMT facilities, including facility use, MDRA parcel number, and year of construction.

3.3.1 Administrative/Security

Nineteen of the facilities at the DDMT have been classified as Administrative/Security. These include the following:

- | | |
|---|--|
| • Building 144 | Depot Headquarters Building |
| • Building 210 | Administrative/Computer Center |
| • Building 270 | Facility Installation Services |
| • Building S209 | Administrative/General Purpose Warehouse |
| • Building S271 | Engineering Administrative Building (USACE)/Former Golf Course Club House |
| • Building T260 | Administrative General Purpose |
| • Buildings 1, 2, 7, 8, 9, 15, 22, 23, 24, 25, and 727 | Sentry Stations |
| • Building S145 | Security Building |
| • Building P459 | Training Facility |

SECTION THREE**PROPERTY CHARACTERIZATION****3.3.2 Shops**

Eleven of the facilities at the DDMT have been classified as Shops. These include the following:

- | | |
|-------------------------------|--|
| • Buildings 260, 265, and 801 | Facility Engineer Maintenance Shops |
| • Buildings 211 and S469 | Battery Shops |
| • Buildings S737 and S737A | Pest Control Facilities |
| • Building 720 | Railroad Engine Shop |
| • Building 1086 | Care and Preservation Shop/Paint Booth |
| • Building 1087 | Paint Facility |
| • Building 1088 | Sandblasting Facility |

3.3.3 Motor Pool

Seven of the facilities at the DDMT have been classified as Motor Pool. These include the following:

- | | |
|----------------------------|---------------------------|
| • Building 257 | Gas Station |
| • Buildings 253 and 770 | Vehicle Maintenance Shops |
| • Facility S465 | Vehicle Wash Rack |
| • Facilities 263 and S1085 | Vehicle Grease Racks |
| • Facility T261 | Vehicle Storage Facility |

3.3.4 Community/Recreation

Eighteen of the facilities at the DDMT have been classified as Community/Recreation. These include the following:

- | | |
|---------------------------|--|
| • Facility 188 | Tennis Court |
| • Facility 189 | Volleyball Court |
| • Facility 192 | Wading Pool |
| • Facility 193 | Outdoor Swimming Pool |
| • Facility 194 | Pool House/Chemical Storage/Change Rooms |
| • Building S195 and S195A | Community Club |
| • Building 196 | MWR Office/Public Toilet |
| • Building 197 | Community Center |
| • Building 251 | Thrift Shop |

SECTION THREE**PROPERTY CHARACTERIZATION**

- | | |
|--------------------------|--------------------------|
| • Building 252 | Physical Fitness Center |
| • Building 274 | Post Restaurant |
| • Facility 279 | Golf Course |
| • Unnumbered | Golf Cart Shed |
| • Building S702 | Hobby Shop |
| • Buildings 398 and T771 | Public Toilets |
| • Building 717 | Public Toilets/Ice House |

3.3.5 Housing

Six of the facilities at DDMT have been classified as Housing. These include the following:

- | | |
|------------------------------------|-------------------------|
| • Buildings 176, 179, 181, and 184 | Military Family Housing |
| • Buildings S178 and S183 | Detached Garages |

3.3.6 Storage

Fifty-six of the facilities at DDMT have been classified as Storage. These include the following:

- | | |
|---|---|
| • Building 319 | Hazardous Waste/Material and Alcohols |
| • Building T256 | Covered Storage/Service Station |
| • Building S308 | DRMO/ Batteries |
| • Building S309 | DRMO/General Storage |
| • Buildings 783, 793, and 1184 | Facility Engineer Storehouse/Equipment |
| • Buildings 229, 349, and 449 | General Purpose Warehouses/Food Storage |
| • Building 250 | General Purpose Warehouse/Bulk Textile Storage |
| • Buildings 230, 329, 330, 429, 430, 450, 529, 530, 629, 630, and 650 | General Purpose Warehouses/Clothing Storage |
| • Buildings 360 and S559 | General Purpose Warehouses/Empty |
| • Buildings 470, 489, and 670 | General Purpose Warehouses/Equipment and Clothing Storage |
| • Building 649 | General Purpose Warehouse/Leased to Federal Express |
| • Buildings 549 and 550 | General Purpose Warehouse/General Storage |
| • Building 350 | General Purpose Warehouse/Glue Boards and Pheromone Traps |
| • Buildings 689 and 690 | General Purpose Warehouse/Material Handling Equipment and Hazardous Materials (awaiting shipment) |

SECTION THREE**PROPERTY CHARACTERIZATION**

- Building 560 General Purpose Warehouse/Medical and General Supplies
- Building 490 General Purpose Warehouse/Central Receiving Facility
- Building 787 General Purpose Warehouse/Recycling Warehouse
- Building P949 General Purpose Warehouse/Steel Storage
- Building 685 General Purpose Warehouse/Vehicle Maintenance Supplies
- Building 359 General Purpose Warehouse/Medical Supplies, Caustic Soda, Sodium Chloride
- Building 249 General Purpose Warehouse/Base Supply Storage
- Building T417 Installation Services Warehouse/Carpentry/Sheet Metal Storage
- Building S468 Installation Services Warehouse/Waste Petroleum Product Drums
- Building T416 Installation Services Warehouse/Supply and Furniture Storage
- Building S863 Loading and Operations Building/Fork Lifts
- Building T272 Lumber and P Shed Facility Engineer/Lumber Storage
- Building S1089 Open Shed Warehouse/Miscellaneous Chemicals (paints/solvents)/Packing Material
- Building S972 Open Shed Warehouse/Steel, Rope, Hardware, and Hose
- Building S875 Open Shed Warehouse/Overflow Petroleum, Oil, and Lubricants (POLs)
- Building S873 Open Shed Warehouse/Hazardous Materials
- Building T1084 Open Warehouse/Office Furniture, Tote Bins, and Steel Saws
- Buildings S1090 and S1091 Paint Storage Igloos/Paint Storage
- Building 925 Special Purpose Warehouse/Flammables
- Building 835 Special Purpose Warehouse/Hazardous Materials
- Building 865 Special Purpose Warehouse and Recoup/Hazardous Materials Response Storage
- Adjacent to Building S195 White Connex (metal shipping/storage container) Used for Flammable Materials Storage
- Building T404 Former Chemical Storage Building/Demolished
- Building T405 Former Chemical Storage Building/Demolished
- Building T406 Former Chemical Storage Building/Demolished

SECTION THREE**PROPERTY CHARACTERIZATION****3.3.7 Open Storage**

Twenty-five of the facilities at the DDMT have been classified as Open Storage. These include the following:

- Facilities 305 and 306 Concrete Storage (DRMO Yard)
- Facilities X09, Y10, Y11, Y50, and Y60 Open Storage Areas (DRMO Yard)
- Facilities X10, X13, and X15 Open Storage Areas/Former Flammables or Petroleum Products Storage
- Facilities X03, X04, X19, X21, X23, X27, and X30 Open Storage Areas(steel, PVC pipe)
- Facilities X02 and X17 Open Storage Areas(steel and PVC pipe)/Former Flammable or Petroleum Products Storage
- Facilities X05, X06, X07, and X08 Open Storage Areas(equipment)/Former Transformer and Petroleum Products Storage
- Facility X11 Open Storage Area/Former POLs and Acetone Storage
- Facility X01 Open Storage Area/Empty

3.3.8 Loading Docks

Fifteen of the facilities at the DDMT have been classified as Loading Docks. These include the following:

- Facilities 307, 804, 826, 871, 872, 877, 881, 882, 889, 910, 982, 1086A, 1104, 1145, and 1146 Loading and Unloading Docks

3.3.9 Miscellaneous

Twenty-nine of the facilities at the DDMT have been classified as Miscellaneous. These include the following:

- Facility 146 Antenna Tower
- Facility S558 and Unnumbered Facility Concrete Pads
- Unnumbered Facility Contractor Mower Shed

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| | |
|---|-------------------------------|
| • Facilities S198, P42, and Unnumbered Facility | Equipment Sheds |
| • Facility 1185 | Firing Range |
| • Facility 143 | Flagpole |
| • Facility 88015 | Garbage Dumpster/Compactor |
| • Facilities 147 and 304 | Electrical Switching Stations |
| • Facilities 701 and 753 | Pump Houses/Stations |
| • Facility 301 | Scale House |
| • Facilities 755 and T874 | Sewage Pump Stations |
| • Building T273 | Shed |
| • Facilities 81160A, 81160B, and 81160C | Standby Generators |
| • Building S995 | Transportation/Steel Building |
| • Buildings 129, 139, 155, 795, and 802 | Waiting Shelters |
| • Facility 756 | Water Pump |
| • Facility 754 | Water Storage Tank |

3.4 FACILITY SUPPORT ACTIVITIES

Past activities conducted at the DDMT include a wide range of storage, distribution, and maintenance practices. The Dunn Field area has been used as a landfill, for storage of mineral stockpiles, and as a pistol range. The primary activities conducted at the main installation included material storage and recoupment; other activities include sandblasting and painting, vehicle maintenance, PCB transformer storage, pesticide and herbicide storage and use, treatment of wood products with pentachlorophenol, and a former pistol range. The former pistol range is part of the area currently occupied by the golf course.

3.4.1 Hazardous Materials/Hazardous Waste Management

The former Defense Property Disposal Office (DPDO) has been redesignated the DRMO. The DRMO is a tenant of the DDMT and provides property disposal services and conforming storage facilities for hazardous materials and hazardous wastes generated by the DDMT, the Naval Air Station-Millington, and the Air Force Air National Guard. DRMO participates in a Reuse, Transfer, Donate program for hazardous materials. If hazardous materials are unable to be reused,

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transferred, or donated, they may be declared hazardous waste and disposed of in accordance with applicable regulations.

3.4.1.1 Hazardous Materials Management

As a result of the DDMT's complex site utilization history, large quantities of industrial chemicals or hazardous materials have been stored, repackaged, shipped, or disposed of on installation property. Some of these items were spilled, leaked, or disposed of within installation boundaries. Dunn Field is the only known and documented burial area on the DDMT.

The following types of hazardous materials have been warehoused and issued at the DDMT:

- Flammable liquids
- Flammable solids
- Corrosives (acids and bases)
- Poisons (including insecticides)
- Compressed gases (non-flammable)
- Compressed gases (flammable)
- Class C explosives
- Oxidizers
- Radioactive materials
- Other regulated material (ORM)

These materials are received as packaged commodities from manufacturers in containers that vary in size up to 55-gallon drums. While in storage, these materials are segregated by hazardous storage compatibility groups to assure optimum safety conditions are met (Harland Bartholomew & Associates, Inc. 1988).

The majority of the chemical stock items were stored in Building 629. This building was constructed on a concrete foundation without floor drains and contains five bays separated by concrete walls and fire doors. Spill booths containing absorbent materials and cleanup equipment were located in each bay area. The bays were marked to preclude incompatible chemicals being

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placed in the same bay. Currently, this building is used for receiving and storage of clothing and general items.

Building 319 was formerly the hazardous materials and alcohol storage area for DDMT and is currently the hazardous waste storage area for DRMO. Hazardous materials requiring temperature-controlled environments were also stored in Building 359. Building 319 has a concrete berm and is situated on a concrete foundation with no floor drains. In the past, cyanide compounds were stored in a mechanically ventilated, separately bermed room, located in the west end of the building. The building is equipped with explosion-proof lighting and spill booths of similar construction to those in Building 629.

Building 835, which was built in 1988, is the current hazardous materials mission stock warehouse. The building consists of six concrete-floor bays that are separated by fire walls, have no floor drains and are equipped with mechanical ventilation, explosion-proof lighting and spill response booths. The five storage bays ensure proper segregation of hazardous materials that vary in package size up to, but not including, 55-gallon drums. The packing area also provides space for proper segregation of materials and is equipped with explosion-proof lighting and spill response kits.

The X-25 area was a bermed, concrete pad, located in the open storage area on the northwest side of the installation. The X-25 area was used to store Class 1 flammable liquids. These liquids were usually stored in 55-gallon drums and include a wide range of industrial grade organic solvents. Two tension-fabric roof structures were constructed over the area. Currently, one fabric building remains. Building 925, which stores flammable liquids (55-gallon drums), was built over the site of the other former fabric building.

Nonflammable petroleum, oil, and lubricant (POL) products were stored in the open areas X13 and X15. Building S873 is an open-sided shed for POL products storage and antifreeze. Overflow chemicals are also stored in Building S873. The existing hazardous materials recoupment facility is also located in part of Building S873.

SECTION THREE**PROPERTY CHARACTERIZATION****3.4.1.2 Hazardous Waste Management**

The DDMT is a RCRA generator of hazardous wastes in the state of Tennessee under generator number TN 4210020570. The source of generated hazardous wastes at the DDMT results from depot maintenance operations and hazardous materials with expired shelf life. In addition, a small amount of hazardous waste is generated from the cleanup of small hazardous materials spills. Of the approximately 100,000 hazardous materials transfers conducted per year at the DDMT, only an estimated 50 transfers per year result in an out-of-container event. More than 90 percent of these events result from packaging failures during transport. The remaining events are attributed to mishandling at the DDMT (Harland Bartholomew & Associates, Inc. 1988). The installation has obtained a Part B permit from EPA, which allows the storage of hazardous wastes for up to 180 days. Hazardous waste in the DRMO's possession is stored in Building 319.

3.4.2 Solid Waste/Landfill Management

The southwest section of the Dunn Field area was originally used as the landfill site for unusable, nonhazardous subsistence stocks from the early 1940s to 1948. Additionally, small quantities of hazardous materials (e.g., acids, mixed chemicals, chemical agent identification sets [CAIS]) have been buried in Dunn Field. The DDMT has subsequently utilized municipal landfills for sanitary solid waste disposal.

3.4.3 Underground Storage Tanks

Previous investigations have identified USTs and aboveground storage tanks (ASTs) currently at the DDMT. A storage tank summary and current status of each identified storage tank is presented in Table 3-2 (following Section Three).

It should be noted that many tanks at the DDMT were removed prior to regulations becoming effective. In addition, many tanks at the DDMT were unregulated due to their size or the type of product they contained. Therefore, no records are available for these tank removals/closures.

3.4.4 Injection Wells

Currently, no use of injection wells has been identified at the DDMT.

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3.4.5 Drinking Water Management

Potable water used at the DDMT has always been obtained from the MLGW Division, which is a publicly-owned utility of the city of Memphis. Memphis obtains its raw water exclusively from deep wells that are screened in one of two aquifers. The Memphis Sand Aquifer (a 500-foot thick sand) is the primary water source. The Fort Pillow Sand Aquifer (a 200-foot thick sand) serves as a reserve for future water needs and currently supplies a few industrial wells. These aquifers are capable of supplying very large quantities of good quality water. The DDMT purchases an average of 2.3 million gallons of water per month from the city (Law Environmental 1990c).

Water treatment provided by the MLGW consists of aeration and rapid sand filtration to remove iron, hydrogen sulfide, and carbon dioxide. Treated water is chlorinated per state law even though the raw water is bacteria free (CH2M Hill 1995b).

Potable water at the DDMT was sampled weekly (eight samples were collected from the distribution system) by personnel from the installation Environmental Health Section, a former tenant activity. At the time they were collected, water samples were analyzed for pH and residual chlorine using field test kits. The samples were then sent off site for fecal coliform analyses. Documents indicate that the installation has not experienced difficulties with its drinking water quality (CH2M Hill 1995b).

3.4.6 Stormwater Management

Stormwater drainage is achieved by means of concrete-lined ditches and underground storm sewer systems with numerous surface and curb inlets. All directional boundaries of the installation receive stormwater outfalls. On the northern DDMT boundary, including all of Dunn Field, the stormwater outfalls discharge into city ditches or small, unnamed creeks. These creeks flow north into Cane Creek, which flows southwesterly into Nonconnah Creek, which is about ¾ mile south of the DDMT. Outfalls along the southern, eastern, and western boundaries flow into city ditches or small creeks that flow south into Nonconnah Creek. Nonconnah Creek flows west into Lake McKellar, which empties directly into the Mississippi River to the west (Harland Bartholomew & Associates, Inc. 1988).

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The DDMT has an NPDES permit that authorizes stormwater discharges. All installation stormwater is monitored for flow, pH, and oil and grease. In addition, stormwater at Dunn Field is monitored for magnesium and aluminum.

Formerly, the DDMT NPDES permit authorized eight separate discharges of industrial type wastewaters, swimming pool filter backwash, and Lake Danielson overflow to storm drainage. Authorized industrial type wastewaters included runoff from the painting and sandblasting operations in the open storage area, boiler blowdown, cooling tower blowdown, and once through cooling water. Wastewater was monitored for flow, pH, oil and grease, suspended solids, and phenols.

In 1988, it was reported that the Memphis field office of the Tennessee Division of water management had noted suspended solids levels above the permit requirements. Subsequent investigations noted the same permit exceedance citing erosion and the extensive use of gravel as potential sources (Defense Logistics Agency, DDMT 1991a).

3.4.7 Sewage Treatment

The DDMT sanitary sewer system consists of a gravity collection system and two sewage pumping stations. There are no on-post facilities for treating sanitary or industrial wastewater. Sanitary and approved industrial-type wastewaters are discharged into the municipal water collection system of the city of Memphis for ultimate treatment by municipal facilities (Harland Bartholomew & Associates, Inc. 1988).

3.4.8 Electrical Power Generation

Electric service to the DDMT is provided by MLGW. Power is delivered by means of three incoming service lines, one primary and two alternate feeds. Since the DDMT has no main transformation capability, power is provided at the distribution level voltage. The primary and alternate feeds to the DDMT come from MLGW Substation 1 located on Castalia Street north of the DDMT. The service lines cross the installation boundary at approximately 425 feet west of Gate 21 on Dunn Avenue and continue southward to a government-owned circuit breaker station located 1,500 feet south of the Dunn Avenue centerline. The government-owned distribution

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system is mostly aerial. Most of the system, including transformers, was installed in the early 1940s (Harland Bartholomew & Associates, Inc. 1988).

The DDMT has two emergency generators for use in the event of a power outage. Building 359, a medications and cold storage facility, is equipped with a 75 kilowatt (kW) three-phase generator. Building 210, an administrative and computer center, has a small, 3.3-kW, single-phase generator for emergency office power. This building is also equipped with an Uninterruptable Power Supply (UPS) system for automatic data processing facilities housed there. The UPS system is a short-duration facility (about 15 minutes) that allows personnel time to download data from the computers before full power is lost (Harland Bartholomew & Associates, Inc. 1988).

3.4.9 Fire Training

Fire protection at the DDMT is provided primarily by the Memphis Fire Department (MFD). On-post fire protection is provided by the DDMT Fire Department and internal fire suppression systems. Lake Danielson was used by MFD for fire training on a periodic basis until 1989. The DDMT had a firefighting training program for employees that included fire extinguisher practice, but did not use any firefighting training pits that would have spread flammables on the ground surface and ignited them (Chemical Systems Laboratory 1981).

3.4.10 Medical Activities

Historically, medical activities have not been conducted at the DDMT. An on-base clinic provides limited medical services. The DDMT does, however, receive and distribute medical supplies in support of its mission.

3.4.11 On-Site Housing

There are four on-post housing structures located east of the golf course on the installation's eastern boundary. The structures were constructed in 1948 and are capable of serving eight families.

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SECTION THREE**PROPERTY CHARACTERIZATION****3.5 SENSITIVE ENVIRONMENTS**

The DDMT is in a highly developed area. As such, it offers limited habitat. Ducks and geese have been observed at the Golf Course Pond and Lake Danielson. Dunn Field is the only undisturbed open area on the site. Animals that have been observed at Dunn Field include squirrels, red foxes, quail, mourning doves, and turtles. No threatened or endangered species have been observed on the installation (Law Environmental 1990; Harland Bartholomew & Associates, Inc. 1988).

No archaeological sites are known to be located within the immediate vicinity of the DDMT, although the area was occupied by a variety of Native American groups. However, two archaeological test trenches dug at the site of the new hazardous materials warehouse (Building 835) and the recoupment facility (Building 865) revealed no items of archaeological significance. There are currently no sites or structures located on the DDMT property that are listed on the National Register of Historic Places (Harland Bartholomew & Associates, Inc. 1988). However, the installation is currently under reevaluation for structures of possible historical significance, as many of its World War II-era buildings are becoming eligible for nomination to the National Register due to their age. It is not anticipated that any nominations will result from this reevaluation.

Table 3-1
FACILITY LISTING
DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE

| Facility Number | Description | MOHA Parcel Number | Storage/Use (Current) | Storage/Use (Past) | Year/Built | Number of Floors | Size (Square Feet) |
|-----------------|--------------------------------------|--------------------|---------------------------------|---------------------------------|------------|------------------|--------------------|
| 001 | Sentry Station Gate #1 | 1 | Sentry Post | Sentry Post | 1959 | 1 | 280 |
| 002 | Sentry Station Gate #2 | 1 | Sentry Post | Sentry Post | 1958 | 1 | 280 |
| 007 | Sentry Station Gate #7 | 23 | Sentry Post | Sentry Post | Unknown | 1 | 67 |
| 008 | Sentry Station Gate #8 | 23 | Sentry Post | Sentry Post | 1969 | 1 | 675 |
| 009 | Sentry Station Gate #9 | 29 | Sentry Post | Sentry Post | 1946 | 1 | 420 |
| 015 | Sentry Station Gate #15 | 15 | Sentry Post | Sentry Post | 1979 | 1 | 196 |
| 022 | Sentry Station Gate #22 | 14 | Sentry Post | Sentry Post | 1942 | 1 | 67 |
| 023 | Sentry Station Gate #23 | 13 | Sentry Post | Sentry Post | 1942 | 1 | 67 |
| 024 | Sentry Station Gate #24 | 13 | Sentry Post | Sentry Post | 1961 | 1 | 100 |
| 025 | Sentry Station Gate #25 | 13 | Sentry Post | Sentry Post | 1961 | 1 | 100 |
| P42 | Equipment Shed | 3 | Dry goods, canned food stuffs | Dry goods, canned food stuffs | Unknown | 1 | Unknown |
| 129 | Waiting Shelter | 1 | Shelter | Shelter | 1980 | 1 | 75 |
| 139 | Waiting Shelter | 1 | Shelter | Shelter | 1959 | 1 | 144 |
| 143 | Flagpole | 1 | Flag pole | Flag pole | Unknown | NA | NA |
| 144 | Depot Headquarters Building | 1 | Administration | Administration | 1942 | 3 | 13,500 |
| S145 | Security Building | 1 | Pass and Identification | Security | 1943 | 1 | 860 |
| 146 | Antenna Tower | 1 | Antenna tower | Antenna tower | Unknown | NA | NA |
| 147 | Headquarters Switch Station Building | 1 | Electrical switch gear | Electrical switch gear | 1981 | 1 | 204 |
| 155 | Waiting Shelter | 1 | Shelter | Shelter | 1960 | 1 | 144 |
| 176 | Military Family Housing (MFH) | 2 | Residential | Residential | 1948 | 2 | 4,787 |
| S178 | Detached Garage-Family Housing | 2 | Automobile parking, maintenance | Automobile parking, maintenance | 1948 | 1 | 1,440 |
| 179 | Military Family Housing (MFH) | 2 | Residential | Residential | 1948 | 2 | 4,835 |
| 181 | Military Family Housing (MFH) | 2 | Residential | Residential | 1948 | 2 | 4,835 |

Table 3-1
FACILITY LISTING
DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE

| Facility Number | Description | MRA Parcel Number | Storage/Use (Current) | Storage/Use (Past) | Year Built | Number of Floors | Size (Square Feet) |
|------------------|--|-------------------|---------------------------------------|---------------------------------------|------------|------------------|--------------------|
| S183 | Detached Garage-Family Housing | 2 | Automobile parking, maintenance | Automobile parking, maintenance | 1948 | 1 | 1,440 |
| 184 | Military Family Housing (MFH) | 2 | Residential | Residential | 1948 | 2 | 4,739 |
| 188 | Tennis Court | 3 | Recreation | Recreation | Unknown | NA | 6,000 |
| 189 | Volleyball Court | 3 | Recreation | Recreation | Unknown | NA | Unknown |
| 192 | Wading Pool | 3 | Recreation | Recreation | Unknown | NA | Unknown |
| 193 | Outdoor Swimming Pool | 3 | Recreation | Recreation | 1948 | 1 | 426 |
| 194 | Pool, Chemical Storage, Rest/Change Rooms | 3 | Recreation, pool chemicals | Recreation, pool chemicals | Unknown | 1 | Unknown |
| S195 | Community Club | 3 | Recreation | Recreation | 1949 | 1 | 4,254 |
| Adjacent to S195 | White Connex Used for Flammables Storage | 3 | Flammables, cleaning compound storage | Flammables, cleaning compound storage | Unknown | NA | NA |
| S195A | Community Club Expansion/Awning | 3 | Recreation | Recreation | 1990 | NA | NA |
| 196 | MWR Office/Public Toilet | 3 | Recreation | Recreation | 1952 | 1 | 896 |
| 197 | Community Center | 3 | Dry goods, chairs | General storage | Unknown | 1 | 280 |
| S198 | Equipment Shed | 3 | Dry goods | Dry goods | 1959 | 1 | 323 |
| S209 | Admin./General Purpose Warehouse | 14 | No current use | General storage | 1942 | 1 | 240,000 |
| 210 | Admin./Computer Center - General Purpose Warehouse | 13 | Offices, equipment storage | Offices, storage, small photo lab | 1942 | 1 | 240,000 |
| 211 | Battery Shop | 13 | Battery backup power for DRMS | Battery backup power for DRMS | 1988 | 1 | 988 |
| 229 | General Purpose Warehouse | 8 | Food storage | General storage | 1942 | 1 | 120,000 |

Table 3-1
FACILITY LISTING
DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE

| Facility Number | Description | MDRA Parcel Number | Storage/Use (Current) | Storage/Use (Past) | Year Built | Number of Floors | Size (Square Feet) |
|-----------------|---|--------------------|--|--|------------|------------------|--------------------|
| 230 | General Purpose Warehouse | 8 | Clothing storage | General storage | 1942 | 1 | 120,000 |
| 249 | General Purpose Warehouse/Security Desk | 7 | Base supply storage | General storage/XXCC-3 | 1942 | 1 | 120,000 |
| 250 | General Purpose Warehouse | 6 | Bulk textile storage | General storage | 1942 | 1 | 120,000 |
| 251 | Thrift Shop | 4 | Dry goods, small engine/equipment shop | Shops | 1942 | 1 | 8,001 |
| 252 | Physical Fitness Center | 4 | Recreation | Unknown | 1942 | 1 | 8,455 |
| 253 | Vehicle Maintenance Shop | 4 | Petroleum products, tires, antifreeze | Motor pool | 1952 | 1 | 9,600 |
| T254 | Covered Storage | 4 | Equipment and oil storage | Equipment and oil storage | 1944 | 1 | 1,004 |
| T256 | Pump House | 4 | Service station | Service station | 1943 | 1 | 192 |
| 257 | Gas Station | 4 | Vehicle fueling operations, antifreeze | Vehicle fueling operations, antifreeze | 1942 | 1 | 264 |
| 260 | Facility Engineer Maintenance Shop | 4 | Maintenance shop | Maintenance shop | 1952 | 1 | 6,707 |
| T261 | Vehicle Storage Facility | 4 | Vehicle storage and maintenance | Vehicle storage and maintenance | 1942 | 1 | 6,249 |
| 263 | Vehicle Grease Rack | 4 | Antifreeze, petroleum products | Oil changing | 1964 | 1 | 800 |
| 265 | Facility Engineer Maintenance Shop | 4 | Engineering shops | Engineering shops | 1942 | 1 | 8,001 |

Table 3-1
FACILITY LISTING
DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE

| Facility Number | Description | MDRA Parcel Number | Storage/Use (Current) | Storage/Use (Past) | Year Built | Number of Floors | Size (Square Feet) |
|-----------------|-------------------------------------|--------------------|------------------------------|--------------------------------------|------------|------------------|--------------------|
| T267 | Facility Engineer Storehouse | 4 | Demolished 1987 | Tire storage | Unknown | NA | NA |
| 270 | Facility Installation Services | 4 | Administration | Maintenance shop | 1945 | 1 | 14,400 |
| S271 | Engineer Admin. Building (USACE) | 4 | Administration | Former Golf Course Club House | 1958 | 1 | 1,436 |
| T272 | Lumber and P Shed Facility Engineer | 5 | Lumber storage | Lumber storage | 1942 | 1 | 1,440 |
| T273 | Shed | 4 | Fertilizers | MOGAS | Unknown | 1 | 1,500 |
| 274 | Post Restaurant | 5 | Recreation | Recreation | 1989 | 1 | 13,500 |
| T275 | Facility Engineer Storehouse | 4 | Demolished | Unknown | Unknown | NA | NA |
| 279 | Golf Course | 3 | Recreation | Recreation | Unknown | NA | NA |
| 301 | Scale House | 15 | Scale house | Scale house | Unknown | 1 | Unknown |
| 304 | Switch Station | 15 | Electrical switching | Electrical switching | Unknown | 1 | Unknown |
| 305 | Concrete Storage DRMO yard | 15 | Scrap metal | Scrap metal | Unknown | NA | Unknown |
| 306 | Concrete Storage DRMO yard | 15 | Empty | Scrap metal | Unknown | NA | Unknown |
| 307 | DRMO Load and Unload Dock | 15 | Loading/unloading | Loading/unloading | Unknown | 1 | Unknown |
| S308 | DRMO Storage | 15 | DRMO - batteries | DRMO - hazardous waste | 1944 | 1 | 540 |
| S309 | DRMO Storage | 15 | General | Unknown | 1944 | 1 | 540 |
| 319 | DRMO Hazardous Waste Storage | 15 | Hazardous waste | Alcohol and other flammables, toxics | 1942 | 1 | 18,000 |
| 329 | General Purpose Warehouse | 8 | Clothing | General storage | 1942 | 1 | 120,000 |
| 330 | General Purpose Warehouse | 8 | Clothing | General storage | 1942 | 1 | 120,000 |
| 349 | General Purpose Warehouse | 6 | Bulk food storage | General storage | 1942 | 1 | 120,000 |
| 350 | General Purpose Warehouse | 6 | Glue boards, pheromone traps | Battery charging | 1942 | 1 | 120,000 |

Table 3-1
FACILITY LISTING
DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE

| Facility Number | Description | MDRA Parcel Number | Storage/Use (Current) | Storage/Use (Past) | Year Built | Number of Floors | Size (Square Feet) |
|-----------------|-------------------------------------|--------------------|---|---|------------|------------------|--------------------|
| 359 | General Purpose Warehouse (Medical) | 17 | Medical supplies, caustic soda, historic UST, sodium chloride | Boiler, hazardous materials storage | 1942 | 1 | 240,000 |
| 360 | General Purpose Warehouse | 34 | Unused | None (new building) | 1996 | 1 | 174,665 |
| 398 | Public Toilet | 3 | Restroom | Restroom | 1962 | 1 | 256 |
| T416 | Installation Services Warehouse | 15 | Supply and furniture storage | Storage | 1943 | Unknown | 2,600 |
| T417 | Installation Services Warehouse | 15 | Carpentry/sheet metal storage | Storage | 1943 | 1 | 3,120 |
| 429 | General Purpose Warehouse | 9 | Clothing storage | General storage | 1942 | 1 | 120,000 |
| 430 | General Purpose Warehouse | 9 | Clothing storage, compasses | General storage | 1942 | 1 | 120,000 |
| 449 | General Purpose Warehouse | 9 | Bulk food storage | General storage | 1942 | 1 | 120,000 |
| 450 | General Purpose Warehouse | 9 | Clothing storage | General storage | 1942 | 1 | 120,000 |
| P459 | Training Facility | 17 | Classrooms | Parking lot | 1990 | 1 | 4,000 |
| S465 | Vehicle Wash Rack | 19 | Steam cleaning equipment | Steam cleaning equipment - waste to oil/water separator | 1984 | 1 | 400 |
| T467 | General Purpose Warehouse | 19 | Demolished 1996 | Storage | 1987 | 1 | 24,883 |

Table 3-1
FACILITY LISTING
DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE

| Facility Number | Description | MDRA Parcel Number | Storage/Use (Current) | Storage/Use (Past) | Year Built | Number of Floors | Size (Square Feet) |
|-----------------|---------------------------------|--------------------|---|---|------------|------------------|--------------------|
| S468 | Installation Services Warehouse | 19 | Shop, storage of waste petroleum products drums | Unknown | 1960 | 1 | 9,600 |
| S469 | Battery Shop | 19 | Sulfuric acid, batteries, lead, spray paint | Electrical shop, acid recycling | 1960 | 1 | 9,600 |
| 470 | General Purpose Warehouse | 20 | Equipment/clothing storage | Equipment/clothing storage | 1954 | 1 | 218,000 |
| 489 | General Purpose Warehouse | 20 | Equipment/clothing storage | Equipment/clothing storage | 1954 | 1 | 218,000 |
| 490 | General Purpose Warehouse | 21 | Central receiving facility | Microfiche developing, historic dipping of machine parts, as preservation | 1954 | 1 | 218,000 |
| 529 | General Purpose Warehouse | 11 | Clothing storage | General storage | 1942 | 1 | 120,000 |
| 530 | General Purpose Warehouse | 11 | Clothing storage | General storage | 1942 | 1 | 120,000 |
| 549 | General Purpose Warehouse | 10 | General storage | General storage | 1942 | 1 | 120,000 |
| 550 | General Purpose Warehouse | 10 | General storage | General storage | 1942 | 1 | 120,000 |
| S558 | Concrete Pad | 16 | Concrete pad | Former general warehouse | Unknown | NA | 4,800 |
| S559 | General Purpose Warehouse | 16 | Empty | Clothes, equipment storage | 1942 | 1 | 240,000 |
| 560 | General Purpose Warehouse | 18 | Medical and general supplies | Unknown | 1990 | 1 | 174,665 |

Table 3-1
FACILITY LISTING
DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE

| Facility Number | Description | MDRA Parcel Number | Storage/Use (Current) | Storage/Use (Past) | Year Built | Number of Floors | Size (Square Feet) |
|-----------------|---------------------------|--------------------|---|---|------------|------------------|--------------------|
| 629 | General Purpose Warehouse | 12 | Clothing storage and receiving | Chemical stock storage and receiving | 1942 | 1 | 120,000 |
| 630 | General Purpose Warehouse | 11 | Clothing storage | General storage | 1942 | 1 | 120,000 |
| 649 | General Purpose Warehouse | 10 | Federal Express | General storage | 1953 | 1 | 120,000 |
| 650 | General Purpose Warehouse | 10 | Clothing storage | General storage | 1942 | 1 | 120,000 |
| 670 | General Purpose Warehouse | 20 | Equipment/clothing storage | Equipment/clothing storage | 1953 | 1 | 218,000 |
| 685 | General Purpose Warehouse | 21 | Vehicle maintenance supplies | Unknown | 1985 | 1 | 32,000 |
| 689 | General Purpose Warehouse | 21 | Material handling equipment and materials awaiting shipment | Hazardous waste, Safety Kleen, unknown wastes | 1953 | 1 | 228,000 |
| 690 | General Purpose Warehouse | 21 | Material handling equipment and materials awaiting shipment | Unknown wastes, vehicle maintenance supplies | 1953 | 1 | 218,000 |
| 701 | Pump House | 15 | Water distribution | Water distribution | Unknown | 1 | Unknown |
| S702 | Hobby Shop | 15 | Unused | Petroleum products and other storage | 1941 | 1 | 12,000 |

Table 3-1
FACILITY LISTING
DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE

| Facility Number | Description | MDRA Parcel Number | Storage/Use (Current) | Storage/Use (Past) | Year Built | Number of Floors | Size (Square Feet) |
|-----------------|-------------------------------|--------------------|---|---|------------|------------------|--------------------|
| 717 | Toilets/Ice House | 33 | Men's restroom, ice house | Men's restroom, ice house | 1951 | 1 | 600 |
| 720 | Railroad Engine Shop | 33 | Antifreeze, petroleum products, AST of diesel | Diesel dispensing, large engine repair | 1942 | 1 | 4,665 |
| 727 | Sentry Station | 33 | Vacant | None | 1994 | 1 | 280 |
| S737 | Pest Control Facility | 33 | Pesticide/herbicide, aluminum phosphide waste, historic UST | Mixing of pesticides/herbicides, historic PCP dip vat | 1961 | 1 | 5,744 |
| S737A | Pest Control Facility (other) | 33 | Pesticide/herbicide, aluminum phosphide waste, historic UST | Mixing of pesticides/herbicides, historic PCP dip vat | Unknown | 1 | Unknown |
| 753 | Pump Station | 33 | Fire extinguisher refilling | Pump station | 1956 | 1 | 513 |
| 754 | Water Storage Tank | 33 | Water tank | Water tank | Unknown | NA | 1,963 |
| 755 | Sewage Pump | 33 | Sewage pump house | Sewage pump house | 1953 | 1 | 237 |
| 756 | Water Pump | 33 | Water distribution | Water distribution | Unknown | 1 | 2,400 |

Table 3-1
FACILITY LISTING
DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE

| Facility Number | Description | MORA Parcel Number | Storage/Use (Current) | Storage/Use (Past) | Year Built | Number of Floors | Size (Square Feet) |
|-----------------|---------------------------------------|--------------------|--|--|------------|------------------|--------------------|
| 770 | Vehicle Maintenance Shop | 24 | Antifreeze, petroleum products, paint, solvent, historic USTs | Equipment maintenance, blasting, paint, boilers | 1952 | 1 + 2 | 25,000 |
| T771 | Public Toilet | 24 | Tank tubing | Unknown | 1945 | 1 | 800 |
| 783 | Facility Engineer Storage | 23 | Equipment storage | Ammunition storage/flammables | 1942 | 1 | 2,146 |
| 787 | General Purpose Warehouse | 23 | Recycling warehouse | Steel processing | 1988 | 1 | 5,038 |
| 793 | Facility Engineer Storage | 23 | Equipment storage | Ammunition storage/flammables | 1942 | 1 | 1,607 |
| 795 | Waiting Shelter | 23 | Shelter | Shelter | 1974 | 1 | 240 |
| 801 | Facility Engineer Maintenance Shop | 29 | Engineering storage | Unknown | 1956 | 1 | 544 |
| 802 | Waiting Shelter | 29 | Shelter | Shelter | 1981 | 1 | 400 |
| 804 | Load and Unload Dock | 29 | Loading/unloading | Loading/unloading | Unknown | NA | NA |
| 826 | Load and Unload Dock | 32 | Loading dock for railroad | Loading dock for railroad | Unknown | NA | NA |
| 835 | Special Purpose Warehouse (Hazardous) | 32 | Hazardous materials: reactives, oxidizers, corrosives, photo chemicals, pesticides, flammables | Area north of 835 used to be bermed to contain spills. Berm was leveled in 1994. | 1988 | 1 | 156,800 |
| T860 | Admin. General Purpose | 33 | Administration | Administration | 1944 | 1 | 800 |
| S863 | Loading/Operations Building | 33 | Fork lifts | Fork lifts | 1943 | 1 | 1,500 |

Table 3-1
FACILITY LISTING
DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE

| Facility Number | Description | MDRA Parcel Number | Storage/Use (Current) | Storage/Use (Past) | Year Built | Number of Floors | Size (Square Feet) |
|-----------------|--|--------------------|--------------------------------------|---|------------|------------------|--------------------|
| 865 | Special Purpose Warehouse - Recoupment | 32 | Hazardous materials response storage | Hazardous materials response storage | 1988 | 1 | 4,200 |
| 871 | Load and Unload Dock | 25 | Loading/unloading | Loading/unloading | Unknown | NA | NA |
| 872 | Load and Unload Dock | 25 | Loading/unloading | Loading/unloading | Unknown | NA | NA |
| S873 | Open Shed Warehouse/POL | 25 | Hazardous materials | Recoupment | 1942 | 1 | 276,000 |
| T874 | Sewage Pump | 25 | Sewage pump house | Sewage pump house | 1949 | 1 | 167 |
| S875 | Open Shed Warehouse/Heating Fuel Storage | 25 | Overflow POLs | Acids, PCE, chlorine storage | 1942 | 1 | 276,000 |
| 877 | Load and Unload Dock | 25 | Loading/unloading | Loading/unloading | Unknown | NA | NA |
| 881 | Load and Unload Dock | 25 | Loading/unloading | Loading/unloading | Unknown | NA | NA |
| 882 | Load and Unload Dock | 25 | Loading/unloading | Loading/unloading | Unknown | NA | NA |
| 889 | Load and Unload Dock | 26 | Loading/unloading | Loading/unloading | Unknown | NA | NA |
| 910 | Load and Unload Dock | 31 | Loading/unloading | Loading/unloading | Unknown | NA | NA |
| 925 | Special Purpose Warehouse | 30 | Storage of flammables in drums | Drum storage on earth berm (former Area X-25) | 1993/1994 | 1 | 60,000 |
| P949 | General Purpose Warehouse | 30 | Steel storage | Painting | 1987 | 1 | 60,000 |
| S970 | Open Shed Warehouse | 26 | Steel, rope, hardware, hose | Unknown | 1942 | 1 | 276,000 |

Table 3-1
FACILITY LISTING
DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE

| Facility Number | Description | MPRA Parcel Number | Storage/Use (Current) | Storage/Use (Past) | Year Built | Number of Floors | Size (Square Feet) |
|-----------------|--|--------------------|---|---------------------------------|------------|------------------|--------------------|
| S972 | Open Shed Warehouse | 27 | Packing material | Flammables, solvents, waste oil | 1942 | 1 | 276,000 |
| 982 | Load and Unload Dock | 27 | Loading/unloading | Loading/unloading | Unknown | NA | NA |
| S995 | Transportation - Steel Building | 23 | Steel storage and handling | Unknown | Unknown | 1 | 8,000 |
| T1084 | Open Warehouse | 35 | Office furniture, tote bins, steel saws | DDT, pesticides | 1953 | 1 | 1,200 |
| S1085 | Vehicle Grease Rack | 35 | No Longer in Service | Vehicle maintenance | Unknown | 1 | NA |
| 1086 | Care and Preservation Shop/Paint Booth | 35 | Hazardous materials in 55-gallon drums, paint waste | Hazardous waste | 1959 | 1 | 9,760 |
| 1087 | Paint Facility | 35 | Paint booth | Paint booth | 1952 | 1 | 4,927 |
| 1088 | Sandblasting Facility | 35 | Sandblasting | Sandblasting | 1953 | 1 | 2,272 |
| S1089 | Open Shed Warehouse | 28 | Miscellaneous chemicals (paint/solvents) | Historic sand blasting/acids | 1960 | 1 | 39,600 |
| S1090 | Paint Storage Igloo | 35 | Paint storage | Unknown | 1952 | 1 | 840 |
| S1091 | Paint Storage Igloo | 35 | Paint storage | Unknown | 1953 | 1 | 800 |
| 1104 | Load and Unload Dock | 36 | Loading/unloading | Loading/unloading | Unknown | NA | NA |
| 1145 | Load and Unload Dock | 36 | Loading/unloading | Loading/unloading | Unknown | NA | NA |
| 1146 | Load and Unload Dock | 36 | Loading/unloading | Loading/unloading | Unknown | NA | NA |
| 1184 | Facility Engineer Storehouse | 36 | Lawn equipment | Pistol range house | 1956 | 1 | 288 |

Table 3-1
FACILITY LISTING
DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE

| Facility Number | Description | MBRA Parcel Number | Storage/Use (Current) | Storage/Use (Past) | Year Built | Number of Floors | Size (Square Feet) |
|-----------------|--|--------------------|--|------------------------|------------|------------------|--------------------|
| 1185 | Firing Range | 36 | No Longer in Service | Ammunition, pesticides | Unknown | 1 | Unknown |
| 81160A | Standby Generator | 5 | Emergency power | Emergency power | Unknown | NA | NA |
| 81160B | Standby Generator | 5 | Emergency power | Emergency power | Unknown | NA | NA |
| 81160C | Standby Generator | 17 | Emergency power | Emergency power | Unknown | NA | NA |
| 88015 | Garbage Dumpster-Concrete Pad | 15 | Garbage compactor | Unknown | Unknown | NA | NA |
| Unnumbered | West Side Railway | Multiple | Includes X04, X13, X15, X17, X19, X20, X21, X23, and X27 | Railyard | Unknown | NA | Unknown |
| Unnumbered | East Side Railway | 33 | Also referred to Areas X05, X06, X07, and X08 | Railyard | Unknown | NA | Unknown |
| Unnumbered | Golf Cart Shed | 3 | Recreation | Recreation | Unknown | NA | Unknown |
| Unnumbered | Equipment Shed | 3 | Furniture, dry goods | Furniture, dry goods | Unknown | 1 | Unknown |
| Unnumbered | Concrete Pad (25 feet by 45 feet, 1,125 sq ft) | 36 | None | Unknown | Unknown | NA | NA |
| Unnumbered | Contractor Mower Shed | 29 | Mower, gasoline, oil storage | Unknown | Unknown | NA | Unknown |
| X01 | Open Storage Area | 23 | Storage yard | Lake | Unknown | NA | Unknown |
| X02 | Open Storage Area | 24 | Steel and PVC pipe | Unknown | Unknown | NA | Unknown |
| X03 | Open Storage Area | 24 | Steel, PVC pipe | Unknown | Unknown | NA | Unknown |
| X04 | Open Storage Area | 28 | Steel, PVC pipe | Unknown | Unknown | NA | Unknown |

Table 3-1
FACILITY LISTING
DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE

| Facility Number | Description | MDHA Parcel Number | Storage/Use (Current) | Storage/Use (Past) | Year Built | Number of Floors | Size (Square Feet) |
|-----------------|-------------------|--------------------|--|---|------------|------------------|--------------------|
| X05 | Open Storage Area | 33 | West of 650, also referred to as the East Rail Yard Area | Petroleum products, equipment, transformers | Unknown | NA | Unknown |
| X06 | Open Storage Area | 33 | West of 649, also referred to as the East Rail Yard Area | Petroleum products, equipment, transformers | Unknown | NA | Unknown |
| X07 | Open Storage Area | 33 | West of 630, also referred to as the East Rail Yard Area | Petroleum products, equipment, transformers | Unknown | NA | Unknown |
| X08 | Open Storage Area | 33 | West of 629, also referred to as the East Rail Yard Area | Petroleum products, equipment, transformers | Unknown | NA | Unknown |
| X09 | Open Storage Area | 15 | Northwest of 629, Part of DRMO storage yard | Unknown | Unknown | NA | Unknown |
| X10 | Open Storage Area | 33 | Miscellaneous nonhazardous materials | Petroleum products | Unknown | NA | Unknown |
| X11 | Open Storage Area | 33 | Miscellaneous nonhazardous materials | Flammables | Unknown | NA | Unknown |
| X13 | Open Storage Area | 32 | Miscellaneous nonhazardous materials | Flammables | Unknown | NA | Unknown |

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Table 3-1
FACILITY LISTING
DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE

| Facility Number | Description | MDRA Parcel Number | Storage/Use (Current) | Storage/Use (Past) | Year Built | Number of Floors | Size (Square Feet) |
|-----------------|-------------------|--------------------|---|-----------------------------------|------------|------------------|--------------------|
| X15 | Open Storage Area | 32 | Miscellaneous nonhazardous materials | Flammables | Unknown | NA | Unknown |
| X17 | Open Storage Area | 31 | Steel and PVC pipe | Unknown | Unknown | NA | Unknown |
| X19 | Open Storage Area | 31 | Steel, PVC pipe | Unknown | Unknown | NA | Unknown |
| X20 | Open Storage Area | 31 | Miscellaneous nonhazardous materials | Unknown | Unknown | NA | Unknown |
| X21 | Open Storage Area | 31 | Steel, PVC pipe | Unknown | Unknown | NA | Unknown |
| X23 | Open Storage Area | 31 | Steel, PVC pipe | Unknown | Unknown | NA | Unknown |
| X27 | Open Storage Area | 29 | Steel, PVC pipe | Unknown | Unknown | NA | Unknown |
| X30 | Open Storage Area | 29 | Steel, PVC pipe | Unknown | Unknown | NA | Unknown |
| Y10 | Open Storage Area | 15 | Storage, DRMO Yard | Oil drum, PCB transformer storage | Unknown | NA | Unknown |
| Y11 | Open Storage Area | 33 | DRMO Yard | Unknown | Unknown | NA | Unknown |
| Y50 | Open Storage Area | 15 | Metal and unused oil storage, DRMO Yard | Storage | Unknown | NA | Unknown |
| Y60 | Open Storage Area | 15 | DRMO Yard, incorporated into Area Y50 | Unknown | Unknown | NA | Unknown |

Note:

NA - Not Applicable

Table 3-2
STORAGE TANK LIST
DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE

| LOCATION | MDRA PARCEL | CAPACITY (Gallons) | TANK TYPE | YEAR PUT INTO USE | PRODUCT STORAGE | TANK SURVEY REQUIRED/RECOMMENDED COMPLIANCE ACTIONS | PRESENT STATUS ACTIVE/ REMOVED |
|-----------------------------|----------------|-----------------------|--------------|----------------------|---|--|---|
| Building 209, north side | 14 | 12,000 | UST | 1942 | Heating Oil | Closure by excavation or filling in place; recommended by December 1994. | Removed July 1994 |
| Building 209, north side | 14 | 500 | UST | 1942 | Heating Oil | Closure by excavation or filling in place; recommended by December 1994. | Removed July 1995 |
| Building 209, north side | 14 | 500 | UST | 1942 | Blower blow down water | Closure by excavation or filling in place; recommended by December 1994. | Removed July 1995 |
| Building 209, north side | 14 | Size unavailable | Unknown | Date unavailable | Fuel Oil | Tank not found during survey. Existence could not be determined without excavation. | Unknown |
| Building 210, south side | 13 | Approx 100 | AST | 1988 | Diesel Fuel | Not Applicable | Active |
| Building 253, north side | 4 | 5,000 | UST | 1952 | Heating Oil | Closure by excavation or filling in place; recommended by December 1994. | Removed July 1996 |
| Building 253, north side | 4 | 200 | UST | 1986 | Oil/water separator containment tank | Not Applicable | Active |
| Building 254, northwest | 4 | 1,100 | UST | Date unavailable | Gasoline | Not Applicable | Removed December 1989 |
| Building 257 | 4 | 12,000 | UST | 1942 | Gasoline | Not Applicable | Removed 1986; replaced with 18,000- and 20,000-gallon tanks |

Table 3-2
STORAGE TANK LIST
DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE

| LOCATION | MDRA PARCEL | CAPACITY (Gallons) | TANK TYPE | YEAR PUT INTO USE | PRODUCT STORAGE | TANK SURVEY REQUIRED/RECOMMENDED COMPLIANCE ACTIONS | PRESENT STATUS ACTIVE/ REMOVED |
|-----------------------------|----------------|-----------------------|--------------|----------------------|--------------------|---|---|
| Building 257 | 4 | 12,000 | UST | 1942 | Gasoline | Not Applicable | Removed 1986; replaced with 18,000- and 20,000-gallon tanks |
| Building 257 | 4 | 20,000 | UST | 1951 | Gasoline | Not Applicable | Removed 1986; replaced with 18,000- and 20,000-gallon tanks |
| Building 257 | 4 | 1,000 | AST | 1992 | Gasoline | Not Applicable | Active |
| Building 257 | 4 | 1,000 | AST | 1992 | Diesel Fuel | Not Applicable | Active |
| Building 257, south side | 4 | 18,000 | UST | 1984 | Gasoline | Leak detection; required by December 1993. Spilloverflow prevention; required by December 1998. Corrosion protection; required by December 1998. | Active |
| Building 257, south side | 4 | 20,000 | UST | 1984 | Gasoline | Leak detection; required by December 1993. Spilloverflow prevention; required by December 1998. Corrosion protection; required by December 1998. | Active |
| Building 257, west side | 4 | 2,580 | UST | 1951 | Gasoline | Not Applicable | Removed December 1989 due to leak detection |
| Building 319, north side | 15 | 4,000 | UST | 1988 | Heating Oil | Closure by excavation or filling in place; recommended by December 1994. | Removed July 1994 |
| Building 359, north side | 17 | 12,000 | UST | 1942 | Heating Oil | Closure by excavation or filling in place; recommended by December 1994. | Closed in place July 1994 |

Table 3-2
STORAGE TANK LIST
DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE

| LOCATION | MDRA PARCEL | CAPACITY (Gallons) | TANK TYPE | YEAR PUT INTO USE | PRODUCT STORAGE | TANK SURVEY REQUIRED/RECOMMENDED COMPLIANCE ACTIONS | PRESENT STATUS ACTIVE/ REMOVED |
|-----------------------------|----------------|-----------------------|--------------|----------------------|---|---|--|
| Building 359, north side | 17 | 500 | UST | 1942 | Heating Oil | Closure by excavation or filling in place; recommended by December 1994. | Closed in place September 1995 |
| Building 359, north side | 17 | 500 | UST | 1942 | Blower blow down water | Closure by excavation or filling in place; recommended by December 1994. | Closed in place July 1994 |
| Building 359/4 | 17 | 1,000 | UST | 1979 | Heating Oil | Not Applicable | Removed 1993 |
| Building 359/4 | 17 | 500 | UST | 1942 | Diesel Fuel | Not Applicable | Removed 1993 |
| Building 359, north side | 17 | 1,000 | AST | 1993 | Diesel Fuel | Not Applicable | Active |
| Building 465, east side | 19 | 1,000 | UST | 1986 | Oil/water separator containment tank | No compliance action required or recommended. | Active |
| Building 720, northwest | 33 | 12,000 | AST | 1942 | Diesel Fuel | Not Applicable | Inactive, scheduled for removal in 1997 |
| Building 737, south side | 33 | 12,000 | UST | 1942 | Pentachlorophenol and Dioxin | Not Applicable | Removed September 1985 |
| Building 737, west side | 33 | 1,000 | UST | 1986 | Rodenticide Pesticide/Herbicide Insecticide Rinsate | Closure by excavation or filling in place; recommended by December 1994. | Closed in place September 1995 |
| Building 754 | 33 | 200 | UST | 1956 | Gasoline | Not Applicable | Removed January 1986 |

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Table 3-2
STORAGE TANK LIST
DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE

| LOCATION | MDRA PARCEL | CAPACITY (Gallons) | TANK TYPE | YEAR PUT INTO USE | PRODUCT STORAGE | TANK SURVEY REQUIRED/RECOMMENDED COMPLIANCE ACTIONS | PRESENT STATUS ACTIVE/ REMOVED |
|-----------------------------|----------------|-----------------------|--------------|----------------------|---|--|--------------------------------------|
| Building 756, west side | 33 | 1,000 | UST | 1987 | Diesel Fuel | Leak detection; required by December 1993. Spill/overflow prevention; required by December 1998. | Removed July 1994 |
| Building 756, west side | 33 | 1,000 | AST | 1994 | Diesel Fuel | Not Applicable | Active |
| Building 770 | 24 | 11,155 | AST | 1951 | Diesel Fuel | Not Applicable | Removed July 1994 |
| Building 770 | 24 | 11,155 | AST | 1951 | Fuel Oil | Not Applicable | Removed July 1994 |
| Building 770, east side | 24 | 10,000 | UST | 1951 | Heating Oil | Closure by excavation or filling in place; recommended by December 1994. | Removed July 1994 |
| Building 770, north side | 24 | 200 | UST | 1986 | Oil/water separator containment tank | No compliance action required or recommended. | Active |
| Building 770, west side | 24 | 440 | Unknown | Date unavailable | Gasoline | Not Applicable | Removed December 1989 |
| Building 770, west side | 24 | 1,000 | Unknown | 1951 | Used Motor Oil | Not Applicable | Removed December 1989 |
| Building 770, west side | 24 | 1,000 | Unknown | 1951 | Used Motor Oil | Not Applicable | Removed December 1989 |
| Building 875, east side | 25 | 1,000 | UST | 1950 | Heating Oil | Closure by excavation or filling in place; recommended by December 1994. | Closed in place July 1994 |
| Building 1085, east side | 35 | 1,000 | Unknown | 1942 | Waste Oil | No compliance action required or recommended. | Tank not found in 1988 survey |

Table 3-2
STORAGE TANK LIST
DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE

| LOCATION | MDRA PARCEL | CAPACITY (Gallons) | TANK TYPE | YEAR PUT INTO USE | PRODUCT STORAGE | TANK SURVEY REQUIRED/RECOMMENDED COMPLIANCE/ACTIONS | PRESENT STATUS ACTIVE/ REMOVED |
|-------------------|----------------|-----------------------|--------------|----------------------|--------------------|---|--------------------------------------|
| Building S1085 | 35 | 100 | UST | 1950 | Hydraulic Fluid | Not Applicable | Closed in place 1995 |

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TAB

4.0

FINAL

SECTION FOUR**INVESTIGATION RESULTS**

4.0 INVESTIGATION RESULTS

This section describes the results of the EBS investigation. It discusses:

- Sources of potential contamination that have been addressed in prior reports
- Sources of potential contamination that have not been addressed by previous investigations
- Adjacent properties that may be potential sources of contamination to the installation property
- Areas containing contamination substances not regulated by CERCLA (non-CERCLA)
- Remediation activities that have occurred
- Real property within the installation property that will be retained by the U.S. Army (reserve enclaves)

4.1 PREVIOUSLY IDENTIFIED SOURCES OF POTENTIAL CONTAMINATION

Several environmental studies have been conducted at the DDMT that have identified sources of potential contamination.

- In Fiscal Year 1981 (FY81), an installation Environmental Assessment identified 75 CERCLA sites, 35 of which required no further action (Chemical Systems Laboratory 1981).
- In FY85, an Interim Remedial Action (IRA) was completed that included the removal of a pentachlorophenol (PCP) wood preservative treatment vat, a UST used for PCP storage, and contaminated soil surrounding the site.
- Between FY86 and FY89, nine USTs were removed at the installation.
- RI/FS activities began in FY89 and were completed for 40 sites in FY90 (Law Environmental 1990a, 1990c). RI activities are currently ongoing.

SECTION FOUR**INVESTIGATION RESULTS**

- A RCRA Facility Assessment (RFA), completed in 1990, identified 49 Solid Waste Management Units (SWMUs) and 8 Areas of Concern (AOCs) (A.T. Kearney, Inc. 1990).
- A UST survey completed in FY93 identified 16 additional UST sites and outlined actions needed to ensure that USTs are maintained in compliance with applicable regulations.
- In FY94, RI/FS field sampling plans were developed for each OU (CH2M Hill 1995c, 1995d, 1995e, 1995f) and the screening sites (CH2M Hill 1995h); a No Further Action report was prepared for 13 sites (CH2M Hill 1994a).
- In FY95, a draft Record of Decision (ROD) was prepared for an IRA for groundwater contamination at Dunn Field (CH2M Hill 1995g).
- In FY95, a *Generic Remedial Investigation/Feasibility Study Work Plan* was prepared to indicate how the investigation and study would be accomplished, to investigate the sites that were not previously investigated, and to fill data gaps at previously investigated sites (CH2M Hill 1995b).

The DDMT has been placed on the NPL and must fulfill requirements under CERCLA and the National Contingency Plan (NCP). The remedial process under CERCLA and the NCP requires the preparation of an RI/FS to determine the nature and extent of contamination, to evaluate public health risks, and to screen potential remedial actions. The RI/FS process is being managed by the U.S. Army Engineering and Support Center, Huntsville (CEHNC). To assist further investigations, representatives of the DDMT, CEHNC, EPA, and Tennessee Department of Environment and Conservation (TDEC) divided the facility into four potential OUs, as shown on Figure 4-1 and listed below.

- OU-1 Dunn Field
- OU-2 Southwest Quadrant, Main Installation
- OU-3 Southeastern Watershed and Golf Course, Main Installation
- OU-4 North-Central Area, Main Installation

SECTION FOUR**INVESTIGATION RESULTS**

The following general criteria were used to define the OUs:

- Geographic proximity of sites
- Similar contaminants of concern previously identified
- Similar investigation methods
- Scope and complexity of investigation
- Results of previous site studies
- Potential for off-site migration and exposure
- Relative threat to the city of Memphis drinking water supply
- Suspected mobility of contaminants

4.1.1 Description of Operable Units

In addition to the four OUs, sources of potential contamination at the DDMT are further grouped into RI sites, proposed Early Removal (ER) sites, screening sites, proposed No Further Action (proposed NFA) sites, and Chemical Warfare Management Plan (CWMP) sites. The following sections list the potential contamination sites at the DDMT according to OU. Associated site numbers from previous reports, the designated MDRA parcel number, and the current disposition of the site are included.

For purposes of this EBS report, references to site numbers correspond to the *RI/FS Work Plan* site number.

4.1.1.1 OU-1: Dunn Field

OU-1, Dunn Field, is an open, unpaved area located north of the main installation, which is separated from the installation by Dunn Road. Dunn Field is the only known and documented burial area on the DDMT. Most of the potential contamination sites are associated with burial sites that may require similar investigation techniques. OU-1 includes the following potential contamination sites, as shown on Figure 4-2:

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Table 4-1
OPERABLE UNIT 1: DUNN FIELD

| R/FS WORK PLAN SITE NUMBER | RFA REPORT SITE NUMBER | RI REPORT SITE NUMBER | MDRA PARCEL NUMBER | DESCRIPTION | CURRENT DISPOSITION OF SITE |
|--|---------------------------------|--------------------------------|--------------------------|---|-----------------------------------|
| 1 | 1 | 1 | 36 | Mustard and Lewsite Training Sets (9 sets) Burial Site (1955) | CWMP |
| 2 | 2 | 2 | 36 | Ammonia Hydroxide (7 pounds) and Acetic Acid (1 gallon) Burial (1955) | Proposed ER |
| 3 | 3 | 3 | 36 | Mixed Chemical Burial Site (orthotoluidine dihydrochloride) (1955) | Proposed ER |
| 4 | 4 | 4 | 36 | POL Burial Site (thirteen 55-gallon drums of oil, grease, and paint) | Proposed ER |
| 4.1 | No Site Designation | 5 | 36 | POL Burial Site (thirty-two 55-gallon drums of oil, grease, and thinner) (1955) | Proposed ER |
| 5 | 5 | 6 | 36 | Methyl Bromide Burial Site A (3 cubic feet) (1955) | Proposed ER |
| 6 | 6 | 7 | 36 | 40,037 units ointment (eye) Burial Site (1955) | RI |
| 7 | 7 | 8 | 36 | Nitric Acid Burial Site (1,700 quart bottles) (1954) | Proposed ER |
| 8 | 8 | 9 | 36 | Methyl Bromide Burial Site B (3,768 1-gallon cans) (1954) | Proposed ER |
| 9 | 9 | 10 | 36 | Ashes and Metal Burial Site (burning-pit refuse) (1955) | CWMP |
| 10 | 10 | 74 | 36 | Solid Waste Burial Site (near MW-10) (metal, glass, trash, etc.) | RI |
| 11 | 11 | 11 | 36 | Trichloroacetic Acid Burial Site (1,433 1-ounce bottles) (1965) | RI |
| 12 | 12 | 12 | 36 | Sulfuric and Hydrochloric Acid Burial (1967) | RI |
| 13 | 13 | 13 | 36 | Mixed Chemical Burial (Acid, 900 pounds; unnamed solids, 8,100 pounds) | Proposed ER |
| 14 | 14 | 75 | 36 | Municipal Waste Burial Site B (near MW-12) (food, paper products) | RI |
| 15 | 15 | 14 | 36 | Sodium Burial Sites (1968) | RI |
| 15.1 | No Site Designation | 15 | 36 | Sodium Phosphate Burial (1968) | RI |

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INVESTIGATION RESULTS

Table 4-1
(Continued)

| RIFS WORK PLAN SITE NUMBER | RFA REPORT SITE NUMBER | RI REPORT SITE NUMBER | MDRA PARCEL NUMBER | DESCRIPTION | CURRENT DISPOSITION OF SITE |
|--|---------------------------------|--------------------------------|--------------------------|---|-----------------------------------|
| 15.2 | No Site Designation | 33 | 36 | 14 Burial Pits: Na_2PO_4 , Sodium, Acid, Medical Supplies, and Chlorinated Lime | RI |
| 16 | 16 | 16 | 36 | Unknown Acid Burial Site (1969) | RJ |
| 16.1 | No Site Designation | 18 | 36 | Acid, date unknown | RJ |
| 17 | 17 | 17 | 36 | Mixed Chemical Burial Site C (1969) | Proposed ER |
| 18 | 18 | No Site Designation | 36 | Plane Crash Residue (Dunn Field) | Proposed NFA |
| 19 | 19 | 21 | 36 | Former Tear Gas Canister Burn Site (Dunn Field) | Screening |
| 20 | 20 | 20 | 36 | Probable Asphalt Burial Site (Dunn Field) | Screening |
| 21 | 21 | 22 | 36 | XXCC-3 Burial Site (Dunn Field) | Screening |
| 22 | 22 | 19 | 36 | Hardware Burial Site (nuts and bolts) (Dunn Field) | Proposed NFA |
| 23 | 23 | 30 | 36 | Construction Debris and Food Burial Site (Dunn Field) | Proposed NFA |
| 24 | 24 | 31 | 36 | Former Burn Site (1946) | CWMP |
| 50 | Area of Concern A | 23 | 36 | Dunn Field Northeastern Quadrant Drainage Ditch | Screening |
| 60 | No Site Designation | 24 | 36 | Pistol Range Impact Area/Bullet Stop | Screening |
| 61 | No Site Designation | 26 | 36 | Buried Drain Pipe (Northwestern Quadrant of Dunn Field) | Screening |
| 62 | No Site Designation | 27 | 36 | Bauxite Storage (Northeastern Quadrant of Dunn Field) | Screening |
| 63 | No Site Designation | 28 | 36 | Fluorspar Storage (Southeastern Quadrant of Dunn Field) | Proposed NFA |
| 64 | No Site Designation | 32 | 36 | Bauxite Storage (Southwestern Quadrant of Dunn Field) (1942 to 1972) | Screening |
| 85 | No Site Designation | 25 | 36 | Old Pistol Range Building 1184/Temporary Pesticide Storage | Proposed ER |

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INVESTIGATION RESULTS

Table 4-1
(Continued)

| RI/FS WORK PLAN SITE NUMBER | RFA REPORT ^a SITE NUMBER | RI REPORT SITE NUMBER | MDRA PARCEL NUMBER | DESCRIPTION | CURRENT DISPOSITION OF SITE |
|---|--|--------------------------------|--------------------------|---|-----------------------------------|
| 86 | No Site Designation | 29 | 36 | Food Supplies (Dunn Field), possible CWM Test Kits | CWMP |

Notes:

- ^a Generic Remedial Investigation/Feasibility Study Work Plan
- ^b RFA Report
- ^c Remedial Investigation Final Report for U.S. Army Corps of Engineers, Huntsville Division

Installation records indicate that various types and quantities of wastes were buried at numerous sites in the northwest quadrant of Dunn Field. Twenty-five sites have been identified where the burial of wastes has been documented by the DDMT, documented in other environmental studies, or discovered during the RI field investigation (Law Environmental 1990c). Soil samples collected in the Dunn Field Area during previous investigations indicated the presence of pesticides at concentrations up to 0.48 milligrams per kilogram (mg/kg) and polynuclear aromatic hydrocarbons (PAHs) at concentrations up to 220 mg/kg. Groundwater monitoring wells were installed into the uppermost (fluvial) aquifer in the area by the U.S. Army Environmental Hygiene Agency (USAEHA) in 1982 and by Law Environmental during the RI conducted from 1989 through 1990. Groundwater monitoring data collected during the RI and presented in the *RI Report* (Law Environmental 1990c) have shown levels of volatile organic compounds (VOCs) at concentrations up to 5.1 mg/L and metals at concentrations up to 35 mg/L (including chromium, lead, and mercury) that suggest contamination has migrated to groundwater. The individual source or sources of contamination have not been determined.

4.1.1.2 OU-2: Southwestern Quadrant of Main Installation

OU-2 is geographically located in the southwestern quadrant of the main installation area of the DDMT and is characterized primarily as an industrial area where maintenance and repair activities have taken place. The OU-2 boundaries are based on the geographic proximity of potential

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INVESTIGATION RESULTS

contamination sites and the maintenance activities that occurred. OU-2 includes the following potential contamination sites, as shown on Figure 4-3:

Table 4-2
OPERABLE UNIT 2: SOUTHWESTERN QUADRANT

| RIFS WORK PLAN ^a SITE NUMBER | RFA REPORT ^b SITE NUMBER | RI REPORT ^c SITE NUMBER | MDRA PARCEL NUMBER | DESCRIPTION | CURRENT DISPOSITION OF SITE |
|---|--|---|--------------------------|--|-----------------------------------|
| 27 | 27 | 60 | 25 | Former Recoupment Area (Building S873) | RI |
| 29 | 29 | 66 | 35 | Former Underground Waste Oil Storage Tank | Proposed ER |
| 30 | 30 | No Site Designation | 24 | Paint Spray Booths (2 of 3 total; Buildings 770 and 1086) | Proposed NFA |
| 31 | 31 | No Site Designation | 35 | Former Paint Spray Booth (Building 1087) | Screening |
| 32 | 32 | 67 | 35 | Sandblasting Waste Accumulation Area | RI |
| 33 | 33 | No Site Designation | 35 | Sandblasting Waste Drum Storage Area (metal shed south of Building 1088) | Screening |
| 34 | 34 | 58 | 24 | Building 770 Underground Oil Storage Tanks | RI |
| 40 | 40 | No Site Designation | 24 | Safety Kleen Units - 5 of 9 total (all located in Building 770) | Proposed NFA |
| 41 | 41 | No Site Designation | 24 | Satellite Drum Accumulation Areas - 2 of 4 total (vicinity of Building 770) | Proposed NFA |
| 47 | 47 | No Site Designation | 23 | Former Contaminated Soil Drum Storage Area (300 feet west of Building 689; removed 1988) | Proposed NFA |
| 71 | No Site Designation | No Site Designation | Multiple | Herbicide (all railroad tracks) (used to clear tracks) | Screening |
| 82 | No Site Designation | 59 | 23 | Flammables (Buildings 783 and 793) | Screening |
| 84 | No Site Designation | 63 | 27 | Flammables, Solvents, Waste Oil, etc. (Building 972) | Screening |
| 87 | No Site Designation | 64 | 35 | DDT, Banned Pesticides (Building 1084) | Proposed ER |
| 88 | No Site Designation | 65 | 35 | POL (Building 1085) | Proposed ER |

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INVESTIGATION RESULTS

Table 4-2
(Continued)

| RI/FS WORK PLAN SITE NUMBER | RFA REPORT ^b SITE NUMBER | RI REPORT ^c SITE NUMBER | MDRA PARCEL NUMBER | DESCRIPTION | CURRENT DISPOSITION OF SITE |
|---|--|---|--------------------------|-----------------------|-----------------------------------|
| 89 | No Site Designation | 68 | 28 | Acids (Building 1089) | RI |

Notes:

^a Generic Remedial Investigation/Feasibility Study Work Plan^b RFA Report^c Remedial Investigation Final Report for U.S. Army Corps of Engineers, Huntsville Division

One soil boring (yielding three samples) and 15 surface soil samples were collected in OU-2 during previous investigations. These samples were collected in an effort to better characterize the former hazardous materials recoupment area, the maintenance shop, and the sandblasting/painting areas. In general, sample analysis detected the presence of pesticides (up to 7.4 mg/kg), PCBs (up to 10 mg/kg), and PAHs (up to 8.1 mg/kg) at the sandblasting/painting area, and pesticides (up to 0.052 mg/kg), solvents (up to 0.11 mg/kg), and PAHs (up to 18 mg/kg) in the area of the maintenance shop. Groundwater investigations in OU-2 have indicated the presence of solvents (up to 0.039 mg/L) and metals (up to 0.75 mg/L).

4.1.1.3 OU-3: Southeastern Watershed

The boundaries of OU-3 are based on its geographic location and a desire to encompass the entire southeastern watershed. OU-3 contains the only surface water bodies on the DDMT; therefore, it was practical to keep the majority of the sampling and analysis associated with surface water and sediments within the same OU. OU-3 includes the following potential contamination sites, as shown on Figure 4-4:

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Table 4-3
 OPERABLE UNIT 3: SOUTHEASTERN QUADRANT

| RIFS WORK PLAN SITE NUMBER | RFA REPORT SITE NUMBER | RI REPORT SITE NUMBER | MDRA PARCEL NUMBER | DESCRIPTION | CURRENT DISPOSITION OF SITE |
|--|---------------------------------|--------------------------------|--------------------------|--|-----------------------------------|
| 25 | 25 | 42 | 3 | Golf Course Pond | RI |
| 26 | 26 | 43 | 3 | Lake Danielson | RI |
| 30 | 30 | No Site Designation | 4 | Paint Spray Booths (1 of 3 total - Building 260) | Proposed NFA |
| 40 | 40 | No Site Designation | 4, 19, 21, and 21 | Safety Kleen Units - 4 of 9 total units (Buildings 253, 469, 490, and 689) | Proposed NFA |
| 41 | 41 | No Site Designation | 4 and 19 | Satellite Drum Accumulation Areas - 2 of 4 total areas (Buildings 260 and 469) | Proposed NFA |
| 48 | 48 | 39 | 5 | Former PCB Transformer Storage Area | RI |
| 49 | 49 | 46 | 17 | Medical Waste Storage Area | Proposed NFA |
| 51 | Area of Concern B | No Site Designation | 3 | Lake Danielson Outlet Ditch | Screening |
| 52 | Area of Concern C | No Site Designation | 3 | Golf Course Pond Outlet Ditch | Screening |
| 58 | No Site Designation | 38 | 4 | Pesticides, Herbicides (Pad 267) | RI |
| 59 | No Site Designation | 40 | 4 | Pesticides, Cleaners (Building 273) | RI |
| 65 | No Site Designation | 34 | 7 | XXCC-3 (Building 249) | Screening |
| 66 | No Site Designation | 35 | 4 | POL (Building 253) | Screening |
| 67 | No Site Designation | 36 | 4 | MOGas (Building 273) | Screening |
| 68 | No Site Designation | 37 | 4 | POL (Building 263) (20 feet by 40 feet) | Screening |
| 69 | No Site Designation | 41 | 3 | 2,4-D, M2A I, and M4 Flamethrower Liquid Fuels (surface application) | Screening |
| 73 | No Site Designation | 73 | Multiple | 2,4-Dichlorophenoxyacetic Acid (all grassed areas) | Screening |
| 75 | No Site Designation | 50 | 21 | Unknown Wastes near Building 689 | Screening |
| 76 | No Site Designation | 51 | 21 | Unknown Wastes near Building 690 | Screening |

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INVESTIGATION RESULTS

Table 4-3
(Continued)

| RIFS WORK PLAN ^a SITE NUMBER | RFA REPORT ^b SITE NUMBER | RI REPORT SITE NUMBER | MDRA PARCEL NUMBER | DESCRIPTION | CURRENT DISPOSITION OF SITE |
|---|--|--------------------------------|--------------------------|--|-----------------------------------|
| 77 | No Site Designation | 52 | 22 | Unknown Wastes near Buildings 689 and 690 | Screening |
| 78 | No Site Designation | 53 | 21 | Alcohol, Acetone, Toluene, Naphtha; Hydrofluoric Acid Spill | Screening |

Notes:

^a Generic Remedial Investigation/Feasibility Study Work Plan^b RFA Report^c Remedial Investigation Final Report for U.S. Army Corps of Engineers, Huntsville Division

In general, soil samples collected in OU-3 (seven surface samples) were insufficient to characterize individual sites or sources. Groundwater analysis in OU-3 detected VOCs (up to 0.01 mg/L) and metals (up to 1.96 mg/L). Surface water and sediment samples also were collected from Lake Danielson, the golf course pond, and from storm drainage ditches. Surface water samples collected in the drainageways generally indicated slightly higher levels of potential contaminants (pesticides up to 0.0022 mg/L) than samples from either Lake Danielson or the golf course pond. Sediments collected from both Lake Danielson and the golf course pond indicated the presence of pesticides (up to 2.9 mg/kg) and PAHs (up to 2.4 mg/kg).

4.1.1.4 OU-4: North-Central Area of Main Installation

OU-4 is located in the north-central section of the main installation area at the DDMT. The boundaries of OU-4 are based on the material storage activities that occurred and the central location of the area. In addition to the potential contamination site investigations being conducted at OU-4, an investigation of the potential communication between the Fluvial Aquifer and the Memphis Sand Aquifer is currently ongoing. OU-4 includes the following potential contamination sites, as shown on Figure 4-5:

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INVESTIGATION RESULTS

Table 4-4
OPERABLE UNIT 4: NORTH AREA OF MAIN INSTALLATION

| R/FS WORK PLAN SITE NUMBER | RFA REPORT SITE NUMBER | RJ REPORT SITE NUMBER | MDRA PARCEL NUMBER | DESCRIPTION | CURRENT DISPOSITION OF SITE |
|--|---------------------------------|--------------------------------|--------------------------|--|-----------------------------------|
| 28 | 28 | No Site Designation | 32 | Recoupment Area (Building 865) | Screening |
| 35 | 35 | 46 | 15 | DRMO Building S308 - Hazardous Waste Storage | Screening |
| 36 | 36 | No Site Designation | 15 | DRMO Hazardous Waste Concrete Storage Pad | Screening |
| 37 | 37 | No Site Designation | 15 | DRMO Hazardous Waste Gravel Storage Pad | Screening |
| 38 | 38 | No Site Designation | 15 | DRMO Damaged/Empty Hazardous Materials Drum Storage Area | Screening |
| 39 | 39 | No Site Designation | 15 | DRMO Damaged/Empty Lubricant Container Area | Screening |
| 41 | 41 | No Site Designation | 13 | Satellite Drum Accumulation Area (1 of 5 total - Building 210) | Proposed NFA |
| 42 | 42 | 56 | 33 | Former PCP Dip Vat Area | Screening |
| 43 | 43 | 56 | 33 | Former Underground PCP Tank Area | Screening |
| 44 | 44 | 56 | 33 | Former Wastewater Treatment Unit Area | Proposed NFA |
| 45 | 45 | 56 | 33 | Former Contaminated Soil Staging Area | Proposed NFA |
| 46 | 46 | 56 | 33 | Former PCP Pallet Drying Area | Screening |
| 53 | Area of Concern D | 61 and 62 | 30 | X-25 Flammable Solvents Storage Area (near Building 925) | Proposed NFA |
| 54 | Area of Concern E | No Site Designation | 15 | Main Installation - DRMO East Stormwater Runoff Canal | Screening |
| 55 | Area of Concern F | No Site Designation | 15 | Main Installation - DRMO North Stormwater Runoff Canal | Screening |
| 56 | Area of Concern G | No Site Designation | 29 | Main Installation - West Stormwater Drainage Canal | Screening |
| 57 | Area of Concern H | 49 | 12 | Building 629 Spill Area | RJ |
| 70 | No Site Designation | No Site Designation | Multiple | POL, Various Chemical Leaks (railroad tracks, 1, 2, 3, 4, 5, and 6) | Screening |
| 71 | No Site Designation | No Site Designation | Multiple | Herbicide (all railroad tracks) (used to clear tracks) | Screening |
| 72 | No Site Designation | No Site Designation | 15 | Waste Oil (DRMO yard) (surface application for dust control) | Screening |

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INVESTIGATION RESULTS

Table 4-4
(Continued)

| RI/FS WORK PLAN SITE NUMBER | RFA REPORT SITE ^b NUMBER | RI REPORT SITE ^c NUMBER | MDRA PARCEL NUMBER | DESCRIPTION | CURRENT DISPOSITION OF SITE |
|---|--|---|--------------------------|--|-----------------------------------|
| 73 | No Site Designation | 73 | Multiple | 2,4-Dichlorophenoxyacetic Acid (all grassed areas) | Screening |
| 74 | No Site Designation | 45 | 15 | Flammables, Toxics (West End - Building 319) | Screening |
| 79 | No Site Designation | 54 | 15 | Fuels, Miscellaneous Liquids, Wood, and Paper (Vicinity S702) | Screening |
| 80 | No Site Designation | 55 | 33 | Fuel and Cleaners Dispensing (Building 720) | Screening |
| 81 | No Site Designation | 57 | 33 | Fuel Oil (Building 765) | Screening |
| 83 | No Site Designation | 69 | 30 | Disposal of Dried Paint Residues - South of Building P949 | Screening |

Notes:

^a Generic Remedial Investigation/Feasibility Study Work Plan^b RFA Report^c Remedial Investigation Final Report for U.S. Army Corps of Engineers, Huntsville Division

The most prominent feature of OU-4 is the former main hazardous materials storage building (Building 629), designated as Site 57. Pesticides (up to 59 mg/kg), PAHs (up to 280 mg/kg), and VOCs (up to 970 mg/kg) were detected in soil samples near Site 57 during the RI (Law Environmental 1990c). OU-4 also contains the former PCP dip vat area sites (near Building 737). This area is now used for pesticide storage and hazardous materials storage. Remediation conducted during 1985 and 1986 at this site included the removal of the PCP tank and surrounding soils.

Surface and subsurface soil samples collected and analyzed in 1990 revealed the presence of pesticides (up to 0.079 mg/kg) and solvents (up to 0.005 mg/kg). Surface and subsurface soil samples were also collected from areas where past spills had occurred. Sample results indicated the presence of PAHs (up to 17 mg/kg), pesticides (up to 5.9 mg/kg), and metals (up to 2,420 mg/kg). The results of groundwater samples collected in OU-4 indicated the presence of solvents (up to 0.12 mg/L), pesticides (up to 0.0021 mg/L), and metals (up to 0.91 mg/L).

SECTION FOUR**INVESTIGATION RESULTS****4.1.2 Description of Sites****4.1.2.1 Remedial Investigation Sites**

Remedial investigation sites are those sites for which an RI/FS will be conducted to evaluate the nature and extent of contamination and the risk to human health and the environment, and to screen potential cleanup actions. Detailed field sampling plans have been developed for these sites for each OU. These sites will be characterized based on sampling and analysis results (CH2M Hill 1995b).

4.1.2.2 Proposed Early Removal Sites

The goal of the ER program at the DDMT is to remove contamination at selected sites as soon as possible, thus expediting cleanup of potential sources of contamination. This concept uses the observational approach that includes a flexible design, in-process monitoring, and as-needed adjustments when remediation develops. Certain elements of information are needed to reasonably scope, specify, and identify contingencies for monitoring and controlling the work, no matter how flexible the design is. This "essential design information" must at least identify, to a reasonable degree, the location and size of the site, the scope of the work, the presence of obstructions, and special design and safety concerns for which the contractor must plan and bid (CH2M Hill 1995i).

Table 4-5 summarizes the proposed ER sites (CH2M Hill 1995c, 1995i).

**Table 4-5
PROPOSED ER SITES**

| SITE NUMBER | DESCRIPTION |
|------------------------|--|
| 2 | Ammonia Hydroxide and Acetic Acid Burial |
| 3 | Mixed Chemical Burial Site |
| 4 | POL Burial Site |
| 4.1 | POL Burial Site |
| 5 | Methyl Bromide Burial Site A |
| 7 | Nitric Acid Burial Site |

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Table 4-5
(Continued)

| SITE NUMBER | DESCRIPTION |
|-------------|--|
| 8 | Methyl Bromide Burial Site B |
| 13 | Mixed Chemical Burial |
| 17 | Mixed Chemical Burial Site C |
| 29 | Former Underground Waste Oil Storage Tank |
| 85 | Old Pistol Range Building 1184/Temporary Pesticide Storage |
| 87 | DDT, Banned Pesticides (Building 1084) |
| 88 | POL (Building 1085) |

4.1.2.3 Screening Sites

Screening sites are those sites where additional information is needed to determine if an RI or NFA is warranted. The screening sites that are identified in the *RFA Report* (A.T. Kearney, Inc. 1990) and the *RI Report* (Law Environmental 1990c) are: (1) areas where hazardous materials were managed and where there is potential for contaminant release to have occurred; (2) sites that were minor waste disposal areas used during past operations; or (3) sites that have less potential for contamination than sites placed in the OUs described above, based on historical records. A wide variety of sites are included in this category: stormwater drainage ditches, fuel storage areas, known and suspect spill areas, areas where hazardous substances were used and may have been released, and areas where pesticides had been applied (railroad tracks and vegetation). Table 4-6 summarizes the screening sites (CH2M Hill 1995h).

Table 4-6
SCREENING SITES

| SCREENING SITE NUMBER | DESCRIPTION | POTENTIAL CONTAMINANTS |
|-----------------------|--|-------------------------------------|
| 19 | Former Tear Gas Canister Burn Site (Dunn Field) | PAHs |
| 20 | Probable Asphalt Burial Site (Dunn Field) | PAHs |
| 21 | XXCC-3 Burial Site | Unknown |
| 28 | Hazardous Material Recoup Facility (Building 865) | Unknown |
| 31 | Former Paint Spray Booth (inside Building 1087) | Metals, PAHs, Pesticides/PCBs |
| 33 | Sandblasting Waste Drum Storage Area (Metal Shed South of Building 1088) | Sandblast Grit, Paint Chips, Metals |
| 35 | DRMO Building T-308, Hazardous Waste Storage | Flammables, Caustics, Acids |

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Table 4-6
(Continued)

| SCREENING SITE NUMBER | DESCRIPTION | POTENTIAL CONTAMINANTS |
|-----------------------|---|--------------------------------------|
| 36 | DRMO Hazardous Waste Concrete Storage Pad | Metals, PAHs |
| 37 | DRMO Hazardous Waste Gravel Storage Pad | Metals, PAHs |
| 38 | DRMO Damaged/Empty Hazardous Materials | Metals, PAHs, Pesticides/PCBs |
| 39 | DRMO Damaged/Empty Lubricant Container Area | VOCs, PAHs |
| 42 | Former PCP Dip Vat Area | PCPs |
| 43 | Former Underground PCP Tank Area | PCPs |
| 46 | Former PCP Drying Area | PCPs |
| 50 | Dunn Field Northeast Quadrant Stormwater Drainage Channel | Metals, Pesticides |
| 51 | Lake Danielson Outlet Ditch | Pesticides, Metals |
| 52 | Golf Course Pond Outlet Ditch | Pesticides, Metals |
| 54 | DRMO Drainage Ditch (East) | Unknown |
| 55 | DRMO Drainage Ditch (North) | Unknown |
| 56 | Main Installation Stormwater Drainage Ditch (West) | Unknown |
| 60 | Pistol Range Impact Area/Bullet Stop | Metals |
| 61 | Buried Drain Pipe (Northwest Quadrant of Dunn Field) | VOCs, Metals, or Construction Debris |
| 62 | Bauxite Storage (Dunn Field, Northeast Quadrant) | Metals |
| 64 | Bauxite Storage (Dunn Field, Southwest Quadrant) | Metals |
| 65 | XXCC-3 (Building 249) | Unknown |
| 66 | POL (Building 253) | VOCs, PAHs |
| 67 | MOGas (Building 257) | VOCs, PAHs |
| 68 | POL (Building 263) | VOCs, PAHs |
| 69 | 2,4-D, M2A1, and M4 Flame-Thrower Liquid Fuels (surface application) | PAHs |
| 70 | POL, Various Chemicals (railroad tracks 1, 2, 3, 4, 5, 6) - suspected leaks | PAHs, Pesticides/PCBs |
| 71 | Herbicide (all railroad tracks) (used to clear tracks) | Pesticides |
| 72 | Waste Oil (DRMO yard) (surface application for dust control) | VOCs, PAHs |
| 73 | 2,4 Dichlorophenoxyacetic Acid (all grassed areas) (applied to surface) | PAHs, Pesticides/PCBs |
| 74 | Flammables, Toxics (Building 319, West End) | VOCs, PAHs, Metals, Pesticides/PCBs |
| 75 | Unknown Wastes near Building 689 | PAHs, Pesticides/PCBs |
| 76 | Unknown Wastes near Building 690 | PAHs, Pesticides/PCBs |
| 77 | Unknown Wastes near Building 689 and 690 | PAHs, Pesticides/PCBs |
| 78 | Alcohol, Acetone, Toluene, Naphtha; Hydrofluoric Acid Spill (in the vicinity of Building 689) | VOCs, PAHs |
| 79 | Fuels, Miscellaneous Liquids, Wood, Paper (in the vicinity of Building S702) | VOCs, PAHs |
| 80 | Fuel Dispensing (Building 720) | VOCs, PAHs |

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INVESTIGATION RESULTS

Table 4-6
(Continued)

| SCREENING SITE NUMBER | DESCRIPTION | POTENTIAL CONTAMINANTS |
|-----------------------------|---|-----------------------------|
| 81 | Fuel Oil (Building 765) | VOCs, PAHs |
| 82 | Flammables (Building 783) | VOCs, PAHs, Pesticides/PCBs |
| 83 | Disposal of Dried Paint Residues - South of Building P949 | Metals, VOCs |
| 84 | Flammables, Solvents, Waste Oil (Building 972) | VOCs, PAHs |

4.1.2.4 Proposed No Further Action Sites

During the RFA that was completed in 1990 (A.T. Kearney, Inc. 1990), the RI/FS that was completed in 1990 (Law Environmental 1990a, 1990c), and other previous investigations and enforcement activities, individual sites at the DDMT were investigated, and some sites that pose no threat to human health and the environment were identified. A total of 12 sites are proposed NFA sites for one or more of the following reasons:

- Hazardous substances were never managed or disposed of at the site.
- The site is not a threat for releases because of past waste management activities.
- Previous sampling results have shown no observed contamination.
- Extensive prior removal or remediation activities were conducted.
- Current operational and structural features make NFA probable.

A separate draft *No Further Action Report* has been prepared by the DDMT (CH2M Hill 1994a) for regulatory approval that documents the available information on these sites and the rationale for the proposed NFA determination. These proposed NFA sites are being reevaluated at this time. Table 4-7 summarizes the proposed NFA sites.

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Table 4-7
PROPOSED NFA SITES

| SITE NUMBER | DESCRIPTION | COMMENTS |
|-------------|--|---|
| 18 | Airplane Crash Residue (Dunn Field) | Proposed NFA site per RCRA permit. No hazardous substances at site. |
| 22 | Hardware Burial Site (Nuts and Bolts) (Dunn Field) | Proposed NFA site. No hazardous substances at site. |
| 23 | Construction Debris and Food Burial Site (Dunn Field) | Proposed NFA site. No hazardous substances at site. |
| 30 | Paint Spray Booths (Buildings 260, 770, and 1086) (OUs 2 and 3) | Proposed NFA site per RCRA permit. Active spray paint booths. |
| 40 | Safety Kleen Units (9 interior locations) (OUs 2 and 3) | Proposed NFA site per RCRA permit. |
| 41 | Satellite Drum Accumulation Area (5 locations) (OUs 2 and 3) | Proposed NFA site per RCRA permit. |
| 44 | Former Contaminated Soil Staging Area | Proposed NFA site per RCRA permit. Extensive remediation in 1985 and 1986. |
| 45 | Former Contaminated Soil Staging Area | Proposed NFA site per RCRA permit. Extensive remediation in 1985 and 1986. |
| 47 | Former Contaminated Soil Staging Area (Igloo interior) | Proposed NFA site per RCRA permit. Extensive remediation in 1985 and 1986. |
| 49 | Medical Waste Storage Area (Building 359 interior) | Proposed NFA site per RCRA permit. Expired shelf life medical supplies (off-site disposal). |
| 53 | X-25 Flammable Solvents Storage Area (between Buildings 925 and 949) | Proposed NFA site per RCRA permit. Bermed concrete storage pad; former spill site. |
| 63 | Fluorspar Storage (Southeast Quadrant of Dunn Field) | Proposed NFA Site. Storage of non-hazardous commodity. |

4.1.2.5 Chemical Warfare Management Sites

There are four documented locations within Dunn Field where chemical warfare materials (CWM) have been disposed of. The documented CWM sites of concern at Dunn Field are:

- Mustard bomb decommissioning site (Site 24)
- Ashes and metals burial site (Site 9)
- Chemical Agent Identification Sets (CAISs) burial site (Site 1)
- Food burial site (reported to contain CAISs, Site 86)

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Because CWM was disposed of at Dunn Field at known and unknown locations (CH2M Hill 1995c), and due to the proximity of Dunn Field to residences, the DDMT has requested assistance from agencies responsible for CWM activities. Three agencies are responsible for CWM investigation and disposition: (1) CEHNC; (2) the Program Manager for Chemical Demilitarization (PMCD); and (3) the U.S. Army Technical Escort Unit (TEU).

These three agencies and the DDMT have developed a strategy to evaluate the presence of CWM at the facility and to investigate sites where the potential for CWM exists (CH2M Hill 1995c). The strategy selected to accommodate both the CWM and the hazardous and toxic waste (HTRW) components of the project includes a three-phased approach. All three phases are proposed to begin simultaneously as a result of schedule efficiency and the need for ultimate removal of the CWM sites as a result of the facility's BRAC status. These three phases are described as follows.

1. Conduct an initial investigation focused on the known CWM sites at the facility. The purpose of the investigation is to evaluate the presence of and to delineate the nature and extent of potential CWM contamination at Dunn Field. These activities will be conducted by CEHNC.
2. Prepare a Site Safety Submission for review by the Department of Health and Human Services. The CEHNC will prepare the Site Safety Submission.
3. Conduct necessary CWM removal actions based on the results of the field investigation. Field monitoring and screening will be performed during the field activities and appropriate control measures will be implemented to minimize the occurrence of releases of CWM.

4.1.3 Spill Response Sites

Spill response sites are potential contamination sites where hazardous materials were spilled during handling, accidental spills occurred, or storage containers leaked. Table 4-8 (following Section Four) summarizes the sites that were identified through a review of the Spill Response Checklists

SECTION FOUR**INVESTIGATION RESULTS**

provided by DDMT personnel (available at the DDMT in Building 144, Room 153) and the database search report (Appendix B).

4.2 POTENTIAL CONTAMINATION AREAS IDENTIFIED DURING THE EBS INVESTIGATION

As a result of the EBS on-site visual inspection and the records review, additional potential sources of contamination were identified that were not previously documented. These additional sources of potential contamination are listed in Table 4-9.

Table 4-9
POTENTIAL SOURCES OF CONTAMINATION
IDENTIFIED DURING THE EBS

| FACILITY/ PROPERTY | MDRA PARCEL NUMBER | FACILITY USE | SOURCE OF POTENTIAL CONTAMINATION |
|--|-----------------------|------------------|---|
| Building 229 | 8 | Storage | Potential fumigation |
| Building 250 | 6 | Storage | Acid leaks/staining, fumigation |
| Building 251 | 4 | Storage | Waste oil tank |
| Building 253, Motor Pool and Motor Pool Bay Main Office | 4 | Light Industrial | Hydraulic oil storage area (potential), potential fumigation, floor drain/sump |
| Building 257, Service Station | 4 | Light Industrial | Gasoline dispensing area (potential) |
| Building 265 | 4 | Light Industrial | Storage of maintenance chemicals |
| Building S308 | 15 | Storage | Hazardous waste and battery storage |
| Building 319, Alcohol Storage | 15 | Storage | Storage of alcohol |
| Building 330 | 8 | Storage | Potential fumigation |
| Building 349 | 6 | Storage | Potential fumigation |
| Building 350, Warehouse | 6 | Storage | Discoloration on floor from acid in battery charger area |
| Building 359 | 17 | Storage | Building was fumigated |
| Building 429 | 9 | Storage | Potential fumigation |
| Building 430 | 9 | Storage | Potential fumigation, acid leaks |
| Building 449 | 9 | Storage | Potential fumigation |
| Building 450 | 9 | Storage | Potential fumigation |
| Buildings S465 and S469, Steam Shed and Electromotive Repair Shop | 19 | Light Industrial | PCB spill area, waste oil and lubricating oil storage (55-gallon drums) (potential) |
| Building 470 | 20 | Storage | Acid leak |

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Table 4-9
(Continued)

| FACILITY/ PROPERTY | MDRA PARCEL NUMBER | FACILITY USE | SOURCE OF POTENTIAL CONTAMINATION |
|---|-----------------------|----------------------------|--|
| Building 489 | 20 | Storage | Acid leak |
| Building 490, Receiving Area | 21 | Distribution | Former storage of two 100-gallon dip tanks of P19 (light oil) (potential) |
| Building 529 | 11 | Storage | Potential fumigation |
| Building 530 | 11 | Storage | Potential fumigation |
| Building 549, Warehouse | 10 | Storage | Fumigation chamber (methyl bromide) in west end of building |
| Building 550 | 10 | Storage | Potential fumigation |
| Building 630 | 11 | Storage | Potential fumigation |
| Building 650 | 10 | Storage | Potential fumigation |
| Building S702 | 15 | Unused | Fuel/miscellaneous liquid storage |
| Building 720, Repair Shop | 33 | Light Industrial | Diesel dispensing area (potential) |
| Building S737, Pest Control Shop | 33 | Pest Control | Storage and mixing of pesticides and herbicides in the building, storage of aluminum phosphide waste outside of the building |
| Building 770, Facility Equipment Maintenance Shop | 24 | Light and Heavy Industrial | POL drum storage area, fork lift waste station, and residue from sandblasting and painting (potential) |
| Building 835, Hazardous Materials Mission Stock | 32 | Storage | Storage of hazardous materials (potential) |
| Building S863 | 33 | Storage | Oil stains |
| Building 865 | 32 | Storage | Drum storage area (hazardous materials repouring operations) |
| Building S873 | 25 | Storage | Hazardous materials storage, leaking drums |
| Building P949, Port of Mode | 30 | Light Industrial | Concrete pad outside, spray painting operation (potential) |
| Building S970 | 26 | Storage | Oil leak |
| Building S972 | 27 | Storage | Oil stained areas, potential fumigation |
| Building 1086, Paint Booth | 35 | Light Industrial | Former hazardous materials storage and potential for paint residue, sump |
| Building S1090 | 35 | Storage | POL storage |
| Area X01 | 23 | Storage | Possible PCB and herbicide/pesticide residue contamination |

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Table 4-9
(Continued)

| FACILITY/ PROPERTY | MDRA PARCEL NUMBER | FACILITY USE | SOURCE OF POTENTIAL CONTAMINATION |
|---|-----------------------|------------------|--|
| Area X02, Petroleum 55-gallon drum storage | 24 | Light Industrial | Storage of petroleum products (potential) |
| Area X03, Steel Storage Yard | 24 | Light Industrial | Storage of unknown materials |
| Storage Areas X17, X19, X20, X21, and X23 | 31 | Storage | Storage of unknown materials |

4.3 SOURCES OF POTENTIAL CONTAMINATION FROM ADJACENT OR SURROUNDING PROPERTY

Section 2.2 of this EBS report lists the documents and records reviewed regarding adjacent properties and provides an overview of the information obtained. To summarize, the DDMT is surrounded by commercial and industrial properties, with interspersed residential properties. A number of sites were identified that have the potential to contribute to contamination at the DDMT, particularly through flow in the uppermost groundwater aquifer beneath the site (i.e., Fluvial Aquifer).

4.3.1 Potential Contaminant Migration Pathways

The primary potential pathways for off-site contamination to migrate on site are air, surface water, and groundwater. The information gathered and reviewed for the EBS did not reveal any significant likelihood of contamination having occurred at the DDMT as a result of contaminated air or surface water migrating on site. Minor groundwater contamination has been found at the site periphery from monitoring wells that are located upgradient of the DDMT. However, sufficient data is not available to identify the source of the contaminated groundwater. Section 1.5.6, Hydrogeology, describes the groundwater flow regime in the upper aquifer as it is currently understood. The following paragraphs describe the potential impacts to the DDMT from adjacent properties based on the hydrogeology and groundwater chemistry found at site perimeter wells.

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The groundwater flow regime illustrated on Figure 1-3 indicates that, with the exception of the west side of Dunn Field, regional groundwater flows toward the DDMT. According to this model, contaminated groundwater from an off-site source located in any direction from the DDMT (except northwest) will flow toward the DDMT. However, the *1995 Generic RI/FS Work Plan* (CH2M Hill 1995b) recognizes that the complexities of the Fluvial Aquifer flow regime as described by existing data are not well defined and will need to be investigated further.

A review of groundwater chemistry data collected from installation perimeter wells was performed to assess potential off-site impacts. Data were reviewed from monitoring wells MW-28 and MW-36, located near the northeast and southeast corners of Dunn Field, respectively; MW-16, located at the northeast corner of the main installation; MW-19, MW-20, and MW-21, located along the west boundary of the main installation; MW-22, located at the southwest corner of the main installation; and MW-23 and MW-24, located on the west half of the south installation boundary. These wells are potentially located hydrologically upgradient of the installation. Metals present above the TDEC cleanup goals or above the maximum contaminant levels (MCLs) were found in all groundwater samples collected. The metals detected in samples collected during 1990 and in 1993 typically were arsenic, barium, cadmium, chromium, and lead, although not all of these analytes were detected in each sample. In addition to the metals present, PCE and trichloroethylene (TCE) were detected at concentrations above the MCLs in samples collected from MW-21 and MW-22 (located near the southwest corner of the main installation), and bis(2-ethylhexyl)phthalate was detected at a concentration above the MCL in a sample collected from MW-24 (located near the center of the south installation boundary). PAHs were also detected in a sample collected from MW-24, but at concentrations below the MCLs.

4.3.2 Environmental Concerns From Adjacent or Surrounding Property

Section 2.2 of this EBS report describes the environmental database search that was performed to identify potential sources of off-site contamination from adjacent or surrounding property that could impact the DDMT property. Appendix B contains the database search report. Table 2-10 presents a summary listing of those sites. The sites that have potential impact on the DDMT were identified based on the following criteria:

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- Their potential to release contaminants to the environment
- Their proximity to the DDMT
- Their direction from the DDMT relative to the direction of groundwater flow
- Documentation regarding releases or violations of environmental statutes

The sites judged to have potential environmental significance can be described by one or more of four general categories.

- CERCLIS potential NPL sites
- Leaking UST sites where cleanup is not complete (TDEC case is still open), located within one mile of the DDMT
- Groupings of relatively large numbers of USTs
- Adjacent industrial facilities

A discussion of each of these general categories follows.

4.3.2.1 CERCLIS Potential NPL Sites

The CERCLIS list is a compilation of sites that EPA has investigated or is currently investigating because of the release or threatened release of hazardous substances pursuant to CERCLA. The information obtained from the EBS records search was limited and provided only information regarding site location, name, and status of the CERCLA process for each site. Information was not available regarding the types of environmental issues or contaminants of concern. The records search identified eight CERCLIS sites located within a two-mile radius of the DDMT. None of the eight CERCLIS sites is listed on the NPL. The types of investigations that have been, or are being, conducted are identified as Discovery, Preliminary Assessment, Site Screening Inspection, or Site Inspection.

SECTION FOUR**INVESTIGATION RESULTS****4.3.2.2 Leaking Underground Storage Tank Sites**

The EBS records review included a search of a state of Tennessee database of known or suspected LUSTs. The database listed 14 LUST sites, of which 7 were documented as "case closed/cleanup complete." The remaining 7 sites were documented as "case open." Of those 7 sites, 5 are located within a one-mile radius of the DDMT. The database did not include any other information regarding these sites.

4.3.2.3 Adjacent Industrial Facilities

The EBS database search identified a potential source of contamination at 1700 Dunn Avenue, southwest of Dunn Field. This site was designated as the Auto Zone site in the records; however, there currently is no Auto Zone operating at this address. This site was a former Auto Zone distribution center and is listed as a RCRA small quantity generator, the site of a cleaned up LUST, two USTs, and a release of an unknown quantity of diesel fuel. Documentation was also found in state files related to an NOV, and field notes were found describing a diesel fuel-related incident (probably the same as the release documented in the ERNS database). None of these items is a clear indication of a significant source of contamination; however, they are addressed because of the close proximity of this site to the DDMT and the area of hydraulic conveyance and potential communication between the Fluvial Aquifer and the underlying Memphis Sand Aquifer.

The NOV resulted from an inspection that noted "whenever trucks pull into the gasoline fueling station, it was noted that the windshield [sic] of the trucks were being wash [sic] and the water from washing the windshield would migrate through the parking lot. This water is diluted with existing oil and grease on the parking lot and migrates into the adjacent ditch across from the DDMT discharge point" (Tennessee Department of Environment and Conservation 1992). The NOV required the situation to be rectified or the discharge point permitted under NPDES. No other documentation related to this issue was discovered.

Documentation relating to the removal of a UST consisted of a two-page Division of Solid Waste Management, Health and Safety Plan, General Information form with an attached one-page form of field notes. The "Description of Incident" on the attached form says the "Facility was putting in an underground tank. With rainfall, tank floated over and line was broken. Spillage is contained in

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the hole surrounding the tank. Will be pumping out the hole tomorrow, have sandbagged the area. Estimated spillage 300-500 gallons" (Tennessee Division of Solid Waste Management 1988). From this description, it is not clear if 300 to 500 gallons of fuel product were released to the environment. It is possible that 300 to 500 gallons of rainwater mixed with fuel was observed in the excavation and was removed by pumping. The quantity of residual soil contamination is unknown. The ongoing RI/FS will investigate the groundwater quality and the hydrologic flow regime in this area.

4.4 NON-CERCLA RELATED ENVIRONMENTAL, HAZARD, AND SAFETY ISSUES

The following summarizes the results of the records review pertaining to non-CERCLA contamination substances as well as any documented hazard or safety issues.

4.4.1 Asbestos-Containing Material

Several asbestos surveys (The Pickering Firm, Incorporated 1993a, 1993b, 1993c, 1994a, 1994b, 1994c, 1994d, 1994e, 1994f, 1994g, 1994h, 1994i, 1994j, 1994k) have been performed at the DDMT. The surveys included test results for suspected asbestos-containing materials (ACM) and recommendations for management based on the condition of the ACM.

The information reported in these surveys is summarized in Table 4-10 (following Section Four), and includes the MDRA parcel where the surveyed building is located; the building number (from either the Asbestos Identification Survey [AIS] report or the separate facility listing); the facility use (as described in the AIS report); the year of construction (obtained from a separate facility listing); the results of the survey, and the AIS report documenting the results.

In Table 4-10, buildings that had positive test results confirming the presence of ACM were given an "A," indicating ACM is present. Buildings for which test results or visual surveys indicated ACM was not present were given an "N." Buildings not included in the AIS, but that are on the facility list are included in Table 4-10. They were designated with an "NA" if they were thought to no longer exist. If the date of construction for any building not surveyed was prior to 1985, an "A(P)" designation was given, indicating that the potential for ACM exists.

SECTION FOUR**INVESTIGATION RESULTS****4.4.2 Lead-Based Paint**

LBP testing performed at the DDMT included X-ray fluorescence (XRF) testing, wipe testing, paint chip sampling, and soil testing. The focus of the assessment was to identify potential LBP hazards in housing environments at the DDMT.

XRF testing was conducted in six apartments at the four housing units (Buildings 176, 179, 181, and 184), a garage, a playground, and a community center (Building 195). The housing units were constructed in 1948, and the community center was constructed in 1949. The playground area was found to be lead-free by the XRF. XRF testing in the housing units identified both interior and exterior LBP surfaces. XRF testing at the community center and the garage identified exterior LBP surfaces. The assessment report stated that DOD has completed XRF testing in all the housing units constructed prior to 1978, and that LBP hazards were found in each unit that was tested. The risk assessor did not find any discrepancies in the XRF test reports (Barge, Waggoner, Sumner, and Cannon 1995).

Interior wipe testing was performed to check for lead dust in the four housing units. None of the wipe samples collected and analyzed for lead exceeded the U.S. Department of Housing and Urban Development (HUD) Interim Guidelines for LBP Abatement Limits for the respective sample location types (e.g., floors, window sills, and window wells). The assessment considered this an indication that prior building maintenance practices were successful in eliminating LBP hazards identified by XRF testing.

Paint chips were collected if a painted surface was in poor condition. Three of the six apartments surveyed in the housing units had sample results that exceeded HUD's LBP guideline limits for paint chips. The assessment report details the specific sample locations.

Composite surface soil samples were collected within three feet of the building foundations and within 10 to 20 feet from the foundation for Buildings 176, 179, 181, 184, and 195 and in the playground area. One sample exceeded the proposed EPA limit of 400 parts per million (ppm). This sample was collected within three feet of the foundation of Building 184.

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Based on this information, all buildings at the DDMT constructed prior to 1978 were given an "L" qualifier, signifying that LBP is known to be present. A complete list of qualified buildings is included as Table 5-1b in Section Five.

4.4.3 Polychlorinated Biphenyls

In June 1991, the DDMT provided EPA with a Compliance Status Report (Defense Logistics Agency 1991a) updating the Federal Facilities Environmental Compliance Profile for the DDMT. This document stated that all PCB-containing transformers have been removed from service and have been replaced with non-PCB containing transformers. Although this document states that all PCB-containing transformers have been removed from service, the on-site visual inspection conducted in support of this EBS identified several transformers without "Non-PCB" labels.

In addition, during the on-site EBS visual inspection, it was noted that several transformers were stored at open storage areas X5 through X8. None of the transformers was noted to be leaking nor were any stains noted. However, several of these transformers were not labeled as non-PCB.

After further investigation by DDMT personnel in October 1996, it was determined that all transformers at the DDMT are labeled as non-PCB. Therefore, there are no PCB qualified parcels at the DDMT.

4.4.4 Radon

A radon survey was recently conducted at the DDMT. Survey canisters were placed in buildings at the DDMT in November 1995 and remained in place for 90 days. The following buildings were tested:

| | |
|------------|-------------|
| Quarters 6 | Quarters 10 |
| Quarters 7 | Quarters 11 |
| Quarters 8 | Quarters 12 |
| Quarters 9 | Quarters 13 |

Test results indicate that all buildings tested have radon levels below 4 picoCuries per liter (pCi/L).

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Areas used as firing ranges are assumed to contain UXO and/or ammunition components (e.g., metal casings from small arms, projectiles from large ammunition). Two pistol ranges were identified at the DDMT. One pistol range operated from the 1940s to the early 1950s and is located near the current 9th hole of the golf course. The second pistol range is located in the Dunn Field area. These pistol ranges are qualified with an "X(P)" for possible UXO and/or ammunition components.

In addition, these pistol ranges are discussed in an archives search report prepared for the DDMT (U.S. Army Corps of Engineers, Huntsville Division 1995). The report addresses both ordnance and explosive waste (OEW) and CWM at the DDMT. This section of the EBS report summarizes and references the findings relating specifically to UXO.

An OEW risk assessment was performed based on the best available information resulting from records searches, reports of explosive ordnance disposal detachment actions, field observations, interviews, and measurements. This information was used to assess the risk associated with potential OEW hazards identified at the site. The risk assessment was composed of two factors: (1) hazard severity, ranging from "none" to "catastrophic"; and (2) hazard probability, ranging from "improbable" to "frequent" (U.S. Army Corps of Engineers, Huntsville Division 1995).

Hazard severity categories are defined to provide a qualitative measure of the worst credible mishap resulting from personnel exposure to various types and quantities of unexploded ordnance items. Hazard severity was determined based on the types of conventional ordnance and ammunition; pyrotechnics; bulk high explosives; bulk propellants; and chemical warfare materiel and radiological weapons at the site.

The archives search report gave the pistol range located near the current 9th hole of the golf course a probability level of "probable" and a severity category of "negligible." The archives search report gave the pistol range located in the Dunn Field area a probability level of "occasional" and a severity rating of "catastrophic." The "catastrophic" rating is based on the pistol range's proximity to locations of buried CWM (and other hazards) in the general area of Dunn Field. One of the

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assumptions made in the determination of the probability level was site dynamics, which deals with site conditions that are subject to change in the future. Digging is currently not expected in this area, but any proposed intrusive activities would change this.

A third site was qualified with an "X(P)" for possible UXO. The site is the Former Miscellaneous Burn site in Dunn Field. This site was operated in 1946 as an open burning area. As reported in the *Operable Unit 1 - Field Sampling Plan* (CH2M Hill 1995c), this site was used as an ordnance burn area.

4.4.6 Radionuclides

The DDMT applied for and received a Nuclear Regulatory Commission (NRC) License No. 41-14911-01, issued August 12, 1976, for one sealed source containing 7 milliCuries (mCi) of krypton-85. The license was not required because the NRC had previously granted a license to the Department of the Army for this source to be distributed throughout the Department of Defense. Krypton is an inert, non-metabolic gas that dissipates into the atmosphere if released from its sealed capsule. It would not present a residual surface contamination problem.

The DDMT is currently operating under NRC License No. 37-30062-01, issued January 27, 1995, to the Defense Distribution Region East (DDRE), New Cumberland, Pennsylvania, for the receipt, storage, and shipment of a multiplicity of radioisotopes. The DDMT is one of ten depots authorized to store and ship radioactive material for DDRE. The DDMT stored several radioisotopes, including tritium (H-3), which is used in military compasses and watches; thorium-232, which is naturally occurring in lantern mantles; americium-241, which is used in smoke detectors; and probably radium-226, which was used in watches, dials, and gauges during the World War II era. DDMT radiation protection personnel who worked at the depot from 1975 to the present stated that no maintenance work on radioactive commodities occurred and, to their knowledge, no breakage had occurred.

A recent radiological survey (August 5 through 9, 1996) of the four locations where radioactive material was stored indicated that Building 319, Bay 6, south interior wall, had a very low level of radioactivity present that slightly exceeded regulatory limits for the release of facilities for

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unrestricted use. It is unknown if this radioactivity is naturally occurring, such as thorium in lantern mantles, or the result of an incident. Since the thorium lantern mantles were stored in bulk quantities in this bay, and alpha radiation was detected on the wall, it can be reasonably assumed that a small amount of naturally occurring radioactive material, i.e., thorium-232, could be present on the wall surface.

4.4.7 Pesticides Usage

Current pesticide activities are conducted under the guidance of the Installation Pest Management Program (IPMP) (Defense Logistics Agency, DDMT 1995a). The IPMP is designed to use appropriate technological and management techniques to bring about an effective degree of pest prevention and suppression in a cost effective and environmentally sound manner. The IPMP involves a combination of both non-chemical and chemical prevention and control methods that minimize the environmental impact of pesticides while achieving an effective level of control (Defense Logistics Agency, DDMT 1995a). The basic program elements include:

- Sanitation, housekeeping, and good storage practices
- Structural integrity to promote physical pest exclusion
- Inspection and pest surveillance
- Non-chemical/mechanical insect and vertebrate pest control techniques
- Proper application of pesticide chemicals when required

Building S737 serves as the installation pest control shop. It contains separate areas for herbicide, pesticide, and equipment storage; a mixing room; and personnel facilities. In the past, Building T267 was used as the pesticide shop (Chemical Systems Laboratory 1981). However, this building was demolished in 1987. The 1990 *RI Report* indicates that Pad 267 was being used at that time for the storage of mission-related bulk pesticides and herbicides and that Building 273 was being used for pesticide storage (Law Environmental 1990c). This document also identified the golf course and associated pond, Lake Danielson, and all grassed areas as areas where the pesticide 2,4-D was used.

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Prior to late 1980, rinse water from pesticide spraying operations was disposed of on the ground. Pesticide applications included 2,4-D on grassy areas, Monuron on railroad track areas, Pyrethrin in textile warehouses, Hy-Var-X in gravel areas, and phos-toxin for stack and transit fumigation. The two inactive fumigation chambers in Building 549 were used for a brief period of time for protecting subsistence stocks. Building 629 has been used in the past for mission-related pesticide storage, as well as for the storage of outdated pesticides and DDT for the DRMO (formerly the DPDO). The DRMO has also used Building T-308 for DDT storage and Building 1184 for the storage of obsolete and banned pesticides. Flammable pesticides for mission use, including pesticides in alcohol solution, were stored in Building 319. Prior to or during 1982, all DDT had been removed from the DDMT and the materials stored in Building 1184, except several canisters of methyl bromide gas, had been removed (Chemical Systems Laboratory 1981). Spills of DDT inside Building T-308 are suspected to have occurred (Law Environmental 1990c).

Analytical results from previous studies conducted at the DDMT have detected the presence of pesticides in soils throughout the installation. It has been concluded by the DDMT that pesticide contamination may exist Depot wide and is a result of direct application, not release. This situation will be evaluated during the RI/FS being conducted at the facility (CH2M Hill 1995h).

Records detailing the use of pesticides for fumigation of the warehouses were not available. However, the available records indicate that all of the warehouses were probably fumigated with pesticides at various times in the past. The degree to which these activities pose a risk to humans has not been evaluated.

4.5 REMEDIATION EFFORTS**4.5.1 Past Remediation Efforts**

Past remediation efforts at the DDMT include the cleaning of the following spills of petroleum products and hazardous materials:

Table 4-11
PAST REMEDIATION EFFORTS

| MDRA PARCEL | LOCATION | SPILL SUMMARY |
|-------------|--------------------------------|---|
| 15 | South of Building 309 | A 30-gallon solvent spill was reported on December 2, 1991. Documentation indicates that contaminated materials were excavated and disposed of. |
| 24 | West side of Building 770 | A 50-gallon spill of PCB-contaminated fluid (between 50 and 500 ppm PCBs) was reported on July 9, 1990. The leaking transformer was plugged and taken to a diked area. Soil in the impacted area was excavated to a depth of approximately one foot (approximately 14.5 cubic yards) and containerized. Soil samples were taken to confirm cleanup of the spill area. |
| 25 | Building 873 | Eleven spills were recorded from March 10, 1990 through November 29, 1993. Spills ranged from leaking bottles of corrosives to a 60-gallon spill of TCE. Documentation indicates that contaminated soils were excavated and disposed of. |
| 30 | Between Buildings 925 and P949 | A 325-gallon spill of X-25 flammable solvent was reported on January 19, 1988 in the concrete-bermed POL storage area. Documentation indicates that contaminated soils were excavated and disposed of. |
| 33 | Outside Building 737 | A 50-gallon mineral oil spill was reported on November 9, 1995. Documentation indicates that contaminated soils were excavated and disposed of. |

In addition, remediation was conducted at the former PCP Dip Vat Area (MDRA Parcel 33). The Dip Vat Unit consisted of a large, open-topped tank that contained a PCP solution used to treat wood pallets. The pallets were dipped into the tank, then placed into a drip tank that was part of the unit. Material from the drip tank drained back into the unit. Soil samples collected in 1985 from beneath the unit contained high levels of dioxins and furans. The Dip Vat and metal building were removed in 1986, and the Dip Vat was decontaminated. The soils around the unit were excavated, treated as special waste, and shipped in accordance with applicable federal, state, and local regulations. The excavation was backfilled with clean soil and capped with gravel or concrete.

4.5.2 Ongoing Remediation Efforts

Building S873 (MDRA Parcel 24) is an open-sided, metal-roofed shed that formerly served as the DDMT recoupment area, where damaged and leaking containers were repacked. This practice occurred between 1942 and 1986 when this activity moved to Building 865, which was constructed

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especially for this purpose. The repackaging activities were conducted in the southeast corner of the building and the gravel parking area located to the east.

In 1985, surface soil samples were collected from an area east of Building S873. Soil sample results indicated metal and pesticide contamination. The information provided by this sampling effort prompted the excavation of the top ½ to 1 foot of soil in this area. Additionally, gravel was removed from the southeast portion of Building S873 (CH2M Hill 1995d); however, no documentation was found indicating if environmental samples were collected and analyzed.

During the RI activities performed in 1990 (Law Environmental 1990c), surface soil samples were collected at the former hazardous materials recoupment area located outside the southeast corner of Building S873. Samples were collected at a depth of one foot below ground surface. Detected compounds for these surface soil samples include toluene, PAHs, and metals. Additional soil samples are proposed to assess the vertical and horizontal extent of soil contamination from past activities at this location.

4.5.3 Planned Remediation Efforts

4.5.3.1 Groundwater Interim Remedial Action, Dunn Field

During the 1990 RI, monitoring wells were installed in the Fluvial Aquifer and the Memphis Sand Aquifer. Contaminants of concern in groundwater collected from the Dunn Field monitoring wells screened in the Fluvial Aquifer include the following:

- Volatile Organic Compounds
 - Carbon tetrachloride
 - 1,2-Dichloroethylene
 - 1,1,2,2-Tetrachloroethane
 - 1,1-Dichloroethylene
 - Tetrachloroethylene
 - Trichloroethylene

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- Metals
 - Arsenic
 - Barium
 - Chromium
 - Lead
 - Nickel

The contaminants of concern found in the Fluvial Aquifer beneath Dunn Field were detected at concentrations above the established MCLs and maximum contaminant level goals (MCLGs) over the course of three sampling efforts conducted in 1989, 1990, and 1992. Contaminants of concern in the Fluvial Aquifer have not been detected in the Memphis Sand Aquifer groundwater samples.

In 1990, as part of the RI/FS, a preliminary risk assessment was performed. Potential exposure points for contaminated groundwater sources from the Dunn Field area were identified as the following:

- Ingestion of groundwater through the public water supply
- Contact with potable water during bathing
- Inhalation of vapors from VOCs in potable water during household use

The Fluvial Aquifer, which is not used as a potable water supply, is the only aquifer where contaminants have been detected. However, locally the Fluvial Aquifer may be in hydrologic communication with the Memphis Sand Aquifer. This potential communication could provide a pathway for contaminants to migrate downward to the Memphis Sand Aquifer, which is the drinking water aquifer for the city of Memphis.

In 1993, an engineering design report was prepared for the DDMT. The intent of the report was to meet all requirements of the engineering evaluation/cost analysis (EE/CA) under CERCLA and the NCP for a non-time critical removal. The report evaluated a variety of technologies previously presented in the 1990 RI/FS (Law Environmental 1990a, 1990c) that would treat contaminated groundwater in the Fluvial Aquifer to prevent human exposure.

FINAL

SECTION FOUR**INVESTIGATION RESULTS**

In 1995, a draft *Record of Decision for the Interim Remedial Action of the Groundwater at Dunn Field (OU-1)* was prepared for the DDMT (CH2M Hill 1995g).

Because the contaminated groundwater beneath Dunn Field poses a potential threat to the drinking water aquifer, it is considered a possible threat to human health and the environment. Thus, the objective of the groundwater IRA is to provide a quick response measure that will help prevent the possible contamination of the area's drinking water supply.

The major components of the selected IRA for OU-1 include the following:

- Evaluation of aquifer characteristics that may include installation of a pump test well
- Installation of additional monitoring wells to locate the western edge of the groundwater plume
- Installation of recovery wells along the leading edge of the plume
- Obtaining a discharge permit for disposal of recovered groundwater to the T.E. Maxon Wastewater Treatment Plant publicly-owned treatment works or municipal sewer system
- Operation of the system of recovery wells until the risk associated with the contaminants is reduced to acceptable levels or until the final remedy is in place
- Chemical analysis to monitor the quality of the discharge in accordance with the city discharge permit requirements; the permit will include parameters to be monitored and frequency.

FINAL

SECTION FOUR**INVESTIGATION RESULTS**

Follow-on activities include characterizing and monitoring the groundwater plume migration. Once the plume has been characterized, subsequent action may be taken to provide long-term definitive protection, including remediation of source areas.

4.5.3.2 Proposed Early Removal Sites

The early removal process is proposed for several selected sites at the DDMT as an alternative to the traditional RI/FS/remedial design/remedial action process. The primary objectives of the early removal process are to begin cleanup of selected sites and to reduce program costs. Removal activity may involve the excavation of buried waste material and contaminated soils.

4.6 RESERVE ENCLAVES

Currently, there are no reserve enclaves identified at the DDMT.

Table 4-8
(Continued)

| BUILDING | DATE | SPILED MATERIAL | QUANTITY (gallons) | INSIDE/ OUTSIDE | LOCATION/COMMENTS | ACTION TAKEN |
|----------|----------|---|--------------------|--------------------|---|--|
| 560 | 12/10/93 | Sulfuric acid | Unknown | Inside | Section 3 - battery fell off charger | EBS records review did not provide this information. |
| 560 | 10/17/95 | Aqueous film forming foam | 5 | Inside | Section 3 - west side wall | Absorbent applied. Product to recoup for disposal. |
| 560 | 11/14/95 | Aqueous film forming foam | 15 | Inside | Section 3 - cargo door 10 | Absorbed by soak-up pads and disposed of by spill team. |
| 629 | 4/23/90 | Nitric acid | 6 | Inside | Section 1 | Neutralized spill and applied absorbent pads. Disposed of materials in accordance with applicable regulations. |
| 649 | 5/16/90 | Paint, tube oil, insecticide, other oil | Unknown | Outside | Leaking containers near the east end dumpster | Absorbent applied. Product to recoup for disposal. |
| 649 | 8/11/95 | Hydraulic fluid | 1 | Inside | Section 5 - southwest and northwest corner | Absorbent applied. Product to recoup for disposal. |
| 650 | 3/18/93 | Battery acid, hydraulic fluid | Unknown | Outside | South corner in street | EBS records review did not provide this information. |
| 670 | 5/4/90 | Battery electrolyte | 10 | Outside | 6th Street and Building 670 | Absorbent applied. Product to recoup for disposal. |
| 670 | 8/30/95 | Hydraulic fluid | 1 | Inside | Section 1 - north side aisle | Absorbed by soak-up pads and disposed of by spill team. |
| 685 | 4/16/92 | Sulfuric acid and water | 3 | Inside | Battery charging station | Neutralized spill and applied absorbent pads. Disposed of materials in accordance with applicable regulations. |
| 689 | 5/8/90 | Nitric acid | 1 pint | Inside | Section 5 - "Hot House" | EBS records review did not provide this information. |
| 689 | 1/6/91 | Corrosion removing compound | 2 | Outside | Section 5 - door 8 | Absorbent applied. Product to recoup for disposal. |
| 689 | 2/13/92 | Hydraulic fluid | 2 | Inside | Section 4 - north dock | Absorbed by soak-up pads and disposed of by spill team. |
| 689 | 1/11/93 | Odor only | NA | Inside | Section 5 - inside trailer at door 5 | EBS records review did not provide this information. |
| 689 | 1/12/93 | Odor only from week-old spill | NA | Inside | Section 5 - inside trailer at door 1 | EBS records review did not provide this information. |
| 689 | 1/17/95 | Oil | 2.5 | Outside | Section 3 - backdoor | Absorbent applied. Product to recoup for disposal. |
| 689 | 8/15/95 | Hydraulic fluid | 2 | Outside | Section 5 - cargo door 8 | Absorbent applied. Product to recoup for disposal. |

Table 4-8
(Continued)

| BUILDING | DATE | SPILLED MATERIAL | QUANTITY (gallons) | INSIDE/ OUTSIDE | LOCATION/COMMENTS | ACTION TAKEN |
|----------|----------|--------------------------------------|--------------------|--------------------|---|--|
| 689 | 10/12/93 | Sulfuric acid | 1 | Inside | Section 5 - southwest side at personnel door 34 | Neutralized spill and applied absorbent pads. Disposed of materials in accordance with applicable regulations. |
| 689 | 11/16/95 | Hydraulic fluid | 2 | Outside | Section 5 - west dock roll on roll off door 8 | Absorbed by soak-up pads and disposed of by spill team. |
| 689 | 11/13/95 | Hydraulic fluid NSN 9150-00-111-6256 | 1.25 | Inside | Section 3 - southwest corner | Absorbed by soak-up pads and disposed of by spill team. |
| 689 | 11/16/95 | Hydraulic fluid | 0.3 | Inside | Northeast corner | Absorbed by soak-up pads and disposed of by spill team. |
| 737 | 11/19/95 | Mineral oil <1 ppm PCB | 50 | Outside | West side | Use front-end loader to drum contaminated gravel and dirt. Drained transformer into 55-gallon drums. Repalletized transformer. |
| 770 | 7/9/90 | PCBs (>50 ppm, <500 ppm) | 50 | Outside | West side, 14.5 cubic yards of contaminated soil excavated. Confirmatory samples taken. | Absorbent applied. Contaminated material excavated and placed into 55-gallon drums. Drums taken to recoup for disposal. |
| 770 | 11/8/91 | Petroleum | Unknown | Outside | 55-gallon drum ruptured on the west side | Absorbent applied. Contaminated material excavated and placed into 55-gallon drums. Drums taken to recoup for disposal. |
| 770 | 8/23/93 | Lube and engine oil | Unknown | Outside | Northeast corner - load fell off truck in road | EBS records review did not provide this information. |
| 835 | 3/9/91 | Battery acid | 9 | Inside | Section 3 | Absorbent applied. Product to recoup for disposal. |
| 835 | 6/25/91 | Hydrochloric acid | 5 | Inside | Section 4 - R84 dock area | Neutralized spill and applied absorbent pads. Disposed of materials in accordance with applicable regulations. |
| 835 | 7/1/91 | Ammonium hydroxide | 6 | Inside | Section 2 | Neutralized spill with glacial acetic acid. Absorbed with sorbent pillows and disposed of pillows in accordance with applicable regulations. |
| 835 | 10/2/91 | Sulfuric acid | 1.5 | Inside | Section 3 - corrosive section | Neutralized spill and applied absorbent pads. Disposed of materials in accordance with applicable regulations. |

Table 4-8
(Continued)

| BUILDING | DATE | SPILLED MATERIAL | QUANTITY (gallons) | INSIDE/ OUTSIDE | LOCATION/COMMENTS | ACTION TAKEN |
|----------|----------|---------------------|---------------------|--------------------|---|---|
| 835 | 11/19/91 | Battery fluid acid | 6 | Inside | Section 3 | Neutralized spill and applied absorbent pads. Disposed of materials in accordance with applicable regulations. |
| 835 | 11/19/91 | Sulfuric acid | 5 | Inside | Section 4 | Neutralized spill and applied absorbent pads. Disposed of materials in accordance with applicable regulations. |
| 835 | 3/17/92 | Muriatic acid | 1.5 | Inside | Section 3 | Neutralized spill and applied absorbent pads. Disposed of materials in accordance with applicable regulations. |
| 835 | 2/22/93 | Resin | Glass bottle broken | Inside | Section 3 - packing area | EBS records review did not provide this information. |
| 835 | 5/3/93 | Battery acid | Unknown | Unknown | West dock - inside truck trailer | EBS records review did not provide this information. |
| 835 | 5/5/93 | Microbiocide | Unknown | Inside | Section 6 - poison section | EBS records review did not provide this information. |
| 835 | 6/28/93 | Oxidizer | Unknown | Inside | Section 2 - oxidizer section | EBS records review did not provide this information. |
| 835 | 7/27/93 | Herbicide | Unknown | Inside | Section 6 - poison herbicide socks busted | EBS records review did not provide this information. |
| 835 | 8/20/93 | Sulfuric acid | Unknown | Inside | Section 1 - corrosive section | EBS records review did not provide this information. |
| 835 | 8/23/93 | Lube and engine oil | Unknown | Outside | Southwest of Building 835 in street - fell off of same truck as 770 spill | EBS records review did not provide this information. |
| 835 | 10/1/93 | Hydrofluoric acid | Unknown | Inside | Section 3 - corrosive section | EBS records review did not provide this information. |
| 835 | 10/19/93 | Muriatic acid | Unknown | Inside | Section 3 - corrosive section | EBS records review did not provide this information. |
| 835 | 12/1/93 | Oil puddle on floor | Unknown | Inside | Section 1 - false alarm sprinkler head busted | EBS records review did not provide this information. |
| 835 | 5/26/95 | Transmission fluid | 10 | Outside | Section 4 - west side | Absorbent applied. Product to recoup for disposal. |
| 860 | 3/17/92 | Lube oil | Unknown | Inside | North side | Absorbent applied. Product to recoup for disposal. |
| 873 | 3/10/90 | Tetrachloroethylene | 60 | Inside/Outside | Section 2 and outside - went onto gravel | Absorbent applied. Contaminated material excavated and placed into 55-gallon drums. Drums taken to recoup for disposal. |

Table 4-8
(Continued)

| BUILDING | DATE | SPILLED MATERIAL | QUANTITY (gallons) | INSIDE/ OUTSIDE | LOCATION/COMMENTS | ACTION TAKEN |
|----------|-------------------|---------------------------|---------------------------|--------------------|---|---|
| 873 | 4/16/90 | Sulfuric acid | 30 | Inside | Section 1 - recoupment | Swollen drums pumped and neutralized. |
| 873 | 12/7/90 | Cleaning compound solvent | 55 | Inside | Section 1 - east side | Absorbent applied. Product to recoup for disposal. |
| 873 | 3/9/91 | Lube oil | 25 | Inside | Section 2 | Absorbent applied. Product to recoup for disposal. |
| 873 | 8/16/91 | Hydraulic fluid | 2 | Outside | Section 1 | Absorbent applied. Product to recoup for disposal. |
| 873 | 11/18/91 | Engine gas path cleaner | Leaking 5-gallon drums | Inside | Section 6 | EBS records review did not provide this information. |
| 873 | 11/26/91 | Fog oil | 55 | Outside | Section 7 - west side | Absorbent applied. Contaminated material excavated and placed into 55-gallon drums. Drums taken to recoup for disposal. |
| 873 | 11/26/91 | Cleaning compound solvent | 18 | Outside | Section 3 | Absorbent applied. Contaminated material excavated and placed into 55-gallon drums. Drums taken to recoup for disposal. |
| 873 | 2/13/92 | Descaling compound | 10 | Inside | Section 6 - loading dock | Absorbed by soak-up pads and disposed of by spill team. |
| 873 | 3/2/92 | Lube oil | 55 | Outside | Section 7 - southwest corner, open shed | Absorbent applied. Contaminated material excavated and placed into 55-gallon drums. Drums taken to recoup for disposal. |
| 873 | 7/21/93 | Cleaning compound | Unknown | Inside | Section 5 - corrosive drums corroded | EBS records review did not provide this information. |
| 873 | 11/29/93 | Acid | Unknown | Inside | Section 6 - leaking bottles | EBS records review did not provide this information. |
| 873 | 18/91/91 [sic] | Cleaning compound solvent | Leaky containers repacked | Inside | Section 1 - dated incorrectly on spill form | Absorbent applied. Product to recoup for disposal. |
| 875 | 3/6/93 | Malathion | Leaking 55-gallon drum | Outside | In south gravel area - inside roadway trailer | EBS records review did not provide this information. |
| 875 | 12/6/95 | Oil/lubricate | 25-50 | Outside | East side on 15th Street | Absorbent applied. Product to recoup for disposal. |
| 972 | 10/5/93 | Hydraulic fluid | Unknown | Outside | On the road to Building 770 | EBS records review did not provide this information. |
| 972 | 3/14/95 | Diesel | Unknown | Unknown | West side | Absorbent applied. Product to recoup for disposal. |

Table 4-8
(Continued)

Table 4-10
ASBESTOS IDENTIFICATION SURVEY RESULTS
DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE

| MDRA PARCEL | BUILDING | FACILITY USE | YEAR CONSTRUCTED | RESULTS |
|----------------|----------|--------------------------------------|---------------------|----------------|
| 1 | 1 | Guard Station | 1959 | A ^a |
| 1 | 2 | Storage Space | 1958 | A ^a |
| 23 | 7 | Unoccupied | Unknown | N |
| 23 | 8 | Guard Station | 1969 | A ^a |
| 29 | 9 | Communication/Restroom | 1946 | A ^a |
| 15 | 15 | Guard Station | 1979 | A ^a |
| 14 | 22 | Unoccupied | 1942 | A ^c |
| 13 | 23 | Unoccupied | 1942 | A ^a |
| 13 | 24 | Unoccupied | 1961 | N |
| 13 | 25 | Unoccupied | 1961 | N |
| 1 | 139 | Bus Stop/Waiting Shelter | 1959 | A ^a |
| 1 | 144 | Office Space | 1942 | A ^c |
| 1 | S145 | Main Security Office | 1943 | A ^b |
| 1 | 147 | Switch Gear Station | 1981 | N |
| 1 | 155 | Bus Stop/Waiting Shelter | 1960 | A ^a |
| 2 | 176 | Family Housing | 1948 | A ^b |
| 2 | S178 | Garage | 1948 | A ^a |
| 2 | 179 | Family Housing | 1948 | A ^b |
| 2 | 181 | Family Housing | 1948 | A ^b |
| 2 | S183 | Garage | 1948 | A ^a |
| 2 | 184 | Family Housing | 1948 | A ^b |
| 3 | 193 | Pool Pump House | 1948 | N |
| 3 | S195 | Golf Clubhouse | 1949 | A ^a |
| 3 | 196 | Office Space | 1952 | A ^a |
| 3 | 197 | Golf Cart Shed | Unknown | N |
| 3 | S198 | Cooler Shed | 1959 | A ^a |
| 14 | S209 | Warehouse/Office Space | 1942 | A ^b |
| 13 | 210 | Warehouse/Office Space | 1942 | A ^c |
| 13 | 211 | Generator/Uninterrupted Power Supply | 1988 | N |
| 8 | 229 | Warehouse Space | 1942 | A ^b |
| 8 | 230 | Warehouse Space | 1942 | A ^c |
| 7 | 249 | Warehouse Space | 1942 | A ^c |
| 6 | 250 | Warehouse Space | 1942 | A ^c |
| 4 | 251 | Thrift Shop/Storage | 1942 | A ^c |
| 4 | 252 | Base Fitness Center | 1942 | A ^a |
| 4 | 253 | Motor Pool Shop | 1952 | A ^b |
| 4 | T254 | Storage Shed | 1944 | A ^b |
| 4 | 257 | Gas Pump House | 1942 | A ^a |
| 4 | 260 | Paint Shop | 1952 | A ^b |
| 4 | 263 | Garage | 1964 | N |
| 4 | 265 | Shop Building | 1942 | A ^b |

Table 4-10
(Continued)

| MDRA PARCEL | BUILDING | FACILITY USE | YEAR CONSTRUCTED | RESULTS |
|----------------|----------|------------------------------------|---------------------|----------------|
| 4 | T267 | DEMOLISHED | NA | NA |
| 4 | 270 | Engineering | 1945 | A ^a |
| 4 | S271 | Family Housing Office | 1958 | A ^a |
| 5 | T272 | Lumber Shed | 1942 | N |
| 5 | 274 | Warehouse Space | 1989 | A ^a |
| 5 | T275 | DEMOLISHED | NA | NA |
| 15 | 304 | Electric Switchgear | Unknown | N |
| 15 | S308 | Warehouse/Storage | 1944 | A ^a |
| 15 | S309 | Warehouse/Storage | 1944 | A ^b |
| 15 | 319 | Inflammable Materials Storehouse | 1942 | A ^a |
| 8 | 329 | Warehouse Space | 1942 | A ^b |
| 8 | 330 | Warehouse Space | 1942 | A ^b |
| 6 | 349 | Warehouse Space | 1942 | A ^b |
| 6 | 350 | Warehouse Space | 1942 | A ^b |
| 17 | 359 | Medical Warehouse | 1942 | A ^b |
| 3 | 398 | Restroom | 1962 | A ^a |
| 15 | T416 | Storage | 1943 | A ^a |
| 15 | T417 | Storage | 1943 | A ^a |
| 9 | 429 | Warehouse Space | 1942 | A ^b |
| 9 | 430 | Warehouse Space | 1942 | A ^b |
| 9 | 449 | Warehouse Space | 1942 | A ^b |
| 9 | 450 | Warehouse Space | 1942 | A ^b |
| 19 | S465 | Forklift Wash Rack (Shop Building) | 1984 | N |
| 19 | S468 | Warehouse/Storage | 1960 | N |
| 19 | S469 | Maintenance Shop | 1960 | N |
| 20 | 470 | Warehouse Space | 1954 | A ^a |
| 20 | 489 | Warehouse Space | 1954 | A ^a |
| 20 | 490 | Warehouse Space | 1954 | A ^b |
| 11 | 529 | Warehouse Space | 1942 | A ^b |
| 11 | 530 | Warehouse Space | 1942 | A ^b |
| 10 | 549 | Warehouse Space | 1942 | A ^b |
| 10 | 550 | Warehouse Space | 1942 | A ^b |
| 16 | S559 | Warehouse Space | 1942 | A ^a |
| 18 | 560 | Warehouse Space | 1990 | N |
| 12 | 629 | Warehouse Space | 1942 | A ^b |
| 11 | 630 | Warehouse Space | 1942 | A ^b |
| 10 | 649 | Warehouse Space | 1953 | A ^b |
| 10 | 650 | Warehouse Space | 1942 | A ^b |
| 20 | 670 | Warehouse Space | 1953 | A ^a |
| 21 | 685 | Shipping Office | 1985 | A ^a |
| 21 | 689 | Warehouse Space | 1953 | A ^a |

Table 4-10
(Continued)

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| MDRA PARCEL | BUILDING | FACILITY USE | YEAR CONSTRUCTED | RESULTS |
|--|----------|---------------------------------|---------------------|----------------|
| 21 | 690 | Warehouse Space | 1953 | A ^a |
| 15 | S702 | Warehouse (Unoccupied) | 1941 | A ^b |
| 33 | 717 | Ice House/Public Restroom | 1951 | A ^a |
| 33 | 720 | Shop Space | 1942 | A ^a |
| 33 | S737 | Pesticide Storage | 1961 | A ^a |
| 33 | 753 | Fire Pump House | 1956 | A ^a |
| 33 | 755 | San. Sewer Pump Station | 1953 | A ^a |
| 33 | 756 | Fire Pump House | Unknown | A ^a |
| 24 | 770 | Base Maintenance Shop | 1952 | A ^a |
| 24 | T771 | Restroom/Storage Space | 1945 | A ^a |
| 23 | 783 | Underground Bunker (Shop Space) | 1942 | A ^a |
| 23 | 787 | Warehouse (Banding Facility) | 1988 | N |
| 23 | 793 | Underground Bunker (Shop Space) | 1942 | N |
| 23 | 795 | Gate B Guard Shelter | 1974 | N |
| 29 | 801 | FE Storage Shop | 1956 | A ^a |
| 29 | 802 | Waiting Shelter | 1981 | N |
| 32 | 835 | Hazardous Materials Warehouse | 1988 | N |
| 33 | T860 | Office | 1944 | A ^a |
| 33 | S863 | Office | 1943 | A ^a |
| 32 | 865 | Hazardous Recoup Facility | 1988 | N |
| 25 | S873 | Open Storage | 1942 | A ^a |
| 25 | S875 | Open Storage | 1942 | A ^a |
| 26 | S970 | Open Storage | 1942 | A ^a |
| 27 | S972 | Open Storage | 1942 | A ^a |
| 35 | T1084 | Office | 1953 | A ^a |
| 35 | S1085 | Abandoned Concrete Grease Rack | Unknown | N |
| 35 | 1086 | Paint Shed | 1959 | N |
| 35 | 1087 | Paint Booth | 1952 | A ^a |
| 35 | 1088 | Sand Blasting Shed | 1953 | N |
| 35 | S1090 | Paint Storage Warehouse | 1952 | A ^a |
| 35 | S1091 | Paint Storage Warehouse | 1953 | A ^a |
| 36 | 1184 | Storage Building | 1956 | N |
| 36 | 1185 | Firing Range | Unknown | N |
| Buildings Not Included on the Asbestos Identification Survey | | | | |
| 1 | 129 | Waiting Shelter | 1980 | A(P) |
| 4 | T256 | Other | 1943 | A(P) |
| 4 | T261 | Vehicle Storage | 1942 | A(P) |
| 5 | T273 | Shed | 1942 | A(P) |
| 34 | 360 | Warehouse | 1942 | A(P) |
| 17 | P459 | Training Facility | 1990 | NA |
| 19 | T467 | Open Warehouse Facility | 1987 | NA |
| 25 | T874 | Sewage Pump Station | 1949 | A(P) |

Table 4-10
(Continued)

| MDRA PARCEL | BUILDING | FACILITY USE | YEAR CONSTRUCTED | RESULTS |
|----------------|----------|---------------------------|---------------------|---------|
| 30 | P949 | Open Warehouse Facility | 1987 | NA |
| 23 | S995 | Metal Handling | 1985 | NA |
| 28 | S1089 | General Purpose Warehouse | 1960 | A(P) |

Abbreviations:

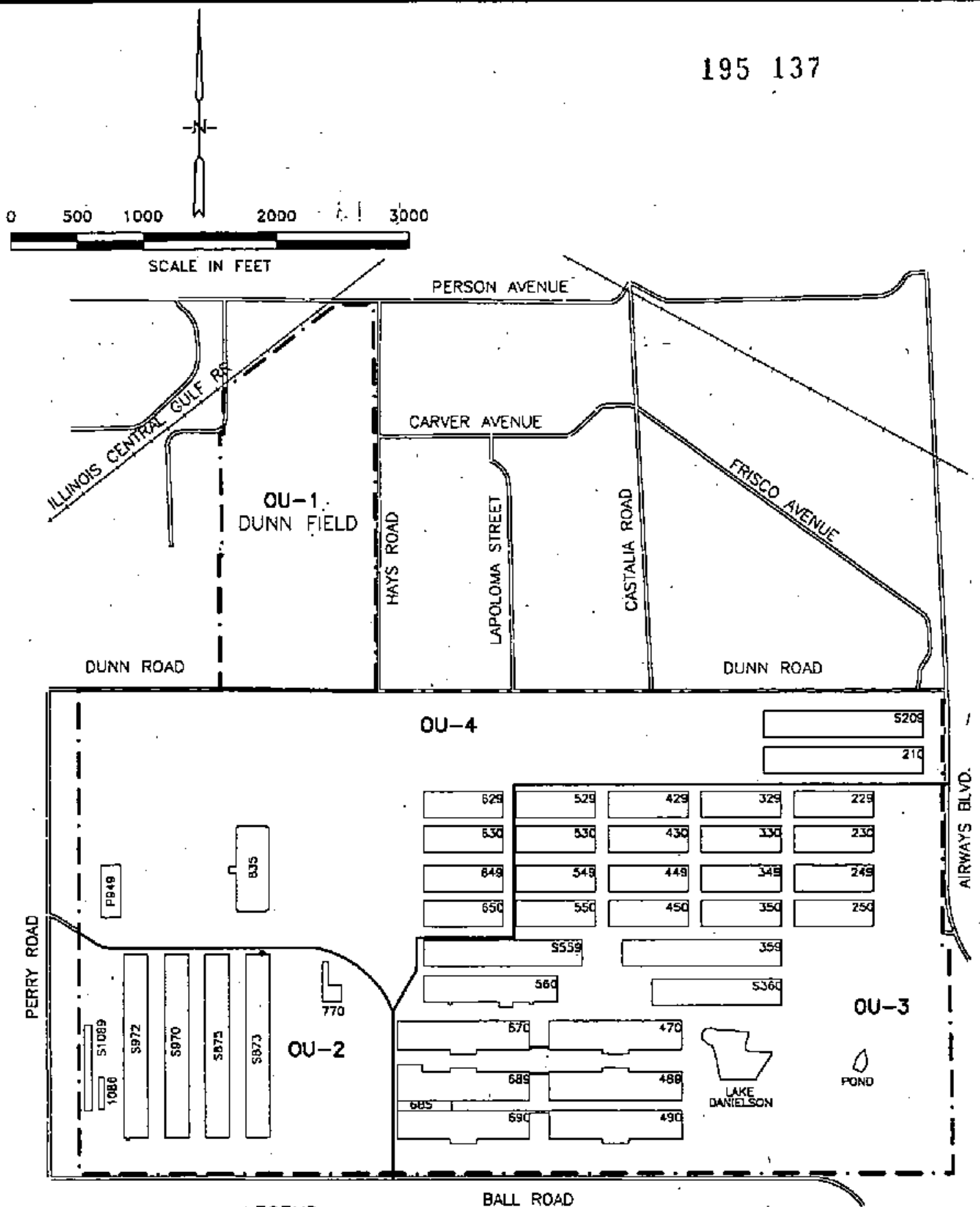
- A - ACM test results positive
- A(P) - ACM possible based on the year of construction
- ACM - Asbestos-containing materials
- G - Gatehouse
- N - Negative. Building surveyed for ACM. If suspect materials were found, ACM test results were negative or less than 1%; no further action required.
- NA - Not Applicable

Notes:

^aACM products in this building were non-friable and/or in fair to good condition at the time of ACM survey visual inspection. These ACM products can be managed through a comprehensive operations and maintenance program. Urgent removal of these materials would be required if renovation or demolition threatens to disturb them.

^b In addition to ACM products as described in note ^a, the AIS visual survey found ACM products in poor and/or friable condition based on physical damage and/or natural deterioration. The AIS recommended abatement or removal of the ACM products in poor and/or friable condition to be performed in a timely manner.

^c In addition to ACM products as described in note ^b, the AIS visual survey found ACM products in poor and/or friable condition based on physical damage and/or natural deterioration. The AIS considered these a potential health hazard to personnel and recommended access be restricted in areas with ACM in poor condition until a proper abatement or removal plan can be implemented.



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LEGEND

- INSTALLATION PROPERTY BOUNDARY
- ASPHALT ROAD
- GRAVEL ROADS
- RIVERS, LAKES, PONDS, DITCHES, ETC.
- RAILROAD TRACKS
- EXISTING MONITORING WELL
- EXISTING SOIL BORING LOCATION
- EXISTING SEDIMENT SOIL BORING LOCATION
- EXISTING SURFACE SAMPLE LOCATION
- EXISTING SURFACE WATER SAMPLE LOCATION
- SCREENING SITE
- PROPOSED NO FURTHER ACTION SITE
- REMEDIATION INVESTIGATION SITE
- CHEMICAL WARFARE MANAGEMENT PLAN SITE
- PROPOSED EARLY REMOVAL SITE

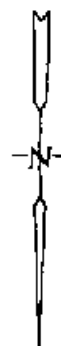
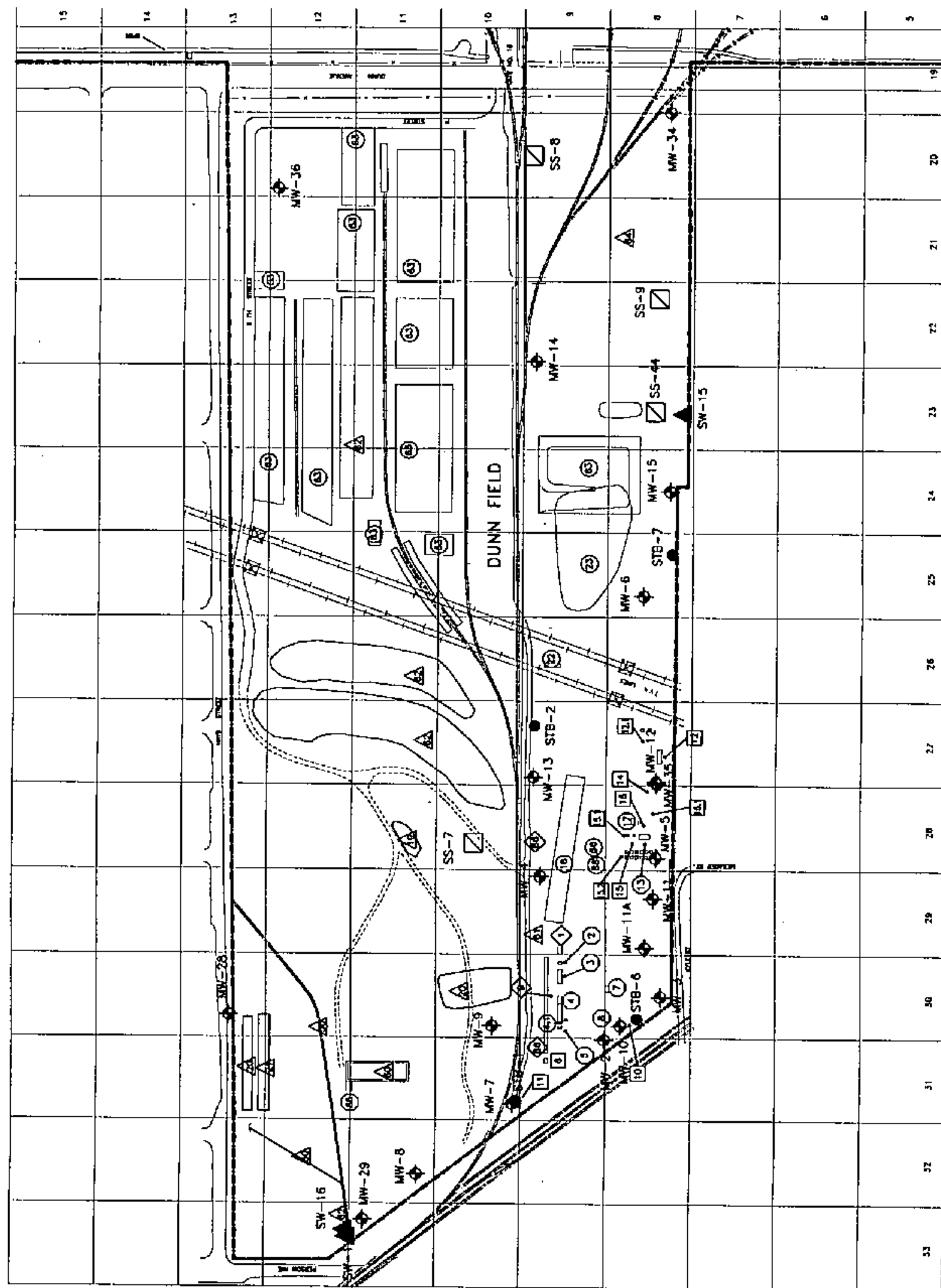
| REVISION | DATE | DESCRIPTION | BY |
|----------|----------|-------------|-----|
| 1 | 5/15/96 | DRAFT | NUE |
| 2 | 9/18/96 | DRAFT FINAL | NUE |
| 3 | 10/30/96 | FINAL | NUE |

Woodward-Clyde

DEFENSE DISTRIBUTION DEPOT
MEMPHIS, TENNESSEE

OU-1 (DUNN FIELD)
SITE LOCATIONS

FIGURE 4-2



0 150 300 600 900

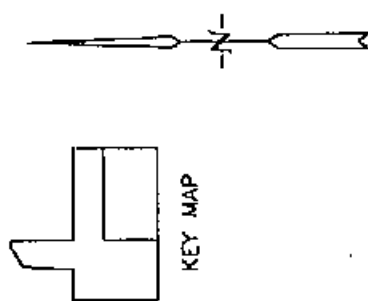
SCALE IN FEET

FINAL

195 140

LEGEND

- MW-99 • EXISTING MONITORING WELL
- ▲ SCREENING SITE
- PROPOSED NO FURTHER ACTION SITE
- REMEDIAL INVESTIGATION SITE
- ▤ FEASIBILITY STUDY SITE



0 100 200 400 600
SCALE IN FEET

FINAL

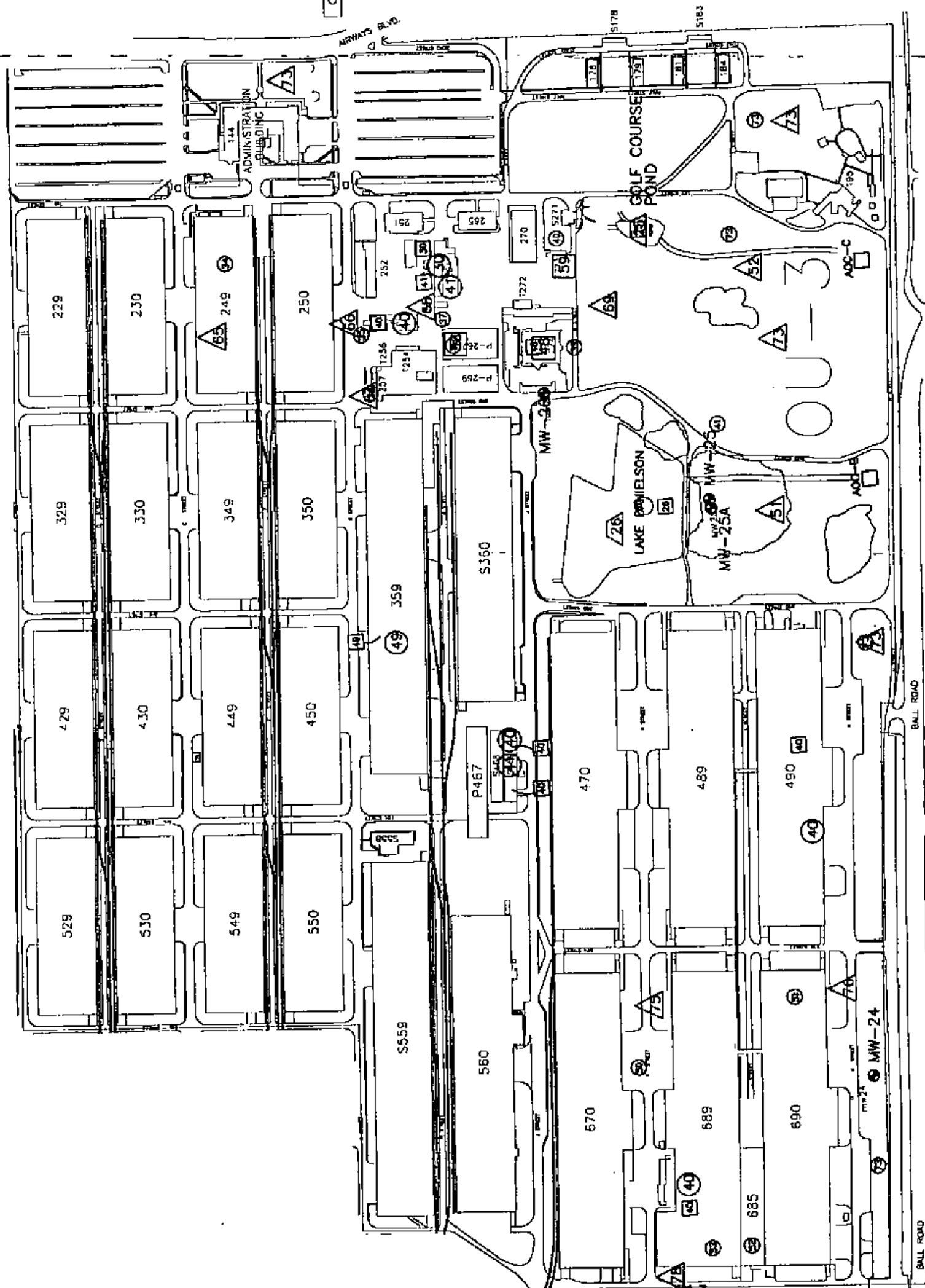
| REVISION | DATE | DESCRIPTION | BY |
|----------|----------|-------------|-----|
| 1 | 5/16/96 | DRAFT | KLF |
| 2 | 9/18/96 | DRAFT FINAL | NJE |
| 3 | 10/30/96 | FINAL | NJE |

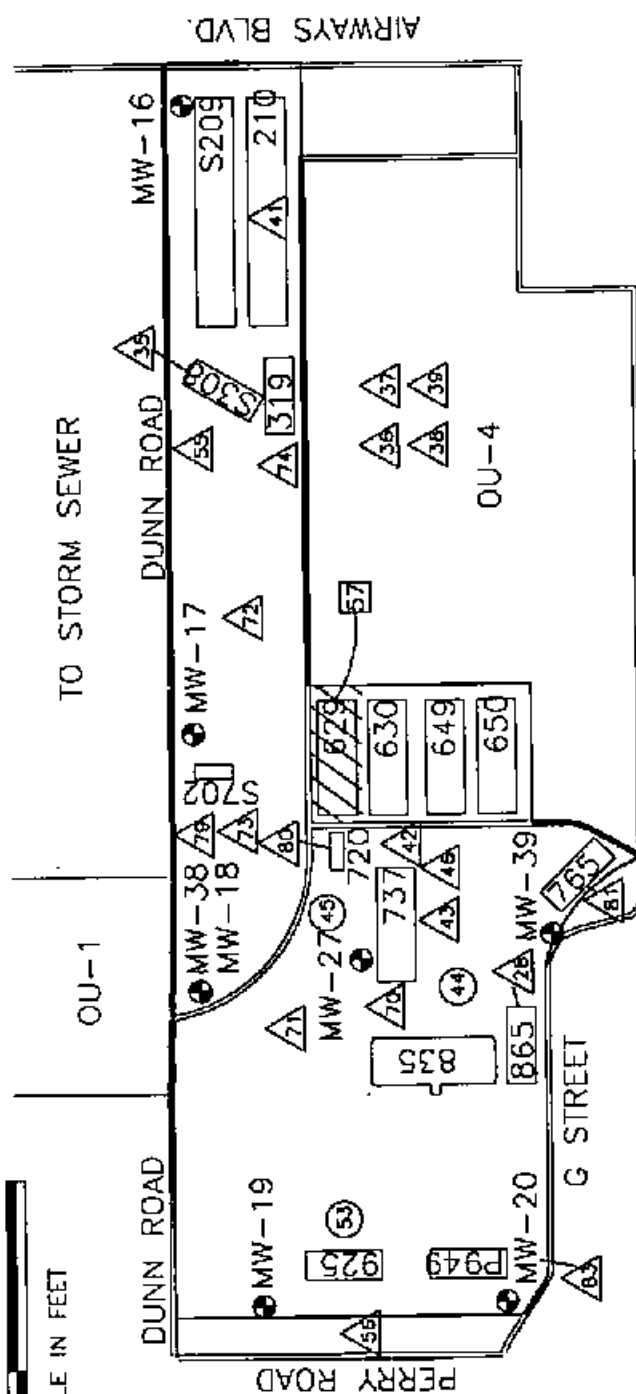
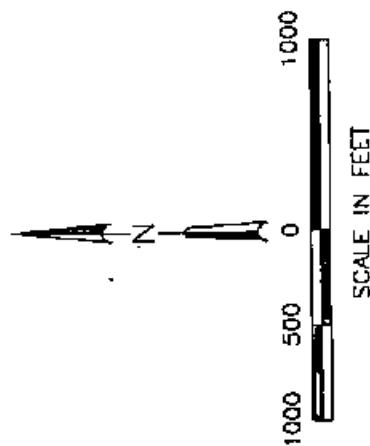
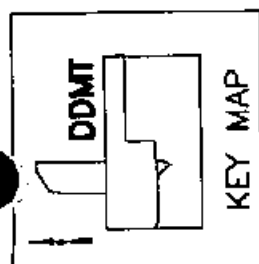
Woodward-Clyde

DEFENSE DISTRIBUTION DEPOT
MEMPHIS, TENNESSEE





OU-3 SITE LOCATIONS

FIGURE 4-4





LEGEND

-  EXISTING MONITORING WELL
 SITE 57 AND SURROUNDING AREA
 SCREENING SITE
 PROPOSED NO FURTHER ACTION SITE

FINAL

Woodward-Clyde



DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE

OU-4 SITE LOCATIONS

FIGURE 4-5

TAB

5.0

FINAL

SECTION FIVE

ENVIRONMENTAL CONDITION OF THE PROPERTY AREA

5.0 ENVIRONMENTAL CONDITION OF THE PROPERTY AREA

This section presents the parcelization of the BRAC property in accordance with the criteria described in CERCLA 120 (h) (4), the CERFA guidance and the DOD *BCP Guidebook*.

5.1 PARCEL DESIGNATIONS

Based on a review of installation documents; federal, state, and local records; and a site visit including employee interviews and visual inspections of the installation property and adjacent properties, Woodward-Clyde divided the DDMT into parcels that represent the environmental condition of the property area. The parcels and corresponding categorizations are identified in Table 5-1a (following Section Five) and on the CERFA maps, Figures 5-1 and 5-2. Areas containing non-CERCLA contamination substances are identified and delineated separately as qualified parcels (Table 5-1b, following Section Five). Qualified parcels overlay all environmental condition of the property categories (Categories 1 through 7). Parcels are labeled as described in Section 1.3. A one-acre grid coordinate system is overlaid on the CERFA map to facilitate the parcelization discussion by geographically locating the various parcels.

Parcel boundaries are drawn using the best available information on the extent of contamination and do not follow map grid lines. Small point sources of contamination or storage, such as USTs, were delineated by circular 0.25-acre parcels centered on the source, as stipulated in DOD guidance. For consistency and to facilitate the summation of acreages, parcel acreages were calculated to two decimal places using the digitized map (Figure 5-1) and AutoCad Release 12. This method is not meant to imply an accuracy to one one-hundredth of an acre.

Table 5-2 summarizes the acreage associated with the CERFA categories:

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**Table 5-2
BRAC ACREAGE SUMMARY TABLE
DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE**

| ENVIRONMENTAL CONDITION CATEGORY NUMBER | TOTAL ACREAGE | ACREAGE MINUS QUALIFIED AREAS | TOTAL QUALIFIED ACREAGE | ACM- QUALIFIED ACREAGE | LBP- QUALIFIED ACREAGE | UXO- QUALIFIED ACREAGE |
|--|--------------------------|--|--|---------------------------------------|---------------------------------------|---------------------------------------|
| 1 | 6.2 | 4.4 | 1.8 | 1.8 | 1.7 | 0 |
| 2 | 10.8 | 0.2 | 10.6 | 10.6 | 10.5 | 0 |
| 3 | 3.4 | 0.4 | 3.0 | 3.0 | 3.0 | 0 |
| 4 | 30.1 | 4.2 | 25.9 | 25.9 | 25.9 | 0 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | 591.5 | 483.8 | 107.7 | 98.8 | 99.6 | 8.2 |
| Total | 642.0 | 493.0 | 149.0 | 140.1 | 140.7 | 8.2 |

Note: Acreage figures are approximate; figures have been calculated using AutoCad Release 12.

5.1.1 Category 1 Parcels

Woodward-Clyde's survey and subsequent parcelization of the DDMT identified 38 parcels, totaling 6.2 acres, as Category 1 parcels. These parcels are areas where there has been no documented storage of hazardous substances or petroleum products; nor has there been release, disposal, or migration from an adjacent property of hazardous substances or petroleum products. The designated Category 1 parcels and their locations on Figure 5-1 are presented in Table 5-3.

**Table 5-3
CATEGORY 1 PARCELS**

| PARCEL NUMBER AND LABEL | MAP LOCATION | MDRA PARCEL | BUILDING NUMBER |
|------------------------------------|---------------------|--------------------|------------------------|
| 1.1(1) | 32,10 | 1 | 1 |
| 1.2(1) | 32,13 | 1 | 2 |
| 1.3(1) | NA | 1 | 129 |
| 1.4(1) | NA | 1 | 139 |
| 1.5(1) | 34,12 | 1 | 144 |
| 1.6(1) | NA | 1 | 145 |
| 1.7(1) | NA | 1 | 155 |
| 2.1(1) | 34,6 | 2 | 176 |
| 2.2(1) | NA | 2 | 178 |
| 2.3(1) | 34,5 | 2 | 179 |
| 2.4(1) | 34,5 | 2 | 181 |

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(Continued)**

| PARCEL NUMBER AND LABEL | MAP LOCATION | MDHA PARCEL | BUILDING NUMBER |
|------------------------------------|---------------------|--------------------|------------------------|
| 2.5(1) | NA | 2 | 183 |
| 2.6(1) | 34,4 | 2 | 184 |
| 3.1(1) | 32,2 | 3 | 193 |
| 3.2(1) | 31,2 | 3 | 195 |
| 3.3(1) | 31,2 | 3 | 196 |
| 3.4(1) | 31,2 | 3 | 198 |
| 4.1(1) | 30,10 | 4 | 252 |
| 4.2(1) | 31,7 | 4 | 270 |
| 4.3(1) | 31,7 | 4 | 271 |
| 13.1(1) | 33,16 | 13 | 23 |
| 13.2(1) | NA | 13 | 24 |
| 13.3(1) | 32,16 | 13 | 25 |
| 14.1(1) | 27,19 | 14 | 22 |
| 15.1(1) | 10,18 | 15 | 15 |
| 17.1(1) | 22,10 | 17 | 459 |
| 23.1(1) | 19,2 | 23 | 7 |
| 23.2(1) | 13,2 | 23 | 8 |
| 23.3(1) | 11,4 | 23 | 787 |
| 23.4(1) | NA | 23 | 795 |
| 23.5(1) | 5,2 | 23 | S995 |
| 29.1(1) | 3,10 | 29 | 9 |
| 33.1(1) | 13,16 | 33 | 727 |
| 33.2(1) | 14,10 | 33 | 754 |
| 33.3(1) | 14,10 | 33 | 755 |
| 33.4(1) | 14,9 | 33 | 756 |
| 33.5(1) | 11,10 | 33 | T860 |
| 34.1(1) | 24,8 | 34 | 360 |

Note:

NA: These buildings are very small and are not shown on Figure 5-1.

5.1.2 Category 2 Parcels

The Category 2 parcels are areas where only storage of hazardous substances or petroleum products has occurred, but no release, disposal, or migration has occurred. A total of 4 parcels, totaling 10.8 acres, have been designated as Category 2.

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SECTION FIVE**ENVIRONMENTAL CONDITION OF THE PROPERTY AREA****Parcel Number and Label 13.4(2)HS****CERFA Map Location 31,17**

This parcel is associated with proposed NFA Site 41, Building 210, an Administrative/Computer Center and General Purpose Warehouse. Records revealed that this building has been used as a satellite drum accumulation facility (CH2M Hill 1995b). An interview revealed that a portion of this building, Bay 7, was used during the 1970s as a photographic laboratory. The interviewee also stated that, other than photographic chemicals, no hazardous substances have been stored in this building since 1969. There has been no documented release associated with this parcel, and no evidence was found of disposal, or migration from an adjacent property of hazardous materials or petroleum products.

Parcel Number and Label 21.1(2)HS**CERFA Map Location 17,3**

This parcel is associated with Building 690, which has been used to store hazardous materials before shipment. Screening Site 76 is located in the southeastern portion of this building. No previous sampling has been conducted at this site (CH2M Hill 1995h). There has been no documented release associated with this parcel, and no evidence was found of disposal, or migration from an adjacent property of hazardous materials or petroleum products.

Parcel Number and Label 33.10(2)**CERFA Map Location 14,10**

This parcel is associated with Building 753, a small storage facility. There has been storage of fire extinguisher chemicals and antifreeze, but no documented storage of petroleum products or hazardous substances.

Parcel Number and Label 33.11(2)**CERFA Map Location 14,9**

This parcel is associated with an area outside Building 756. It is the site of a concrete vault 1,000-gallon diesel tank for the emergency generator at Building 756. The former (underground) tank at

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this location was removed in June 1994. Soil was tested for TPH and found to be less than 20 ppm. No remediation is necessary.

5.1.3 Category 3 Parcels

The Category 3 parcels listed below are areas identified where storage, release, disposal, or migration of hazardous substances or petroleum products has occurred, but at concentrations that do not require removal or remedial action. A total of 3 parcels, encompassing 3.4 acres, have been identified as Category 3.

Parcel Number and Label 4.4(3)PS/PR/HS/HR**CERFA Map Location 30,9**

This parcel is associated with proposed NFA Sites 30 and 41, the satellite drum accumulation area and Safety Kleen unit at Building 260. The RCRA Facility Assessment visual inspection noted staining on the floor in the sign shop of this building (CH2M Hill 1995b; A.T. Kearney, Inc. 1990). Application of absorbent was sufficient to contain the spill, and no further remedial action was deemed necessary.

Parcel Number and Label 10.1(3)HR**CERFA Map Location 16,12**

This parcel is associated with a 1-gallon hydraulic fluid spill that was reported on August 11, 1995 inside of Building 649, Section 5. In addition, leaking containers of paint, lube oil, insecticides, and other oil were reported on May 16, 1990 outside of Building 649 (Defense Logistics Agency, DDMT 1992, 1995). The precise location of this spill is unknown. Application of absorbent was sufficient to contain the spill, and no further remedial action was deemed necessary.

Parcel Number and Label 20.1(3)PR**CERFA Map Location 21,5**

This parcel is associated with a 1-gallon oil spill that was reported on November 3, 1995 at the north dock of Building 489, Section 4 (Defense Logistics Agency, DDMT 1995c). The precise

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location of the spill is unknown. Application of absorbent was sufficient to contain the spill, and no further remedial action was deemed necessary.

5.1.4 Category 4 Parcels

The Category 4 parcels listed below are areas where storage, release, disposal, or migration of hazardous substances or petroleum products has occurred, and all removal or remedial actions necessary to protect human health and the environment have been taken. A total of 8 parcels, encompassing 30.1 acres, have been designated as Category 4.

Parcel Number and Label 18.1(4)HS/HR**CERFA Map Location 17,8**

This parcel is associated with Building 560. Two spills (5 gallons and 15 gallons) of aqueous film forming foam were reported on October 17, 1995 and November 14, 1995 inside Building 560, Section 3. The damaged containers were moved to the recoupment facility and absorbent was applied to the spill.

Parcel Number and Label 20.2(4)HS/HR**CERFA Map Location 17,6**

This parcel is associated with Building 670. During the EBS visual inspection, significant corrosion was noted on the floor due to acid leaks at the charging station. A 1-gallon spill of hydraulic fluid was reported on August 30, 1995 inside Section 1 of this building (Defense Logistics Agency, DDMT 1995c). Application of absorbent was sufficient to contain the spill, and no further remedial action was deemed necessary. In addition, a 10-gallon spill of battery electrolyte was reported on May 4, 1990 outside of Building 670 (Defense Logistics Agency, DDMT 1992). Absorbent was applied to the spill, as documented in the spill report. No additional cleanup is necessary, per a site visit by the BRAC Cleanup Team (BCT).

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Parcel Number and Label 20.3(4)HS/HR**CERFA Map Location 20,7**

This parcel is associated with Building 470. Corrosion on the floor (acid leak) near the battery charging station was observed during the EBS visual inspection of this building.

Parcel Number and Label 20.4(4)HS/HR**CERFA Map Location 21,5**

This parcel is associated with Building 489. Corrosion on the floor (acid leak) near the battery charging station was observed during the EBS visual inspection of this building.

Parcel Number and Label 21.2(4)PS/HS/HR**CERFA Map Location 23,3**

This parcel is associated with proposed NFA Site 40 at Building 490, a general purpose warehouse. A 1-gallon spill of sulfuric acid/battery acid was reported on December 15, 1995 inside of Building 490, Section 5 (Defense Logistics Agency, DDMT 1995c). Application of absorbent was sufficient to contain the spill, and no further remedial action was deemed necessary. Additionally, a visual inspection documented that petroleum products, microfiche developing chemicals, and Safety Kleen are stored inside this building.

Parcel Number and Label 21.3(4)HS/HR**CERFA Map Location 15,5**

This parcel is associated with Screening Sites 75 and 78, Building 689 and a portion of the surrounding area. Eleven spills are documented from May 8, 1990 through November 16, 1995 inside and outside of Building 689. The materials spilled include nitric acid, corrosion removing compound, hydraulic fluid, oil, and sulfuric acid (Defense Logistics Agency, DDMT 1992, 1993c, 1995c). Application of absorbent was sufficient to contain the spill, and no further remedial action was deemed necessary. Building 689 historically stored alcohol, acetone, toluene, and hydrofluoric acid before transport. Screening Site 78 is located in the northern portion of this building. No previous sampling has been conducted at this site. Screening Site 75 is situated between Buildings

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689 and 670. The area was not bermed and is adjacent to a storm sewer inlet. No previous sampling has been conducted at this site (CH2M Hill 1995h).

Parcel Number and Label 21.4(4)HS/HR**CERFA Map Location 15,4**

This parcel is associated with Building 685. A visual inspection noted staining and potential contamination due to acid leaks from batteries in the fork lift area.

Parcel Number and Label 33.6(4)HR**CERFA Map Location 13,13**

A 50-gallon mineral oil (containing less than 1 ppm PCBs) spill was reported on November 9, 1995 outside of Building 737 (A.T. Kearney, Inc. 1990; Defense Logistics Agency, DDMT 1993c).

Documented evidence indicates the contaminated material associated with this release has been removed, and no further removal or remedial actions are required.

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5.1.5 Category 5 Parcels

There are no Category 5 parcels within the BRAC property at the DDMT.

5.1.6 Category 6 Parcels

There are no designated Category 6 parcels within the BRAC property at the DDMT.

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5.1.7 Category 7 Parcels

The Category 7 parcels listed below are areas that have not been evaluated or require additional evaluation. A total of 134 parcels, encompassing 591.5 acres, have been designated as Category 7.

Parcel Number and Label 1.8(7)**CERFA Map Location 33,12**

This parcel is associated with MDRA Parcel 1. The South Parking Lot in this parcel is the location of former housing units. These housing units were demolished and the potential impacts from these units are unknown. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. Additional evaluation is necessary to determine the environmental condition of this parcel.

In addition, this parcel is associated with two previously reported POL spills. A 4-gallon motor oil spill was reported on March 22, 1995 at the Gate 1 parking lot. In addition, a minor diesel spill was reported on October 28, 1993 in the street at Gate 1 (Defense Logistics Agency, DDMT 1995c, 1993c). The precise locations of the spills are unknown. Application of absorbent was sufficient to contain the spill, and no further remedial action was deemed necessary.

Parcel Number and Label 2.7(7)**CERFA Map Location 33,6**

This parcel is associated with MDRA Parcel 2. This parcel contains housing units. Based on an interview with DDMT personnel, the surface soil surrounding buildings at the installation has the potential for pesticide contamination. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 3.5(7)**CERFA Map Location 29,4**

This parcel is associated with MDRA Parcel 3. This parcel contains the golf course area, which has been sprayed with pesticides. Additional evaluation is necessary to determine the environmental condition of this parcel.

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Parcel Number and Label 3.6(7)**CERFA Map Location 26,6**

This parcel is associated with RI Site 26, which is Lake Danielson. It is located in the northwest corner of the golf course and receives stormwater runoff from the central portion of DDMT. Surface water samples detected the presence of DDT. Sediment samples detected DDT, chlordane, and metals (CH2M Hill 1995e). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 3.7(7)**CERFA Map Location 26,4**

This parcel is associated with Screening Site 51, the Lake Danielson outlet ditch, which receives stormwater flow from surrounding areas and intermittent flow from the lake. Surface water samples SW-9 and SW-12 detected the presence of pesticides and metals. A groundwater sample from MW-25 detected the presence of VOCs and metals (CH2M Hill 1995h). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 3.8(7)**CERFA Map Location 32,5**

This parcel is associated with RI Site 25, the golf course pond, which receives surface water runoff from the golf course and the southeast portion of the installation. Sediment samples detected metals and pesticides (CH2M Hill 1995e). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 3.9(7)**CERFA Map Location 30,3**

This parcel is associated with Screening Site 52, the golf course pond outlet ditch, which receives stormwater flow from surrounding areas and intermittent flow from the pond. Surface water samples SW-10 and SW-11 detected pesticides and metals. Surface soil sample SS-13 detected PAHs (CH2M Hill 1995h). Additional evaluation is necessary to determine the environmental condition of this parcel.

SECTION FIVE**ENVIRONMENTAL CONDITION OF THE PROPERTY AREA**Parcel Number and Label 3.10(7)

CERFA Map Location 30,6

This parcel is associated with the location of a former pistol range. A 1947 installation map shows a pistol range directly behind the current location of Building 271, near the 9th hole of the golf course (Chemical Systems Laboratory 1981; Office of Post Engineer, DDMT 1947). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 3.11(7)

CERFA Map Location 30,6

This parcel is associated with Screening Site 69, which is within the golf course and was used to test flamethrower fuels. Firefighting techniques were also practiced at this site after ignition of the fuel. No previous sampling has been conducted at this site (CH2M Hill 1995b, 1995h). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 4.5(7)

CERFA Map Location 30,8

This parcel is associated with MDRA Parcel 4. This parcel contains shops and a motor pool. Based on an interview with DDMT personnel, the surface soil surrounding buildings at the installation has the potential for pesticide contamination. Additional evaluation is necessary to determine the environmental condition of this parcel.

In addition, this parcel is associated with three gasoline USTs (two 12,000-gallon and one 20,000-gallon) that were located south of Building 257, but were removed in 1986. These tanks were replaced by one 18,000-gallon and one 20,000-gallon gasoline UST (The Pickering Firm, Incorporated 1993d; Facilities Engineering Division, DDMT 1993). This parcel is also associated with a 5,000-gallon heating oil tank that was located outside of Building 253, but was removed in July of 1994 (The Pickering Firm, Incorporated 1993d; Facilities Engineering Division, DDMT 1993). No documentation of previous sampling for this site was found. There have been no documented releases associated with these tanks and no evidence was found of disposal, or migration from an adjacent property of hazardous substances or petroleum products.

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Parcel Number and Label 4.6(7)**CERFA Map Location 29,9**

This parcel is associated with Building 254 and a removed gasoline tank. A 5-gallon diesel spill was reported on March 20, 1995 from a tank outside the southwest corner of Building 254. This release was not of sufficient quantity to warrant a removal or remedial action (Defense Logistics Agency, DDMT 1995c). In addition, a 1,110-gallon gasoline tank that had been located outside of this building was removed in December 1989 (The Pickering Firm, Incorporated 1993d; Facilities Engineering Division, DDMT 1993). A visual inspection of the building indicates that drums of motor oil and hydraulic fluid were leaking onto the concrete floor. An interview revealed that this building is used to store POL, antifreeze, and occasionally fertilizer. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 4.7(7)**CERFA Map Location 28,10**

This parcel is associated with Screening Site 67, Building 257 and the surrounding area. A one to two gallon gasoline spill was reported on April 20, 1990 outside of Building 257. Additional spills were reported on August 11, 1993 (leaking tank at gasoline station) and on August 31, 1993 (gasoline release from tank pressure tube). These releases were not of sufficient quantity to warrant a removal or remedial action. In addition, two 1,000-gallon gasoline ASTs are located at this building, and a 2,580-gallon gasoline tank was removed in December 1989. Since 1942, fuel dispensing and storage have been ongoing at Building 257 (Defense Logistics Agency, DDMT 1992; CH2M Hill 1995h). Surface soil sample SS-25 detected PAHs, dieldrin, and metals. The interior of this building has been fumigated. No data exist to determine the impact of this fumigation. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 4.8(7)**CERFA Map Location 30,9**

This parcel is associated with Screening Site 68, Building 263, which has been used as an attendants' room for the dispensing of POL to vehicles since the 1940s. No previous sampling has been conducted at this site (CH2M Hill 1995h). The interior of this building has been fumigated.

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No data exist to determine the impact of this fumigation. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 4.9(7)**CERFA Map Location 29,8**

This parcel is associated with RI Site 58, Pad 267, which is a concrete slab and was formerly the site of Building T-267, a pesticide shop. This building was used for the storage and mixing of pesticides and herbicides. Rinse water from pesticide and herbicide spraying operations was reportedly dumped on the ground near the facility (CH2M Hill 1995e). No previous sampling has been conducted at this site. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 4.10(7)**CERFA Map Location 31,7**

This parcel is associated with RI Site 59, Building 273, which was used for mixing golf course pesticides and herbicides. Surface soil samples (SS-37 and SS-50) detected VOCs, PAHs, and pesticides in this area (CH2M Hill 1995e). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 4.11(7)**CERFA Map Location 29,9**

This parcel is associated with Screening Site 66 and proposed NFA Site 40, Building 253, which has been used for storage of petroleum products (55-gallon drums of hydraulic oil), antifreeze, and Safety Kleen (The Pickering Firm, Incorporated 1993d; Facilities Engineering Division, DDMT 1993; CH2M Hill 1995h). The interior of this building has been fumigated. No data exist to determine the impact of this fumigation. A visual inspection found that this building has a floor drain that is connected to a sump. Additional evaluation is necessary to determine the environmental condition of this parcel.

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Parcel Number and Label 4.12(7)

CERFA Map Location 31,10

This parcel is associated with Building 251. A visual inspection noted a sump/waste oil tank located inside the building. No previous sampling has been conducted at this site. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 4.13(7)

CERFA Map Location 31,8

This parcel is associated with Building 265. A visual inspection noted a floor drain inside the building that is connected to the sanitary sewer. No previous sampling has been conducted at this site. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 5.1(7)

CERFA Map Location 29,7

This parcel is associated with MDRA Parcel 5. This parcel contains storage facilities. Based on an interview with DDMT personnel, the surface soil surrounding buildings at the installation has the potential for pesticide contamination. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 5.2(7)

CERFA Map Location 29,7

This parcel is associated with RI Site 48, the former PCB Transformer Area including Building 274 (constructed after transformer storage ceased). Soil samples detected PAHs and DDT (and breakdown products). Groundwater sample in MW-26 detected tetrachloroethane and carbon tetrachloride (CH2M Hill 1995b, 1995e). Additional evaluation is necessary to determine the environmental condition of this parcel.

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Parcel Number and Label 6.1(7)**CERFA Map Location 28,11**

This parcel is associated with MDRA Parcel 6. This parcel contains storage facilities. In addition, based on an interview with DDMT personnel, the surface soil surrounding buildings at the installation has the potential for pesticide contamination. In addition, this parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 6.2(7)**CERFA Map Location 29,11**

This parcel is associated with Building 250. A visual inspection noted staining and potential contamination due to acid leaks from batteries in the fork lift area. This building may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 6.3(7)**CERFA Map Location 27,12**

This parcel is associated with Building 349, which may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 6.4(7)**CERFA Map Location 26,11**

This parcel is associated with Building 350. A visual inspection noted staining and potential contamination due to acid leaks from batteries in the fork lift area. This building may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. Additional evaluation is necessary to determine the environmental condition of this parcel.

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Parcel Number and Label 7.1(7)

CERFA Map Location 29,13

This parcel is associated with MDRA Parcel 7. This parcel contains storage facilities. Based on an interview with DDMT personnel, the surface soil surrounding buildings at the installation has the potential for pesticide contamination. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 7.2(7)

CERFA Map Location 29,12

This parcel is associated with Screening Site 65, Building 249, which was formerly used as a storage facility for clothing treated with impregnate (XXCC-3), a chemical used as a preventive to the effects of chemical warfare agents on skin. No previous sampling has been conducted at this site. A battery acid spill was reported on April 15, 1993 at the north dock of this building. The precise location of the spill is unknown (CH2M Hill 1995h; Defense Logistics Agency, DDMT 1993c). This building may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 8.1(7)

CERFA Map Location 28,14

This parcel is associated with MDRA Parcel 8. This parcel contains storage facilities. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. In addition, this parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Additional evaluation is necessary to determine the environmental condition of this parcel.

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Parcel Number and Label 8.2(7)

CERFA Map Location 29,15

This parcel is associated with Building 229, which may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 8.3(7)

CERFA Map Location 29,14

This parcel is associated with Building 230, which may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 8.4(7)

CERFA Map Location 26,15

This parcel is associated with Building 329, which may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 8.5(7)

CERFA Map Location 26,13

This parcel is associated with Building 330, which may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 9.1(7)

CERFA Map Location 23,13

This parcel is associated with MDRA Parcel 9. This parcel contains storage facilities. Based on an interview with DDMT personnel, the surface soil surrounding buildings at the installation has the potential for pesticide contamination. Additional evaluation is necessary to determine the environmental condition of this parcel.

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Parcel Number and Label 9.2(7)

CERFA Map Location 23,15

This parcel is associated with Building 429, which may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 9.3(7)

CERFA Map Location 23,13

This parcel is associated with Building 430. A visual inspection noted staining and potential contamination due to acid leaks from batteries in the fork lift area. This building may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 9.4(7)

CERFA Map Location 23,12

This parcel is associated with Building 449, which may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 9.5(7)

CERFA Map Location 23,11

This parcel is associated with Building 450, which may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. Additional evaluation is necessary to determine the environmental condition of this parcel.

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Parcel Number and Label 10.2(7)

CERFA Map Location 18,11

This parcel is associated with MDRA Parcel 10. This parcel contains storage facilities. Based on an interview with DDMT personnel, the surface soil surrounding buildings at the installation has the potential for pesticide contamination. In addition, this parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 10.3(7)

CERFA Map Location 17,10

This parcel is associated with the location of a previously reported spill. A battery acid and hydraulic fluid spill was reported on March 18, 1993 between Buildings 550 and 650. The precise location of the spill is unknown (Defense Logistics Agency, DDMT 1993c). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 10.4(7)

CERFA Map Location 20,12

This parcel is associated with Building 549, which may have been fumigated. A visual inspection noted that the west side of the building contains a fumigation chamber. No data exist to determine if the building was fumigated or the impacts of the fumigation and the fumigation chamber. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 10.5(7)

CERFA Map Location 19,11

This parcel is associated with Building 550. A visual inspection noted staining and potential contamination due to acid leaks from batteries in the fork lift area. This building may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. Additional evaluation is necessary to determine the environmental condition of this parcel.

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Parcel Number and Label 10.6(7)

CERFA Map Location 17,11

This parcel is associated with Building 650, which may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 11.1(7)

CERFA Map Location 18,14

This parcel is associated with MDRA Parcel 11. This parcel contains storage facilities. Based on an interview with DDMT personnel, the surface soil surrounding buildings at the installation has the potential for pesticide contamination. In addition, this parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 11.2(7)

CERFA Map Location 19,15

This parcel is associated with Building 529. A visual inspection noted staining and potential contamination due to acid leaks from batteries in the fork lift area. In addition, antifreeze, firefighting foam, and photographic chemicals are stored in the west end of the building. This building may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 11.3(7)

CERFA Map Location 20,14

This parcel is associated with Building 530, which may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. Additional evaluation is necessary to determine the environmental condition of this parcel.

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Parcel Number and Label 11.4(7)

CERFA Map Location 16,13

This parcel is associated with Building 630, which may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 12.1(7)

CERFA Map Location 17,15

This parcel is associated with MDRA Parcel 12. This parcel contains storage facilities. Based on an interview with DDMT personnel, the surface soil surrounding buildings at the installation has the potential for pesticide contamination. In addition, this parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 12.2(7)

CERFA Map Location 16,15

This parcel is associated with RI Site 57, Building 629, a former hazardous materials storage building (DDT, herbicides, solvents, oxidizers, and toxic/corrosive materials). A 6-gallon nitric acid spill was reported on April 23, 1990 inside Building 629, Section 1. Additional past spills inside of this building include an unknown amount of hydrofluoric acid. Surface soil samples SS-10, SS-11, SS-42, and SS-43 detected PAHs, pesticides, VOCs, and metals. This building may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation (CH2M Hill 1995f; Defense Logistics Agency, DDMT 1992). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 13.5(7)

CERFA Map Location 33,16

This parcel is associated with MDRA Parcel 13. This parcel contains storage facilities. Based on an interview with DDMT personnel, the surface soil surrounding buildings at the installation has the potential for pesticide contamination. In addition, this parcel contains railroad tracks that were

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historically sprayed with pesticides, herbicides, and waste oil containing PCP. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 14.2(7)**CERFA Map Location 33,17**

This parcel is associated with MDRA Parcel 14. This parcel contains storage facilities. Based on an interview with DDMT personnel, the surface soil surrounding buildings at the installation has the potential for pesticide contamination. In addition, this parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Additional evaluation is necessary to determine the environmental condition of this parcel.

In addition, this parcel is associated with a 12,000-gallon heating oil tank that was located outside of Building 209, but was removed in July of 1994 (The Pickering Firm, Incorporated 1993d).

There has been no documented release associated with this tank, and no evidence was found of disposal, or migration from an adjacent property of hazardous substances or petroleum products.

Parcel Number and Label 15.2(7)**CERFA Map Location 26,18**

This parcel is associated with Screening Site 35, Building S308, which is used to store hazardous waste and batteries. Surface soil sample SS-4 detected PAHs, dieldrin, and metals (CH2M Hill 1995h). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 15.3(7)**CERFA Map Location 26,16**

This parcel is associated with Screening Site 74, Building 319, which contains flammables and toxics. In addition, a xylene spill was reported on November 18, 1991 inside of Building 319, Section 4. Absorbent was applied to the spill. No previous sampling has been conducted at this site (Defense Logistics Agency, DDMT 1992; CH2M Hill 1995h). Additional evaluation is necessary to determine the environmental condition of this parcel.

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Parcel Number and Label 15.4(7)

CERFA Map Location 14,18

This parcel is associated with Screening Site 79, adjacent to Building S702. Fuels and miscellaneous liquids are stored in the vicinity of Building S702. No previous sampling has been conducted at this site (CH2M Hill 1995h). Additional soil sampling has been proposed to evaluate the presence of a contaminant release at this site.

Parcel Number and Label 15.5(7)

CERFA Map Location 23,18

This parcel is associated with four Screening Sites. These sites consist of concrete (Site 36) and gravel (Site 37) hazardous waste storage pads, hazardous materials drum storage (Site 38), and lubricant container storage (Site 39). Surface soil sample SS-5 detected PAHs, dieldrin, and metals (CH2M Hill 1995h). Additional soil sampling has been proposed to evaluate the presence of a contaminant release at these sites.

Parcel Number and Label 15.6(7)

CERFA Map Location 18,17

This parcel is associated with MDRA Parcel 15, which consists of the Open Storage Yards X09, Y10, and Y50 and includes three Screening Sites. The DRMO East Stormwater Runoff Canal (Site 54) and the DRMO North Stormwater Runoff Canal (Site 55) are canals that collect stormwater runoff from the DRMO Yard and other DDMT facilities. No previous sampling has been conducted at these sites (CH2M Hill 1995h). Screening Site 72 (PDO Yard) is associated with an area that was treated with waste oil for dust control. Other soil and groundwater samples from within this parcel detected metals, pesticides, and methylene chloride (CH2M Hill 1995h). During the EBS visual inspection of this area, spills of a dark liquid were observed on the concrete pad (Real Property 88015) located south of Building 702 and west of Building 629. In addition, this parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Additional evaluation is necessary to determine the environmental condition of this parcel.

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In addition, this parcel is associated with a 4,000-gallon heating oil tank that was located outside of Building 319, but was removed in July of 1994 (The Pickering Firm, Incorporated 1993d). There has been no documented release associated with this tank, and no evidence was found of disposal, or migration from an adjacent property of hazardous substances or petroleum products.

This parcel is also associated with a 30-gallon solvent spill south of Building 309 that was reported on December 2, 1991. The precise location of the spill is unknown. The contaminated soils associated with this release have been removed, and no further removal or remedial actions are required (Defense Logistics Agency, DDMT 1992).

Parcel Number and Label 16.1(7)**CERFA Map Location 21,9**

This parcel is associated with MDRA Parcel 16. This parcel contains storage facilities. Based on an interview with DDMT personnel, the surface soil surrounding buildings at the installation has the potential for pesticide contamination. In addition, this parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 16.2(7)**CERFA Map Location 17,10**

This parcel is associated with Building 559, which may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 17.2(7)**CERFA Map Location 22,9**

This parcel is associated with MDRA Parcel 17. This parcel contains storage facilities. Based on an interview with DDMT personnel, the surface soil surrounding buildings at the installation has the potential for pesticide contamination. In addition, this parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Additional evaluation is necessary to determine the environmental condition of this parcel.

In addition, this parcel is associated with the following tanks:

- A 12,000-gallon and a 500-gallon fuel oil tank that were located at Building 359 and were closed in place in July 1994 and September 1995, respectively (The Pickering Firm, Incorporated 1993d).
- A 1,000-gallon fuel oil tank and a 500-gallon diesel tank that were located at Building 359, but were removed in 1993 (The Pickering Firm, Incorporated 1993d; Facilities Engineering Division, DDMT 1993).
- A 12,000-gallon and a 500-gallon fuel oil tank that were located at Building 359, but were removed in 1993 (The Pickering Firm, Incorporated 1993d; Facilities Engineering Division, DDMT 1993).

There have been no documented releases associated with these tanks, and no evidence was found of disposal, or migration from an adjacent property of hazardous substances or petroleum products.

Parcel Number and Label 17.3(7)

CERFA Map Location 25,9

This parcel is associated with proposed NFA Site 49, Building 359. A sulfuric acid spill was reported on August 27, 1993 in Section 2 of this building (Defense Logistics Agency, DDMT 1993c). This building is used for storage of medical materials, sodium chloride, and petroleum products. An out of service incinerator is also located in this building. An interview revealed that this building was fumigated. No data exist to determine the impact of this fumigation. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 18.2(7)

CERFA Map Location 19,8

This parcel is associated with MDRA Parcel 18. This parcel contains storage facilities. Based on an interview with DDMT personnel, the surface soil surrounding buildings at the installation has the

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potential for pesticide contamination. In addition, this parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 19.1(7)**CERFA Map Location 21,8**

This parcel is associated with MDRA Parcel 19. This parcel contains storage facilities. Based on an interview with DDMT personnel, the surface soil surrounding buildings at the installation has the potential for pesticide contamination. In addition, this parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Additional evaluation is necessary to determine the environmental condition of this parcel.

In addition, this parcel is associated with a 1,000-gallon oil/water separator that is located at Building S465 (The Pickering Firm, Incorporated 1993d). There has been no documented release associated with this oil/water separator, and no evidence was found of disposal, or migration from an adjacent property of hazardous substances or petroleum products.

Parcel Number and Label 19.2(7)**CERFA Map Location 22,7**

This parcel is associated with Building S465. A vehicle wash rack was observed inside the building during the EBS visual inspection. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 19.3(7)**CERFA Map Location 22,8 .**

This parcel is associated with proposed NFA Sites 40 and 41 at Building 469, which is used for storage of sulfuric acid, hydraulic fluid, and lubrication oil. In addition, according to an interview, a PCB spill took place in this building that has not been investigated. Additional evaluation is necessary to determine the environmental condition of this parcel.

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Parcel Number and Label 20.5(7)

CERFA Map Location 19,6

This parcel is associated with MDRA Parcel 20. This parcel contains storage facilities. Based on an interview with DDMT personnel, the surface soil surrounding buildings at the installation has the potential for pesticide contamination. In addition, this parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 20.6(7)

CERFA Map Location 20,4

This parcel is associated with the location of a sulfuric acid spill that was reported on June 10, 1993 between Buildings 489 and 490 (Defense Logistics Agency, DDMT 1993c). The precise location of the spill, the action taken, and the quantity of the spill are unknown. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 21.5(7)

CERFA Map Location 19,3

This parcel is associated with MDRA Parcel 21. This parcel contains storage facilities. Based on an interview with DDMT personnel, the surface soil surrounding buildings at the installation has the potential for pesticide contamination. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 22.1(7)

CERFA Map Location 18,4

This parcel is associated with MDRA Parcel 22. This parcel contains storage facilities. Based on an interview with DDMT personnel, the surface soil surrounding buildings at the installation has the potential for pesticide contamination. Additional evaluation is necessary to determine the environmental condition of this parcel.

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This parcel is associated with Screening Site 77, which is a battery recoupment area located between Buildings 689 and 690. No previous sampling has been conducted at this site (CH2M Hill 1995h). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 23.6(7)**CERFA Map Location 12,2**

This parcel is associated with the eastern portion of MDRA Parcel 23, which contains grassy areas. Based on an interview with DDMT personnel, the surface soil surrounding buildings at the installation has the potential for pesticide contamination. In addition, this parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 23.7(7)**CERFA Map Location 11,5**

This parcel is associated with Building 783, which is part of Screening Site 82. This building was previously designated for the storage of flammable items and ordnance material and is the location of the former DDMT recoupment facility. No previous sampling has been conducted at this site (CH2M Hill 1995h). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 23.8(7)**CERFA Map Location 11,3**

This parcel is associated with Building 793, which is part of Screening Site 82. Building 793 was previously designated for the storage of flammable items and ordnance material and is the location of the former DDMT recoupment facility. No previous sampling has been conducted at this site (CH2M Hill 1995h). Additional evaluation is necessary to determine the environmental condition of this parcel.

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Parcel Number and Label 23.9(7)

CERFA Map Location 4,2

This parcel is associated with the location of a gasoline spill that was reported on September 13, 1993 outside of Building S995. The precise location of the spill, the action taken, and the quantity of the spill are unknown (Defense Logistics Agency, DDMT 1993c). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 23.10(7)

CERFA Map Location 8,2

This parcel is associated with open storage area X01. According to an interview with DDMT personnel, this is the site of a former lake. The sediments are possibly contaminated with PCB and pesticide/herbicide residues. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 23.11(7)

CERFA Map Location 6,2

This parcel is associated with the western portion of MDRA Parcel 23. Based on an interview with DDMT personnel, the surface soil surrounding buildings at the installation has the potential for pesticide contamination. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 24.1(7)HR

CERFA Map Location 10,3

This parcel is associated with RI Site 27, the southeastern corner of Building S873 and the gravel parking area to the east. Remediation of soil contamination from previous spills (DDT, DDE, and aldrin) has been performed. However, additional surface soil sampling results indicate that VOCs, PAHs, pesticides, and metals are still present (CH2M Hill 1995d). Additional evaluation is necessary to determine the environmental condition of this parcel.

SECTION FIVE**ENVIRONMENTAL CONDITION OF THE PROPERTY AREA****Parcel Number and Label 24.2(7)****CERFA Map Location 11,6**

This parcel is associated with area X03 that was used for storage of flammable materials in 55-gallon drums until 1988. The area then became steel storage. In addition, this parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 24.3(7)**CERFA Map Location 11,7**

This parcel is associated with RI Site 34 and proposed NFA Sites 30, 40, and 41 at Buildings 770 and T771. The EBS visual inspection noted that hazardous materials (antifreeze, paint, solvents, Safety Kleen) and petroleum products are stored in Building 770. Several spills have been reported for this area, including: an oil spill was reported on August 23, 1993 outside Building 770 (northeast corner); a 50-gallon spill of PCB-containing liquid was reported on July 9, 1990; and a 55-gallon spill of petroleum was reported November 7, 1991 outside Building 770 (west side). Reportedly, the contaminated material associated with these releases was removed, and no further removal or remedial actions are required (Defense Logistics Agency, DDMT 1992, 1993c). Several tanks have been removed (The Pickering Firm, Incorporated, 1993d; Facilities Engineering Division, DDMT 1993), including:

- An 11,155-gallon diesel tank removed in July 1994
- An 11,155-gallon fuel oil tank removed in July 1994
- A 10,000-gallon fuel oil tank removed in July 1994
- A 440-gallon gasoline tank removed in December 1989
- Two 1,000-gallon used motor oil tanks removed in December 1989

Building 770 has an oil/water separator that is pumped out quarterly, and a floor drain. Surface soil samples (SS-38 and SS-39) detected PAHs, VOCs, pesticides, and metals (CH2M Hill 1995d). The EBS visual inspection noted oil staining on the floor of Building T771. Additional evaluation is necessary to determine the environmental condition of this parcel.

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Parcel Number and Label 25.1 (7) HS/HR

CERFA Map Location 9,4

This parcel is associated with RI Site 27, the former recoup area in the southwest corner of Building S873, an open shed warehouse. Several spills of different types of materials have reportedly occurred inside of and adjacent to this building. Recorded spills inside of the building include:

- 60 gallons of tetrachloethylene reported on March 10, 1990
- 30 gallons of sulfuric acid reported on April 16, 1990
- 55 gallons of cleaning compound solvent reported on December 7, 1990
- 2 gallons of lube oil reported on March 9, 1991
- 2 gallons of hydraulic fluid reported on August 16, 1991
- Leaking 5-gallon drums of engine gas path cleaner reported on November 18, 1991
- 10 gallons of descaling compound reported on February 13, 1992
- Leaking 55-gallon drums of cleaning compound reported on July 21, 1993
- Leaking bottles of acid corrosive reported on November 29, 1993

Spills outside of the building include:

- 55 gallons of lube oil reported on March 2, 1992
- 55 gallons of fog oil reported on November 26, 1991

The contaminated material associated with these spills was removed, and no further removal or remedial actions were required at that time (Defense Logistics Agency, DDMT 1992, 1993c). Additionally, the EBS visual inspection documented the storage of corrosives, chlorinated solvents, oils, lubricants, and greases inside of Building S873. Therefore, additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 25.2(7)

CERFA Map Location 8,7

This parcel is associated with MDRA Parcel 25. This parcel contains storage facilities. Based on an interview with DDMT personnel, the surface soil surrounding buildings and railroad tracks at

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the installation has the potential for pesticide contamination. In addition, this parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Additional evaluation is necessary to determine the environmental condition of this parcel. In addition, this parcel is associated with a 1,000-gallon heating oil tank that was located outside of Building 875 and was closed in place in July of 1994 (The Pickering Firm, Incorporated 1993d). There has been no documented release associated with this tank, and no evidence was found of disposal, or migration from an adjacent property of hazardous substances or petroleum products.

Parcel Number and Label 26.1(7)**CERFA Map Location 6,9**

This parcel is associated with MDRA Parcel 26. This parcel contains storage facilities. Based on an interview with DDMT personnel, the surface soil surrounding buildings and railroad tracks at the installation has the potential for pesticide contamination. In addition, this parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 26.2(7)**CERFA Map Location 6,4**

This parcel is associated with an oil-fired generator at Building S970, Section 6. The EBS visual inspection noted that oil has leaked onto the concrete pad. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 27.1(7)**CERFA Map Location 4,9**

This parcel is associated with MDRA Parcel 27. This parcel contains storage facilities. Based on an interview with DDMT personnel, the surface soil surrounding buildings and railroad tracks at the installation has the potential for pesticide contamination. In addition, this parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 27.2(7)**CERFA Map Location 4,4**

This parcel is associated with Screening Site 84, Building 972. The EBS visual inspection noted that flammables, solvents, and waste oil are stored in Building 972. No previous sampling has been conducted for this site. In addition, oil stained areas were observed in the building. This building may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation (CH2M Hill 1995h). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 28.1(7)**CERFA Map Location 2,7**

This parcel is associated with MDRA Parcel 28, which contains open storage area X04. Based on an interview with DDMT personnel, the open storage areas have the potential for hazardous materials to have been released. In addition, this parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 28.2(7)**CERFA Map Location 3,5**

This parcel is associated with Screening Site 89, Building 1089, and the immediate surrounding area. Building 1089 was used to store acids. A groundwater sample from MW-21 detected VOCs and metals (CH2M Hill 1995b, 1995h). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 29.2(7)**CERFA Map Location 4,18**

This parcel is associated with MDRA Parcel 29, which contains open storage areas X27 and X30. Based on an interview with DDMT personnel, the open storage areas have the potential for hazardous materials to have been released. In addition, this parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Additional evaluation is necessary to determine the environmental condition of this parcel.

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In addition, this parcel is associated with a 1.25-gallon hydraulic fluid spill that was reported on September 12, 1995 in the street. The spill reportedly spread north, out Gate 15 and across Dunn Avenue (Defense Logistics Agency, DDMT 1995c). The precise location of the spill is unknown. Application of absorbent was sufficient to contain the spill, and no further remedial action was deemed necessary.

Parcel Number and Label 29.3(7)**CERFA Map Location 2,11**

This parcel is associated with Screening Site 56, the west stormwater drainage canal that collects the stormwater runoff from the PCP tank area and the western portion of the main installation. Surface water samples SW-2 and SW-14 have detected 2-butanone and metals (CH2M Hill 1995b). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 30.1(7)**CERFA Map Location 4,14**

This parcel is associated with Building 925, a special purpose warehouse. An interview revealed that prior to the construction of this building, the area was used for drum storage. At first, drums were stored within an earthen berm, but this was replaced with a concrete berm. A visual inspection noted that this building is currently used for drum storage of flammable and hazardous materials. Stored materials included acetone, methyl ethyl ketone, methanol, and ethanol. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 30.2(7)**CERFA Map Location 4,13**

This parcel is associated with proposed NFA Site 53, a spill between Buildings 925 and P949 of 325 gallons of flammable solvents. The spill occurred on January 19, 1988. The material associated with the spill was removed. However, additional evaluation is necessary to determine the environmental condition of this parcel.

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This parcel is associated with MDRA Parcel 30, which contains open storage area X23. Based on an interview with DDMT personnel, the open storage areas have the potential for hazardous materials to have been released. In addition, this parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 30.4(7)**CERFA Map Location 4,11**

This parcel is associated with Building P949, which stores hazardous materials. An interview revealed that this building was fumigated. No data exists to determine the impact of the fumigation. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 30.5(7)**CERFA Map Location 4,10**

This parcel is associated with Screening Site 83, which is adjacent to the south side of Building P949. This location was apparently used for outside spray painting and sand blasting, and some dried paint residues remain. Surface soil sample SS-20 detected metals, pesticides, VOCs, and SVOCs (CH2M Hill 1995h). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 31.1(7)**CERFA Map Location 6,13**

This parcel is associated with MDRA Parcel 31, which contains open storage areas X17, X19, X20, and X21. Based on an interview with DDMT personnel, the open storage areas have the potential for hazardous materials to have been released. In addition, this parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Additional evaluation is necessary to determine the environmental condition of this parcel.

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Parcel Number and Label 32.1(7)**CERFA Map Location 9,14**

This parcel is associated with MDRA Parcel 32, which contains open storage areas X02, X13, and X15. Based on an interview with DDMT personnel, the open storage areas have the potential for hazardous materials to have been released. In addition, this parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 32.2(7)**CERFA Map Location 9,13**

This parcel is associated with Building 835. Thirteen spills were reported inside Building 835 from March 9, 1991 to May 26, 1995. Materials spilled include battery acid, hydrochloric acid, sulfuric acid, herbicide, muriatic acid, and transmission fluid. These releases were not of sufficient quantity to warrant a removal or remedial action. A spill of lube oil and engine oil was reported on August 23, 1993 outside Building 835. The actual location, the action taken, and the quantity of the spill are unknown. This building was fumigated. No data exist to determine the impact of the fumigation (Defense Logistics Agency, DDMT 1992, 1993c, 1995c). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 32.3(7)**CERFA Map Location 9,10**

This parcel is associated with Screening Site 28, Building 865, the Recoup Area Building, which is a hazardous materials and waste handling area used to transfer materials from damaged or leaking containers into undamaged containers. The site includes the entire building. No previous sampling has been performed for the site. A small fenced-in area is located on the southwest side of Building 865. This area contained various drums (5- 10- 15- and 55-gallon) of old chemicals (oil, methyl ethyl ketone, isopropanol), some with protruding rusting tops (CH2M Hill 1995h). Additional evaluation is necessary to determine the environmental condition of this parcel.

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This parcel is associated with Screening Site 81, Building 765, which contains a fuel oil AST. No previous sampling has been performed for the site (CH2M Hill 1995h). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 33.8(7)**CERFA Map Location 10,10**

This parcel is associated with Building S863. The EBS visual inspection noted considerable oil stains on the concrete floor of Building S863. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 33.9(7)**CERFA Map Location 12,14**

This parcel is associated with Screening Sites 42, 43, 46, and 80, which include storage areas X05, X06, X07, X08, X10, X11, and X12. These areas formerly contained drums with flammable contents. The PCP dip vat (Site 42) and UST (Site 43) near Building 737 were remediated. Building 737 is currently used for storing and mixing pesticides. The former PCP pallet drying area is Site 46. Building 720 (Site 80) was used for dispensing fuel and cleaners. Surface soil sample SS-24 detected VOCs, PAHs, DDT, and metals. Soil boring STB-4 detected 2-butanone (CH2M Hill 1995b, 1995h). Additional evaluation is necessary to determine the environmental condition of this parcel.

In addition, this parcel is associated with a 12,000-gallon diesel AST that is located at Building 720 (Facilities Engineering Division, DDMT 1993; CH2M Hill 1995h). This parcel is also associated with a 1,000-gallon diesel fuel tank that was located outside of Building 756, but was removed in July 1994 (The Pickering Firm, Incorporated 1993d). There have been no documented releases associated with these tanks, and no evidence was found of disposal, or migration from an adjacent property of hazardous substances or petroleum products.

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SECTION FIVE**ENVIRONMENTAL CONDITION OF THE PROPERTY AREA**Parcel Number and Label 34.2(7)**CERFA Map Location 24,7**

This parcel is associated with MDRA Parcel 34. This parcel contains storage facilities. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. This parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 35.1(7)**CERFA Map Location 3,3**

This parcel is associated with Building S1090, a paint storage igloo. The EBS visual inspection documented the storage of paint thinner, lubricating oil, P-19 preservation oil, and corrosion preservation compound inside this building. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 35.2(7)**CERFA Map Location 3,5**

This parcel is associated with three proposed Early Removal Sites: Site 88 is an old concrete grease rack and storage area for POL located at former Building 1085; Site 29 was a UST associated with the grease rack that was removed in 1988; Site 87 (Building 1084) was once used for storage of DDT and other pesticides (CH2M Hill 1995T). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 35.3(7)**CERFA Map Location 3,5**

This parcel is associated with proposed NFA Site 30 at Building 1086, which was used to store hazardous materials from 1959 through 1983 and 1984. This building is currently a spray paint booth. The EBS visual inspection noted that this building has a sump. Additional evaluation is necessary to determine the environmental condition of this parcel.

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SECTION FIVE **ENVIRONMENTAL CONDITION OF THE PROPERTY AREA**

Parcel Number and Label 35.4(7)

CERFA Map Location 3,3

This parcel is associated with RI Site 32, which is next to Building 1088 and Screening Sites 31 and 33. Building 1087 (Screening Site 31) is the former location of a spray paint booth used to conduct major stock primer and enamel spray painting operations. Screening Site 33 is an open-sided, metal roof shed with a gravel floor. It is located adjacent to Building 1088, which was historically used to store 55-gallon drums containing spent sandblasting material. Surface soil samples detected toluene, PAHs, pesticides, PCBs, metals, and VOCs. Groundwater sample from MW-22 detected VOCs, SVOCs, and metals (CH2M Hill 1995d, 1995h). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 35.5(7)

CERFA Map Location 2,2

This parcel is associated with MDRA Parcel 35. This parcel contains storage facilities and shops. Based on an interview with DDMT personnel, the surface soil surrounding buildings at the installation has the potential for pesticide contamination. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 36.1(7)

CERFA Map Location 30,9

This parcel is associated with proposed Early Removal Site 2. A 7-pound jug of ammonia hydroxide and a 1-gallon bottle of acetic acid were buried at this location. Existing data are not adequate to assess if a release has occurred (CH2M Hill 1995j). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 36.2(7)

CERFA Map Location 30,9

This parcel is associated with proposed Early Removal Site 3. Three thousand quarts of unknown chemicals and five cubic feet of orthotoluidine dihydrochloride are buried here. Existing data are not adequate to assess if a release has occurred (CH2M Hill 1995j). Additional evaluation is necessary to determine the environmental condition of this parcel.

SECTION FIVE**ENVIRONMENTAL CONDITION OF THE PROPERTY AREA****Parcel Number and Label 36.3(7)****CERFA Map Location 30,9**

This parcel is associated with proposed Early Removal Sites 4 and 4.1. Forty-five 55-gallon drums of discarded oil, grease, paints, and thinner are buried in these two adjacent trenches. Existing data are not adequate to assess if a release has occurred (CH2M Hill 1995j). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 36.4(7)**CERFA Map Location 30,9**

This parcel is associated with proposed Early Removal Site 5. Three cubic feet of methyl bromide are buried in an unidentified container or containers. Existing data are not adequate to assess if a release has occurred (CH2M Hill 1995j). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 36.5(7)**CERFA Map Location 30,8**

This parcel is associated with proposed Early Removal Site 7. Approximately 1,700 quart bottles of nitric acid are buried here. Existing data are not adequate to assess if a release has occurred (CH2M Hill 1995j). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 36.6(7)**CERFA Map Location 30,8**

This parcel is associated with proposed Early Removal Site 8. Approximately 3,768 one-gallon cans of methyl bromide are buried at a depth of approximately seven feet. Existing data are not adequate to assess if a release has occurred (CH2M Hill 1995j). Additional evaluation is necessary to determine the environmental condition of this parcel.

SECTION FIVE**ENVIRONMENTAL CONDITION OF THE PROPERTY AREA****Parcel Number and Label 36.7(7)****CERFA Map Location 31,9**

This parcel is associated with proposed Early Removal Site 11. Eleven gallons, in 1,433 one-ounce bottles, of trichloroacetic acid are buried at a depth of approximately six feet. Existing data are not adequate to assess if a release has occurred (CH2M Hill 1995j). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 36.8(7)**CERFA Map Location 27,8**

This parcel is associated with proposed Early Removal Site 12 and 12.1. Thirty pallets of discarded acid containers are buried in three locations to a depth of approximately eight feet. Existing data are not adequate to assess if a release has occurred (CH2M Hill 1995j). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 36.9(7)**CERFA Map Location 28,8**

This parcel is associated with proposed Early Removal Site 13. Approximately 32 cubic yards of mixed chemicals and acids and 8,100 pounds of unnamed solids were buried at a depth of approximately eight feet. Existing data are not adequate to assess if a release has occurred (CH2M Hill 1995j). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 36.10(7)**CERFA Map Location 28,8**

This parcel is associated with proposed Early Removal Sites 16 and 16.1. Unknown amounts of unnamed acid were buried at these sites. Existing data are not adequate to assess if a release has occurred (CH2M Hill 1995j). Additional evaluation is necessary to determine the environmental condition of this parcel.

SECTION FIVE**ENVIRONMENTAL CONDITION OF THE PROPERTY AREA****Parcel Number and Label 36.11(7)****CERFA Map Location 28,8**

This parcel is associated with proposed Early Removal Site 17. An unknown amount of chemicals and medical supplies were buried at this site. Existing data are not adequate to assess if a release has occurred (CH2M Hill 1995j). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 36.12(7)**CERFA Map Location 23,11**

This parcel is associated with proposed Early Removal Site 62. It contains one above-grade bauxite pile. Existing data are not adequate to assess if a release has occurred (CH2M Hill 1995I). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 36.13(7)**CERFA Map Location 27,11**

This parcel is associated with proposed Early Removal Site 62. It contains two above-grade bauxite piles. Existing data are not adequate to assess if a release has occurred (CH2M Hill 1995I). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 36.14(7)**CERFA Map Location 31,11**

This parcel is associated with proposed Early Removal Sites 60 and 85. Early Removal Site 60 is a former pistol range and impact area, and Early Removal Site 85 is Building 1184. Building 1184 was previously used as a range shed and is now used for temporary pesticide storage. Existing data are not adequate to assess if a release has occurred (CH2M Hill 1995I). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 36.15(7)**CERFA Map Location 29,10**

This parcel is associated with the fluvial aquifer groundwater contamination identified at Dunn Field. An IRA addressing the contamination has been proposed (CH2M Hill 1995g). In addition,

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FINAL ENVIRONMENTAL CONDITION OF THE PROPERTY AREA

this parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 36.16(7)

CERFA Map Location 29,9

This parcel is associated with CWMP Site 1. Nine sets of CAIS (containing mustard gas and lewisite) were buried at this site. Existing data is not adequate to assess if a release has occurred (CH2M Hill 1995c). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 36.17(7)

CERFA Map Location 30,9

This parcel is associated with CWMP Site 9. Ashes and metals from the former burn site, Screening Site 64, were buried here. Existing data are not adequate to assess if a release has occurred (CH2M Hill 1995c). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 36.18(7)

CERFA Map Location 28,9

This parcel is associated with a portion of CWMP Site 86. Food items with expired shelf life and, reportedly, CAIS sets were buried here. Existing data are not adequate to assess if a release has occurred (CH2M Hill 1995c). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 36.19(7)

CERFA Map Location 28,9

This parcel is associated with a portion of CWMP Site 86. Food items with expired shelf life and, reportedly, CAIS sets were buried here. Existing data are not adequate to assess if a release has occurred (CH2M Hill 1995c). Additional evaluation is necessary to determine the environmental condition of this parcel.

SECTION FIVE**ENVIRONMENTAL CONDITION OF THE PROPERTY AREA****Parcel Number and Label 36.20(7)****CERFA Map Location 31,9**

This parcel is associated with RI Site 6. There were 40,037 units of eye ointment buried here in 1955. No data exist to assess if a release has occurred (CH2M Hill 1995c). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 36.21(7)**CERFA Map Location 30,8**

This parcel is associated with RI Site 10. This site was discovered during the installation of monitoring well 10. Charred debris was encountered. No data exist to assess the materials buried at the site or if a release has occurred (CH2M Hill 1995c). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 36.22(7)**CERFA Map Location 28,8**

This parcel is associated with RI Site 14. This is a municipal waste burial site that reportedly contains paper, food, and other unnamed materials. No data exist to assess if a release has occurred (CH2M Hill 1995c). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 36.23(7)**CERFA Map Location 28,8**

This parcel is associated with RI Sites 15, 15.1, and 15.2. Records indicate that one pallet each of sodium and sodium phosphate containers, and an unknown quantity of sodium, sodium phosphate, acid, chlorinated lime, and medical supplies were buried here in 1970. No data exist to assess if a release has occurred (CH2M Hill 1995c). Additional evaluation is necessary to determine the environmental condition of this parcel.

SECTION FIVE**ENVIRONMENTAL CONDITION OF THE PROPERTY AREA****Parcel Number and Label 36.24(7)****CERFA Map Location 28,11**

This parcel is associated with Screening Site 19. This site was used for the disposal of sanitary wastes, construction debris, smoke pots, and tear gas canisters from 1955 to 1960. No sampling data have been collected for this site (A.T. Kearney, Inc. 1990). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 36.25(7)**CERFA Map Location 30,10**

This parcel is associated with Screening Site 20. Reportedly, asphalt and roofing gravel were dumped in a surface fill at this location until 1981 when the debris was removed. Existing data are not adequate to assess if a release has occurred (A.T. Kearney, Inc. 1990). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 36.26(7)**CERFA Map Location 31,13**

This parcel is associated with Screening Site 21. It is reported that XXCC-3 impregnate is buried here in two trenches with unknown depths. No data exist to assess if a release has occurred (A.T. Kearney, Inc. 1990). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 36.27(7)**CERFA Map Location 31,12**

This parcel is associated with Screening Site 50. This site has a concrete-lined drainage ditch that collects stormwater runoff from surrounding areas. Surface water samples have been collected (during stormwater runoff); however, not enough data exist to assess the impact from this site (A.T. Kearney, Inc. 1990). Additional evaluation is necessary to determine the environmental condition of this parcel.

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SECTION FIVE**ENVIRONMENTAL CONDITION OF THE PROPERTY AREA****Parcel Number and Label 36.28(7)****CERFA Map Location 30,9**

This parcel is associated with Screening Site 61. This site is a drain that was installed in the mid-1950s and is used for stormwater conveyance. No data exist to assess if a release has occurred (A.T. Kearney, Inc. 1990).

Parcel Number and Label 36.29(7)**CERFA Map Location 23,9**

This parcel is associated with CWMP Site 24 and Screening Site 64. This area is a current fluorspar storage area that historically was a bauxite storage area, and mustard gas, smoke pot, CN grenades, and ordnance burn area (1946). No data exist to assess if a release has occurred (A.T. Kearney, Inc. 1990; CH2M Hill 1995c). Additional evaluation is necessary to determine the environmental condition of this parcel.

Parcel Number and Label 36.30(7)**CERFA Map Location 28,12**

This parcel is associated with Dunn Field, excluding the areas that were previously parcelized. This parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. No sampling has been performed in this area to confirm the absence of contamination. Additional evaluation is necessary to determine the environmental condition of this parcel.

5.1.8 Qualified Parcels

In determining the qualified parcels, Woodward-Clyde observed the following guidelines:

- If a complete asbestos survey has not been conducted, then buildings constructed prior to 1985 were assumed to contain ACM. An "A(P)" for the possible presence of asbestos was used to qualify the parcel.

SECTION FIVE**ENVIRONMENTAL CONDITION OF THE PROPERTY AREA**

- If a complete LBP survey has not been conducted, then buildings constructed prior to 1978 were assumed to contain LBP. An "L(P)" for the possible presence of LBP was used to qualify the parcel.
- Parcels were qualified for ACM, LBP, PCBs, radon, and radionuclides based on information gathered through records reviews, interviews, and visual inspections.
- Areas used as firing ranges and impact areas have the potential to contain UXO and ammunition components (e.g., metal casings from small arms). An "X(P)" for the possible presence of UXO and ammunition components was used to qualify these areas.

There are 138 parcels, totaling approximately 188 acres, that were identified as qualified parcels as described in Table 5-1b. When a qualified parcel is associated with a building/facility, the acreage presented corresponds to the "footprint" of the building/facility. The qualified parcels are labeled as follows on Table 5-1b:

Parcel - Building Number or Area Q - Qualifier

For example, 1.1-1Q-A/L(P) represents parcel 1.1, Building 1, and asbestos and possible LBP qualifier. These labels are not in Figures 5-1 and 5-2; however, the coordinates of the qualified parcels on these figures is provided in Table 5-1b.

Table 5-1a
PARCEL DESCRIPTIONS
DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE

| PARCEL NUMBER AND LABEL | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EBS SOURCE OF EVIDENCE | REMEDIALATION/ MITIGATION |
|-------------------------------|-------------------------------|-----------------------------|---------------|--|--|---------------------------|------------------------------|
| 1.1(1) | 32,10 | 0.01 | Gate 1 | 1 | This parcel is associated with Gate 1. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |
| 1.2(1) | 32,13 | 0.01 | Gate 2 | 1 | This parcel is associated with Gate 2. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |
| 1.3(1) | Building not on Figure 5-1 | <0.01 | Building 129 | 1 | This parcel is associated with Building 129. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |
| 1.4(1) | Building not on Figure 5-1 | <0.01 | Building 139 | 1 | This parcel is associated with Building 139. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |
| 1.5(1) | 34,12 | 0.31 | Building 144 | 1 | This parcel is associated with Building 144. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |
| 1.6(1) | Building not on Figure 5-1 | 0.02 | Building S145 | 1 | This parcel is associated with Building S145. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |

Table 5-1a
(Continued)

| PARCEL NUMBER AND LABEL | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | CRISIS | EBB SOURCE OF EVIDENCE | REMEDIAL MITIGATION |
|-------------------------------|-------------------------------|-----------------------------|---|--|---|---------------------------|---|
| 1.7(1) | Building not on Figure 5-1 | <0.01 | Building 155 | 1 | This parcel is associated with Building 155. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |
| 1.8(7) | 33.12 | 15.2 | Buildings 143, 146, 147, and surrounding area | 7 | This parcel is associated with MDRA Parcel 1. Both the North and South Parking Lots in this parcel are the location of former housing units. These housing units were demolished and the potential impacts from these units are unknown. Additionally, based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. A 4-gallon motor oil spill was reported on March 22, 1995 for the Gate 1 parking lot. In addition, a diesel spill was reported on October 28, 1993 in the street at Gate 1. The precise location of the spills are unknown. | Interview, 14, 16 | This parcel requires additional evaluation. |
| 2.1(1) | 34.6 | 0.11 | Building 176 | 1 | This parcel is associated with Building 176. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |
| 2.2(1) | Building not on Figure 5-1 | 0.03 | Building S178 | 1 | This parcel is associated with Building S178. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |
| 2.3(1) | 34.5 | 0.11 | Building 179 | 1 | This parcel is associated with Building 179. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |

| PARCEL NUMBER AND LABEL | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EBS SOURCE OF EVIDENCE | REMEDIAL ACTION/ MITIGATION |
|-------------------------|----------------------------|--------------------------|---|---|---|------------------------|---|
| 2.4(1) | 34,5 | 0.11 | Building 181 | 1 | This parcel is associated with Building 181. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |
| 2.5(1) | Building not on Figure 5-1 | 0.11 | Building 183 | 1 | This parcel is associated with Building 183. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |
| 2.6(1) | 34,4 | 0.11 | Building 184 | 1 | This parcel is associated with Building 184. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |
| 2.7(7) | 33,6 | 1.8 | Area surrounding buildings in MDRA Parcel 2 | 7 | This parcel is associated with MDRA Parcel 2. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. | Interview | This parcel requires additional evaluation. |
| 3.1(1) | 32,2 | 0.01 | Building 193 | 1 | This parcel is associated with Building 193. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |
| 3.2(1) | 31,2 | 0.10 | Building 195 | 1 | This parcel is associated with Building 195. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |
| 3.3(1) | 31,2 | 0.07 | Building 196 | 1 | This parcel is associated with Building 196. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |

Table S-1a
(Continued)

| PARCEL NUMBER AND LABEL | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EBB SOURCE OF EVIDENCE | REMEDIAL MITIGATION |
|-------------------------------|-------------------------------|-----------------------------|--|--|---|---------------------------|---|
| 3.4(1) | 31,2 | 0.01 | Building 198 | 1 | This parcel is associated with Building 198. There has been no documented storage of hazardous substances or petroleum products, nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |
| 3.5(7) | 29,4 | 36.3 | Buildings 188, 189, 192, 194, 197, and area surrounding buildings in MDRA Parcel 3 | 7 | This parcel is associated with MDRA Parcel 3. Based on an interview with DDMT personnel, the surface soil in the Golf Course Area has the potential for pesticide contamination. | Interview | This parcel requires additional evaluation. |
| 3.6(7) | 26,6 | 3.4 | Lake Danielson | 7 | Lake Danielson is located in the northwest corner of the Golf Course and receives stormwater runoff from the central portion of DDMT. Surface water samples detected DDT and sediment samples detected chlordane and metals. | 8 | RJ Site 26 (Lake Danielson) - Additional surface water sampling proposed to determine the source of sediment contamination. |
| 3.7(7) | 26,4 | 0.30 | Lake Danielson Outlet Ditch | 7 | Lake Danielson outlet ditch receives stormwater flow from surrounding areas and intermittent flow from the lake. Surface water samples SW-9 and SW-12 detected pesticides and metals. Groundwater sample from MW-25 detected VOCs and metals. | 11 | Screening Site S1 - Surface and subsurface soil sampling proposed to evaluate the presence of a contaminant release, and surface water and sediment sampling proposed to evaluate the presence of surface water and sediment contamination. |
| 3.8(7) | 32,5 | 0.23 | Golf Course Pond | 7 | Golf Course Pond receives surface water runoff from the golf course and southeast portion of the installation. Sediment samples detected metals, DDT, and pesticides. | 8 | RJ Site 25 (Golf Course Pond) - Additional surface water sampling proposed to determine the source of sediment contamination. |

Table S-1a
(Continued)

| PARCEL NUMBER AND LABEL | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EB9 SOURCE OF EVIDENCE | REMEDIAL ACTION/ MITIGATION |
|-------------------------------|-------------------------------|-----------------------------|----------------------------------|--|---|---------------------------|--|
| 3.9(7) | 30,3 | 0.19 | Golf Course Pond Outlet Ditch | 7 | Golf Course Pond outlet ditch receives stormwater flow from surrounding areas and intermittent flow from the pond. Surface water samples SW-10 and SW-11 detected pesticides and metals. Surface soil sample SS-13 detected PAHs. | 11 | Screening Site 52 - Surface and subsurface soil sampling proposed to evaluate the presence of a contaminant release, and surface water and sediment sampling proposed to evaluate the presence of surface water and sediment contamination. |
| 3.10(7) | 30,6 | 0.25 | 9th Hole, Golf Course | 7 | A 1947 installation map shows a pistol range directly behind where Building 271 now stands, near the 9th hole of the golf course. | 3, 20 | This parcel requires additional evaluation. |
| 3.11(7) | 30,6 | 0.77 | Area within Golf Course | 7 | This area is within the Golf Course and was used to test flamethrower fuels. Firefighting techniques were also practiced at this site after ignition of the fuel. No previous sampling for this site. | 5, 11 | Screening Site 69 - Surface soil sampling proposed to evaluate the presence of a contaminant release. |
| 4.1(1) | 30,10 | 0.19 | Building 252 | 1 | This parcel is associated with Building 252. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |
| 4.2(1) | 31,7 | 0.33 | Building 270 | 1 | This parcel is associated with Building 270. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |
| 4.3(1) | 31,7 | 0.03 | Building 271 | 1 | This parcel is associated with Building 271. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |

Table 5-1a
(Continued)

| PARCEL NUMBER AND LABEL | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EDS SOURCE OF EVIDENCE | REMEDIAL ACTION/ MITIGATION |
|-------------------------------|-------------------------------|-----------------------------|---|--|--|-------------------------------|---|
| 4.4(3)PS/PR/RS/HR | 30,9 | 0.15 | Building 260 | 3 | Satellite drum accumulation area and Safety Kleen unit at Building 260. The RCRA Facility Assessment visual inspection noted staining on the floor in the sign shop of this building. | 1, 5 | Proposed NFA Sites 30 and 41 |
| 4.5(7) | 30,8 | 3.2 | Buildings T256, T261, and area surrounding buildings in MDRA Parcel 4 | 7 | This parcel is associated with MDRA Parcel 4. Based on an interview with DDMT personnel, the surface soil surrounding buildings at the installation has the potential for pesticide contamination. Two 12,000-gallon and one 20,000-gallon gasoline USTs were removed in 1986 south of Building 257. These tanks were replaced by one 18,000-gallon and one 20,000-gallon gasoline USTs. A 5,000-gallon heating oil tank was removed in July 1994 outside of Building 253. | Interview, 18, 25 | This parcel requires additional evaluation. |
| 4.6(7) | 29,9 | 0.25 | Building 254 | 7 | Leaking drums and ground staining observed inside Building 254 during a visual inspection. In addition, a 5-gallon diesel spill was reported on March 20, 1995 from a tank outside the southwest corner of Building 254. A 1,110-gallon gasoline tank was removed December 1989 outside of this building. The EDS visual inspection noted that POLs and antifreeze are stored in this building. | Visual Inspection, 15, 18, 25 | Absorbent was applied to the spill. |

Table 5-1a
(Continued)

| PARCEL NUMBER AND LABEL | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EBS SOURCE OF EVIDENCE | REMEDIATION/ MITIGATION |
|-------------------------------|-------------------------------|-----------------------------|--------------|--|--|--|---|
| 4.7(7) | 28,10 | 0.25 | Building 257 | 7 | <ul style="list-style-type: none"> Building 257 was fumigated. No data exist to determine the impact of fumigation. Several spills are reported for this building, including: one 2-gallon gasoline spill reported on April 20, 1990 outside of Building 257; leaking tank at gasoline station reported on August 11, 1993; and gasoline release from tank pressure tube reported on August 31, 1993. In addition, fuel dispensing and storage have been ongoing at Building 257 since 1942 (two 1,000-gallon gasoline ASTs are located at this building and a 2,580-gallon gasoline tank was removed December 1989). Surface soil sample SS-25 detected PAHs, dieldrin, and metals. | Visual Inspection, Interview, 11, 17 | Screening Site 67 - Additional surface and subsurface soil sampling proposed to evaluate the presence of a contaminant release. Contaminated soil from the spills was excavated and disposed. |
| 4.8(7) | 30,9 | 0.02 | Building 263 | 7 | Building 263 has been used as attendant room for the dispensing of PQL to vehicles since the 1940s. No previous sampling for this site. In addition, this building was fumigated. No data exist to determine the impact of the fumigation. | 11 | Screening Site 68 - Surface and subsurface soil sampling proposed to evaluate the presence of a contaminant release. |
| 4.9(7) | 29,8 | 1.4 | Pad 267 | 7 | Pad 267 is a concrete slab, the site of the former pesticide shop (Building T-267). This building was used for storage/mixing of pesticides/herbicides. Rinse water from pesticide/herbicide spraying operation was reportedly dumped on the ground near the facility. No previous sampling for this site. | 8 | RI Site 58 (Pad 267) - Surface soil samples proposed to assess the presence of soil contamination. |
| 4.10(7) | 31,2 | 0.26 | Building 273 | 7 | Building 273 was used for mixing golf course pesticides and herbicides. Surface soil samples (SS-37 and SS-50) detected VOCs, PAHs, and pesticides. | 8 | RI Site 59 (Building 273) - Additional surface soil and subsurface soil sampling proposed to assess the vertical and horizontal extent of soil contamination. |

Table 5-1a
(Continued)

| PARCEL NUMBER AND LABEL | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EBS SOURCE OF EVIDENCE | REMEDIAL MITIGATION |
|-------------------------------|-------------------------------|-----------------------------|---|--|---|----------------------------------|---|
| 4.11(7) | 29,9 | 0.22 | Building 253 | 7 | Storage of petroleum products (55-gallon drums of hydraulic oil), antifreeze, and a Safety Kleen unit at Building 253. No previous sampling for this site. In addition, this building was fumigated. No data exist to determine the impact of the fumigation. This building has a floor drain that is connected to a sump. | Visual Inspection, Interview, 11 | Screening Site 66 - Surface soil sampling proposed to evaluate the presence of a contaminant release. Proposed NFA Site 40 - Safety Kleen unit only. |
| 4.12(7) | 31,10 | 0.18 | Building 251 | 7 | Building 251 has a sump/waste oil tank located in the building. No previous sampling for this site. | Visual Inspection | This parcel requires additional evaluation. |
| 4.13(7) | 31,8 | 0.18 | Building 265 | 7 | Building 265 has a floor drain that is connected to the sanitary sewer. No previous sampling for this site. | Visual Inspection | This parcel requires additional evaluation. |
| 5.1(7) | 29,7 | 0.49 | Building 1272 and area surrounding buildings in MDRA Parcel 5 | 7 | This parcel is associated with MDRA Parcel 5. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. | Interview | This parcel requires additional evaluation. |
| 5.2(7) | 29,7 | 1.5 | Building 274 and area surrounding the building | 7 | This site is the former PCB Transformer Area including Building 274 (was constructed after transformer storage ceased). Soil samples detected PAHs and DDT (and breakdown products). Groundwater sample in MW-26 detected tetrachloroethane and carbon tetrachloride. | 5, 8, Interview | RI Site 48 (Former PCB Transformer Area) - Additional surface soil and groundwater sampling proposed to assess the horizontal extent of potential soil contamination. |
| 6.1(7) | 28,11 | 4.4 | Area surrounding buildings in MDRA Parcel 6 | 7 | This parcel is associated with MDRA Parcel 6. This parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. | Interview | This parcel requires additional evaluation. |
| 6.2(7) | 29,11 | 2.8 | Building 250 | 7 | Potential contamination due to acid leaks from batteries in the fork lift area at Building 250. Staining observed. This building may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. | Visual Inspection | This parcel requires additional evaluation. |

Table 5-1a
(Continued)

| PARCEL NUMBER AND LABEL | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EBS SOURCE OF EVIDENCE | REMEDIAL MITIGATION |
|-------------------------------|-------------------------------|-----------------------------|---|--|--|------------------------------|--|
| 6.3(7) | 27,12 | 2.8 | Building 349 | 7 | Building 349 may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. | Interview | This parcel requires additional evaluation. |
| 6.4(7) | 26,11 | 2.8 | Building 350 | 7 | Potential contamination due to acid leaks from batteries in the fork lift area at Building 350. Staining observed. This building may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. | Visual Inspection, Interview | This parcel requires additional evaluation. |
| 7.1(7) | 29,13 | 1.5 | Area surrounding buildings in MDRA Parcel 7 | 7 | This parcel is associated with MDRA Parcel 7. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. | Interview | This parcel requires additional evaluation. |
| 7.2(7) | 29,12 | 2.8 | Building 249 | 7 | <ul style="list-style-type: none"> Building 249 was formerly used as a storage facility for clothing treated with impregnate (XXCC-3), a chemical used as a preventive to the effects of chemical warfare agents on skin. No previous sampling for this site. A battery acid spill was reported on April 15, 1993 at Building 249, north dock. The precise location of the spill is unknown. This building may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. | 11, 14 | Screening Site 65 - Surface and subsurface soil sampling proposed to evaluate the presence of a contaminant release. Action taken and quantity of spill unknown. |
| 8.1(7) | 28,14 | 6.4 | Area surrounding buildings in MDRA Parcel 8 | 7 | This parcel is associated with MDRA Parcel 8. This parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. | Interview | This parcel requires additional evaluation. |
| 8.2(7) | 29,15 | 2.8 | Building 229 | 7 | Building 229 may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. | Interview | This parcel requires additional evaluation. |

Table 5-1a
(Continued)

| PARCEL NUMBER AND LABEL | LOCATION (X,Y; COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EBS SOURCE OF EVIDENCE | REMEDIAL MITIGATION |
|-------------------------------|--------------------------------|-----------------------------|---|--|---|------------------------------|---|
| 8.3(7) | 29,14 | 2.8 | Building 230 | 7 | Building 230 may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. | Interview | This parcel requires additional evaluation. |
| 8.4(7) | 26,15 | 2.8 | Building 329 | 7 | Building 329 may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. | Interview | This parcel requires additional evaluation. |
| 8.5(7) | 26,13 | 2.8 | Building 330 | 7 | Building 330 may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. | Interview | This parcel requires additional evaluation. |
| 9.1(7) | 23,13 | 6.3 | Area surrounding buildings in MDRA Parcel 9 | 7 | This parcel is associated with MDRA Parcel 9. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. | Interview | This parcel requires additional evaluation. |
| 9.2(7) | 23,15 | 2.8 | Building 429 | 7 | Building 429 may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. | Interview | This parcel requires additional evaluation. |
| 9.3(7) | 23,13 | 2.8 | Building 430 | 7 | Potential contamination due to acid leaks from batteries in the fork lift area at Building 430. Staining observed. This building may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. | Visual Inspection, Interview | This parcel requires additional evaluation. |
| 9.4(7) | 23,12 | 2.8 | Building 449 | 7 | Building 449 may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. | Interview | This parcel requires additional evaluation. |
| 9.5(7) | 23,11 | 2.8 | Building 450 | 7 | Building 450 may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. | Interview | This parcel requires additional evaluation. |
| 10.1(3)HR | 16,12 | 2.8 | Building 649 | 3 | A 1-gallon hydraulic fluid spill was reported on August 11, 1995 inside Building 649, Section 5. In addition, leaking containers of paint/tube oil/insecticide/and other oil were reported on May 16, 1990 outside Building 649. The precise location of these spills is unknown. | 16, 17 | Absorbent was applied to the spills. |

Table 5-1a
(Continued)

| PARCEL NUMBER AND LABEL | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EBB SOURCE OF EVIDENCE | REMEDATION/ MITIGATION |
|-------------------------------|-------------------------------|-----------------------------|--|--|--|------------------------------------|---|
| 10.2(7) | 18,11 | 8.7 | Area surrounding buildings in MDRA Parcel 10 | 7 | This parcel is associated with MDRA Parcel 10. This parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. | Interview | This parcel requires additional evaluation. |
| 10.3(7) | 17,10 | 0.25 | Between Buildings 550 and 650 | 7 | A battery acid and hydraulic fluid spill were reported on March 18, 1993 between Buildings 550 and 650. The precise location of the spill is unknown. | 14 | Action taken and quantity of spill unknown. |
| 10.4(7) | 20,12 | 2.8 | Building 549 | 7 | Potential fumigation contamination at Building 549. The west side of the building contains a fumigation chamber. | Visual Inspection, Interview | This parcel requires additional evaluation. |
| 10.5(7) | 19,11 | 2.8 | Building 550 | 7 | Potential contamination due to acid leaks from batteries in the fork lift area at Building 550. Staining observed. This building may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. | Visual Inspection, Interview | This parcel requires additional evaluation. |
| 10.6(7) | 17,11 | 2.8 | Building 650 | 7 | Building 650 may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. | Interview | This parcel requires additional evaluation. |
| 11.1(7) | 18,14 | 4.6 | Area surrounding buildings in MDRA Parcel 11 | 7 | This parcel is associated with MDRA Parcel 11. This parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. | Interview | This parcel requires additional evaluation. |

Table 5-1a
(Continued)

| PARCEL NUMBER AND LABEL | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EBS SOURCE OF EVIDENCE | REMEDIAL ACTION/ MITIGATION |
|-------------------------------|-------------------------------|-----------------------------|--|--|--|---------------------------|--|
| 11.2(7) | 19,15 | 2.8 | Building 529 | 7 | <ul style="list-style-type: none"> Potential contamination due to acid leaks from batteries in the fork lift area at Building 529. Staining observed. Antifreeze, firefighting foam, and photographic chemicals stored in the west end of the building. This building may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. | Visual inspection | This parcel requires additional evaluation. |
| 11.3(7) | 20,14 | 2.8 | Building 530 | 7 | Building 530 may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. | Interview | This parcel requires additional evaluation. |
| 11.4(7) | 16,13 | 2.8 | Building 630 | 7 | Building 630 may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. | Interview | This parcel requires additional evaluation. |
| 12.1(7) | 17,15 | 1.7 | Area surrounding buildings in MDRA Parcel 12 | 7 | This parcel is associated with MDRA Parcel 12. This parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. | Interview | This parcel requires additional evaluation. |
| 12.2(7) | 16,15 | 2.8 | Building 629 | 7 | <ul style="list-style-type: none"> Former hazardous materials storage building (DDT, herbicides, solvents, oxidizers, and toxic/corrosive materials). A 6-gallon nitric acid spill was reported on April 23, 1990 inside Building 629, Section 1. Past spills include an unknown amount of hydrofluoric acid. SS-10, SS-11, SS-42, and SS-43 detected PAHs, pesticides, VOCs, and metals. This building may have been fumigated. No data exist to determine if the building was fumigated or the impact of fumigation. | 13, 17 | RJ Site 37 (Building 629 spill area) - Additional shallow subsurface soil and groundwater sampling proposed to assess the vertical and horizontal extent of soil contamination. Spill neutralized with sodium bicarbonate. |

Table 5-1a
(Continued)

| PARCEL NUMBER AND LABEL | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EB9 SOURCE OF EVIDENCE | REMEDIAL MITIGATION |
|-------------------------------|-------------------------------|-----------------------------|---|--|--|---------------------------------|--|
| 13.1(1) | 33,16 | <0.01 | Gate 23 | 1 | This parcel is associated with Gate 23. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |
| 13.2(1) | Building not on Figure 5-1 | <0.01 | Gate 24 | 1 | This parcel is associated with Gate 24. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |
| 13.3(1) | 32,16 | <0.01 | Gate 25 | 1 | This parcel is associated with Gate 25. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |
| 13.4(2)HS | 31,17 | 5.5 | Building 210 | 2 | Satellite drum accumulation, Building 210. Old photographic developing lab in bay 7 of Building 210. | Visual Inspection, Interview, S | Proposed NFA Site 41. No remediation is necessary. |
| 13.5(7) | 33,16 | 3.9 | Building 211 and area surrounding buildings in MDRA Parcel 13 | 7 | This parcel is associated with MDRA Parcel 13. This parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. | Interview | This parcel requires additional evaluation. |
| 14.1(1) | 27,19 | <0.01 | Gate 22 | 1 | This parcel is associated with Gate 22. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |

Table S-1a
(Continued)

| PARCEL NUMBER AND LABEL | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BAISIS | EBS SOURCE OF EVIDENCE | REMEDIAL/ MITIGATION |
|-------------------------------|-------------------------------|-----------------------------|--|--|---|--|--|
| 14.2(7) | 3,17 | 10.5 | Building S209 and area surrounding buildings in MDRA Parcel 14 | 7 | This parcel is associated with MDRA Parcel 14. This parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. A 12,000-gallon heating oil tank was removed in July 1994 outside of Building 209. | Interview, 25 | This parcel requires additional evaluation. |
| 15.1(1) | 10,18 | <0.01 | Gate 15 | 1 | This parcel is associated with Gate 15. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |
| 15.2(7) | 26,18 | 0.01 | Building S308 | 7 | Hazardous waste and batteries are stored at Building S308. Surface soil sample SS-4 detected PAHs, dieldrin, and metals. | Visual Inspection, Interview, 11 | Screening Site 35 - Additional surface and subsurface soil sampling proposed to evaluate the presence of a contaminant release. |
| 15.3(7) | 26,16 | 0.41 | Building 319 | 7 | Building 319 contains flammables and toxics. No previous sampling for the site. In addition, a xylene spill was reported on November 18, 1991 inside Building 319, Section 4. | Visual Inspection, Interview, 11, 17 | Screening Site 74 - Surface and subsurface soil sampling proposed to evaluate the presence of a contaminant release. Absorbent was applied to the spill. |
| 15.4(7) | 14,18 | 0.28 | Building S702 | 7 | Fuels/miscellaneous liquids stored in the vicinity of Building S702. Site 79 is located adjacent to Building S702. No previous sampling for the site. | Visual Inspection, Interview, 11 | Screening Site 79 - Surface and subsurface soil sampling proposed to evaluate the presence of a contaminant release. |
| 15.5(7) | 23,18 | 3.3 | Area in MDRA Parcel 15 | 7 | Concrete (Site 36) and gravel (Site 37) hazardous waste storage pads, hazardous materials drum storage (Site 38), and lubricant container storage (Site 39). Surface soil sample SS-5 detected PAHs, dieldrin, and metals. | 11 | Screening Sites 36, 37, 38, and 39 - Additional surface and subsurface soil sampling proposed to evaluate the presence of a contaminant release. |

Table 5-1a
(Continued)

| PARCEL NUMBER AND LABEL | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EBS SOURCE OF EVIDENCE | REMEDIAL ACTION/ MITIGATION |
|-------------------------------|-------------------------------|-----------------------------|---|--|--|---|--|
| 15 (67) | 18,17 | 43.8 | Buildings 301, 304, 305, 306, 307, S309, T416, T417, 701, and surrounding areas | 7 | <p>This BRAC parcel is associated with MDRA Parcel 15. This parcel contains open storage areas X09, Y10, and Y50. This parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Historically, waste oil containing PCP was used for dust control in these areas. This parcel also contains the following concerns:</p> <ul style="list-style-type: none"> • DRMO East Stormwater Runoff Canal (Site 54) is a canal that collects the stormwater runoff from the DRMO yard and other DDMT facilities. No previous sampling for the site. • DRMO North Stormwater Runoff Canal (Site 55) is a canal that collects the stormwater runoff from the DRMO yard and other DDMT facilities. No previous sampling for the site. • Waste oil used for dust control at PDO Yard (Site 72). • Surface and subsurface soil and groundwater samples detected metals, pesticides, and methylene chloride. • Spills of dark liquid were observed on the concrete pad (real property 88015) south of Building 702 and west of Building 629. • A 4,000-gallon heating oil tank was removed in July 1994 outside of Building 319. • A 30-gallon spill of solvent was reported on December 2, 1991, south of Building 309. The precise location of the spill is unknown. | Visual Inspection, Interview, 11, 17, 25 | Screening Sites 54, 55, and 72 - Surface soil, subsurface soil, surface water, and sediment sampling proposed to evaluate the presence of a contaminant release. |

Table S-1a
(Continued)

| PARCEL NUMBER AND LABEL | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EBS SOURCE OF EVIDENCE | REMEDIAL MITIGATION |
|-------------------------------|-------------------------------|-----------------------------|--|--|--|---------------------------|---|
| 16.1(7) | 21,9 | 2.8 | Area surrounding buildings in MDRA Parcel 16 | 7 | This parcel is associated with MDRA Parcel 16. This parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. | Interview | This parcel requires additional evaluation. |
| 16.2(7) | 17,10 | 5.5 | Building 559 | 7 | Building 559 may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. | Interview | This parcel requires additional evaluation. |
| 17.1(1) | 22,10 | 0.09 | Building 459 | 1 | This parcel is associated with Building 459. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |
| 17.2(7) | 22,9 | 3.7 | Area surrounding buildings in MDRA Parcel 17 | 7 | This BRAC parcel is associated with MDRA Parcel 17. This parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. A 12,000-gallon and 500-gallon fuel oil tank were closed in place in July 1994 and September 1995, respectively, at Building 359. A 1,000-gallon fuel oil and 500-gallon diesel tank were removed in 1993 at Building 359. A 12,000-gallon and 500-gallon fuel oil tank were removed in 1993 at Building 359. | Interview | This parcel requires additional evaluation. |

Table 5-1a
(Continued)

| PARCEL NUMBER AND LABEL | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EBS SOURCE OF EVIDENCE | REMEDIAL MITIGATION |
|-------------------------------|-------------------------------|-----------------------------|--|--|---|------------------------------|---|
| 17.3(7) | 25.9 | 5.5 | Building 359 | 7 | <ul style="list-style-type: none"> A sulfuric acid spill was reported on August 27, 1993 inside Building 359, Section 2. This building is used for storage of medical waste, sodium chloride, and petroleum products. An out of service incinerator is located in this building. This building was fumigated. No data exist to determine the impact of the fumigation. | Interview, 14 | Proposed NFA Site 49 - Action taken and quantity of spill unknown. |
| 18.1(4)HS/HR | 17.8 | 4.0 | Building 560 | 4 | Building 560 has two drop inlets inside the building that lead to the storm drainage system. In addition, two spills (5 gallons and 15 gallons) of aqueous film forming foam were reported on October 17, 1995 and November 14, 1995 inside Building 560, Section 3. | 16 | The damaged containers were moved to the reclamation facility and absorbent was applied to the spill. |
| 18.2(7) | 19.8 | 2.6 | Area surrounding buildings in MDRA Parcel 18 | 7 | This parcel is associated with MDRA Parcel 18. This parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. | Interview | This parcel requires additional evaluation. |
| 19.1(7) | 21.8 | 2.8 | Buildings T467, S468, and area surrounding buildings in MDRA Parcel 19 | 7 | This parcel is associated with MDRA Parcel 19. This parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. | Interview | This parcel requires additional evaluation. |
| 19.2(7) | 22.7 | 0.01 | Building S465 | 7 | A 1,000-gallon oil/water separator is located at Building S465. Petroleum products are stored at Building S465. In addition, this building contains a vehicle wash. | Visual Inspection, Interview | This parcel requires additional evaluation. |

Table 5-1a
(Continued)

| PARCEL NUMBER AND LABEL | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EBS SOURCE OF EVIDENCE | REMEDIAL MITIGATION |
|-------------------------|----------------------------|--------------------------|--|---|---|------------------------------|---|
| 19.3(7) | 22.8 | 0.22 | Building 5469 | 7 | Storage of sulfuric acid, hydraulic fluid, waste oil, and lubrication oil at Building 5469. In addition, according to an interview, a PCB spill that has not been investigated took place in this building. | Visual Inspection, Interview | Proposed NFA Sites 40 (Safety Kleen units) and 41 (satellite drums) |
| 20.1(3)PR | 21.5 | 0.46 | Building 489 | 3 | A 1-gallon oil spill was reported on November 3, 1995 at the north dock of Building 489, Section 4. The precise location of the spill is unknown. | 16 | Absorbent was applied to the spill. |
| 20.2(4)HS/HR | 17.6 | 5.0 | Building 670 | 4 | Significant corrosion on floor observed during visual inspection due to acid leaks at charging station. In addition, a 1-gallon spill of hydraulic fluid was reported on August 30, 1995 inside Building 670, Section 1. In addition, a 10-gallon spill of battery electrolyte was reported on May 4, 1990 outside of Building 670. The precise location of the outside spill is unknown. | Visual Inspection, 16, 17 | Absorbent was applied to the spills. |
| 20.3(4)HS/HR | 20.7 | 5.0 | Building 470 | 4 | Building 470 has corrosion on the floor (acid leak) near the battery charging station. | Visual Inspection | In accordance with decisions made at the July 18, 1996 BCT meeting, this parcel will be investigated, and remediated if necessary, prior to transfer. |
| 20.4(4)HS/HR | 21.5 | 5.0 | Building 489 | 4 | Building 489 has corrosion on the floor (acid leak) near the battery charging station. | Visual Inspection | In accordance with decisions made at the July 18, 1996 BCT meeting, this parcel will be investigated, and remediated if necessary, prior to transfer. |
| 20.5(7) | 19.6 | 26.5 | Area surrounding buildings in MDRA Parcel 20 | 7 | This parcel is associated with MDRA Parcel 20. This parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. | Interview | This parcel requires additional evaluation. |

Table 5-1a
(Continued)

| PARCEL NUMBER AND LABEL | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(IES) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EBS SOURCE OF EVIDENCE | REMEDIAL ACTION/ MITIGATION |
|-------------------------|----------------------------|--------------------------|--|---|--|----------------------------------|---|
| 20.6(7) | 20,4 | 0.40 | Between Buildings 489 and 490 | 7 | A sulfuric acid spill was reported on June 10, 1993 between Buildings 489 and 490. The precise location of the spill is unknown. | 14 | Action taken and quantity of spill unknown. |
| 21.1(2)HS | 17,3 | 5.0 | Building 690 | 2 | Building 690 has been used to store hazardous materials before shipment. The site is located in the southeastern portion of this building. No previous sampling for the site. | 11 | Screening Site 76 - Surface and subsurface soil sampling proposed to evaluate the presence of a contaminant release. |
| 21.2(4)PS/HS/HR | 23,3 | 5.0 | Building 490 | 4 | A 1-gallon spill of sulfuric acid/battery acid was reported on December 15, 1995 inside Building 490, Section 5. Petroleum products, microfiche developing chemicals, and Safety Kleen are stored in Building 490. | Visual Inspection, Interview, 16 | Spill was neutralized and containerized for disposal. Proposed NEPA Site 40 (Safety Kleen Unit only). |
| 21.3(4)HS/HR | 15,5 | 5.2 | Building 689 | 4 | Eleven spills are documented from May 8, 1990 through November 16, 1995 inside and outside of Building 689. The materials spilled include nitric acid, corrosion removing compound, hydraulic fluid, oil, and sulfuric acid. Building 689 historically stored alcohol, acetone, toluene, and hydrofluoric acid before transport. Site 78 is located in the northern portion of this building. No previous sampling for the site. Site 75 is situated between Buildings 689 and 670. The area was not bermed and is adjacent to a storm sewer inlet. No previous sampling for the site. | 11 | Absorbent was applied to all spills. Screening Sites 75 and 78 - Surface and subsurface soil sampling proposed to evaluate the presence of a contaminant release. |
| 21.4(4)HS/HR | 15,4 | 0.73 | Building 685 | 4 | Potential contamination due to acid leaks from batteries in the fork lift area at Building 685. Staining observed. | Visual Inspection, Interview | In accordance with decisions made at the July 18, 1996 BCT meeting, this parcel will be investigated, and remediated if necessary, prior to transfer. |
| 21.5(7) | 19,3 | 32.6 | Area surrounding buildings in MDRA Parcel 21 | 7 | This parcel is associated with MDRA Parcel 21. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. | Interview | This parcel requires additional evaluation. |

Table 5-1a
(Continued)

| PARCEL NUMBER AND LABEL | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EBS SOURCE OF EVIDENCE | REMEDIAL MITIGATION |
|-------------------------------|-------------------------------|-----------------------------|--|--|--|---------------------------|--|
| 22.1(7) | 18.4 | 0.66 | Area surrounding buildings in MDRA Parcel 22 | 7 | This parcel is associated with MDRA Parcel 22. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. | Interview | This parcel requires additional evaluation. |
| 22.2(7) | 17.4 | 0.58 | Between Buildings 689 and 690 | 7 | A battery reclamation area exists between Buildings 689 and 690. No previous sampling for the site. | 11 | Screening Site 77. Surface and subsurface soil sampling proposed to evaluate the presence of a contaminant release. |
| 23.1(1) | 19.2 | <0.01 | Gate 7 | 1 | This parcel is associated with Gate 7. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |
| 23.2(1) | Building not on Figure 5-1 | 0.02 | Gate 8 | 1 | This parcel is associated with Gate 8. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |
| 23.3(1) | 11.4 | 0.12 | Building 787 | 1 | This parcel is associated with Building 787. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |
| 23.4(1) | Building not on Figure 5-1 | 0.01 | Building 795 | 1 | This parcel is associated with Building 795. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |
| 23.5(1) | 5.2 | 0.18 | Building 5995 | 1 | This parcel is associated with Building 5995. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |

Table 5-1a
(Continued)

| PARCEL NUMBER AND LABEL | LOCATION (XY COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EBB SOURCE OF EVIDENCE | REMEDIAL ACTION/ MITIGATION |
|-------------------------------|------------------------------|-----------------------------|---|--|--|---------------------------------|---|
| 23.6(7) | 12.2 | 20.6 | Area surrounding buildings in the eastern portion of MDRA Parcel 23. | 7 | This parcel is associated with the eastern portion of MDRA Parcel 23. This parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. | Interview | This parcel requires additional evaluation. |
| 23.7(7) | 11.5 | 0.05 | Building 783 | 7 | Building 783 was previously designated for the storage of flammable liquids and ordinance material and is the location of the former DDMT recoupment facility. No previous sampling has been conducted for this site. | 11 | Screening Site 82 - Surface and subsurface soil sampling proposed to evaluate the presence of a contaminant release. |
| 23.8(7) | 11.3 | 0.04 | Building 793 | 7 | Building 793 was previously designated for the storage of flammable liquids and ordinance material and is the location of the former DDMT recoupment facility. No previous sampling has been conducted for this site. | 11 | Screening Site 82 - Surface and subsurface soil sampling proposed to evaluate the presence of a contaminant release. |
| 23.9(7) | 4.2 | 0.25 | Outside Building S995 | 7 | A gasoline spill was reported on September 13, 1993 outside of Building S995. The precise location of the spill is unknown. | 14 | Action taken and quantity of spill unknown. |
| 23.10(7) | 8.2 | 2.6 | Area X01 | 7 | Area X01 used to be a lake. The sediments are possibly contaminated with PCB and pesticide/herbicide residues. | Visual Inspection, Interview | This parcel requires additional evaluation. |
| 23.11(7) | 6.2 | 3.3 | Area surrounding buildings in the western portion of MDRA Parcel 23 | 7 | This parcel is associated with the western portion of MDRA Parcel 23. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. | Interview | This parcel requires additional evaluation. |
| 24.1(7)HR | 10.3 | 2 | Outside Building S873 | 5 | This site includes the southeastern corner of Building S873 and the gravel parking area to the east. Remediation of soil contamination from previous spills (DDT, DDE, and aldrin) complete. Surface soil samples detected VOCs, PAHs, pesticides, and metals. | 7 | Associated with RI Site 27 (Former Recoupment Area, Building S873) - Additional groundwater, surface soil, and subsurface soil sampling proposed to assess the vertical and horizontal extent of soil contamination. |

Table 5-1a
(Continued)

| PARCEL NUMBER/AND LABEL | LOCATION (XY COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EBS SOURCE OF EVIDENCE | REMEDIAL/ MITIGATION |
|-------------------------------|------------------------------|-----------------------------|---|--|--|---|--|
| 24.2(7) | 11.6 | 12.6 | Area X03 | 7 | This parcel is associated with MDRA Parcel 24. This parcel is comprised of area X03, which was used for storage of flammable materials in 55-gallon drums until 1988. The area then became steel storage. This parcel contains railroad trucks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. | Interview | This parcel requires additional evaluation. |
| 24.3(7) | 11.7 | 3.9 | Buildings 770, T771, and area surrounding these buildings | 7 | <ul style="list-style-type: none"> Hazardous materials (antifreeze, paint, solvents, Safety Kleen) and petroleum products stored in Building 770. Surface soil samples (SS-38 and SS-39) detected PAHs, VOCs, pesticides, and metals. Several spills were reported for Building 770 including: an oil spill was reported on August 23, 1993 outside of Building 770 (northeast corner); a 50-gallon spill of PCB-containing liquid was reported on July 9, 1990; and a 55-gallon spill of petroleum was reported on November 7, 1991 outside of Building 770 (west side). Several tanks have been removed at this building, including: an 11,155-gallon diesel tank removed in July 1994; an 11,155-gallon fuel oil tank removed in July 1994; a 10,000-gallon fuel oil tank removed in July 1994; a 440-gallon gasoline tank removed in December 1989; and two 1,000-gallon used motor oil tanks removed in December 1989. Building 770 has an oil/water separator that is pumped out quarterly, and a floor drain. Oil staining observed on the floor of Building T771. | Visual Inspection, Interview, 7, 14, 17, 18, 25 | RI Site 34 (west of Building 770) - Additional surface soil and subsurface soil sampling proposed to assess the vertical and horizontal extent of soil contamination. NFA Sites 30 (paint spray booth), 40 (Safety Kleen Unit only), 41 (satellite drum area). Action taken and quantity of spill unknown. Contaminated materials from tank removal were excavated and disposed. |

Table 5-1a
(Continued)

| PARCEL NUMBER AND LABEL | LOCATION (XY COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EBS (SOURCE OF EVIDENCE) | REMEDIAL ACTION/ MITIGATION |
|-------------------------------|------------------------------|-----------------------------|--|--|---|-----------------------------|--|
| 25.1(7)HS/HR | 9,4 | 6.2 | Building S873 | 4 | Spills recorded on November 18, 1991 (55-gallon drums of engine gas pump cleaner), February 13, 1992 (10 gallons descaling compound), July 21, 1993 (leaking 55-gallon drums of cleaning compound), and November 29, 1993 (leaking bottles of acid corrosive) for Building S873, Sections 5 and 6; March 10, 1990 (60 gallons tetrachloroethylene), April 16, 1990 (30 gallons sulfuric acid), December 7, 1990 (55 gallons cleaning compound solvent), March 9, 1991 (2 gallons lube oil), and August 16, 1991 (2 gallons hydraulic fluid) for Building 873, Sections 1 and 2. A 55-gallon lube oil spill was recorded on March 2, 1992 and a 55-gallon fog oil spill was recorded on November 26, 1991 outside of Building S873, Section 7 near the southwest corner open shed. Storage of hazardous materials in Building 873. | Visual Inspection, 14, 17 | Rt Site 27 (Former Recoupment Area, Building S873) - Additional groundwater, surface soil, and subsurface soil sampling proposed to assess the vertical and horizontal extent of soil contamination. |
| 25.2(7) | 8,7 | 12 | Building S875 and area surrounding buildings in MDRA Parcel 25 | 7 | This parcel is associated with MDRA Parcel 25. This parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. A 1,000-gallon heating oil tank was closed in place in July 1994 outside Building 875. | Interview, 25 | This parcel requires additional evaluation. |
| 26.1(7) | 6,9 | 4.7 | Building 889 and area surrounding buildings in MDRA Parcel 26 | 7 | This parcel is associated with MDRA Parcel 26. This parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. | Interview | This parcel requires additional evaluation. |
| 26.2(7) | 6,4 | 6.3 | Building S970 | 7 | An oil fired generator that has leaked oil onto the concrete pad was observed at Building S970, Section 6. | Visual Inspection | This parcel requires additional evaluation. |

Table S-1a
(Continued)

| PARCEL NUMBER AND LABEL | LOCATION (XY COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EBS SOURCE EVIDENCE | REMEDIAL ACTION |
|-------------------------------|------------------------------|-----------------------------|--|--|--|--------------------------|--|
| 27.1(7) | 4.9 | 4.4 | Area surrounding buildings in MDRA Parcel 27 | 7 | This parcel is associated with MDRA Parcel 27. This parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. | Interview | This parcel requires additional evaluation. |
| 27.2(7) | 4.4 | 6.3 | Building S972 | 7 | Flammables, solvents, waste oil storage in Building S972. No previous sampling conducted for this site. In addition, oil stained areas were observed in the building during a visual inspection. This building may have been fumigated. No data exist to determine if the building was fumigated or the impact of the fumigation. | Visual Inspection, 11 | Screening Site B4 - Surface and subsurface soil sampling proposed to evaluate the presence of a contaminant release. |
| 28.1(7) | 2.7 | 11.4 | Area X04 | 7 | This parcel is associated with MDRA Parcel 28. This parcel contains open storage area X04. This parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. | Interview | This parcel requires additional evaluation. |
| 28.2(7) | 3.5 | 0.91 | Building 1089 | 7 | Building 1089 was used to store acids. The site includes the building and immediate surrounding area. Soil samples not collected previously for this site. Groundwater sample from MW-21 detected VOCs and metals. | 5, 11 | Screening Site B9 - Surface and subsurface soil sampling proposed to assess the vertical and horizontal extent of soil contamination. |
| 29.1(1) | 3.10 | 0.01 | Gate 9 | 1 | This parcel is associated with Gate 9. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |

Table 5-1a
(Continued)

| PARCEL NUMBER AND LABEL | LOCATION (X, Y COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EBS SOURCE OF EVIDENCE | REMEDIAL ACTION/ MITIGATION |
|-------------------------------|--------------------------------|-----------------------------|--|--|--|------------------------------------|--|
| 29.2(7) | 4,18 | 30.4 | Areas X27 and X30, Buildings 801, 802, and 804 | 7 | This parcel is associated with MDRA Parcel 29. This parcel contains open storage areas X27 and X30. This parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. A 1.25- gallon hydraulic fluid spill was reported on September 12, 1995 in the street. The spill was spread north out Gate 15 and across Dunn Avenue. The precise location of the spill is unknown. | Interview, 16 | This parcel requires additional evaluation. |
| 29.3(7) | 2,11 | 0.13 | West Storm Drainage Canal | 7 | Main Installation, West Storm Water Drainage Canal collects the stormwater runoff from the PCP tank area and the western portion of the main installation. Surface water samples SW- 2 and SW-14 detected 2-butanone and metals. | 5 | Screening Site 56 - Surface soil, subsurface soil, additional surface water, and sediment sampling proposed to evaluate the presence of a contaminant release. |
| 30.1(7) | 4,14 | 1.4 | Building 925 | 7 | Hazardous materials (acetone, methyl ethyl ketone, methanol, ethanol) storage in Building 925. In the past, petroleum products were also stored in this building in 55-gallon drums. | Visual Inspection, Interview | This parcel requires additional evaluation. |
| 30.2(7) | 4,13 | 0.42 | Between Buildings 925 and 9949 | 7 | Historical drums were stored with an earthen berm only. X-25 flammable solvents storage between Buildings 925 and 9949. A 325- gallon spill of X-25 was reported on January 19, 1988 in the concrete-bermed POL storage area. | 4 | Proposed NFA Site 53- Material associated with the spill was removed. This parcel requires additional evaluation. |
| 30.3(7) | 4,15 | 6.0 | Area surrounding buildings in MDRA Parcel 30 | 7 | This parcel is associated with MDRA Parcel 30. This parcel contains open storage area X23. This parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. | Interview | This parcel requires additional evaluation. |

Table 5-1a
(Continued)

| PARCEL NUMBER AND LABEL | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BA518 | EBS SOURCE OF EVIDENCE | REMEDIAL/ MITIGATION |
|-------------------------------|-------------------------------|-----------------------------|---|--|--|------------------------------|---|
| 30.4(7) | 4,11 | 1.4 | Building P949 | 7 | Hazardous material storage in Building P949. This building was fumigated. No data exist to determine the impact of the fumigation. | Visual Inspection, Interview | This parcel requires additional evaluation. |
| 30.5(7) | 4,10 | 0.55 | Adjacent to the south side of Building P949 | 7 | Site 83 is adjacent to the south side of Building P949. This location was apparently used to dispose of dried paint residues. Surface soil sample SS-29 detected metals, pesticides, VOCs, and SVOCs. | 11 | Screening Site 83 - Additional surface and subsurface soil sampling proposed to evaluate the presence of a contaminant release. |
| 31.1(7) | 6,13 | 23.7 | Building 910 and area surrounding buildings in MDRA Parcel 31 | 7 | This parcel is associated with MDRA Parcel 31. This parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. | Visual Inspection | This parcel requires additional evaluation. |
| 32.1(7) | 9,14 | 6.8 | Areas X02, X13, and X15 | 7 | This parcel is associated with MDRA Parcel 32. This parcel contains open storage areas X02, X13, and X15. This parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. | Interview | This parcel requires additional evaluation. |
| 32.2(7) | 9,13 | 3.6 | Building 835 | 7 | Thirteen spills were reported from March 9, 1991 to May 26, 1993 for Building 835. Materials spilled include battery acid, hydrochloric acid, sulfuric acid, herbicide, muratic acid, and transmission fluid. A spill of lube oil and engine oil was reported August 23, 1993 outside of Building 835. The precise location of the spill is unknown. This building was fumigated. No data exist to determine the impact of the fumigation. | 17, 16, 14 | Absorbent applied to all spills. |

Table 5-1a
(Continued)

| PARCEL NUMBER AND LABEL | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EBS SOURCE OF EVIDENCE | REMEDIAL ACTION/ MITIGATION |
|-------------------------------|-------------------------------|-----------------------------|--------------|--|---|----------------------------------|--|
| 32.1(7) | 9,10 | 0.10 | Building 865 | 7 | Building 865, the Recoup Area Building, is a hazardous materials and waste handling area used to transfer materials from damaged or leaking containers into undamaged containers. The site includes the entire building. No previous sampling for the site. A small fenced in area was observed on the southwest side of Building 865. This area contained various drums (5-, 10-, 15-, and 55-gallon) of old chemicals (oil, methyl ethyl ketone, isopropanol), some with protruding rusting tops. | Visual Inspection, Interview, 11 | Screening Site 28 - Surface and subsurface soil sampling proposed to evaluate the presence of a contaminant release. |
| 33.1(1) | 13,16 | 0.01 | Building 727 | 1 | This parcel is associated with Building 727. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | Visual Inspection, Interview | No remediation is necessary. |
| 33.2(1) | 14,10 | 0.05 | Building 754 | 1 | This parcel is associated with Building 754. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |
| 33.3(1) | 14,10 | 0.01 | Building 755 | 1 | This parcel is associated with Building 755. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |
| 33.4(1) | 14,9 | 0.06 | Building 756 | 1 | This parcel is associated with Building 756. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |

Table S-1a
(Continued)

| PARCEL NUMBER AND LABEL | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EBR SOURCE OF EVIDENCE | REMEDIAL MITIGATION |
|-------------------------------|-------------------------------|-----------------------------|--|--|--|----------------------------------|--|
| 33.5(1) | 11,10 | 0.02 | Building T860 | 1 | This parcel is associated with Building T860. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | | No remediation is necessary. |
| 33.6(4)HR | 13,13 | 0.25 | Outside Building 737 | 4 | Former Wastewater Treatment Unit (WWTU). In addition, 50-gallon mineral oil (<1 ppm PCB) spill was reported on November 9, 1995 outside of Building 737. | 1, 4, 14 | Contaminated material was excavated and disposed of. |
| 33.7(7) | 13,8 | 0.15 | Building 765 | 7 | Building 765 contains a fuel oil AST. No previous sampling for the site. | 11 | Screening Site 81 - Surface and subsurface soil sampling proposed to evaluate the presence of a contaminant release. |
| 33.8(7) | 10,10 | 0.03 | Building S863 | 7 | Considerable oil stains were observed on the concrete floor of Building S863. | Visual inspection, Interview | This parcel requires additional evaluation. |
| 33.9(7) | 12,14 | 39.4 | Areas X05, X06, X07, X08, X10, X11, and X12 Buildings S737, 720, and 717 | 7 | This parcel is associated with MDRA Parcel 33. This parcel contains open storage areas X05, X06, X07, X08, X10, X11, and X12. Storage area X11 has drums with flammables. The pentachlorophenol (PCP) dip vat (Site 42) and UST (Site 43) near Building S737 were remediated. Building S737 is currently used for storing/mixing pesticides. The former PCP pallet drying area is Site 46. Building 720 (Site 80) was used for dispensing fuels and cleaners. Surface soil sample SS-24 detected VOCs, PAHs, DDT, and metals. Soil boring STB-4 detected 2-butanone. This parcel contains railroad tracks (east rail yard) that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. A 12,000-gallon diesel AST and a 1,000-gallon used motor oil tank are located at Building 720. A 1,000-gallon diesel fuel tank was removed in July 1994 outside Building 756. | Visual inspection, 5, 11, 18, 25 | Screening Sites 42, 43, 46, and 80 - Additional surface and subsurface soil sampling proposed to evaluate the presence of a contaminant release. At Sites 42 and 43, liquid PCP source was removed, and 602 cubic yards of contaminated soil were excavated and disposed of. |

Table 5-1a
(Continued)

| PARCEL NUMBER AND LABEL | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EBS SOURCE OF EVIDENCE | REMEDIAL ACTION/ MITIGATION |
|-------------------------------|-------------------------------|-----------------------------|---|--|---|------------------------------------|--|
| 33.10(2) | 14,10 | 0.01 | Building 753 | 2 | This parcel is associated with Building 753. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | Visual Inspection, Interview | No remediation is necessary. |
| 33.11(2) | 14,9 | 0.25 | Building 756 | 2 | This parcel is associated with an area outside Building 756. The original tank supplying the emergency generator was removed in June 1994. Soil was sampled for TPH and found to be less than 20 ppm. | Interview | No remediation is necessary. |
| 34.1(1) | 24,8 | 4.0 | Building 360 | 1 | This parcel is associated with Building 360. This building was recently constructed and has not been used for storage. There has been no documented storage of hazardous substances or petroleum products; nor has there been release or migration from an adjacent property of hazardous substances or petroleum products. | Interview | No remediation is necessary. |
| 34.2(7) | 24,7 | 2.7 | Area surrounding buildings in MDRA Parcel 34 | 7 | This parcel is associated with MDRA Parcel 34. This parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticides contamination. | Interview | This parcel requires additional evaluation. |
| 35.1(7) | 3,3 | 0.02 | Building S1090 | 7 | Storage at Building S1090 of paint thinner, lubricating oil, P-19 preservation oil, and corrosion preservation compound. | Visual Inspection, Interview | This parcel requires additional evaluation. |
| 35.2(7) | 3,5 | 0.43 | Building 1084 and area surrounding this building | 7 | Site 88 is an old concrete grease rack and storage area for POL at Building 1085 (removed). Site 29 was a UST associated with the grease rack (removed 1988). Site 87 (Building T1084) was once used for storage of DDT/other pesticides. | 12 | Proposed Early Removal Sites 29, 87, 88 - Require additional evaluation. |
| 35.3(7) | 3,5 | 0.22 | Building 1086 | 7 | Building 1086 was used to store hazardous materials from 1959 through 1983/1984, and this building has a sump. | Visual Inspection, Interview | Proposed NFA Site 30 (paint spray booths) |

Table S-1a
(Continued)

| PARCEL NUMBER AND LABEL | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EBS SOURCE OF EVIDENCE | REMEDIAL MITIGATION |
|-------------------------|----------------------------|--------------------------|--|---|--|------------------------|--|
| 35.4(7) | 3,3 | 4.9 | Buildings 1087 and 1088 | 7 | RJ Site 32 is next to Building 1088. Former location of spray paint booth in Building 1087 (Site 31) used to conduct major stock primer and enamel spray painting operations. Open-sided, metal roof shed (Site 33) with a gravel floor adjacent to Building 1088, which was historically used to store 55-gallon drums containing spent sandblasting material. Surface soil samples detected toluene, PAHs, pesticides, PCBs, metals, and VOCs. Groundwater sample from MW-22 detected VOCs, SVOCs, and metals. | 7, 11 | RJ Site 32 (Sandblasting Waste Accumulation Area) - Additional groundwater, surface soil, and subsurface soil sampling proposed to assess the horizontal and vertical extent of soil contamination. Screening Sites 31 and 33 - Additional surface and subsurface soil sampling proposed to evaluate the presence and extent of contamination. |
| 35.5(7) | 2,2 | 4 | Buildings T1084, S1091, and area surrounding buildings in MDRA Parcel 35 | 7 | This parcel is associated with MDRA Parcel 35. Based on an interview with DDMT personnel, the surface soil surrounding the buildings at the installation has the potential for pesticide contamination. | Interview | This parcel requires additional evaluation. |
| 36.1(7) | 30,9 | <0.01 | Dunn Field | 7 | A seven-pound jug of ammonia hydroxide and a one-gallon bottle of acetic acid were buried here. Existing data is not adequate to assess if a release has occurred. | 13 | Proposed Early Removal Site 2 - Require additional evaluation. |
| 36.2(7) | 30,9 | 0.01 | Dunn Field | 7 | Three thousand quarts of unknown chemicals and five cubic feet of orthotoluidine dihydrochloride are buried here. Existing data is not adequate to assess if a release has occurred. | 13 | Proposed Early Removal Site 3 - Require additional evaluation. |
| 36.3(7) | 30,9 | 0.02 | Dunn Field | 7 | Forty-five 55-gallon drums of discarded oil, grease, paints, and thinner are buried in these two adjacent trenches. Existing data is not adequate to assess if a release has occurred. | 13 | Proposed Early Removal Sites 4 and 4.1 - Require additional evaluation. |
| 36.4(7) | 30,9 | <0.01 | Dunn Field | 7 | Three cubic feet of methyl bromide are buried here in an unidentified container or containers. Existing data is not adequate to assess if a release has occurred. | 13 | Proposed Early Removal Site 5 - Require additional evaluation. |
| 36.5(7) | 30,8 | <0.01 | Dunn Field | 7 | 1,700 quart bottles of nitric acid are buried here. Existing data is not adequate to assess if a release has occurred. | 13 | Proposed Early Removal Site 7 - Require additional evaluation. |

Table 5-1a
(Continued)

| PARCEL NUMBER AND LABEL | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EBS SOURCE OF EVIDENCE | REMEDIAL/ MITIGATION |
|-------------------------------|-------------------------------|-----------------------------|-------------|--|---|---------------------------|---|
| 36.6(7) | 30,8 | <0.01 | Dunn Field | 7 | 3,768 one-gallon cans of methyl bromide are buried to a depth of seven feet. Existing data is not adequate to assess if a release has occurred. | 13 | Proposed Early Removal Site 8 - Require additional evaluation. |
| 36.7(7) | 31,9 | <0.01 | Dunn Field | 7 | 1,433 one-ounce bottles of trichloroacetic acid are buried at a depth of six feet. Existing data is not adequate to assess if a release has occurred. | 13 | Proposed Early Removal Site 11 - Require additional evaluation. |
| 36.8(7) | 27,8 | 0.06 | Dunn Field | 7 | Thirty pallets of discarded acid containers are buried at these three locations at a depth of eight feet. Existing data is not adequate to assess if a release has occurred. | 13 | Proposed Early Removal Sites 12 and 12.1 - Require additional evaluation. |
| 36.9(7) | 28,8 | 0.01 | Dunn Field | 7 | 32 cubic yards of mixed chemicals and acids and 8,100 pounds of unnamed solids were buried at a depth of eight feet. Existing data is not adequate to assess if a release has occurred. | 13 | Proposed Early Removal Site 13 - Require additional evaluation. |
| 36.10(7) | 28,8 | <0.01 | Dunn Field | 7 | These sites contain unknown amounts of unnamed acid. Existing data is not adequate to assess if a release has occurred. | 13 | Proposed Early Removal Sites 16 and 16.1 - Require additional evaluation. |
| 36.11(7) | 28,8 | <0.01 | Dunn Field | 7 | An unknown amount of chemicals and medical supplies were buried. Existing data is not adequate to assess if a release has occurred. | 13 | Proposed Early Removal Site 17 - Require additional evaluation. |
| 36.12(7) | 23,11 | 0.92 | Dunn Field | 7 | This site contains one above-grade covered bauxite pile. Existing data is not adequate to assess if a release has occurred. | 12 | Proposed Early Removal Site 62 - Require additional evaluation. |
| 36.13(7) | 27,11 | 3.3 | Dunn Field | 7 | This site contains two above-grade covered bauxite piles. Existing data is not adequate to assess if a release has occurred. | 12 | Proposed Early Removal Site 62 - Require additional evaluation. |
| 36.14(7) | 31,11 | 0.33 | Dunn Field | 7 | This site is a former pistol range and impact area and includes Building 1184 (Site 85). The building is now used for temporary pesticide storage. Existing data is not adequate to assess if a release has occurred. | 12 | Proposed Early Removal Sites 60 and 85 - Require additional evaluation. |

Table S-1a
(Continued)

| PARCEL NUMBER AND LABEL | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EBS SOURCE OF EVIDENCE | REMEDIATION MITIGATION |
|-------------------------------|-------------------------------|-----------------------------|-------------|--|---|---------------------------|--|
| 36.15(7) | 29,10 | 11.7 | Dunn Field | 7 | Groundwater contamination is documented. In addition, this parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Sampling is recommended for the railroad tracks in this parcel. | 10 | Remedial action has been suggested in the Record of Decision, but not yet implemented. Additional evaluation is required. |
| 36.16(7) | 29,9 | 0.08 | Dunn Field | 7 | Nine sets of CAIS (containing mustard gas and Lewisite) were buried. Existing data is not adequate to assess if a release has occurred. | 6 | Chemical Warfare Management Plan Site 1 - Conduct an investigation of potential chemical warfare materials, prepare a site safety submission, then conduct remediation. |
| 36.17(7) | 30,9 | 0.07 | Dunn Field | 7 | Ashes and metals from the former burn site (Screening Site 64) were buried here. Existing data is not adequate to assess if a release has occurred. | 6 | Chemical Warfare Management Plan Site 9 - Conduct an investigation of potential chemical warfare materials, prepare a site safety submission, then conduct remediation. |
| 36.18(7) | 28,9 | 0.61 | Dunn Field | 7 | Food items with expired shelf life were buried here. Reportedly, CAIS sets were also buried here. Existing data is not adequate to assess if a release has occurred. | 6 | Chemical Warfare Management Plan Site 86 - Conduct an investigation of potential chemical warfare materials, prepare a site safety submission, then conduct remediation. |
| 36.19(7) | 28,9 | 0.02 | Dunn Field | 7 | Food items with expired shelf life were buried here. Reportedly, CAIS sets were also buried here. Existing data is not adequate to assess if a release has occurred. | 6 | Chemical Warfare Management Plan Site 86 - Conduct an investigation of potential chemical warfare materials, prepare a site safety submission, then conduct remediation. |

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| PARCEL NUMBER AND LABEL | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EBS SOURCE OF EVIDENCE | REMEDIAL ACTION/ MITIGATION |
|-------------------------|----------------------------|--------------------------|-------------|---|---|------------------------|---|
| 36.20(7) | 31,9 | 0.01 | Dunn Field | 7 | 40,037 units of eye ointment were buried here in 1955. No data exist to assess if a release has occurred. | 6 | Remedial Action Site 6 - Surface and subsurface sampling proposed to assess the presence of a contaminant release. |
| 36.21(7) | 30,8 | 0.07 | Dunn Field | 7 | This site was discovered during the installation of monitoring well 10. Charred debris was encountered. No data exist to assess the materials buried at the site or if a release has occurred. | 6 | Remedial Action Site 10 - Surface and subsurface soil and groundwater sampling proposed to assess the presence of a contaminant release. |
| 36.22(7) | 28,8 | 0.01 | Dunn Field | 7 | This municipal waste burial site reportedly contains paper, food, and other unnamed materials. No data exist to assess if a release has occurred. | 6 | Remedial Action Site 14 - Surface and subsurface soil and groundwater sampling proposed to assess the presence of a contaminant release. |
| 36.23(7) | 28,8 | 0.08 | Dunn Field | 7 | Records indicate that one pallet each of sodium and sodium phosphate containers, and an unknown quantity of sodium, sodium phosphate, acid, chlorinated lime, and medical supplies were buried here in 1970. No data exist to assess if a release has occurred. | 6 | Remedial Action Sites 15, 15.1, and 15.2 - Surface and subsurface soil and groundwater sampling proposed to assess the presence of a contaminant release. |
| 36.24(7) | 28,11 | 0.08 | Dunn Field | 7 | This site was used for the disposal of sanitary wastes, construction debris, smoke pots, and tear gas canisters from 1955 to 1960. No sampling data have been collected for this site. | 1 | Screening Site 19 - Surface and subsurface soil sampling proposed to assess the presence of a contaminant release. |
| 36.25(7) | 30,10 | 0.34 | Dunn Field | 7 | Reportedly, asphalt and roofing gravel were dumped in a surface pit at this location until 1981 when the debris was removed. Existing data is not adequate to assess if a release has occurred. | 1 | Screening Site 20 - Surface and subsurface soil sampling proposed to assess the presence of a contaminant release. |
| 36.26(7) | 31,13 | 0.51 | Dunn Field | 7 | This site consists of two trenches with unknown depths. It is reported that XXXCC-3 impregnate is buried here. No data exist to assess if a release has occurred. | 1 | Screening Site 21 - Surface and subsurface soil sampling proposed to assess the presence of a contaminant release. |

Table S-1a
(Continued)

| PARCEL NUMBER AND LABEL | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) | FACILITY(S) | ENVIRONMENTAL CONDITION CATEGORY NUMBER | BASIS | EBS SOURCE OF EVIDENCE | REMEDIAL MITIGATION |
|-------------------------------|-------------------------------|-----------------------------|--|--|--|---------------------------|--|
| 36.27(7) | 31,12 | 0.21 | Dunn Field | 7 | This concrete-lined drainage ditch collects stormwater runoff from surrounding areas. Surface water samples have been collected (during stormwater runoff); however, not enough data exist to assess the impact from this site. | 1 | Screening Site 50 - Surface and subsurface soil and stormwater sampling proposed to assess the presence of a contaminant release. |
| 36.28(7) | 30,9 | 0.11 | Dunn Field | 7 | This drain was installed in the mid-1950s and is used for stormwater conveyance. No data exist to assess if a release has occurred. | 1 | Screening Site 61 - Surface and subsurface soil sampling proposed to assess the presence of a contaminant release. |
| 36.29(7) | 23,9 | 7.5 | Dunn Field | 7 | This area is a current fluor spar storage area that historically was a bauxite storage area, and mustard gas, smoke pot, CN grenades and ordnance burn area (1946). No data exist to assess if a release has occurred. | 1, 6 | CWMP Site 24 and Screening Site 64 - Surface water and sediment sampling proposed to assess the presence of a contaminant release. |
| 36.30(7) | 28,12 | 41.9 | Dunn Field, Buildings 1104, 1145, 1146, and 1185 | 7 | This parcel is associated with Dunn Field excluding the areas that were previously parcelized. This parcel contains railroad tracks that were historically sprayed with pesticides, herbicides, and waste oil containing PCP. Previous sampling has not been performed in this area to confirm the absence of contamination. | 13 | This parcel requires additional evaluation. |

Notes:

Parcel label definitions are as follows:

PS = petroleum storage
 PR = petroleum release or disposal
 HS = hazardous substance storage
 HR = hazardous substance release or disposal

Qualified parcel label definitions are as follows:

A = asbestos containing material
 L = lead-based paint
 P = polychlorinated biphenyls
 R = radon
 X = UXO and/or ordnance fragments
 RD = radionuclides
 (P) = possible (unverified)

Acreage figures are approximate; they have been calculated using AutoCad Release 12.

EBS Source of Evidence numbers refer to documents listed in Table 2-1 of this report.

Table 5-1b
QUALIFIED PARCEL DESCRIPTIONS
DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE

| QUALIFIED PARCEL NUMBER AND LABEL ^a | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) ^b | BUILDING NUMBER | BASIS | EBS SOURCE OF EVIDENCE ^c | REMEDIAL/ MITIGATION |
|---|-------------------------------|--|--------------------|--|--|-------------------------|
| 1.1-1Q-A/L(P) | 32,10 | 0.01 | 1 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 35, 2 | No current mitigation. |
| 1.2-2Q-A/L(P) | 32,13 | 0.01 | 2 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 35, 2 | No current mitigation. |
| 1.3-129Q-A(P) | 33,12 | <0.01 | 129 | ACM possible based on the year of construction. | 15 | No current mitigation. |
| 1.4-139Q-A/L(P) | 33,12 | <0.01 | 139 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 26, 2 | No current mitigation. |
| 1.5-144Q-A/L(P) | 33,12 | 0.31 | 144 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 22, 2 | No current mitigation. |
| 1.6-S145Q-A/L(P) | 33,12 | 0.02 | S145 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 22, 2 | No current mitigation. |
| 1.7-155Q-A/L(P) | 33,12 | <0.01 | 155 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 26, 2 | No current mitigation. |
| 2.1-176Q-A/L | 33,6 | 0.11 | 176 | ACM and LBP present; confirmed by previous sampling and testing. | 26, 2 | No current mitigation. |
| 2.2-S178Q-A/L(P) | 33,6 | 0.03 | S178 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 26, 2 | No current mitigation. |
| 2.3-179Q-A/L | 33,5 | 0.11 | S179 | ACM and LBP present; confirmed by previous sampling and testing. | 26, 2 | No current mitigation. |
| 2.4-181Q-A/L | 33,5 | 0.11 | 181 | ACM and LBP present; confirmed by previous sampling and testing. | 26, 2 | No current mitigation. |
| 2.5-S183Q-A/L(P) | 33,5 | 0.11 | S183 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 26, 2 | No current mitigation. |

Table 5-1b
(Continued)

| QUALIFIED PARCEL NUMBER AND LABEL* | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) | BUILDING NUMBER | BASIS | EB8 SOURCE OF EVIDENCE* | REMEDIAL/ MITIGATION |
|---------------------------------------|-------------------------------|-----------------------------|--------------------|---|----------------------------|---------------------------------|
| 2.6-184Q-A/L | 33,4 | 0.11 | 184 | ACM and LBP present; confirmed by previous sampling and testing. Lead from exterior paint present in soil at levels greater than 400 ppm. | 26, 2 | No current mitigation. |
| 3.2-S195Q-A/L | 31,2 | 0.10 | S195 | ACM and LBP present; confirmed by previous sampling and testing. | 22, 2 | No current mitigation. |
| 3.3-196Q-A/L(P) | 31,2 | 0.02 | 196 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 26, 2 | No current mitigation. |
| 3.4-S198Q-A/L(P) | 31,2 | 0.01 | S198 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 26, 2 | No current mitigation. |
| 3.5-398Q-A/L(P) | 29,4 | 0.01 | 398 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 30, 2 | No current mitigation. |
| 3.5-RANGEQ-X(P) | 30,6 | 0.25 | Range | Site formerly used as a pistol range; UXO possible. | 3 | Ongoing Remedial Investigation. |
| 4.1-252Q-A/L(P) | 30,10 | 0.19 | 252 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 23, 2 | No current mitigation. |
| 4.2-270Q-A/L(P) | 31,7 | 0.33 | 270 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 24, 2 | No current mitigation. |
| 4.3-S271Q-A/L(P) | 31,7 | 0.03 | S271 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 24, 2 | No current mitigation. |
| 4.4-260Q-A/L(P) | 30,9 | 0.15 | 260 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 24, 2 | No current mitigation. |
| 4.5-251Q-A/L(P) | 31,9 | 0.18 | 251 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 23, 2 | No current mitigation. |

Table 5-1b
(Continued)

| QUALIFIED PARCEL NUMBER AND LABEL ^a | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) ^b | BUILDING NUMBER | BASIS | EBS SOURCE OF EVIDENCE ^c | REMEDIAL MITIGATION |
|---|-------------------------------|--|--------------------|--|--|------------------------|
| 4.5-T236Q-A(P)/L(P) | 29,10 | <0.01 | T236 | ACM and LBP possible based on the year of construction. | 15 | No current mitigation. |
| 4.5-T261Q-A(P)/L(P) | 30,9 | 0.14 | T261 | ACM and LBP possible based on the year of construction. | 15 | No current mitigation. |
| 4.5-T263Q-A/L(P) | 31,8 | 0.18 | 263 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 24, 2 | No current mitigation. |
| 4.6-T234Q-A/L(P) | 29,9 | 0.02 | T234 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 23, 2 | No current mitigation. |
| 4.7-T257Q-A/L(P) | 28,10 | 0.01 | 257 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 23, 2 | No current mitigation. |
| 4.8-T263Q-L(P) | 30,9 | 0.02 | 263 | LBP possible based on the year of construction. | 24, 2 | No current mitigation. |
| 4.11-T233Q-A/L(P) | 29,9 | 0.22 | 233 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 23, 2 | No current mitigation. |
| 5.1-T272Q-L(P) | 30,7 | 0.03 | T272 | LBP possible based on the year of construction. | 27, 2 | No current mitigation. |
| 5.2-T274Q-A/L(P) | 29,7 | 0.31 | 274 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 27, 2 | No current mitigation. |
| 6.2-T230Q-A/L(P) | 30,11 | 2.8 | 230 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 29, 2 | No current mitigation. |
| 6.3-349Q-A/L(P) | 26,12 | 2.8 | 349 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 29, 2 | No current mitigation. |
| 6.4-350Q-A/L(P) | 26,11 | 2.8 | 350 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 29, 2 | No current mitigation. |

Table S-1b
(Continued)

| QUALIFIED PARCEL NUMBER AND LABEL ^a | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) ^b | BUILDING NUMBER | BASIS | EBS SOURCE OF EVIDENCE ^c | REMEDIAL/ MITIGATION |
|---|-------------------------------|--|--------------------|--|--|------------------------|
| 7.2-249Q-A/L(P) | 30,12 | 2.8 | 249 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 28, 2 | No current mitigation. |
| 8.2-229Q-A/L(P) | 30,15 | 2.8 | 229 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 28, 2 | No current mitigation. |
| 8.3-230Q-A/L(P) | 30,14 | 2.8 | 230 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 28, 2 | No current mitigation. |
| 8.4-329Q-A/L(P) | 26,15 | 2.8 | 329 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 29, 2 | No current mitigation. |
| 8.5-330Q-A/L(P) | 26,14 | 2.8 | 330 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 29, 2 | No current mitigation. |
| 9.2-429Q-A/L(P) | 23,15 | 2.8 | 429 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 31, 2 | No current mitigation. |
| 9.3-430Q-A/L(P) | 23,14 | 2.8 | 430 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 31, 2 | No current mitigation. |
| 9.4-449Q-A/L(P) | 23,12 | 2.8 | 449 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 31, 2 | No current mitigation. |
| 9.5-450Q-A/L(P) | 23,11 | 2.8 | 450 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 31, 2 | No current mitigation. |
| 10.1-649Q-A/L(P) | 16,12 | 2.8 | 649 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 32, 2 | No current mitigation. |
| 10.4-549Q-A/L(P) | 20,12 | 2.8 | 549 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 32, 2 | No current mitigation. |

Table 5-1b
(Continued)

| QUALIFIED PARCEL NUMBER AND LABEL ^a | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) ^b | BUILDING NUMBER | BASIS | EBS SOURCE OF EVIDENCE ^c | REMEDIAL/ MITIGATION |
|---|-------------------------------|--|--------------------|--|--|------------------------|
| 10.3-550Q-AVL(P) | 20,11 | 2.8 | 550 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 32, 2 | No current mitigation. |
| 10.6-650Q-AVL(P) | 16,11 | 2.8 | 650 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 32, 2 | No current mitigation. |
| 11.2-529Q-AVL(P) | 20,15 | 2.8 | 529 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 31, 2 | No current mitigation. |
| 11.3-530Q-AVL(P) | 20,14 | 2.8 | 530 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 31, 2 | No current mitigation. |
| 11.4-630Q-AVL(P) | 16,14 | 2.8 | 630 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 32, 2 | No current mitigation. |
| 12.2-629Q-AVL(P) | 16,15 | 2.8 | 629 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 32, 2 | No current mitigation. |
| 13.1-23Q-AVL(P) | 34,10 | <0.01 | 23 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 35, 2 | No current mitigation. |
| 13.2-24Q-L(P) | 33,10 | <0.01 | 24 | LBP possible based on the year of construction. | 35, 2 | No current mitigation. |
| 13.3-25Q-L(P) | 32,10 | <0.01 | 25 | LBP possible based on the year of construction. | 35, 2 | No current mitigation. |
| 13.4-210Q-AVL(P) | 30,10 | 5.5 | 210 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 23, 2 | No current mitigation. |
| 14.1-22Q-AVL(P) | 27,19 | <0.01 | 22 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 35, 2 | No current mitigation. |

Table 5-1b
(Continued)

| QUALIFIED PARCEL NUMBER AND LABEL * | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) ^b | BUILDING NUMBER | BASIS | EBS SOURCE OF EVIDENCE ^c | REMEDIAL ACTION/ MITIGATION |
|--|-------------------------------|--|--------------------|--|--|--------------------------------|
| 14.2-S209Q-A/L(P) | 30,18 | 5.50 | S209 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 22, 2 | No current mitigation. |
| 15.1-15Q-A/L(P) | 10,19 | <0.01 | 15 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 35, 2 | No current mitigation. |
| 15.2-S308Q-A/L(P) | 25,18 | 0.01 | S308 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 28, 2 | No current mitigation. |
| 15.3-319Q-A/L(P) | 26,16 | 0.41 | 319 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 30, 2 | No current mitigation. |
| 15.4-S702Q-A/L(P) | 14,18 | 0.28 | S702 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 33, 2 | No current mitigation. |
| 15.6-301Q-A(P)/L(P) | 18,17 | <0.01 | 301 | ACM and LBP possible based on the year of construction. | 15 | No current mitigation. |
| 15.6-S309Q-A/L(P) | 25,18 | 0.01 | S309 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 28, 2 | No current mitigation. |
| 15.6-T416Q-A/L(P) | 24,16 | 0.06 | T416 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 27, 2 | No current mitigation. |
| 15.6-T417Q-A/L(P) | 23,16 | 0.07 | T417 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 27, 2 | No current mitigation. |
| 16.2-S559Q-A/L(P) | 18,9 | 5.5 | S559 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 27, 2 | No current mitigation. |
| 17.3-359Q-A/L(P) | 25,9 | 5.5 | 359 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 29, 2 | No current mitigation. |

Table S-1b
(Continued)

| QUALIFIED PARCEL NUMBER AND LABEL * | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) * | BUILDING NUMBER | BASIS | EBS SOURCE OF EVIDENCE ² | REMEDIAL/ MITIGATION |
|--|-------------------------------|-------------------------------|--------------------|--|--|------------------------|
| 19.1-S468Q-L(P) | 22,8 | 0.22 | S468 | LBP possible based on the year of construction. | 30, 2 | No current mitigation. |
| 19.2-S465Q-A | 22,7 | 0.01 | S465 | ACM present; confirmed by previous sampling and testing. | 30 | No current mitigation. |
| 19.3-S469Q-L(P) | 22,8 | 0.22 | S469 | LBP possible based on the year of construction. | 30, 2 | No current mitigation. |
| 20.2-670Q-A/L(P) | 16,6 | 5.0 | 670 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 33, 2 | No current mitigation. |
| 20.3-470Q-A/L(P) | 22,6 | 5.0 | 470 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 30, 2 | No current mitigation. |
| 20.4-489Q-A/L(P) | 22,5 | 5.0 | 489 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 30, 2 | No current mitigation. |
| 21.1-690Q-A/L(P) | 16,3 | 5.0 | 690 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 33, 2 | No current mitigation. |
| 21.2-490Q-A/L(P) | 22,3 | 5.0 | 490 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 30, 2 | No current mitigation. |
| 21.3-689Q-A/L(P) | 16,5 | 5.2 | 689 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 33, 2 | No current mitigation. |
| 21.4-685Q-A/L(P) | 14,4 | 0.73 | 685 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 33, 2 | No current mitigation. |
| 23.2-8Q-A/L(P) | 13,2 | 0.02 | 8 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 35, 2 | No current mitigation. |
| 23.4-795Q-L(P) | 11,2 | 0.01 | 795 | LBP possible based on the year of construction. | 27, 2 | No current mitigation. |

Table S-1b
(Continued)

| QUALIFIED PARCEL NUMBER AND LABEL* | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) ^P | BUILDING NUMBER | BASIS | EBS SOURCE OF EVIDENCE ^F | REMEDIA- TION/ MITIGATION |
|---------------------------------------|-------------------------------|--|--------------------|--|--|---------------------------------|
| 23.7-783Q-A/L(P)/X(P) | 11,3 | 0.05 | 783 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. UXO possible historically ordinance has been stored in this building. | 34, 2 | No current mitigation. |
| 23.8-793Q-L(P)/X(P) | 11,3 | 0.04 | 793 | LBP possible based on the year of construction. UXO possible historically ordinance has been stored in this building. | 34, 2 | No current mitigation. |
| 24.3-770Q-A/L(P) | 12,8 | 0.57 | 770 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 34, 2 | No current mitigation. |
| 24.3-771Q-A/L(P) | 11,9 | 0.02 | 771 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 34, 2 | No current mitigation. |
| 25.1-8873Q-A/L(P) | 9,6 | 6.3 | 8873 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 15 | No current mitigation. |
| 25.2-7875Q-A/L(P) | 7,6 | 6.3 | 7875 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 36, 2 | No current mitigation. |
| 26.2-8970Q-A/L(P) | 6,6 | 6.3 | 8970 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 36, 2 | No current mitigation. |
| 27.2-8972Q-A/L(P) | 4,6 | 6.3 | 8972 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 36, 2 | No current mitigation. |
| 28.2-51089Q-A(P)/L(P) | 3,3 | 0.91 | 51089 | ACM and LBP possible based on the year of construction. | 15 | No current mitigation. |
| 29.1-9Q-A/L(P) | 3,10 | 0.01 | 9 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 35, 2 | No current mitigation. |
| 29.2-801Q-A/L(P) | 4,18 | 0.01 | 801 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 36, 2 | No current mitigation. |

Table 5-1b
(Continued)

| QUALIFIED PARCEL NUMBER AND LABEL* | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) ^b | BUILDING NUMBER | BASIS | EBS SOURCE OF EVIDENCE ^a | REMEDIAION/ MITIGATION |
|---------------------------------------|-------------------------------|--|--------------------|---|--|---------------------------|
| 33.1-753Q-A/L(P) | 14,10 | 0.01 | 753 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 34, 2 | No current mitigation. |
| 33.3-755Q-A/L(P) | 12,14 | 0.01 | 755 | ACM and LBP present; confirmed by previous sampling and testing. | 27, 2 | No current mitigation. |
| 33.4-756Q-A | 14,9 | 0.06 | 756 | Not on master facility list. Since year of construction unknown, unable to complete qualification for LBP. ACM present; confirmed by previous sampling and testing. | 27 | No current mitigation. |
| 33.5-7860Q-A/L(P) | 11,10 | 0.02 | 7860 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 36, 2 | No current mitigation. |
| 33.8-S863Q-A/L(P) | 10,10 | 0.03 | S863 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 36, 2 | No current mitigation. |
| 33.9-717Q-A/L(P) | 12,14 | 0.01 | 717 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 33, 2 | No current mitigation. |
| 33.9-720Q-A/L(P) | 14,15 | 0.11 | 720 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 33, 2 | No current mitigation. |
| 33.9-S737Q-A/L(P) | 13,13 | 0.13 | 737 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 34, 2 | No current mitigation. |
| 35.1-S1090Q-A/L(P) | 3,3 | 0.02 | S1090 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 35, 2 | No current mitigation. |
| 35.3-1086Q-L(P) | 3,4 | 0.22 | 1086 | LBP possible based on the year of construction. | 35, 2 | No current mitigation. |

Table 5-1b
(Continued)

| QUALIFIED PARCEL NUMBER AND LABEL ^a | LOCATION (X,Y COORDINATES) | APPROXIMATE SIZE (ACRES) ^b | BUILDING NUMBER | BASIS | EBS SOURCE OF EVIDENCE ^c | REMEDIAL/ MITIGATION |
|---|-------------------------------|--|------------------------------|--|--|---------------------------------|
| 35.4-1087Q-A/L(P) | 3,3 | 0.11 | 1087 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 35, 2 | No current mitigation. |
| 35.4-1088Q-L(P) | 3,3 | 0.05 | 1088 | LBP possible based on the year of construction. | 35, 2 | No current mitigation. |
| 35.5-T1084Q-A/L(P) | 4,5 | 0.03 | T1084 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 35, 2 | No current mitigation. |
| 35.5-S1091Q-A/L(P) | 3,2 | 0.02 | S1091 | ACM present; confirmed by previous sampling and testing. LBP possible based on the year of construction. | 35, 2 | No current mitigation. |
| 36.14-1184Q-L(P) | 31,12 | 0.01 | 1184 | LBP possible based on the year of construction. | 35, 2 | No current mitigation. |
| 36.14-RANGEQ-X(P) | 31,11 | 0.33 | Range | Qualification for UXO includes potential for lead in soil from the former pistol range. | 37 | Ongoing Remedial Investigation. |
| 36.29-OBQ-X(P) | 23,9 | 7.50 | Former Ordnance Burn Area | UXO possible based on former use as an ordnance burn area. | 1, 6 | Ongoing Remedial Investigation. |

Notes:

^a Parcel label definitions are as follows:

PS = petroleum storage

PR = petroleum release or disposal

HS = hazardous substance storage

HR = hazardous substance release or disposal

Qualified parcel label definitions are as follows:

A = asbestos containing material

L = lead-based paint

P = polychlorinated biphenyls

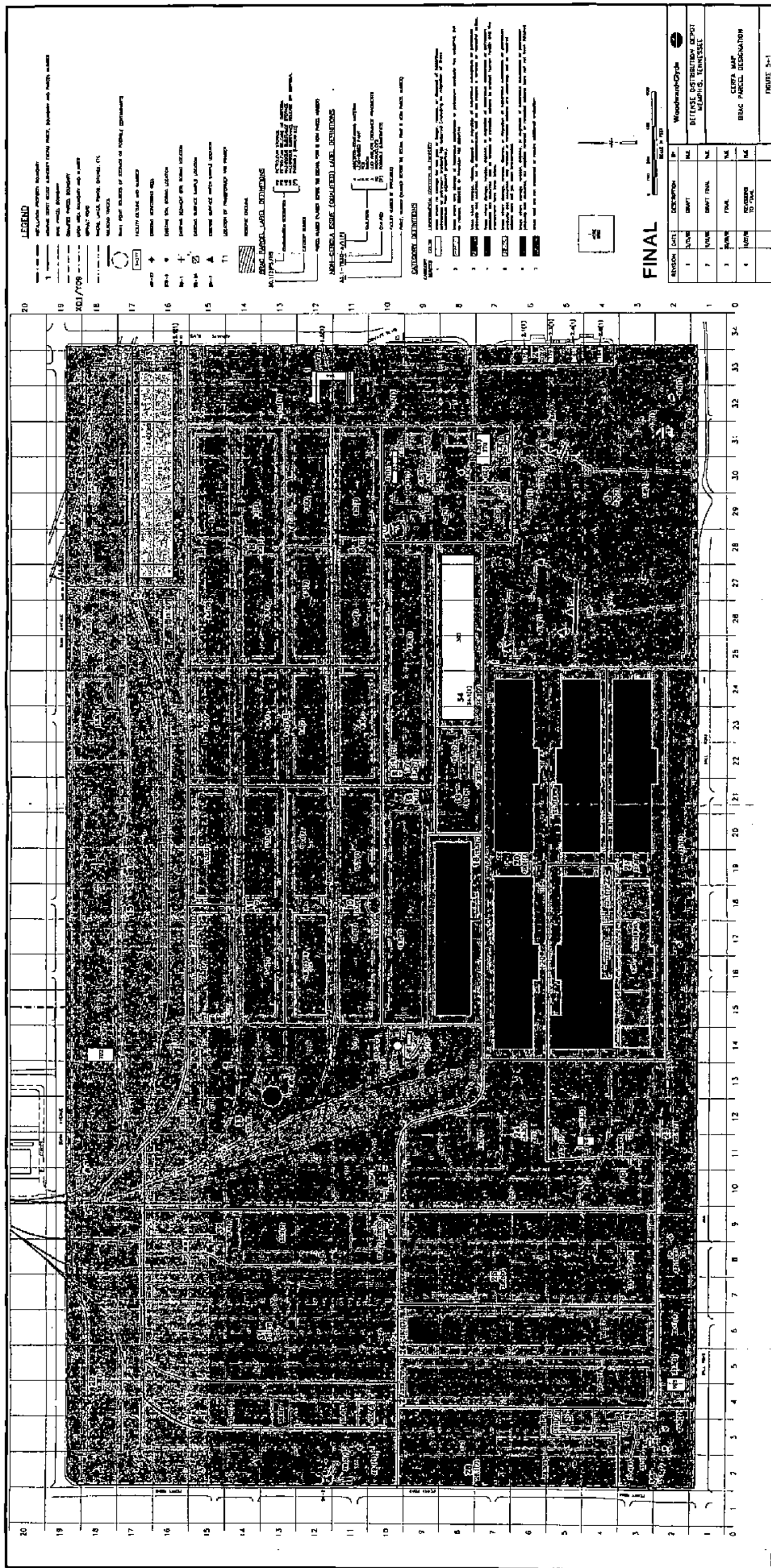
R = radon

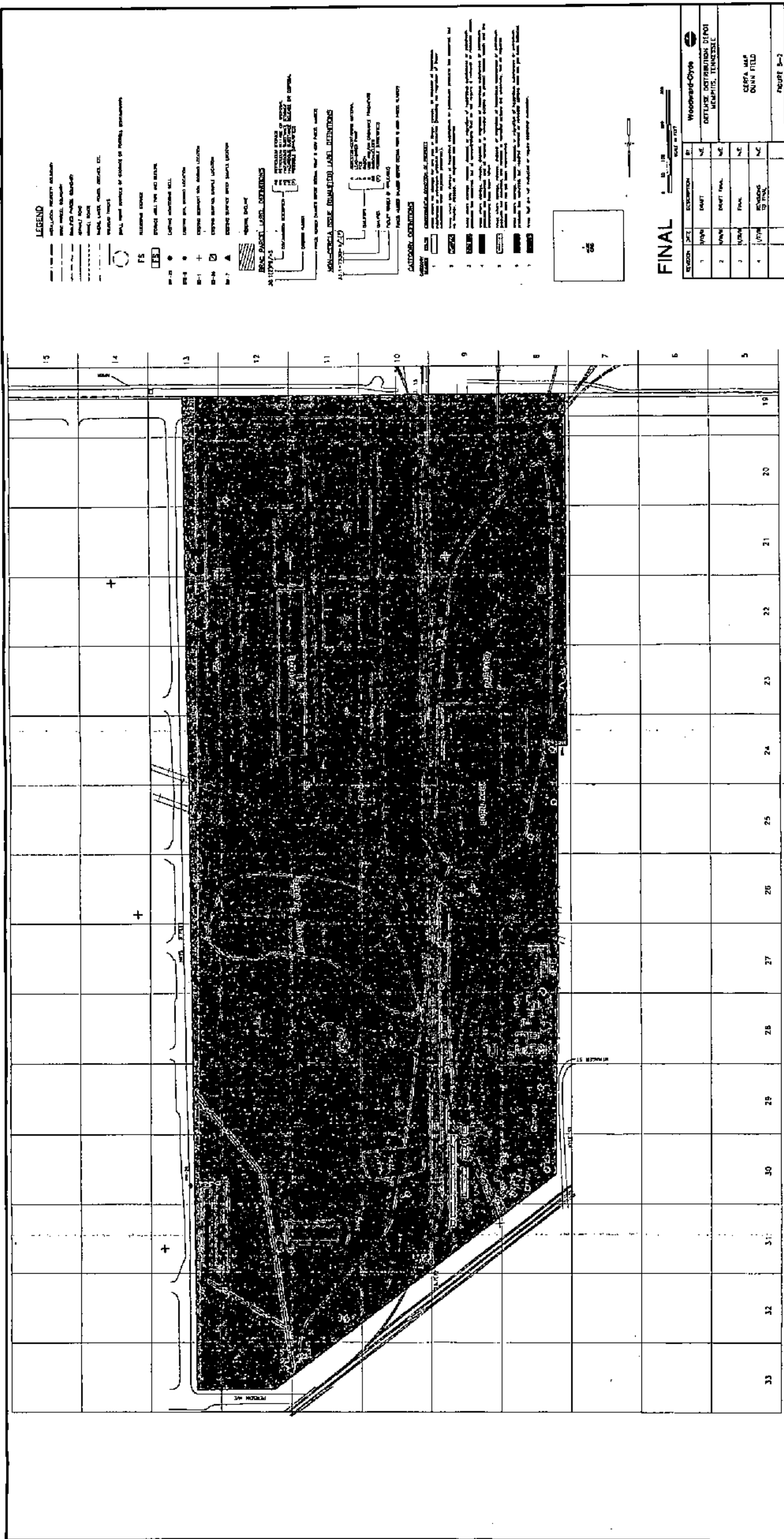
X = UXO and/or ordnance fragments

RD = radionuclides

(P) = possible (unverified)

^b Acreage figures are approximate; they have been calculated using AutoCad Release 12.^c EBS Source of Evidence numbers refer to documents listed in Table 2-1 of this report.





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SECTION SIX

REFERENCES

The primary documents identified in Section 2.1.1 are denoted in this section with a parenthetical number. This number is the EBS Source of Evidence Document Identification Number and can be cross-referenced with Table 2-1.

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- _____. 1994d. Radioactive Waste Interoffice Memorandum.
- _____. 1994e. *Regional Hazardous Waste Management Plan.*
- _____. 1994f. Transformer Records.
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- _____. 1994h. Update of Remedial Investigation/Feasibility Study.
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TAB

Appendix A

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APPENDIX A
COMMENT RESPONSE PACKAGE

**RESPONSES TO COMMENTS ON THE
DEFENSE DISTRIBUTION DEPOT MEMPHIS, TENNESSEE
DRAFT ENVIRONMENTAL BASELINE SURVEY REPORT
DATED MAY 24, 1996**

APPENDIX A

COMMENT RESPONSE PACKAGE

Appendix A presents the comments Woodward-Clyde Federal Services received on the *Defense Distribution Depot Memphis, Tennessee Draft Environmental Baseline Survey Report*, dated May 24, 1996, and the responses to these comments.

The comments have been typed verbatim and may include misspellings, grammatical errors, format inconsistencies, internal agency numbering systems, etc. Each comment and response has been sequentially numbered (A-1, A-2, A-3, etc.). This numbering system is used to reference previous comments or a response that may clarify a previously addressed issue.

The comments have been organized by agency and are separated by sections (A.1, A.2, A.3, etc.). The comments are presented in the following order:

- Installation
- U.S. Environmental Protection Agency
- State of Tennessee
- U.S. Army Materiel Command
- Defense Logistics Agency
- U.S. Army Environmental Center
- U.S. Army Corps of Engineers
- Other Agencies and Organizations

APPENDIX A**COMMENT RESPONSE PACKAGE****A.1 RESPONSES TO INSTALLATION COMMENTS ON THE DRAFT EBS REPORT****A.1.1 RESPONSES TO BRAC ENVIRONMENTAL COORDINATOR COMMENTS ON THE DRAFT EBS REPORT**

ENTITY: Defense Distribution Depot Memphis

INDIVIDUAL: Christine Kartman

TITLE: BRAC Environmental Coordinator

DATE: July 18, 1996

General Comments:

Comment A-1:

1. Throughout text ensure MDRA is spelled out correctly: Memphis Depot Redevelopment Agency.

Response:

Comment noted. The text has been revised accordingly.

Comment A-2:

2. Throughout document change Defense Depot Memphis, Tennessee to Defense Distribution Depot Memphis, Tennessee.

Response:

Comment noted. The text has been revised accordingly.

Executive Summary:

Comment A-3:

1. Page i, 1st para: Insert Distribution between Defense and Depot.

APPENDIX A**COMMENT RESPONSE PACKAGE****Response:**

Comment noted. The text will be revised accordingly.

Comment A-4:

2. Page i, 3rd para: Delete "approximately".

Response:

Comment noted. The text has been revised accordingly.

Comment A-5:

3. Page ii, 1st para, last 2 sentences: Verify information with BRAC Closure Officer.

Response:

Comment noted. The information has been verified. The text has been revised accordingly.

Comment A-6:

4. Page ii, 3rd para: Delete "approximately" describing "642 acres identified for transfer". The text indicates 179.25 acres, but the table indicates 179.26. Change either to reflect correct acreage. Why isn't any Chemical Warfare Material acreage identified?

Response:

Comment noted. The text has been revised accordingly. CWM acreage is not identified since CWM is not a qualifier.

Comment A-7:

5. Acreage Table: Is it 179.26 or 179.25?

Response:

Comment noted. The table has been revised to reflect the correct acreage.

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APPENDIX A**COMMENT RESPONSE PACKAGE**

Table of Contents:**Comment A-8:**

1. Item 3.4.9: Change "Fire Training" to "Fire Fighting" as fire training by the Memphis Fire Department is no longer conducted on DDMT.

Response:

Comment noted. The text has been revised to clarify the issue.

Comment A-9:

2. Item 4.4.5: change Unexploded Ordnance to Chemical Warfare Materials.

Response:

Comment noted. The text has been revised to clarify the issue.

List of Acronyms:**Comment A-10:**

1. CEHND is now CEHNC: U.S. Army Engineering Huntsville Support Center.

Response:

Comment noted. After further clarification from DDMT personnel, the text has been revised to CEHNC: U.S. Army Engineering and Support Center, Huntsville.

Comment A-11:

2. Where is DDMT: Defense Distribution Depot Memphis, Tennessee?

Response:

Comment noted. The acronym DDMT has been added to the acronym list.

Comment A-12:

3. DOD: Department of Defense; no "the"

APPENDIX A**COMMENT RESPONSE PACKAGE****Response:**

Comment noted. The text has been revised accordingly.

Comment A-13:

4. MDRA: Memphis Depot Redevelopment Agency

Response:

Comment noted. The text has been revised accordingly.

Comment A-14:

5. USACDRA's name has changed.

Response:

Comment noted. USACDRA has been changed to PMCD, Program Manager for Chemical Demilitarization.

Section One:**Comment A-15:**

1. Page 1-1, 1st para, 1st sentence: Delete second "report".

Response:

Comment noted. The text has been revised accordingly.

Comment A-16:

2. Page 1-3, Section 1.3: Eliminate term BRAC parcel. Redo parcel designations to reflect MDRA parcels. MDRA stands for Memphis Depot Redevelopment Agency.

Response:

Comment noted. The text has been revised accordingly.

FINAL

APPENDIX A

COMMENT RESPONSE PACKAGE

Comment A-17:

3. Page 1-4: Eliminate BRAC in Suitable and Not Suitable for Transfer.

Response:

Comment noted. The text has been revised accordingly.

Comment A-18:

4. Page 1-5: Eliminate BRAC parcel in parcel labels

Response:

Comment noted. The text has been revised accordingly.

Comment A-19:

5. Page 1-6, 1st para: Use other qualifier than X since no UXO exists.

Response:

Comment noted. The "X" qualifier will be used. Areas used as firing ranges are assumed to contain UXO and/or ammunition components (e.g., metal casings from small arms, projectiles from large ammunition). Two pistol ranges have been identified at the DDMT that will be qualified for UXO.

Comment A-20:

6. page 1-7, 1st para: According to the official property records, the total acres for the main installation is 574 acres. Dunn Field is 68 acres. Verify all figures with BRAC Closure Officer.

Response:

Comment noted. The acreage figures have been verified.

Comment A-21:

7. Page 1-8, 2nd para, 1st sentence: Change to read: "In Memphis and Shelby County..."

APPENDIX A**COMMENT RESPONSE PACKAGE****Response:**

Comment noted. The text has been revised accordingly.

Comment A-22:

8. Page 1-8, para 3: Up-to-date census data should be utilized.

Response:

Comment noted. The text has been revised to reflect up-to-date census data.

Comment A-23:

9. Figure 1-3 and Page 1-12, 1st para: Use updated potentiometric map from 1996 monitoring well sampling effort. Change language to indicate 1996 potentiometric surface map.

Response:

Comment noted. The figure and text have been revised to incorporate the 1996 figure.

Section Two:**Comment A-24:**

1. Existing Document Table, last entry: Should use the Final RI Report dated August 1990.

Response:

Comment noted. The text has been revised accordingly.

Comment A-25:

2. Page 2-4, 3rd & 4th Bullets: Delete references to DDRC. DDMT held, and still holds, the RCRA permit as a large generator and as a TSD.

Response:

Comment noted. The text has been revised accordingly.

APPENDIX A**COMMENT RESPONSE PACKAGE**

Comment A-26:

3. Page 2-5, Bullets: 1st bullet - find location for spills. 2nd bullet - DDMT was removed from State Superfund in February 1996. 4th bullet - All but 2 USTs have either been closed in place or removed.

Response:

Comment noted. The text has been revised accordingly.

Comment A-27:

4. Page 2-5, Section 2.1.2.1 table: Delete last three air permits. Permits 0209-01P, 0209-02P, and 0209-03P remain in effect. The other three have been closed.

Response:

Comment noted. The table has been revised to indicate that the permits 0209-04P, 0209-05P, and 0209-01I have been closed.

Comment A-28:

5. Page 2-9, Section 2.1.5 Interviews table: Johnny Carson's knowledge includes entire installation. Bill Gray's knowledge includes entire installation. Ron Handwerker's knowledge includes entire installation. Ursula Jones works in the Environmental Protection and Safety Office and has knowledge of entire installation. Chris Kartman's knowledge includes entire installation beginning in 1993. Harold Roach's title is Industrial Engineer with the Installation Services organization and his phone number is 775-4904. Tommy Walker's phone number is 775-6394.

Response:

Comment noted. The table has been revised accordingly.

APPENDIX A**COMMENT RESPONSE PACKAGE****Comment A-29:**

6. Table 2-1, Page 5 of 5: Clarify the White Truck Body Used for Flammables Storage. Is this perhaps the Mogas truck? If so, it is not for storage; it is for transporting Mogas to other areas of the installation and filling vehicles.

Response:

Comment noted. The white truck body used for flammable storage is a connex (metal shipping/storage container) adjacent to Building S195. The table has been revised accordingly.

Section 3:**Comment A-30:**

1. Page 3-2, Section 3.3, 2nd para: Change to Memphis Depot Redevelopment Agency and 36 parcels.

Response:

Comment noted. The text has been revised accordingly.

Comment A-31:

2. Page 3-2, Section 3.3.1, 5th bullet: Either delete reference to Golf Course Club House or change to read Former Golf Course Club House.

Response:

Comment noted. The text has been revised to read Former Golf Course Club House.

Comment A-32:

3. Page 3-4, Section 3.3.6: DDMT has concerns about the way information is presented. In places the information seems to reflect current conditions and in others it seems to reflect past conditions. DDMT has concerns about information regarding hazmat storage at locations hazmat is no longer stored at, i.e. X areas, chemical storage for buildings T404, T405, and T406, etc. To reflect current conditions; make the following changes: Change Building 319 to

APPENDIX A**COMMENT RESPONSE PACKAGE**

Hazardous Waste/Material and Alcohols. For Bldg S308 delete reference to Hazardous Waste. Building 689 contains material handling equipment and Hazardous Materials awaiting shipment; it is not a storage facility. Building 490 is not a storage facility; it is the central receiving facility where materials come in and are directed to storage warehouses. Building 690 contains material handling equipment and materials awaiting shipment; it is not a storage facility. At Bldg 359 spell out D5W. At Bldg S468 verify waste petroleum product drums. At Bldg S1089, which has two entries, better define miscellaneous chemicals, i.e. paints, solvents, etc. At Bldg S875 verify Hazardous Materials - only overflow POLs are in S875. **Unnumbered** should be deleted as it is either not an approved storage area or it is the Mogas truck which does not store flammables, only transports and dispenses.

Response:

Comment noted. The text has been revised accordingly.

Comment A-33:

4. Page 3-6, Open Storage Areas: Are these descriptions reflecting current or past conditions? If so, indicate. Flammables or petroleum products are no longer stored outside in X areas.

Response:

Comment noted. The text has been revised accordingly.

Comment A-34:

5. Page 3-7 through 3-13, Section 3.4: This entire section must have been pulled from an old report without being updated. For example: Section 3.4 - no pesticides currently stored at Dunn Field; no wood treatment with pentachlorophenol. Section 3.4.1, page 3-8, 2nd para - Bldg 629 no longer stores hazmat. Section 3.4.1, page 3-8, 3rd para - Bldg 319 is the hazwaste/hazmat and alcohols storage for DRMO. Hazmat requiring controlled temperatures are store in 359. Cyanide compounds were stored in 319. Building 835 has been operational since 1989. Section 3.4.1, 3rd para - Class 1 flammable liquids are no longer stored in X areas. We had two fabric buildings. Now, we have one. Building 925, which stores

APPENDIX A**COMMENT RESPONSE PACKAGE**

flammable liquids (55-gallon drums), built over site of other. The fabric tension building at T267 fell down and was never rebuilt. ETC. ETC. ETC. Section 3.4.1.2, page 3-9, 1st para - Hazardous wastes are generated two ways: depot maintenance operations and hazardous materials with expired shelf life. Spill cleanup accounts for a very small amount of waste generated. 2nd para - DRMO never built the conforming storage facility. DRMO currently stores hazmat in Bldg 319, not 1086.

Response:

Comment noted. The text has been revised accordingly.

Comment A-35:

6. Page 3-9, Section 3.4.2, 1st para: Dunn Field was not a Sanitary landfill.

Response:

Comment noted. The text has been revised accordingly.

Comment A-36:

7. Page 3-10, Section 3.4.5, 1st para: DDMT uses only potable water, no industrial water. 3rd para: Potable water no longer tested by Installation Environmental Health Section as they are no longer a tenant.

Response:

Comment noted. The text in the first paragraph has been revised to delete the reference to industrial water. The text in the third paragraph has been revised to past tense to reflect historical activities.

Comment A-37:

8. Page 3-11, Section 3.4.6, 2nd para: DDMT's current NPDES permit allows for stormwater only. All other sanitary sewer connections have been disconnected. No wastewater, only

APPENDIX A**COMMENT RESPONSE PACKAGE**

stormwater which is tested for flow, pH, oils & grease (main installation) plus magnesium and aluminum at Dunn Field.

Response:

Comment noted. The text has been revised accordingly.

Comment A-38:

8. Page 3-12, Section 3.4.8, 1st para, 5th sentence: Change "in Dunn Avenue" to on. Also, verify current conditions.

Response:

Comment noted. The text has been revised accordingly.

Comment A-39:

9. Page 3-12, Section 3.4.9: Lake Danielson was used by MFD until around 1989. DDMT no longer has a firefighting training program even for extinguishers.

Response:

Comment noted. The text has been revised to indicate that these fire training activities were past activities.

Comment A-40:

10. Page 3-12, Section 3.4.10: DDMT has a clinic on-base which provides limited medical services.

Response:

Comment noted. The text has been revised to add the on-base clinic.

APPENDIX A**COMMENT RESPONSE PACKAGE****Comment A-41:**

11. Page 3-12, Section 3.4.11: Delete last two sentences in this paragraph. The housing units are still in use.

Response:

Comment noted. The last two sentences in this paragraph have been deleted.

Comment A-42:

12. Page 3-13, Section 3.5: DDMT offers habitat to ducks and geese at both the pond and the lake. Change reference to "new hazardous materials warehouse" to Building 835. Historical buildings are currently being identified.

Response:

Comment noted. The text has been revised to include ducks and geese at the pond and Lake Danielson. In addition, Building 835 has been referenced as the new hazardous materials warehouse.

Comment A-43:

13. Table 3-1: Make changes in accordance with changes mentioned above.

Response:

Comment noted. The table has been revised accordingly.

Comment A-44:

14. Table 3-2: Find out tank type, do not put unknown. If excavated, then they were probably USTs. In present status column, USTs are either active, removed, or closed in place - not "not applicable".

Response:

Comment noted. The table has been revised accordingly.

APPENDIX A**COMMENT RESPONSE PACKAGE**

Section Four:**Comment A-45:**

1. Page 4-1, Section 4.1: Put sources in chronological order. 4th bullet: The RI was completed, but it did not fully identify or delineate the problem; therefore, the RI continues.

Response:

Comment noted. The sources are already in chronological order. The fourth bullet has been revised to indicate that the RI is ongoing.

Comment A-46:

2. Page 4-2, 2nd bullet: What about all the other USTs that were removed or closed in place since FY93. Only two USTs remain at DDMT. 1st para: Huntsville's proper name is U.S. Army Corps of Engineers Huntsville Support Center, CEHNC.

Response:

Comment noted. The text has been revised accordingly.

Comment A-47:

3. Page 4-5, OUI Table, Site 86: Current disposition of site is CWM.

Response:

Comment noted. The table has been revised to reflect the current disposition of Site 86.

Comment A-48:

4. Page 4-15, NFA Table, Site 86: No longer NFA due to possibility of CWM.

Response:

Comment noted. Site 86 has been deleted from the NFA Table.

APPENDIX A**COMMENT RESPONSE PACKAGE****Comment A-49:**

5. Page 4-15, Section 4.1.2.5, 2nd para: Correct Huntsville's name.

Response:

Comment noted. The text has been revised accordingly.

Comment A-50:

6. Page 4-16, Section 4.1.2, Phase 1&2: Correct Huntsville's name.

Response:

Comment noted. The text has been revised accordingly.

Comment A-51:

7. Page 4-16, Section 4.2, Table: What is Commercial facility use?

Response:

Comment noted. The table has been revised to clarify the correct facility usage.

Comment A-52:

8. Page 4-21, Section 4.3.2.3: Auto Zone no longer occupies this location. Suggest changing heading. 1st para, last sentence: Wording suggests hydraulic conveyance does occur between Fluvial and Memphis Sands Aquifers.

Response:

Comment noted. The heading for Section 4.3.2.3 has been changed to Adjacent Industrial Facilities. The text has been revised to clarify the relationship between the two aquifers, incorporating recent data.

APPENDIX A**COMMENT RESPONSE PACKAGE**

Comment A-53:

9. Page 4-24, Section 4.4.3: Find testing results, all transformers were tested and labeled in 1993. Update this section.

Response:

Comment noted. The section has been revised to reflect that all PCB-containing transformers have been removed from the installation.

Comment A-54:

10. Page 4-26, Section 4.4.4: Radon survey has been completed. Test results were all below 4 pci.

Response:

Comment noted. The text has been revised to incorporate the radon survey.

Comment A-55:

11. page 4-28, Section 4.4.6: DDMT does not have a NRC license because we do not store Krypton-85.

Response:

Comment noted. The first paragraph of Section 4.4.6 has been revised to past tense for the NRC license.

Comment A-56:

12. Page 4-29, Section 4.4.7, 3rd para: Delete last sentence.

Response:

Comment noted. The text has been revised accordingly.

APPENDIX A**COMMENT RESPONSE PACKAGE****Comment A-57:**

13. Page 4-33, 1st para, 1st sentence: Delete common following "report".

Response:

Comment noted. The text has been revised accordingly.

Section Five:**General Comment****Comment A-58:**

Isn't this document supposed to identify environmental conditions that may be associated with parcels? If so, shouldn't parcel descriptions include all information concerning past spills, storage, etc.? Some EBS parcel descriptions do not go into details that are in SAR. For instance, some EBS parcel descriptions mention that "according to DDMT personnel, sampling is recommended for the surface soils around the buildings in this parcel." Why? What caused the need for sampling?

Response:

Comment noted. The text has been revised to correspond with the SAR, clarifying the sampling requirement.

Comment A-59:

1. Page 5-9, spill list: Put in chronological order.

Response:

Comment noted. The text has been revised accordingly.

Comment A-60:

2. Page 5-40, Parcel 144(7): The bauxite piles are not covered. The fluorspar piles are covered.

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APPENDIX A**COMMENT RESPONSE PACKAGE**

Response:

Comment noted. The text has been revised accordingly.

Comment A-61:

3. Page 5-41, Parcel 145(7): See above.

Response:

Comment noted. The text has been revised accordingly.

Comment A-62:

4. Table 5-1a, Page 11 of 25, Parcel 72(7): "This building..." What building?

Response:

Comment noted. The text has been revised to include the building number.

APPENDIX A**COMMENT RESPONSE PACKAGE**

**A.2 RESPONSES TO U.S. ENVIRONMENTAL PROTECTION AGENCY
COMMENTS ON THE DRAFT EBS REPORT****A.2.1 RESPONSES TO U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION IV
COMMENTS ON THE DRAFT EBS REPORT**

ENTITY: U.S. Environmental Protection Agency, Region IV

INDIVIDUAL: Dann Spariosu

TITLE: Remedial Project Manager

DATE: July 18, 1996

General Comment

Comment A-63:

The BRAC Cleanup Team (BCT) has decided, for the time being, to use the parcel designations proposed by the Memphis Depot Redevelopment Agency (MDRA). The EBS should therefore reflect the 1-36 parcel designation and numbering system.

Response:

Comment noted. The BRAC parcel numbering system has been revised in accordance with decisions made at the July 18, 1996 BCT meeting.

Specification Comments:

Comment A-64:

1. Figure 1-3: The 1996 potentiometric surface map should be used

Response:

Comment noted. The figure has been revised accordingly.

APPENDIX A**COMMENT RESPONSE PACKAGE****Comment A-65:**

2. P. 2-3, Section 2.1.2 and p. 2-12, Section 2.2.1, p. 5-: Woodward-Clyde did not perform a search of federal records pertaining to DDMT.

Response:

Comment noted. The text has been revised to reflect a partial search of federal records.

Comment A-66:

3. P. 4-17: The table should be expanded to reflect potential contamination in all of the Category 7 parcels.

Response:

Comment noted. The table has been expanded to reflect potential contamination in all of the Category 7 parcels.

Comment A-67:

4. P. 5-2, Sect. 5.1.2: Delete "... in amount exceeding their reportable quantity. . .". Also strike any other references to "exceeding reportable quantity" in the EBS (if any). CERFA does not establish any minimum quantities in defining hazardous waste storage. I am not sure about petroleum storage.

Response:

Comment noted. The text has been revised accordingly.

Comment A-68:

5. Re: Army COE comment #2, page I, 1st para: EPA considers unexploded ordnance a CERCLA waste and a RCRA waste after disposal.

Response:

We do not concur. However, it should be noted that the limited potential presence of UXO has been identified and documented in the EBS report. Prior to transfer or lease, a Finding of

APPENDIX A**COMMENT RESPONSE PACKAGE**

Suitability to Transfer or Lease (FOST or FOSL) will be conducted to determine whether, and how, to proceed.

APPENDIX A**COMMENT RESPONSE PACKAGE****A.3 RESPONSES TO STATE OF TENNESSEE COMMENTS ON THE DRAFT EBS****A.3.1 RESPONSES TO TENNESSEE DEPARTMENT OF ENVIRONMENT AND
CONSERVATION ON THE DRAFT EBS REPORT**

ENTITY: Tennessee Department of Environment and Conservation

INDIVIDUAL: Terry R. Templeton

TITLE: Project Manager

DATE: July 18, 1996

General Comments**Comments A-69:**

One of the major purposes of this report is to identify, classify, and label all the parcels of the Defense Depot according to their environmental condition. To this end, extensive tables of data are employed with various characteristics of each parcel identified and with various identification schemes. The current parcel identification scheme is confusing. The Division suggests an identification scheme that employs a common numbering system. This system should have as its primary identifier the MDRA parcel number. The information that is currently found in the tables, including the information from which the parcel "label" is derived, should be maintained. But the primary, unique parcel identification number should be simplified. The Division's ideas on a modified identification scheme were discussed during the BCT meeting proposed for July 18, 1996.

Another crucial element of the EBS report is the accurate assessment of the environmental condition of all areas of the Depot facility. If there are areas where potential environmental problems exist that may have been overlooked during the EBS survey, or if an environmental problem in a parcel has been overstated, the Division seeks assurance that review methods will be able to identify and correct these problems. The Division believes that one of the primary ways this can occur is to rely on the intimate facility knowledge of DDMT personnel. The Division will assist this effort in any way possible. Correcting erroneous assessments of either

APPENDIX A**COMMENT RESPONSE PACKAGE**

type offers an opportunity for cost-savings and increasing the level of protection of public health and the environment.

Response:

Comment noted. The parcel numbering system has been revised in accordance with decisions made at the July 18, 1996 BCT meeting. In addition, the text has been revised in accordance with DDMT personnel recommendations.

Specific Comments**Comment A-70:**

List of Acronyms, page x:

Pentachlorophenol (PCP) is misspelled.

Response:

Comment noted. The text has been revised accordingly.

Comment A-71:

Section 1.5.2, page 1-8:

The Division is unclear why there is estimated data for 1988 instead of actual data from the 1990 census.

Response:

Comment noted. This section has been revised to include up-to-date census data.

Comment A-72

Section 1.5.5, page 1-11:

In the first sentence, how does an elevation range of 282 to 300 feet translate to 110 feet of relief in the DDMT area?

Response:

Comment noted. The text has been revised accordingly.

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APPENDIX A**COMMENT RESPONSE PACKAGE**

Comment A-73:

Section 1.5.5, page 1-11:

The statement at the top of the page that very few earthquakes have occurred in the Memphis/Shelby County area is a little misleading. Historical records indicate quite a number of earthquakes that have been felt in the area, even if the epicenter of the earthquake was somewhere else. In addition, the seismicity of the area is well documented, even if the majority of the events are microearthquakes and not felt by people.

Response:

Comment noted. The text has been revised to include microearthquakes.

Comment A-74:

Section 1.5.6, page 1-11:

It seems reasonable, in the context of the fourth paragraph, to mention the thickness of the Memphis Sand. In the next paragraph, it would seem to be more appropriate to state that the Fort Pillow Sand "averages" 200 feet thick, rather than saying it is "reported to average"; either it does or it doesn't average 200 feet.

Also in the fourth paragraph there is a reference to the recharge area of the Memphis Sand being "several miles east of Memphis." Because the outcrop area of the Memphis Sand formation is well known, the distance should be stated in actual miles. The distance can be construed to be more than "several" miles, depending on the definition of "several."

Response:

Comment noted. The text has been revised accordingly.

APPENDIX A**COMMENT RESPONSE PACKAGE****Comment A-75:**

Section 1.5.6, page 1-12:

The second word in the first line on this page should be artesian, not "artisan." In addition, the hydrogeologic units referred to at the end of this sentence should probably be defined.

Also, regarding Figure 1-3 referred to in this section, can the latest version of the "Potentiometric Surface Map of Fluvial Aquifer" be used instead of the November 1993 version?

Response:

Comment noted. The text has been revised accordingly. In addition, Figure 1-3 has been revised to include the latest data.

Comment A-76:

Section 2.1.2, page 2-5:

The second bullet on this page referring to DDMT being on the "State Superfund Promulgated Sites list" is partly incorrect. The list is more correctly referred to as the Tennessee list of Inactive Hazardous Substance Sites. In addition, DDMT has been removed from the Tennessee list.

Response:

Comment noted. The text has been revised to reflect the current status.

Comment A-77:

Section 2.1.2.2, page 2-7:

The "Violation Rule Number" is missing from the first entry in the table on this page.

Response:

Comment noted. The table has been revised to clarify this discrepancy.

APPENDIX A**COMMENT RESPONSE PACKAGE**

Comment A-78:

Section 2.1.3, page 2-8:

Should an index or list of photos used be provided to assist public access?

Response:

Comment noted. The dates of the aerial photographs reviewed have been listed.

Comment A-79:

Section 2.1.5, page 2-9:

The title of the table on this page is somewhat misstated. Perhaps it could be called
"Summary of DDMT Personnel Interviews"?

Response:

Comment noted. The title of the table has been changed to "DDMT Personnel Interviewed and Areas Discussed."

Comment A-80:

Section 3.4.5, page 3-10:

In the first paragraph of this section the Fort Pillow Sand Aquifer is incorrectly referred to as being 1,400 feet thick.

Response:

Comment noted. The text has been revised to reflect that the Fort Pillow Sand Aquifer is 200 feet thick.

Comment A-81:

Section 4.1.1.3, page 4-9:

Is 0.0022 mg/L referred to as a higher level of pesticides a correct number?

APPENDIX A**COMMENT RESPONSE PACKAGE****Response:**

Comment noted. The text has been revised to indicate that 0.0022 mg/L is a slightly higher concentration of pesticides.

Comment A-82:

Section 4.5.3.1, page 4-32:

The last sentence on this page is a bit confusing. The last clause of this sentence could be construed that a second aquifer is involved. The deeper Memphis Sand aquifer is also the drinking water aquifer for the city of Memphis.

Response:

Comment noted. The text has been revised to clarify that only one aquifer is involved.

Comment A-83:

Section 4.5.3.1, page 4-33:

The first sentence on this page has an apparent common splice ("...design report, was prepared...").

Response:

Comment noted. The text has been revised accordingly.

Comment A-84:

Section 5.1, page 5-1 (reference to Figure 5-1):

There are several comments to make about the CERFA Maps. First, the distinction between boundary lines, while marginally discernible in the legend, is virtually impossible to make on the map itself. Second, it would be useful to have the grid coordinate scales duplicated on the top and right sides of the map for ease in locating site or parcel coordinates. In addition the matter of parcel identification, labeling, and cross-referencing data parcel tables needs to be addressed.

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APPENDIX A**COMMENT RESPONSE PACKAGE**

Response:

Comment noted. The CERFA maps have been revised accordingly.

Comment A-85:

Section 5.1.7, page 5-11, BRAC Parcel Number and Label 3(7):

See the comment for page 1 of the SAR that refers to this Parcel.

Response:

Comment noted. The text for BRAC Parcel Number and Label 3(7) has been revised to correspond with the SAR.

Comment A-86:

Table 5-1b, page 1 of 12:

This is an example of a spot check of a table entry. There seems to be no BRAC Parcel No. and Label 1-1Q-A/L(P) at coordinates 32, 10 on Figure 5-1, the CERFA map.

Response:

Comment noted. BRAC qualified parcel labels are not shown on Figures 5-1 or 5-2. A sentence has been added to Section 5.1.8 for clarification.

APPENDIX A**COMMENT RESPONSE PACKAGE**

**A.4 RESPONSES TO U.S. ARMY MATERIEL COMMAND COMMENTS ON THE
DRAFT EBS REPORT**

The U.S. Army Materiel Command did not comment on the Draft EBS Report.

APPENDIX A**COMMENT RESPONSE PACKAGE**

**A.5 RESPONSES TO DEFENSE LOGISTICS AGENCY COMMENTS ON THE
DRAFT EBS REPORT**

ENTITY: Defense Logistics Agency

INDIVIDUAL: Dennis J. Lillo

TITLE: Director, Environmental Quality

DATE: October 30, 1996

Comment A-87:

1. Throughout the document are many sections that must be changed because of the recent change in the law describing the "CERFA" requirement (and DOD's corresponding change in the description of the categories of property), and allowing the transfer of property before the cleanup remedy is in place. Suggest a categorical statement be included early in the document indicating the requirements the document was prepared under. Otherwise, many sections will need updating, such as paragraph 2 in the Executive Summary and the last paragraph of section 1.1.

Response:

Comment noted. Section 1.2 indicates that this document was prepared in accordance with the 1993 *BRAC Cleanup Plan (BCP) Guidebook*.

Comment A-88:

2. Executive summary, page ii, second paragraph. The last sentence indicates that no sampling activities were associated with the EBS. This is not true; there is a very detailed plan for the associated sampling. Reword the sentence to reflect the sampling that will be done.

APPENDIX A**COMMENT RESPONSE PACKAGE**

Same page, end of last paragraph. There are no UXO sites — see comment 14 below. Also make same correction to UXO acreage in table on p. iii, and other corresponding tables.

Response:

Comment noted. The sampling outlined in the Sampling and Analysis Recommendations Report will not be incorporated into the EBS. Therefore, the text is correct in stating that no sampling activities were associated with the EBS.

In regard to the comment associated with UXO, see the response to Comment A-100.

Comment A-89:

3. Section 1.2. Change "the obviousness of the presence" to "the obvious presence."

Response:

Comment noted. The text has been revised accordingly.

Comment A-90:

4. Section 1.4. The description of this work sounds weaker than necessary. Visual inspections were performed as part of the work leading up to the EBS and they should be described in this paragraph, perhaps as part of the second sentence.

Response:

Comment noted. The text has been revised to include the visual inspections.

Comment A-91:

5. Section 2.1.5. It is disturbing that no "old-timers" were interviewed in this review. Out of a total of 25, Table 2-8 indicates only 4 people who worked at the depot in the 60's were interviewed! It appears that no one who worked at the installation before DLA management was contacted. At least, the results of such interviews conducted as part of earlier studies should be explicitly included in this report. Add another table for interview sources taken from earlier documents to reflect interviews with former Army employees at this location, etc.

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APPENDIX A**COMMENT RESPONSE PACKAGE**

Response:

Comment noted. A representative sampling of individuals was interviewed to provide a comprehensive overview of the installation.

Comment A-92:

6. Section 2.2.1, second paragraph, states "potential off-site sources of contamination are still being evaluated." Indicate explicitly by whom. For example, . . . by the state regulator or . . . by the U.S. Army.

Response:

Comment noted. Section 2.2.1 has been revised to clarify this issue.

Comment A-93:

7. Section 3.2 is very weak. What happened at the depot before 1963? Add a description of mission and activities throughout the years that the Army ran the installation. Now the history jumps from Army purchase and prisoners to DLA management. Twenty years of history must be addressed.

Response:

Comment noted. The records review did not provide detailed information regarding the activities during the years that the Army ran the installation. Section 3.2 provides an overview of the mission of the installation during that time period.

Comment A-94:

8. Section 3.4.2 contains a sentence, "The installation did not receive any waste from off-site sources." How can this be true? What about the mustard bombs? Not to mention DRMO material. Reword or delete.

APPENDIX A**COMMENT RESPONSE PACKAGE****Response:**

Comment noted. The above referenced sentence has been deleted from Section 3.4.2. In addition, Section 3.4.1 has been revised to indicate that DRMO does receive hazardous materials (not hazardous waste) from off-site sources.

Comment A-95:

9. Section 4.1.1. Do the site numbers correspond with the DoD system (DSERTS/RMIS)? Please add a statement indicating this to the end of the paragraph.

Response:

The site numbers were obtained from the *Generic Remedial Investigation/Feasibility Study Work Plan* (CH2M Hill 1995b). They were devised based on information contained in the *RFA Report* (A. T. Kearney 1990), the *Remedial Investigation Final Report* (Law Environmental 1990c), and the Federal Facilities Agreement for the DDMT.

Comment A-96:

10. Table 4-1 (and similar tables), footnote b. Spell out RFA.

Response:

Comment noted. In the title of the report, RCRA Facility Assessment is not spelled out. Note "b" gives the title of the report; therefore, RFA is not spelled out.

Comment A-97:

11. Section 4.1.2.2. Be more specific — include a table listing the potential early removal sites, as was done for screening sites in section 4.1.2.3.

Response:

Comment noted. A table summarizing the early removal sites has been added to Section 4.1.2.2.

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APPENDIX A**COMMENT RESPONSE PACKAGE**

Comment A-98:

12. Table 4-5 should include DSERTS sites or matching numbers.

Response:

See the response to Comment A-95.

Comment A-99:

13. Section 4.3.2.2 should include a list of the tanks.

Response:

Comment noted. The state of Tennessee database of known or suspected LUSTs did not provide a list of the tanks.

Comment A-100:

14. Section 4.4.5 should be revised in accordance with earlier discussions, regarding pistol ranges not being UXO sites. (See attached UXO definition from DDESB.) Corresponding adjustments should be made throughout the document.

Response:

Comment noted. In accordance with guidance from the U.S. Army Environmental Center and the U.S. Army Corps of Engineers, areas used as firing ranges are assumed to contain UXO and/or ammunition components (e.g., metal casings from small arms, projectiles from large ammunition). Therefore, these areas have been qualified for UXO.

Comment A-101:

15. Section 4.4.7. There have been some indications that past cleanup actions related to pesticides could have resulted in deed restrictions. Please verify this and address it in the EBS if relevant.

APPENDIX A**COMMENT RESPONSE PACKAGE****Response:**

Comment noted. The pesticides in soils are currently being evaluated as part of the ongoing RI/FS.

Comment A-102:

16. Section 4.5.2, second paragraph, last sentence. How could this be? Look harder - suggest contacting DoD employees involved at the time, such as Rick Bowlus, 410-671-5208.

Response:

Comment noted.

Comment A-103:

17. Section 4.5.3.1. We understood that the well location was changed necessitating a change to the second bullet.

Response:

Comment noted.

Comment A-104:

18. Section 5.1.4, parcel 20.4. Wasn't the hydraulic fluid spill still managed from a housekeeping standpoint? Please describe. NOTE: Please apply this as a generic comment whenever the statement occurs that the spill wasn't big enough to warrant removal or remediation. For example, see also parcel 21.3.

Response:

Comment noted. The text has been revised accordingly.

APPENDIX A**COMMENT RESPONSE PACKAGE**

Comment A-105:

19. Section 5.1.7, parcel 4.6. Woodward Clyde's visual inspection evidently identified an ongoing leak. What was done about this? If it was corrected on the spot, the next day, etc. state so in this paragraph.

Response:

Comment noted. The text has been revised accordingly.

Comment A-106:

20. Section 5.1.7, parcel 6.1, fix typo, "buildings the railroad."

Response:

Comment noted. The text has been revised accordingly.

Comment A-107:

21. Section 5.1.7, parcel 27.2. Replace "was potentially" with "may have been."

Response:

Comment noted. This language has also been used in other parcel descriptions and in Table 5-1a. The text has been revised accordingly.

Comment A-108:

22. Section 5.1.7, parcel 36.1 refers to early removal site 2 — where in this document are these sites listed and numbered?

Response:

Comment noted. Section 4.1.2.2 has been revised to include a table of proposed early removal sites.

APPENDIX A**COMMENT RESPONSE PACKAGE****Comment A-109:**

23. Section 5.1.7, parcel 36.29 refers to "ordnance burn area." This needs to be fleshed out more in this report, maybe not in this section but SOMEWHERE. What happened with ordnance here? Was it mission stock at the depot? Was it just some ordnance passing through?

Response:

Comment noted. Section 4.4.5 has been revised to include a description of the ordnance burn area.

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APPENDIX A**COMMENT RESPONSE PACKAGE****A.6 RESPONSE TO U.S. ARMY ENVIRONMENTAL CENTER COMMENTS ON THE DRAFT EBS REPORT**

ENTITY: U.S. Army Environmental Center

INDIVIDUAL: Kenneth E. Wiggans

TITLE: Chief, Restoration and Oversight Branch

DATE: July 3, 1996

Comment A-110:**1. Section 4:**

a. Section 4.3.2 Environmental Concerns From Adjacent or Surrounding Property. A list of the adjacent sites that could impact the installation should be included in this section. This can be done as a table providing site name, relative location, and contaminants of concern.

b. Section 4.4.2 Lead-Based Paint (LBP). The age of the housing units containing LBP should be included. The U.S. Housing and Urban Development (HUD) regulations require that in housing built prior to 1960, LBP must be abated prior to occupancy. This requirement does not apply to housing built between 1960 and 1978. The information on the water samples should be placed in a separate subsection on drinking water quality. However, this is not typically included in an EBS.

c. Section 4.4.5 Unexploded Ordnance. The discussion of the severity rating for the pistol range at Dunn Field should be expanded if possible. The Golf Course pistol range had a severity rating of negligible, yet, the Huntsville Division gave the range at Dunn Field a rating of catastrophic.

d. Section 4.4.7 Pesticides Usage. The 3rd paragraph on page 4-29 should be rewritten. The paragraph implies that DoD illegally dumped pesticides throughout the facility.

APPENDIX A**COMMENT RESPONSE PACKAGE**

Presumably the application of pesticides was in accordance with approved application requirements under FIFRA.

Response:

- a. We do not concur. It is beyond the scope of the EBS to list all contaminants of concern for adjacent properties.
- b. Comment noted. The ages (dates of construction) of the structures have been added to the text. Additionally, the paragraph referencing water quality samples for lead has been deleted.
- c. Comment noted. The discussion of hazard severity has been expanded.
- d. We do not concur. The third paragraph states, "It has been conceded by the DDMT that pesticide contamination exists basewide and is a result of direct application, not release."

Comment A-111:**2. Section 5:**

- a. The text in this section is redundant. All of this information is provided in Table 5-1.
- b. A summary table identifying the total acreage by CERFA classification should be included.
- c. The parcels as they have been broken down may be too small for realistic reuse. Real estate considerations should also be included in determining the size of the parcels. For example, the golf course is broken down into 7 parcels, yet it is more likely that the entire course will be transferred. Also, Building 489 has 2 parcels, the building itself and the loading dock. This should be one parcel. The two parcels do have different CERFA classifications, however, the combined parcel would classify as the highest number, 7 (more information needed). Following any additional studies, the parcel could then be classified as 3 based on the spill at the loading dock.
- d. Section 5.1.7 Category 7 Parcels. In most cases the contaminants of concern and media (soil, groundwater) are identified. However, for parcels 2, 14, 23, 29, 84, & 88, no information is given. These need to be reviewed and the discussion expanded. For example, for Parcel 2,

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APPENDIX A**COMMENT RESPONSE PACKAGE**

additional information is needed to address possible pesticide contamination in the soil around the demolished structures. This also makes it easier to review the Sampling and Analysis Plan, and to update the EBS for any future real estate action.

e. Section 5.1.7 BRAC Parcel 147. This parcel is described as being the fluvial aquifer at Dunn Field. The aquifer is not a parcel subject to transfer. A better description would be the northwest corner of Dunn Field. This area contains approximately 20 parcels. It might be easier to identify Dunn Field as one parcel with several potential sources of contamination (sites). This would not affect the overall classification as it would still remain as a category 7.

f. A column should be added to Table 5-1 providing a description of the parcel (e.g., Building 129, Golf Course, etc.)

Response:

- a. Comment noted.
- b. Comment noted. An acreage summary table has been added to this section.
- c. Comment noted. The BRAC parcel numbering system has been revised in accordance with decisions made at the July 18, 1996 BCT meeting.
- d. Comment noted. The discussion of these parcels has been expanded.
- e. Comment noted. The BRAC parcel numbering system has been revised in accordance with decisions made at the July 18, 1996 BCT meeting.
- f. Comment noted. Table 5-1 has been revised to add the parcel description.

Comment A-112:

3. Appendices: Completed Interview Forms (Appendix B) and Visual Inspection Forms (Appendix C) need to be included in the Final EBS.

Response:

A supplement to the EBS report will be created with completed interview and visual inspection forms. A limited number of copies will be available for review in Building 144, Room 153.

APPENDIX A**COMMENT RESPONSE PACKAGE****A.7 RESPONSES TO U.S. ARMY CORPS OF ENGINEERS COMMENTS ON THE DRAFT EBS REPORT****A.7.1 RESPONSES TO U.S. ARMY CORPS OF ENGINEERS, MOBILE DISTRICT COMMENTS ON THE DRAFT EBS REPORT**

ENTITY: U.S. Army Corps of Engineers, Mobile District

INDIVIDUAL: Ellis Pope

TITLE: Geographic Project Manager

DATE: July 18, 1996

Comment A-113:

1. General Comment: The BRAC parcel numbers should be revised to match the MDRA parcel numbers.

Response:

Comment noted. The BRAC parcel numbering system has been revised in accordance with decisions made at the July 18, 1996 BCT meeting. The MDRA parcel number is the primary designator for the BRAC parcels.

Comment A-114:

2. Executive Summary, Page i, 1st para: Identify PCBs, radon, radionuclides, and unexploded ordnance as non-CERCLA substances along with asbestos and lead-based paint.

Response:

Comment noted. The text has been revised accordingly.

APPENDIX A**COMMENT RESPONSE PACKAGE****Comment A-115:**

3. Executive Summary, Page i, 2nd para: Suggest changing the last sentence to read "...Category 5, 6, or 7 are not suitable for transfer without further investigations."

Response:

Comment noted. The text has been revised to read, "... Category 5, 6, or 7 are not suitable for transfer without further investigation or remediation."

Comment A-116:

4. Executive Summary, Page i, 3rd para: This paragraph should make it clear that the 642 acres being evaluated represents the entire facility.

Response:

Comment noted. The text has been revised accordingly.

Comment A-117:

5. Executive Summary, Page ii, 3rd para: The first sentence needs to be revised to show the number of parcels identified.

Response:

Comment noted. The text has been revised to show the number of parcels.

Comment A-118:

6. List of Acronyms, Pages ix - xi:

CERFA stands for Community Environmental Response Facilitation Act.

EBS stands for Environmental Baseline Survey.

HTRW stands for Hazardous, Toxic, and Radiological Waste

Phentachlorophenol is misspelled.

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APPENDIX A**COMMENT RESPONSE PACKAGE**

TDEC stands for Tennessee Department of Environment and Conservation. Make change globally.

VOC is listed twice.

Response:

Comment noted. The List of Acronyms has been revised accordingly.

Comment A-119:

7. Page 1-2, 1st para: Should pesticides be included in the list of substances not normally addressed under the IRP?

Response:

Comment noted. Pesticides have been removed from the list of substances not normally addressed under the IRP.

Comment A-120:

8. Page 1-2, 2nd para: The last sentence states that CERFA considers CERCLA contaminants and petroleum products. Doesn't it also consider non-CERCLA substances as stated in the first paragraph on this page?

Response:

CERCLA §120(h)(4) specifically refers to hazardous substances and petroleum products. We have removed "CERCLA" from the text to be consistent.

Comment A-121:

9. Page 1-2, Section 1.2, 2nd para: The latest version of the BCP Guidebook is 1995. This should also be in listed in the references in Section Six.

Response:

A major impact of the 1995 *BCP Guidebook* on the EBS process is the exclusion of petroleum and petroleum derivatives from the definitions of Categories 2 through 7. Army guidance

APPENDIX A**COMMENT RESPONSE PACKAGE**

requires petroleum storage and release to be disclosed in the FOST. To facilitate future FOST preparation, the DA BRAC office, in February 1996, directed the BRAC 95 EBS process to proceed based on the 1993 *BCP Guidebook* guidance.

Comment A-122:

10. Page 1-3, Section 1.3: The definition of adjacent properties should be revised to remove the phrase "on or off the installation". Adjacent properties are not on the installation.

Response:

Comment noted. The text has been revised accordingly.

Comment A-123:

11. Page 1-4: Why has the definition of Category 1 been expanded to include the sentence beginning with "Additionally". This is not in the definition given in the BCP Guidebook.

Response:

Comment noted. The text has been revised accordingly.

Comment A-124:

12. Page 1-5: The definition of reserve enclave should be removed or it should be stated that none of the installation will be retained as a reserve enclave unless that is the plan for Dunn Field.

Response:

Comment noted. Dunn Field will not be designated as a reserve enclave.

APPENDIX A**COMMENT RESPONSE PACKAGE**

Comment A-125:

13. Page 1-10, Section 1.5.5, 1st para.: The first sentence states that there is approximately 110 feet of relief. Is this for the entire surrounding area or for the depot only? If for the depot only, it is contradictory to the second sentence.

Response:

Comment noted. The text has been revised accordingly.

Comment A-126:

14. Page 2-5: The first bullet states that locations of the spills was not reported in the database. Do other depot records state where the spills occurred? If so, state that the information is contained in a later section.

Response:

Comment noted. The first bullet has been revised to indicate that DDMT records provided the spill locations and that this information is contained in Section 4.1.3 and on Table 4-1.

Comment A-127:

15. Page 2-8, Section 2.1.3: This section should state the year of each aerial photograph reviewed.

Response:

Comment noted. A table with the dates of the aerial photographs reviewed has been added to this section.

Comment A-128:

16. Page 2-13: Change footnote (5) to State Department of Environment and Conservation, UST Division, UST sites

Response:

Comment noted. The footnote has been revised accordingly.

APPENDIX A**COMMENT RESPONSE PACKAGE****Comment A-129:**

17. Page 3-2, Section 3.3.1: Why is Building S271 listed as Golf Course Club House? Is this a former use of this building?

Response:

Comment noted. Building S271 has been listed as the Former Golf Course Club House.

Comment A-130:**18. Table 3-1:**

Instead of listing the number of floors as "Unknown" for facilities such as flagpoles, antenna tower, tennis courts, swimming pools, etc., it would be more appropriate to say "Not Applicable". Also, there should not be any case where the number of floors of any of the structures is unknown. There has been no discussion at this point of the "MDRA Priority" or "Operable Unit" descriptions and the use of these in Table 3-1 may only serve to confuse. Is there a compelling reason to leave these categories in this table?

Why is Building S271 referred to as both USACE administrative building and Golf Course Club House?

The current storage/use of Facility No. S1090 and S1091 is not "Quonset Hut". That is the type of structure. From the description, its use should be paint storage.

Response:

Comment noted. Table 3-1 has been revised accordingly.

Comment A-131:

19. Table 3-2: The date of removal of the third tank listed is incorrect. Should this be July 1995?

Response:

Comment noted. Table 3-2 has been revised to indicate the date of removal of the third tank as July 1995.

APPENDIX A**COMMENT RESPONSE PACKAGE****Comment A-132:**

20. Figure 3-1: There is no previous discussion of operable units (OU). This figure would be better located in Section Four where the OU discussion is located.

Response:

Comment noted. The figure has been moved to Section Four.

Comment A-133:

21. Page 4-6, 1st para: The units for PAH contaminated soil should be mg/kg, not mg/L. Also, the units for metals in groundwater should be mg/L, not mg/kg.

Response:

Comment noted. The text has been revised accordingly.

Comment A-134:

22. Page 4-11, 1st para: It should be stated that the levels of pesticides, PAHs, and VOCs concentrations listed in the second sentence were in soil samples.

Response:

Comment noted. The text has been revised accordingly.

Comment A-135:

23. Page 4-15: Site No. 40 in the table states NFA because of low potential for release at the Safety Kleen Units. Is this also based on past practices at the site before Safety Kleen Units were installed? Has sampling occurred at these sites?

Response:

Comment noted. The table has been revised as follows: The language "low potential for release" has been deleted and "NFA" has been revised to read "proposed NFA Sites."

APPENDIX A**COMMENT RESPONSE PACKAGE****Comment A-136:**

24. Page 4-16, Section 4.1.2.5: Is there a proposed schedule for conducting the three phases of CWM activities listed?

Response:

Comment noted. The schedule for the CWM activities is beyond the scope of this EBS report. It will be included in the BRAC Cleanup Plan, if available.

Comment A-137:

25. Page 4-20, Section 4.3.2, 1st para: Change "...from adjacent of surrounding property..." to "...from adjacent or surrounding property..." in the first sentence.

Response:

Comment noted. The text has been revised accordingly.

Comment A-138:

26. Page 4-20, Section 4.3.2, last para: Why is the "Auto Zone" site listed as a general category. It seems this would be a specific site, rather than a general category.

Response:

Comment noted. The "Auto Zone" site reference has been changed to "adjacent industrial facilities" in Sections 4.3.2 and 4.3.2.3.

Comment A-139:

27. Page 4-21: It should be stated that specific information obtained in the database searches is contained in Appendix A.

Response:

Comment noted. The text in Section 4.3.2 has been revised accordingly.

APPENDIX A**COMMENT RESPONSE PACKAGE****Comment A-140:**

28. Page 4-35, Section 4.5.3.2: Early removal sites are not summarized in Section 4.1.2.2 as stated in the last sentence.

Response:

Comment noted. A summary table of early removal sites has been added to Section 4.1.2.2. In addition, the references to "ER" sites have been changed to "proposed ER" sites.

Comment A-141:

29. Table 4-1, Page 3 of 3: Should the spilled material at Building 835 be Hydrofluoric acid or Hydrochloric acid?

Response:

The spilled material at Building 835 is hydrofluoric acid. The spelling error has been corrected.

Comment A-142:

30. Table 4-2, page 2 of 4: Building 717 is also a public toilet in addition to ice house.

Response:

Comment noted. The table has been revised accordingly.

Comment A-143:

31. Table 4-2, Page 3 of 4: Building T273 is not included on either the list of building surveyed or not surveyed. It should be listed as possible asbestos.

Response:

Comment noted. The table has been revised to include Building T273.

Comment A-144:

32. Figure 4-1: Further is misspelled in the legend for No Further Action Site.

APPENDIX A**COMMENT RESPONSE PACKAGE****Response:**

Comment noted. The figure has been revised accordingly.

Comment A-145:

33. Figure 4-3: Why is the symbol for existing monitoring wells different for this OU from the other OUs? There are many of these symbols on the map with no well number associated with them.

Response:

Comment noted. This figure has been revised to be consistent with other figures in this section.

Comment A-146:

34. Figure 4-4: Why are the site locations not shown on OU-4? The table on pages 4-10 and 4-11 lists 26 locations.

Response:

Comment noted. This figure has been revised to be consistent with the table and the other figures in this section.

Comment A-147:

35. Section 5, General Comment: The results of the visual inspections should be included with each parcel discussion. This should include a brief description of the current use (what was in the building during the inspection) and the historical use of each building. Also, the building number associated with each of the parcels should be stated in that parcel description. The BRAC parcel numbers should be changed to match the MDRA parcel numbers.

Response:

Comment noted. Visual inspection results are covered in Tables 5-1a or 5-1b, as are current and (where available) former uses of each building. Table 5-1a has been revised to include

APPENDIX A**COMMENT RESPONSE PACKAGE**

building numbers. The BRAC parcel numbering system has been revised in accordance with decisions made at the July 18, 1996 BCT meeting.

Comment A-148:

36. Page 5-5, BRAC Parcel No. 111: If this area was historically used for drum storage within an earthen berm, should it not be a Category 7 parcel rather than a Category 2? Although there has been no documented release, the historical use indicates a potential that a release could have occurred.

Response:

Comment noted. This parcel has been changed to Category 7.

Comment A-149:

37. Page 5-6, BRAC Parcel No. 128: If no studies have been done to substantiate that no release has occurred, should this site not be a Category 7 parcel based on its usage?

Response:

Comment noted. The results of the visual inspection give no indication that a release has occurred. Therefore, the building is Category 2.

Comment A-150:

38. Page 5-6, Section 5.1.3: Change "requires" to "require" in the second line.

Response:

Comment noted. The text has been revised accordingly.

Comment A-151:

39. Page 5-7, BRAC Parcel No. 13: PS is used twice in the label. Should the second usage be PR?

APPENDIX A**COMMENT RESPONSE PACKAGE****Response:**

Comment noted. The label has been revised to read "... PS/PR/HS/HR."

Comment A-152:

40. Page 5-9, BRAC Parcel No. 112: Have studies been done to document that the site was fully remediated and that no further action is required?

Response:

The parcel is associated with proposed NFA Site 53. The proposed NFA sites are being reevaluated. The parcel has been redesignated Category 7.

Comment A-153:

41. Page 5-10, Category Parcels: All of the Category 7 parcels should have the parenthetical designations (HR, HS, PR, PS).

Response:

This comment was withdrawn at the September 5, 1996 BCT meeting.

Comment A-154:

42. Page 5-15, BRAC Parcel No. 3: Why should surface soils be sampled around these buildings? A lead-based paint survey has been conducted that included sampling of surface soils for lead around these buildings. Would there be any reason to sample for anything other than lead?

Response:

Additional sampling should be conducted for pesticides. The text in Section 5.1.7 has been revised to state that "... the surface soil surrounding buildings at the installation has the potential for pesticide contamination.

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APPENDIX A**COMMENT RESPONSE PACKAGE**

Comment A-155:

43. Page 5-22, BRAC Parcel No. 51: The text states that this parcel contains railroad tracks, but no tracks are shown on Figure 5-1 for this location. Also, what buildings are in this parcel? Does the reference to sampling surface soils surrounding the buildings refer to Building 629?

Response:

Figure 5-1 does show railroad tracks along the southern border of Parcel No. 51. This parcel contains Building 629. The surface soil sampling does refer to Building 629. The text has been revised to clarify this issue.

Comment A-156:

44. Page 5-27, BRAC Parcel No. 79: A 1992 reference is given for a 1995 spill in Building 670. Please make correction.

Response:

Comment noted. The text has been revised accordingly.

Comment A-157:

45. Page 5-30, BRAC Parcel No. 94: State what open storage area X01 was used for.

Response:

Comment noted. The text has been revised accordingly.

Comment A-158:

46. Page 5-31, BRAC Parcel No. 98: Why are the parenthetical references listed with the sentence about the EBS visual site inspection? Should they not be following the information concerning the spills?

Response:

Comment noted. The references have been moved to follow the information they represent.

APPENDIX A**COMMENT RESPONSE PACKAGE****Comment A-159:**

47. Table 5-1a, BRAC Parcel No. 15: The description under the basis column conflicts with the text on Page 5-13. The table states that the visual inspection revealed that POLs, antifreeze, and fertilizer are currently stored in the building, whereas Page 5-13 states that the building had been used to store POLs, antifreeze, and occasionally fertilizer. If they are currently stored together in the building, does this present a safety hazard?

Response:

Comment noted. The fertilizer has been removed from Building 254. Table 5-1a has been revised accordingly.

APPENDIX A**COMMENT RESPONSE PACKAGE****A.8 RESPONSES TO OTHER COMMENTS ON THE DRAFT EBS REPORT****A.8.1 RESPONSES TO MEMPHIS DEPOT REDEVELOPMENT AGENCY COMMENTS ON THE DRAFT EBS REPORT**

ENTITY: Memphis Depot Redevelopment Agency

INDIVIDUAL: Cynthia A. Buchanan

TITLE: Executive Director

DATE: July 18, 1996

Comment A-160:**EXECUTIVE SUMMARY**

Comment No. 1 Executive Summary page i

Revise the second paragraph to reflect that "Areas that are currently designated as Category 5, 6, or 7 are not suitable for transfer, but may be leased."

Response:

Comment noted. The text has been revised accordingly.

Comment A-161:

Comment No. 2 Executive Summary page ii

Please include the number of parcels (instead of XX) in "The survey and parcelization of the DDMT identified XX BRAC parcels based on the environmental conditions of the property."

Response:

Comment noted. The text has been revised accordingly.

APPENDIX A**COMMENT RESPONSE PACKAGE****Comment A-162:**

Comment No. 3 Executive Summary page ii

Clarify what a "Line Item" consists of when discussed in the items shipped. If this is to be a public document, it is unclear what level of activity is represented by this term.

Response:

Comment noted. The text has been revised accordingly.

Comment A-163:

Comment No. 4 Executive Summary pages x and xi

In the List of Acronyms, please correct the following:

MDRA Memphis Depot Redevelopment Agency

OPD Office of Planning and Development, Memphis and Shelby County

TDEC Tennessee Department of Environment and Conservation

Response:

Comment noted. The text has been revised accordingly.

SECTION ONE**Comment A-164:**

Comment No. 5 Section 1.1 page 1-2

In the last paragraph of Section 1.1, please include a brief description of the requirements of CERCLA 120(h).

Response:

CERCLA §120(h) is quite lengthy and to include a brief description may be considered inadequate by others. However, a review of CERCLA §120(h) would illustrate the basis for the type of survey and activities conducted and the format for the EBS report. This has been included in revised text.

APPENDIX A**COMMENT RESPONSE PACKAGE**

Comment A-165:

Comment No. 6 Section 1.2 page 1-2

Please include a more detailed discussion of the seven standard environmental condition of property types, including how the presence of asbestos, radon, and/or lead paint, etc. affects the classifications?

Response:

Section 1.2, Purpose and Scope of Environmental Baseline Survey, and Section 1.3, Definitions, adequately detail the seven standard environmental condition of property area types and the process by which non-CERCLA contamination substances are delineated. The effects of the presence of these substances on the BRAC clean-up process will be discussed in more detail in the BRAC Cleanup Plan (BCP).

Comment A-166:

Comment No. 7 Section 1.3 page 1-3

The definitions of Hazardous Substance and Petroleum should correspond to those in ASTM E1527 to help meet the requirements of a Phase I Assessment. Also include a definition of Hazardous Waste as the term is mentioned in Section 3.4.1 of the report.

Response:

The definition used for hazardous substances was developed over two previous rounds of base realignment and closure (1991 and 1993) by the Army, EPA, various states, and other regulatory agencies. The definition used for petroleum is cited in CERCLA §120(h)(4). Section 3.4.1, Hazardous Materials/Waste Management, documents the practices used at the installation as determined from records and interviews. Substances considered hazardous wastes were determined by the installation in conjunction with their regulatory community; the determination was not made during the EBS.

APPENDIX A**COMMENT RESPONSE PACKAGE****Comment A-167:**

Comment No. 8 Section 1.3 page 1-3

In the Definition of Terms, "MDRA" should be identified as the Memphis Depot Redevelopment Agency.

Response:

Comment noted. The text has been revised accordingly.

Comment A-168:

Comment No. 9 Section 1.3 page 1-4

The definition of Category 3 references "concentrations that do not require removal or remedial action.", and the definition of Category 4 references "all removal or remedial actions to protect human health and the environment have been taken." What are the bases (e.g., concentrations below a certain action level or standard, cleanup approved by regulatory agencies, etc.) of this determinations? If published cleanup standards or action levels are used, please include copies.

Response:

The EBS report documents the environmental condition of the property based on a records review and interviews. Usually, the determination that a removal or remedial action was not warranted or that a removal or remedial action was complete was documented in a report prepared as part of the installation's environmental program. Each installation has a regulatory board that reviews and approves conclusions made as part of the environmental program. The document in which this information was presented is referenced in the EBS report. If, however, a determination was made during the preparation of the EBS, the basis was documented in the EBS report. For example, if the concentration of TCE in groundwater was below the MCL, this fact would be stated in the EBS and the area would be designated as Category 3.

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APPENDIX A**COMMENT RESPONSE PACKAGE**

Comment A-169:

Comment No. 10 Section 1.4 page 1-6

Where records indicate remediation approval by a regulatory agency, please provide copies of closure documentation and mention status in the text.

Response:

Reasonably obtainable records associated with USTs have been documented in the EBS report. If closure was approved by the regulatory community for removed USTs, this information is included in the EBS report. Documentation is available in the Environmental Management Office.

Comment A-170:

Comment No. 11 Section 1.4 page 1-6

The assumption that no further action is warranted for areas where the regulatory agency has approved the completed work is questionable. Each area must stand on its own merits. Actions taken ten or fifteen years ago may not be adequate today. This statement was in terms of a tank, but the wood treating area is of greater concern.

Response:

If a regulatory agency is concerned that an area of the property poses a threat to human health or the environment because a remedial action performed in the past is no longer considered adequate, there are appropriate channels by which the agency can voice their concern. Agreement may be reached that additional investigation is warranted. However, it is unreasonable to expect that all past approved actions be reevaluated.

Comment A-171:

Comment No. 12 Section 1.5.1 Figure 1-1

Figure 1-1, Location of Defense Depot, should be produced on a USGS Quadrangle Map for better identification of the physical setting of the DDMT, showing also the CBD, the Memphis International Airport, and Memphis City Limits.

APPENDIX A**COMMENT RESPONSE PACKAGE****Response:**

Comment noted. Figure 1-1 has been revised accordingly.

Comment A-172:

Comment No. 13 Section 1.5.2 page 1-8

In the third paragraph, change the reference for zoning controls to "In Memphis, zoning controls and subdivision requirements are under the jurisdiction of the Memphis and Shelby County Office of Planning and Development." Population data in table is actually for the City of Memphis and not the MSA as identified.

Response:

Comment noted. The text has been revised accordingly.

Comment A-173:

Comment No. 14 Section 1.5.2 page 1-8

The high percentage of children in the vicinity (25% under the age of 15) makes evaluation of any offsite aspects more critical as these Shelby County citizens are at the greatest risk from environmental factors. Recognition of the increased vulnerability of this age group should be included.

Response:

Comment noted.

Comment A-174:

Comment No. 15 Section 1.5.3 page 1-9

While a lot of information is provided, the twenty-four hour, twenty-five year maximum rain event amount should also be given so the capacity of any open containment area is adequately measured to meet contents release during heavy rain.

APPENDIX A**COMMENT RESPONSE PACKAGE**

Response:

Comment noted. The records review did not provide this information.

Comment A-175:

Comment No. 16 Section 1.5.4 page 1-9

Do the individual visual inspection survey sheets have sketch plans showing surface drainage to help in identifying sampling locations?

Response:

The individual visual inspection survey sheets do not have sketch plans showing surface drainage. The sampling locations are to be identified by the U. S. Army Engineering and Support Center, Huntsville as part of the Sampling and Analysis Plan.

Comment A-176:

Comment No. 17 Section 1.5.5 page 1-10

Please clarify how there can be a 110 foot range in elevation on a site that shows elevations of between 282 and 300 feet above sea level.

Response:

Comment noted. The text has been revised accordingly.

Comment A-177:

Comment No. 18 Section 1.5.6 page 1-12

In the discussion of groundwater there is mention of a potential "hydraulic interconnect" between the shallow and deep aquifer. However, the initial information already developed for Dunn Field shows that the interconnection does not exist. This is a critical element for a number of decisions affecting the site and the public's perception, and this point must be clarified.

APPENDIX A**COMMENT RESPONSE PACKAGE****Response:**

Comment noted. Section 1.5.6 has been revised to incorporate data from the groundwater sampling conducted in the spring of 1996.

SECTION TWO**Comment A-178:**

Comment No. 19 Section 2.1.1 page 2-1

The EBS document ID number should be reflected in the list of documents in Section 6, References.

Response:

Comment noted. The text has been revised accordingly.

Comment A-179:

Comment No. 20 Section 2.1.2 page 2-5

Have the unknown spill locations been further investigated? Can interviews with past and present employees supplement this lack of data?

Response:

The unknown spill locations have been identified through the EBS review of DDMT records and are identified in Section 4.1.3 and on Table 4-1. Text has been added to Section 2.1.2 to refer the reader to Section 4.1.3 and Table 4-1 for details.

Comment A-180:

Comment No. 21 Section 2.1.2.1 page 2-5

If possible, please include information on all expired, withdrawn, or unrenewed permits for past wastewater discharges, boilers, etc., that may have been potential sources of contamination at the facility during their operation.

APPENDIX A**COMMENT RESPONSE PACKAGE**

Response:

Comment noted. In the past, boiler discharges were regulated under the NPDES permit listed in Section 2.1.2.1.

Comment A-181:

Comment No. 22 Section 2.1.2.1 page 2-5

The permits for air pollution sources have all expired but, in order to prevent confusion, it should be noted that complete applications for their renewal have been submitted in a timely fashion. Under our local air pollution regulations, this submission serves to extend the validity of the old permits until new ones are either granted or denied by the Memphis and Shelby County Health Department.

Response:

Comment noted. Text has been added to this section to explain that renewals have been submitted and that the validity of the old permits has been extended by this submission.

Comment A-182:

Comment No. 23 Section 2.1.2.2 page 2-6

If possible, please provide the location (Building No., etc.) where the listed NOV's occurred.

Response:

Comment noted. The text has been revised accordingly.

Comment A-183:

Comment No. 24 Section 2.1.3 page 2-8

Copies of all aerial photographs used to support the findings of the EBS should be included in the report. Have sources of aerial photography such as the US Army Corps

APPENDIX A**COMMENT RESPONSE PACKAGE**

of Engineers, the Soil Conservation Service, and local aerial photography firms been contacted?

Response:

Aerial photographs do not reproduce well and their inclusion is not warranted. A table has been added to Section 2.1.3 that lists the photographs that were reviewed during the preparation of the EBS. Sufficient review was performed to adequately categorize the BRAC property.

Comment A-184:

Comment No. 25 Section 2.1.3 page 2-8

Copies of all existing property maps used to support the findings of the EBS should be included in the report.

Response:

Comment noted. Existing property maps that were used to support the findings of the EBS are listed on the table in Section 2.1.1 and are available for reference.

Comment A-185:

Comment No. 26 Section 2.1.5 page 2-9

The list of interviewees does not include Bill Lovejoy, whom we understand was responsible for environmental work for the Depot and may be a source of useful information.

Response:

Comment noted. An effort was made to contact Bill Lovejoy. The list of interviewees provides a representative sample of installation personnel.

Comment A-186:

Comment No. 27 Section 2.1.5 page 2-10

Why were no former base commanders interviewed as a part of this process?

APPENDIX A**COMMENT RESPONSE PACKAGE**

Response:

The base commanders receive their information from staff. Therefore, staff members were interviewed as part of the EBS process.

Comment A-187:

Comment No. 28 Section 2.1.5 page 2-10 and Appendix B

If possible, please include a brief summary of the more significant findings of the interview process. Copies of all completed interview forms used to support the findings of the EBS should be included in the report.

Response:

See the response to Comment A-89.

Comment A-188:

Comment No. 29 Section 2.1.6 page 2-11 and Appendix C

If possible, please include a brief summary of the more significant findings of the visual inspections. Copies of all completed visual inspection forms used to support the findings of the EBS should be included in the report.

Response:

See the response to Comment A-89.

Comment A-189:

Comment No. 30 Section 2.1.7 page 2-12

A title search back to 1900 would be more useful, while not being a significant additional burden.

Response:

We do not concur. The title search conducted was from 1941 to the present. It is unlikely that an additional title search would provide new information (information that was not revealed

APPENDIX A**COMMENT RESPONSE PACKAGE**

through the records search or the interviews conducted) that would alter the determination of the environmental condition of the property.

Comment A-190:

Comment No. 31 Section 2.2 page 2-12

Needs additional detail on adjacent properties to support the conclusion - specific uses, names, locations, history, maps, etc. No information from any visual survey was presented, although it was mentioned. There are some additional environmental concerns in the vicinity of the DDMT (of which the TDEC is aware) which the database search may not have revealed, and which are not addressed in any specifics. The conclusion on page 2-13 is not justified based on the documentation provided.

Response:

Comment noted. The conclusion in Section 2.2.1 has been revised to state, "Potential off-site sources of contamination are still being evaluated."

Comment A-191:

Comment No. 32 Section 2.2 page 2-12

(This item deleted.)

Response:

Deletion of Comment No. 32 noted.

SECTION THREE**Comment A-192:**

Comment No. 33 Section 3.3 page 3.2

Please correct the reference to Memphis Depot Redevelopment Agency.

APPENDIX A**COMMENT RESPONSE PACKAGE**

Response:

Comment noted. The text has been revised accordingly.

Comment A-193:

Comment No. 34 Section 3.4.1 page 3-7

Please provide additional information regarding the historic chemical storage, use and waste disposal practices at the facility. Also provide a discussion or evaluation of past offsite disposal practices for waste such as used oil (disposal locations, materials, and quantities) and PRP designations associated with any part of the activity.

Response:

Comment noted. The text has been revised to include available information.

Comment A-194:

Comment No. 35 Section 3.4.1 page 3-7

If the former pistol range is now part of the ninth hole of the golf course, there is a need to precisely delineate the boundaries of the former activity.

Response:

Comment noted. The delineation of the boundaries of the former pistol range will be addressed during the sampling and analysis phase of work.

Comment A-195:

Comment No. 36 Section 3.4.1 page 3-8

On page 3-8 Building 629 is identified as being used for the storage of chemical stock, but on page 7 of 15 of Table 3.1 Building 629 is identified as being used for the receiving and storage of clothing and general items. Please clarify.

APPENDIX A**COMMENT RESPONSE PACKAGE****Response:**

Comment noted. The text has been revised to indicate that Building 629 was previously used for the storage of chemical stock. Table 3-1 is correct.

Comment A-196:

Comment No. 37 Section 3.4.1 page 3-8

Why is the discussion of Hazardous Materials management at the DDMT limited to only a few of the many facilities that are listed in Table 3-1 as storage/use of hazardous materials?

Response:

The discussion of hazardous materials management is based on the information obtained from the EBS records review.

Comment A-197:

Comment No. 38 Section 3.4.1 page 3-8

Was Freon 113 or other dense non-aqueous phase liquids ever stored and used onsite? if so, is there any documentation or has consideration been given to the potential for DNAPL contamination of groundwater?

Response:

Consideration has been given to DNAPL contamination of groundwater as part of the ongoing groundwater investigation at the DDMT.

Comment A-198:

Comment No. 39 Section 3.4.1 page 3-8

In the first paragraph, "are received" suggests current practice. Is that accurate? In the third paragraph, Building 319 is referred to as "flammable materials storage area" which

APPENDIX A**COMMENT RESPONSE PACKAGE**

we understand is now in Building 925. Building 835 appears to be out of date. In addition, Area X-25 appears to be missing from Table 3-1.

Response:

The first paragraph on page 3-8 is accurate. The materials listed are currently being received at the DDMT. The text for Buildings 319 and 835 has been revised to reflect current conditions. Area X-25 will not be added to Table 3-1 since Building 925 currently occupies this area. However, the text for Building 925 in Table 3-1 has been revised to indicate that the former Area X-25 was located there.

Comment A-199:

Comment No. 40 Section 3.4.1.2 page 3-9

On page 3-9 Building 1086 is described as being used for the storage of hazardous waste or hazardous materials, but on page 12 of 15 of Table 3-1, Building 1086 is identified as a Care and Preservation Shop/Paint Booth/Load and Unload Dock. Please clarify.

Response:

Comment noted. The text for Building 1086 has been revised to reflect current conditions.

Comment A-200:

Comment No. 41 Section 3.4.2 page 3-9

Please clarify whether the facility is an offsite or onsite TSDF under RCRA (i.e., did the DDMT receive hazardous waste from off site sources?).

Response:

The installation did not receive hazardous waste from off-site sources. However, the DRMO does accept some hazardous materials from off-site sources. They attempt to reuse, transfer, or donate them. If unable to do so, the material may be declared hazardous waste and disposed of in accordance with all applicable regulations. The text in Section 3.4.2 has been revised to clarify this issue.

APPENDIX A**COMMENT RESPONSE PACKAGE****Comment A-201:**

Comment No. 42 Section 3.4.2 page 3-9

While it is probable that it does not pose a grave threat, the discussion of the non-hazardous landfill operated on the site from 1940 - 1948, seems to too easily waltz over the likelihood that some hazardous materials were involved.

Response:

Comment noted. Section 3.4.2 is a subsection of the presentation of the facility support activities. A more thorough discussion of the potential contamination at Dunn Field is presented in Section 4.1.1.1.

Comment A-202:

Comment No. 43 Section 3.4.3 page 3-10 and Table 3-2

Some of the information provided in Table 3-2 is incomplete or inconsistent. Following are several examples:

- Tank Type for the first tank listed in Table 3-2 is "Unknown" while the compliance action recommended closure by excavation or filling in place, which would indicate that the tanks was a UST.
- The location of the fourth tank listed in Table 3-2 is shown as the north side of Building 209, but the MDRA parcel is listed as 8. Should this be MDRA Parcel 14? The Status of this tank is indicated as "Unknown". Is there a plan to determine the status of the tank?
- The Status of the next to the last tank in Table 3-2 (Building 1085, east side) is shown as "not found". Is there a plan to determine the status of the tank?
- State approval should be provided for all tanks or samples should be collected to verify clean closure? Is there sufficient evidence to recommend further investigation of any removed or replaced tanks (e.g., tanks at Building 257)?
- If possible, please provide a better indication of all tank locations.

FINAL

APPENDIX A**COMMENT RESPONSE PACKAGE**

Response:

Comment noted. Table 3-2 has been revised.

Comment A-203:

Comment No. 44 Section 3.4.3 page 3-10 and Table 3-2

The information provided regarding the status of the closure of the UST's is inadequate. At a minimum, copies of all UST Notifications, Removal/Remedial Action records, and regulatory agency approvals used to support the findings of the EBS should be included in the report.

Response:

See the response to Comment A-146.

Comment A-204:

Comment No. 45 Section 3.4.5 page 3-10

With the closure of the activity, has the potential for the creation or existence of any dead-end water supply pipes been evaluated regarding the need for over-chlorination during closure/nonuse of the facility? Has the existence of any lead-containing water supply pipes been evaluated? Has the condition of the water supply tank(s) been evaluated for reuse?

Response:

Comment noted. These are valid questions but are beyond the scope of the EBS.

Comment A-205:

Comment No. 46 Section 3.4.6 page 3-11

Has there been any sampling of the stormwater discharges for metals? Is a Stormwater Pollution Prevention Plan (SWPPP) available for review?

APPENDIX A**COMMENT RESPONSE PACKAGE****Response:**

Dunn Field stormwater discharge is sampled for aluminum and magnesium. The text in Section 3.4.6 has been revised to include these sampling requirements. A Stormwater Pollution Prevention Plan is available for review.

Comment A-206:

Comment No. 47 Section 3.4.7 page 3-11

Sewage treatment is mentioned in this section and the principle failing of the report is its failure to locate, quantify and evaluate the sanitary and storm drain systems at the site. Is it possible to locate all major surface and sanitary drain access points near hazardous materials operations, and any water quality monitoring done by the base or the city under any discharge agreement.

Response:

Comment noted. Information regarding the sanitary and storm drain systems is available from installation personnel. Locating all major surface and sanitary drain access points is beyond the scope of the EBS.

Comment A-207:

Comment No. 48 Section 3.4.7 page 3-11

Were the sanitary and stormwater sewer system plans reviewed by video camera survey, sampled, or otherwise evaluated regarding the potential impact on the classification of environmental condition of parcels adjacent to and above these systems?

Response:

A video camera survey or sampling of the sanitary and stormwater sewer system is beyond the scope of the EBS.

APPENDIX A**COMMENT RESPONSE PACKAGE****Comment A-208:**

Comment No. 49 Section 3.4.8 page 3-12

Electrical power was upgraded in the early 1990s, but the upgrade was not mentioned in this section.

Response:

Comment noted.

Comment A-209:

Comment No. 50 Section 3.4.9 page 3-12

Does the lack of formal firefighting pits indicate that other informal locations may exist? The wording regarding this issue is not clear.

Response:

Comment noted. The word "formal" has been deleted from this sentence to clarify the issue.

Comment A-210:

Comment No. 51 Section 3.4.10 page 3-12

Should "clinic" be mentioned under "Medical Activities"?

Response:

Section 3.4.10 has been revised to include the clinic.

Comment A-211:

Comment No. 52 Table 3-1

Although the information is readily available from the DDMT, some of the information provided in Table 3-1 is incomplete such as the number of floors and size being listed as "Unknown". In addition, if a building has been demolished, then maybe it would be better to identify it as such, instead of indicating as "Unknown". Other questions regarding the information provided in Table 3-1 are as follows:

APPENDIX A**COMMENT RESPONSE PACKAGE**

- Were there no photo labs at the base or evidence of discharges to sanitary or storm sewer?
- What was the use of Building 333 before it was demolished and replaced by Building 717? (see page 8 of 15)
- The area north of Building 835 was used to contain spills, but berm was leveled in 1994. What happened to soil from berm? Was there any sampling associated with this activity. There does not appear to be any consideration of this use in Section Four or Section Five of the report. Please clarify.
- Please clarify how drums were stored on (in) an earth berm at Building 925, and what happened to the soil from berm removal, and was any sampling done? What is the basis of the NFA recommendation?
- Please clarify the indication that Building S995 has no current use.

All information provided in Table 3-1 should be checked for consistency and completeness.

Response:

Comment noted. The bullet items have been investigated, and Table 3-1 has been revised accordingly.

Comment A-212:

Comment No. 53 Figure 3-1

Since Figure 3-1 primarily indicates the locations and limits of the "Operable Units", it would seem to be more relevant to Section Four.

Response:

Comment noted. The figure has been moved to Section Four.

APPENDIX A**COMMENT RESPONSE PACKAGE**

SECTION FOUR**Comment A-213:**

Comment No. 54 Section 4 page 4-5

Site No. 64 does not appear to be shown on Figure 4-1.

Response:

Comment noted. Figure 4-1 has been revised to include Site No. 64.

Comment A-214:

Comment No. 55 Section 4 page 4-6

RI/FS Site No. 27 is in MDRA Parcel No. 25 rather than No. 24.

Response:

Comment noted. The text has been revised accordingly.

Comment A-215:

Comment No. 56 Section 4 page 4-7

RI/FS Site No. 47 is in MDRA Parcel No. 23 rather than No. 21.

Response:

Comment noted. The text has been revised accordingly.

Comment A-216:

Comment No. 57 Section 4.1 page 4-7

If possible, please provide a list of SWMUs and their location in relation to building numbers. Cross reference building numbers to RI/FS numbers. The OU summary tables are not consistent with the uses described in Table 3-1.

APPENDIX A**COMMENT RESPONSE PACKAGE****Response:**

Comment noted. There are no SWMUs at the DDMT. RCRA authority was abrogated by CERCLA as part of the Federal Facilities Agreement. The OU summary tables have been checked for consistency with Table 3-1.

Comment A-217:

Comment No. 58 Section 4.1.1.4 page 4-11

Discussions of known contaminant levels without a corresponding discussion of area background levels for these items may mislead one as to the significance of these measurements.

Response:

Comment noted. This type of Risk Assessment analysis is beyond the scope of the EBS report. However, a background study is currently ongoing at the DDMT.

Comment A-218:

Comment No. 59 Section 4.1.2 page 4-3 through 4-11

A much more detailed discussion of the sampling results available in each OU is necessary to clarify and define the potential areas of concern. For the purposes of subleasing, the results need to be related to specific buildings or open storage areas, if possible. A summary of the sampling results for each OU with an accompanying map would be much more useful than the generic descriptions provided.

Response:

Comment noted. This detailed analysis is beyond the scope of the EBS.

APPENDIX A**COMMENT RESPONSE PACKAGE****Comment A-219:**

Comment No. 60 Section 4.1.1.2 page 4-6

RI/FS Site No. 30; Paint Spray Booth - Does the BEC concur that this site is a NFA site?

Response:

Comment noted. All references to NFA sites have been revised to read "proposed NFA sites."

Comment A-220:

Comment No. 61 Section 4.1.1.2 page 4-6 and Figure 4-2

RI/FS Site Number 71 is shown on Figure 4-2 but is not included in the table in Section 4.1.1.2.

Response:

Comment noted. RI/FS Site Number 71 has been added to the table in Section 4.1.1.2.

Comment A-221:

Comment No. 62 Section 4.1.2.3 page 4-12

Screening Site Nos. 51 and 52 in OU-3 and Site No. 36 in OU-4 are not on the list of screening sites, but are identified as screening sites on the OU summary tables and in the Figures. Please clarify.

Response:

Comment noted. The tables and figures in Section Four have been revised to reflect consistent information.

Comment A-222:

Comment No. 63 Section 4.1.2.4 page 4-14

Have the sanitary and storm sewers been considered as potential sources of contamination that may affect the environmental condition of the property?

Response:

See the response to Comment A-184.

Comment A-223:

Comment No. 64 Section 4.1.2.5 page 4-15

The first sentence of this section suggests that disposal of chemical warfare materials was standard procedure. If this is not the intent, the statement should be more specific.

Response:

Comment noted. The first sentence of this section has been deleted to avoid misinterpretation.

Comment A-224:

Comment No. 65 Section 4.1.2.5 page 4-15

How can 86 be a potential site of chemical warfare test kits and also be on the NFA List? There is also discussion of CWM disposed of at unknown locations as if this were a fact. Is this a fact or a conjecture?

Response:

Comment noted. Site 86 has been removed from the NFA site list. The concept of CWM disposed of at unknown locations was introduced in the *Operable Unit 1 - Field Sampling Plan* (CH2M Hill 1995c). This reference has been added to the text.

Comment A-225:

Comment No. 66 Section 4.1.3 page 4-16

Copies of the Spill Response Checklists provided by the DDMT personnel and used to support the findings of the EBS, should be included in the report.

Response:

Reference material is available in Building 144, Room 153.

APPENDIX A**COMMENT RESPONSE PACKAGE**

Comment A-226:

Comment No. 67 Section 4.1.3 page 4-16

Section 4.1.3 should also reference the database search information in Appendix A regarding spills both on the DDMT and at adjacent properties.

Response:

Comment noted. The text has been revised accordingly.

Comment A-227:

Comment No. 68 Section 4.3 page 4-18

We suggest that the third sentence in Section 4.3 (beginning "No documented evidence") be removed since Section 4.3.2 addresses adjacent sites that may have potentially impacted the environmental condition of the DDMT. The names and addresses of adjacent sites of concern should be summarized within Section 4.3.2.

Response:

The third sentence in Section 4.3 has been removed. Summarizing the names and addresses of adjacent sites of concern is beyond the scope of the EBS.

Comment A-228:

Comment No. 69 Section 4.3.2 page 4-20

Section 4.3.2 provides insufficient detail on potential impacts from adjacent properties, as does Table in Section 2-2 (see also Comment No. 31 regarding Section 2.2).

Response:

Comment noted. See the response to Comment A-167.

APPENDIX A**COMMENT RESPONSE PACKAGE****Comment A-229:**

Comment No. 70 Section 4.3.2 page 4-20

In the discussion of offsite sources of contamination, the past uses since 1940 are equally important as what is occurring today or in the recent past.

Response:

Comment noted. The use of a database search is standard practice for an EBS. The database search for this EBS includes reasonably obtainable information for approximately 50 years.

Comment A-230:

Comment No. 71 Section 4.3 Appendix A

In the portion of Appendix A that deals with unmappable locations a great deal could be clarified with a very minor effort. Many of the sites are known to Depot members, state regulators and the public in general, and do not fall anywhere near the Depot. Also, both PNB and American Resource and Recovery were listed in the RCRA sites found in the computer search, but the current owner of the site is PermaFix, Inc.

Response:

Comment noted.

Comment A-231:

Comment No. 72 Section 4.4 page 4-23

Are there any O&M plans or other procedures in place to manage and address the non-CERCLA environmental and safety issues?

Response:

There are a variety of plans available for reference in the Environmental Management Office, Building 144.

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APPENDIX A**COMMENT RESPONSE PACKAGE**

Comment A-232:

Comment No. 73 Section 4.4.2 page 4-23

The title of this section is "Lead-Based Paint" but section also addresses potable water supplies. See also Comment No. 45 on Section 3.4.5 regarding water supplies.

Response:

Comment noted. The paragraph on potable water supplies has been deleted from this section.

Comment A-233:

Comment No. 74 Section 4.4.3 page 4-24

Section 4.4.3, addresses only transformers. What about capacitors, light ballasts, hydraulic fluids, and other potential sources of PCB's?

Response:

Comment noted. The EBS records review did not provide any information regarding capacitors, light ballasts, hydraulic fluids, and other potential sources of PCBs.

Comment A-234:

Comment No. 75 Section 4.4.3 page 4-24

A statement is made about PCB transformers and other items "awaiting disposal" for over four years. Are they cleared at a site or are they really in storage? Four years is a long time on a fairly routine item. Also, while visual inspection for PCB items is a good start, the discovery in the CH2M Hill Study to determine background levels of a high PCB reading in front of the administration building warrants a full inspection and testing from PCB spill clean-up areas.

Response:

The PCB-containing transformers that have been removed from service have been disposed of. Section 4.4.3 has been revised accordingly. According to DDMT personnel, plans are in place for sampling PCB spill cleanup areas.

APPENDIX A**COMMENT RESPONSE PACKAGE****Comment A-235:**

Comment No. 76 Section 4.4.5 page 4-27

Is there any data regarding the lead concentration in soils at either of the pistol ranges?

Response:

Data are not available regarding the lead concentration in soils at either of the pistol ranges. Sampling of these areas is in the planning stages.

Comment A-236:

Comment No. 77 Section 4.4.7 page 4-28

More information is needed on the historical uses, storage areas, etc. of chlorinated pesticides at the DDMT.

Response:

Comment noted. The EBS records review did not provide any further information on the historical uses and storage areas of chlorinated pesticides.

Comment A-237:

Comment No. 78 Section 4.4.7 page 4-29

In addition to their trade names, please provide the active ingredients for the pesticides and herbicides used at the DDMT.

Response:

This request is beyond the scope of the EBS.

Comment A-238:

Comment No. 79 Section 4.5.1 page 4-30

It does not seem plausible that all of the past remediation at the DDMT can be adequately summarized on one page as is done on page 4-30 of the Draft EBS Report. Table 3-2 indicates that at least twenty seven (27) UST's have been removed or closed

FINAL

APPENDIX A

COMMENT RESPONSE PACKAGE

in-place at the DDMT, yet there is no mention of any remediation efforts associated with these tank removals in Section 4.5 of the report. We feel that Section 4.5.1 should be expanded to include all past remediation efforts, including sampling results and other documentation used to support the determination of Category 4 for BRAC Parcel Nos. 58, 100, 112, and 122, and the conclusion that no further remediation is warranted for other sites.

Response:

Comment noted. The tank removals did not have remediation efforts associated with them. The details of the removals are available in referenced reports. NFA sites have been revised to "proposed NFA sites" as the NFA decisions are being re-evaluated.

Comment A-239:

Comment No. 80 Section 4.5.1 page 4-30

The excavation of soils is mentioned several times in the description of past remediation at the DDMT, but there is no mention of how and where these potentially contaminated soils were disposed?

Response:

The text in Section 4.5.1 has been revised to state that potentially contaminated soils were "... treated as special waste and shipped in accordance with applicable federal, state, and local regulations."

Comment A-240:

Comment No. 81 Section 4.5.2 page 4-31 and Figure 5-1

Section 4.5.2 indicates that some remedial actions at Building S873 and area at the southeast corner are ongoing, yet the building is listed in Category 4 which indicates that all removal and remedial actions have been completed. Should Building S873 be Category 5 like the area to the southeast?

APPENDIX A**COMMENT RESPONSE PACKAGE****Response:**

The ongoing activities are not at Building S873; they are outside the southeast corner of the building. The text has been revised to clarify this issue.

Comment A-241:

Comment No. 82 Section 4.5.3 page 4-31

Sections 4.1.1.2 (OU-2), 4.1.1.3 (OU-3), 4.1.1.4 (OU-4), and Section 4.3.2 all state that some form of groundwater contamination has been detected or is suspected at the Main Installation (i.e., excluding Dunn Field), yet Section 4.5.3 does not address any planned remediation efforts for area other than OU-1. Is this an accurate reflection of the planned remediation efforts and the sampling recommendations? Furthermore, it does not appear that there are any plans or recommendations to investigate groundwater in OU-4, despite the statements of Section 4.1.1.4. Is this correct?

Response:

There are plans to further evaluate all groundwater at the installation. Section 4.5.3 details planned remediation efforts, not investigations.

Comment A-242:

Comment No. 83 Section 4.6 page 4-34

Is there a possibility that Dunn Field may be a reserve enclave?

Response:

No, there is no possibility that Dunn Field may be a reserve enclave.

Comment A-243:

Comment No. 84 Table 4-1

If possible, Table 4-1 should contain information on action taken regarding spill cleanup.

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APPENDIX A**COMMENT RESPONSE PACKAGE**

Response:

Comment noted. A column has been added to Table 4-1 summarizing information on action taken regarding spill cleanup.

Comment A-244:

Comment No. 85 Table 4-2

If possible, Table 4-2 should provide information on how much asbestos is present in each building.

Response:

Comment noted. The results of the asbestos survey are available in the reference material in Building 144, Room 153.

Comment A-245:

Comment No. 86 Figure 4-1

For clarity Figure 4-1 should also be identified as Dunn Field.

Response:

Comment noted. Figure 4-1 has been revised to identify Dunn Field.

Comment A-246:

Comment No. 87 Figure 4-3.

Many of the Site Identification Numbers on Figure 4-3 are not legible.

Response:

Comment noted. Figure 4-3 has been revised so that the site identification numbers are legible.

APPENDIX A**COMMENT RESPONSE PACKAGE****Comment A-247:**

Comment No. 88 Figure 4-4

Figure 4-4 does not reflect most of the OU-4 site locations provided in the table in Section 4.1.1.4.

Response:

Comment noted. Figure 4-4 has been revised to incorporate the site locations provided in the table in Section 4.1.1.4.

SECTION FIVE**Comment A-248:**

Comment No. 89 Section 5.1.1 page 5-1

Have the potential impacts of historical pesticide usage or other factors (e.g., groundwater, sanitary and storm sewers) in the area where Building 360 was constructed been considered in its designation as Category 1 (see Section 4.4.7 regarding pesticide usage at the DDMT).

Response:

The potential impacts of historical pesticide usage and other factors were considered in the designation of Building 360 as Category 1. The area surrounding the building has been designated Category 7.

Comment A-249:

Comment No. 90 Section 5.1.2 page 5-2

The summary description of BRAC Parcel 12(2)PS indicates that no sampling results for the site were found. Table 3-2 indicates the tank at this site was 42 years old when removed. Considering the age of the tank, shouldn't sample results indicating clean closure be required to designate the area as Category 2.

APPENDIX A**COMMENT RESPONSE PACKAGE****Response:**

Comment noted. The site will be reevaluated in future sampling efforts. The category may change.

Comment A-250:

Comment No. 91 Section 5.1.2

The summary description of many of the Category 2 BRAC Parcels where UST have been removed indicate that there have been "no documented releases associated with the tanks". Is the designation of these sites as Category 2 based on sampling results or "clean closure" determinations by the TDEC? Without such documentation, the designation of many sites as Category 2 may not be justified.

Response:

See the response to Comment A-146.

Comment A-251:

Comment No. 92 Section 5.1.2 page 5-3

The summary description of BRAC Parcel 53(2)HS indicates there have been "no documented releases associated with the parcel", but Section 4.2 of the report indicates "visual evidence of contamination" for Building 210, implying that a release may have occurred which should preclude the parcel from a Category 2 designation. Otherwise maybe the comments in Section 4.2 should be clarified. What was stored in drums at this site.

Response:

Comment noted. Building 210 has been removed from the table in Section 4.2. In addition, Building 210 is proposed NFA Site 41. The proposed NFA sites are being reevaluated and category designations may change as a result.

APPENDIX A**COMMENT RESPONSE PACKAGE****Comment A-252:**

Comment No. 93 Section 5.1.2 page 5-5

The summary description of BRAC Parcel 111(2)PS/HS indicates that the area was used to store drums within an earthen berm, and Table 3-1 indicates that the year that Building 925 was built is unknown. Given these factors and the fact that spill records were not maintained prior to 1990, should Building 925 be designated as Category 2?

Response:

Comment noted. Building 925 was built in 1991. Table 3-1 has been updated with this information. Building 925 has been redesignated as Category 7.

Comment A-253:

Comment No. 94 Section 5.1.2 page 5-6

The summary description of BRAC Parcel 128(2)PS/HS indicates that Building S1090 is/was used to store a variety of hazardous materials and petroleum products, and Table 3-1 indicates that the year that Building S1090 was built was 1952. Given these factors and the fact that spill records were not maintained prior to 1990, should Building S1090 be designated as Category 2?

Response:

Comment noted. Building S1090 has been redesignated as Category 7.

Comment A-254:

Comment No. 95 Section 5.1.3 page 5-6

The "s" should be deleted from the word "requires" in the second line.

Response:

Comment noted. The text has been revised accordingly.

APPENDIX A**COMMENT RESPONSE PACKAGE****Comment A-255:**

Comment No. 96 Section 5.1.4 page 5-8

More documentation is needed to justify the designation of BRAC Parcel Nos. 100 and 112, and potentially other parcels, as Category 4. Statements such as the contamination was "reportedly" removed are not believed to be sufficient documentation.

Response:

Comment noted. The word "reportedly" was used to indicate that the cited documentation reported that contamination was removed. To avoid misinterpretation, the word "reportedly" has been deleted.

Comment A-256:

Comment No. 97 Section 5.1.3 and 5.1.4 pages 5-6 through 5-10

Regarding all parcels designated as Category 3 or Category 4, were the removals, remedial actions, and sampling performed in association with the spills or releases at each parcel adequate to eliminate the potential concerns or impacts from the factors which caused the majority of the DDMT to be designated as Category 7 (e.g., the potential for contamination in the north and south parking lots of BRAC Parcel 2(7) and other housing or recreation areas, which caused these areas to be recommended for surface soil sampling).

Response:

Comment noted. Parcels that are designated Category 3 or Category 4 and have the potential for pesticide contamination have been redesignated Category 7.

Comment A-257:

Comment No. 98 Table 5-1a and Table 5-1b

Where possible, please add Building Numbers to Table Nos. 5-1a and 5-1b.

Response:

Comment noted. Building numbers have been added to Tables 5-1a and 5-1b.

APPENDIX A**COMMENT RESPONSE PACKAGE****Comment A-258:**

Comment No. 99 Table 5-1b

What is meant by the term "No current mitigation" in Table 5-1b?

Response:

The term "No current mitigation" in Table 5-1b indicates that there is no ongoing work being carried out. However, all Military Family Housing garages will be remediated for lead-based paint.

Comment A-259:

Comment No. 100 Figure 5-1

Section 4.1 indicates that the earliest documented assessment of environmental conditions was dated 1981. Facilities shown on Figure 5-1 in CERFA Categories 2, 3, and 4 (including Buildings Nos. 210, 490, 649, 873, and 925) are considered "transferable" without further investigation. Considering the lack of information available prior to 1981, it would appear necessary to investigate for potential contamination in those facilities, some of which are listed in Section 4.2. Also, should the map reflect that remediation has been undertaken (Category 5) for military officers housing (i.e. buildings only)?

Response:

Comment noted. Please see response to Comments A-228, A-229, and A-232. In addition, please note that the grounds surrounding these buildings are Category 7 and will be further investigated.

GENERAL COMMENTS**Comment A-260:**

Comment No. 101

Considering that the EBS Report will be a public document, we feel that it is very important for all information and statements regarding existing or potential

APPENDIX A**COMMENT RESPONSE PACKAGE**

contamination at the DDMT to be as concise, accurate, and specific as possible. As noted in several comments on Sections One through Five of the report, generic references and incomplete descriptions of known or suspected contamination at the DDMT should be avoided as they may bring about inaccurate public perceptions of the overall environmental condition of the DDMT.

Response:

Comment noted. We are hopeful that as the EBS report is finalized, it will be as accurate as records can make it.

Comment A-261:

Comment No. 102

In order to facilitate the preparation of Phase I Environmental Assessments for individual parcels or buildings for lease or transfer, it is desirable for the Environmental Baseline Survey Report to be compiled or organized by individual buildings or parcels prior to transmittal. We recognize that this represents a deviation from the established format, but it would be a significant advantage for the Memphis Depot Redevelopment Agency to have the information available in that manner. If this is not feasible, we would like to discuss with you how we can create such an information base.

We request that the following information be transmitted to the Memphis Depot Redevelopment Agency if it is not included in the final EBS Report:

- Aerial Photographs (past and present);
- Facility Maps (past and present);
- Completed Interview Forms;
- Completed Visual Inspection Forms (transmitted to MDRA on 6/27/96);
- UST Notifications Forms;
- UST Removal/Remedial Action Reports; and
- Copies of all sample results, removal/remedial action reports, and other documentation used to support the classification of parcels in Categories 2, 3, 4, and 5, as applicable.

APPENDIX A**COMMENT RESPONSE PACKAGE**

Upon completion of the EBS Report, the MDRA requests copies of all documents referenced in Section 2.1, along with those References listed in Section Six that are specific to the DDMT but which are not referenced in Section 2.1.

Response:

Comment noted. The reference materials are available in Building 144, Room 153.

12 199

TAB

Appendix B

APPENDIX B

**DATABASE SEARCH REPORT OF FEDERAL, STATE,
AND LOCAL GOVERNMENT RECORDS**

VISTA NATIONAL RADIUS PROFILE

VISTA Report #: 6/088933-005

Date of Report: 11/10/95

Ref/Loan #:

Client: VAN SANDS, WOODWARD CLYDE-DENVER
4582 S ULSTER ST STE 1200, DENVER, CO 80237-2637

Subject:

Property: DEFENSE DISTRIBUTION DEPOT
MEMPHIS, TN 38114

FILE

SUMMARY OF FEDERAL RECORDS FOUND

| Database & Date | Agency and Type of Records | 0 to 1/4 mi | 1/4 to 1/2 mi | 1/2 to 2 mi | TOTAL |
|----------------------------|--|----------------|------------------|----------------|-------|
| NPL 05/95 | US EPA Superfund Sites | 1 | 0 | 0 | 1 |
| CERCLIS 09/95 | US EPA Potential Superfund Sites | 1 | 0 | 8 | 9 |
| RCRA-LgGen 06/95 | US EPA RCRA Large Quantity Generators | 1 | 0 | 2 | 3 |
| RCRA-SmGen 06/95 | US EPA RCRA Small and Very Small Quantity Generators | 0 | 1 | 50 | 51 |
| RCRA-TSD 06/95 | US EPA RCRA Treatment, Storage, and/or Disposal Sites | 1 | 0 | 1 | 2 |
| RCRA-Transp 06/95 | US EPA RCRA Transporters | 0 | 0 | 1 | 1 |
| ERNS 03/95 | US EPA | 2 | 1 | 5 | 8 |
| FEDERAL RECORDS Sub-total: | | 6 | 2 | 67 | 75 |

Notes: 1) A dash (--) indicates the list is not searched at that distance.
2) Sites often have a record in more than one database.

VISTA NATIONAL RADIUS PROFILE

VISTA Report #: 6/088933-005

Date of Report: 11/10/95

Ref/Loan #:

Client: VAN SANDS, WOODWARD CLYDE DENVER
4582 S ULSTER ST STE 1200, DENVER, CO 80237-2637

Subject:

Property: DEFENSE DISTRIBUTION DEPOT
MEMPHIS, TN 38114

SUMMARY OF STATE RECORDS FOUND

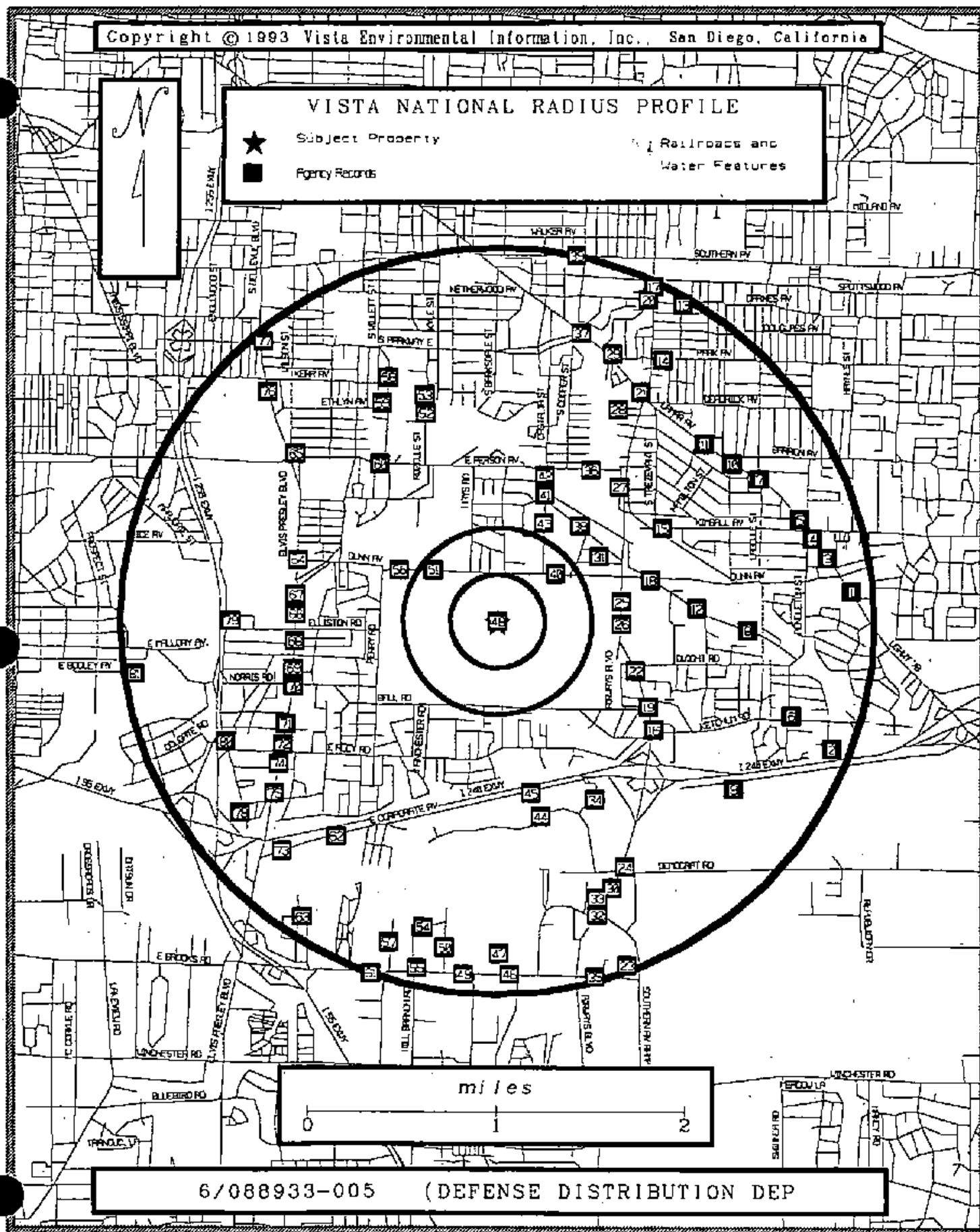
| Database & Date | Agency and Type of Records | 0 to 1/4 mi | 1/4 to 1/2 mi | 1/2 to 2 mi | TOTAL |
|--------------------------|---|----------------|------------------|----------------|-------|
| SPL 03/95 | Department of Environment & Conservation Superfund Promulgated Sites List | 1 | 0 | 0 | 1 |
| LUST 06/95 | Department of Environment & Conservation, UST Division Leaking UST Sites List | 0 | 1 | 13 | 14 |
| SWLF 07/95 | DEPT HEALTH & ENV SOLID WASTE SI | 0 | 0 | 0 | 0 |
| SWLF 07/95 | Department of Environment & Conservation, Division of Solid Waste Management | 0 | 0 | 0 | 0 |
| SWLF 07/95 | Department of Environment & Conservation, Division of Solid Waste Management | 0 | 0 | 0 | 0 |
| SWLF 07/95 | Industrial Landfills in Tennessee | 0 | 0 | 0 | 0 |
| SWLF 07/95 | Department of Health & Environment, Division of Solid Waste Management | 0 | 0 | 0 | 0 |
| SWLF 07/95 | Solid Waste Sites Listing | 0 | 0 | 0 | 0 |
| SWLF 10/94 | Department of Health & Environment, Division of Solid Waste Management | 0 | 0 | 0 | 0 |
| SWLF 10/94 | Sanitary Landfills List | 0 | 0 | 0 | 0 |
| UST's 07/95 | Department of Environment & Conservation, UST Division Underground Storage Tank Report | 1 | 3 | 133 | 137 |
| STATE RECORDS Sub-total: | | 2 | 4 | 146 | 152 |
| TOTAL: | | 8 | 6 | 213 | 227 |

Note: 1) A dash (--) indicates the list is not searched at that distance.
2) Sites often have a record in more than one database.

Subject Property

Agency Records

3. Railroads and Water Features



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(DEFENSE DISTRIBUTION DEP

195 347

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NPL

| MAP | EPA ID / | |
|-------|-----------|-----------------------|
| REF # | AGENCY ID | SITE NAME AND ADDRESS |

=====

WITHIN 1/4 MILE

48

MEMPHIS DEFENSE DEPOT
PERRY & ELLISTON RDMEMPHIS
38106Distance: 0.00 mi.
Direction: --
Vista ID: 1987456

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CERCLIS

| MAP REF # | EPA ID / AGENCY ID | SITE NAME AND ADDRESS |
|--------------|-----------------------|-----------------------|
| ===== | ===== | ===== |

WITHIN 1/4 MILE

48

USA DEFENSE DEPOT MEMPHIS
2163 AIRWAYS BLVD

MEMPHIS
38114

Distance: 0.00 mi.
Direction: --
Vista ID: 285726

| | | |
|--------------|----------------|-------------------------------|
| TN4210020570 | Status | : CURRENTLY ON FINAL NPL |
| | Site Ownership | : FEDERALLY OWNED |
| | Site Events | : |
| | Event Type | : RECORD OF DECISION |
| | Event Type | : REMEDIAL DESIGN |
| | Event Type | : REMEDIAL ACTION |
| | Event Type | : COMBINED RI/FS |
| | Event Type | : RECORD OF DECISION |
| | Event Type | : REMEDIAL DESIGN |
| | Event Type | : REMEDIAL ACTION |
| | Event Type | : COMBINED RI/FS |
| | Event Type | : RECORD OF DECISION |
| | Event Type | : REMEDIAL DESIGN |
| | Event Type | : REMEDIAL ACTION |
| | Event Type | : COMBINED RI/FS |
| | Event Type | : RECORD OF DECISION |
| | Event Type | : RECORD OF DECISION |
| | Event Type | : REMEDIAL DESIGN |
| | Event Type | : REMEDIAL DESIGN |
| | Event Type | : REMEDIAL ACTION |
| | Event Type | : REMEDIAL ACTION |
| | Event Type | : COMBINED RI/FS |
| | Event Type | : SCREENING SITE INSPECTION |
| | Event Type | : SCREENING SITE INSPECTION |
| | Event Type | : PRELIMINARY ASSESSMENT |
| | Event Type | : PRELIMINARY ASSESSMENT |
| | Event Type | : PROPOSED FOR NPL |
| | Event Type | : FINAL LISTING ON NPL |
| | Event Type | : HAZARD RANKING SYSTEM SCORE |
| | Event Type | : DISCOVERY |

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CERCLIS

| MAP REF # | EPA ID / AGENCY ID | SITE NAME AND ADDRESS |
|--------------|-----------------------|-----------------------|
| ===== | ===== | ===== |

WITHIN 1/2 TO 2 MILES

| | | | |
|---|---|------------------|---|
| 9 | EASLEY EQUIP'T/TRI-STATE TRANSIT COS 2807 FARRISVIEW | MEMPHIS 38118 | Distance: 1.57 mi. Direction: SE Vista ID: 131688 |
|---|---|------------------|---|

| | |
|--------------|--|
| TND044064855 | Status : NOT ON NPL |
| | Site Ownership : OTHER |
| | Site Events : |
| | Event Type : SCREENING SITE INSPECTION |
| | Lead Agency : EPA FUND FINANCED |
| | Event Type : PRELIMINARY ASSESSMENT |
| | Lead Agency : STATE |
| | Event Type : DISCOVERY |
| | Lead Agency : EPA FUND FINANCED |

| | | | |
|---|-------------------------------|------------------|---|
| 9 | SES-6 2721 FARRISVIEW BLVD | MEMPHIS 38118 | Distance: 1.58 mi. Direction: SE Vista ID: 374642 |
|---|-------------------------------|------------------|---|

| | |
|--------------|--|
| TND980728166 | Status : NOT ON NPL |
| | Site Ownership : OTHER |
| | Site Events : |
| | Event Type : SCREENING SITE INSPECTION |
| | Lead Agency : EPA FUND FINANCED |
| | Event Type : PRELIMINARY ASSESSMENT |
| | Lead Agency : STATE |
| | Event Type : DISCOVERY |
| | Lead Agency : EPA FUND FINANCED |

| | | | |
|----|--|------------------|--|
| 12 | CHARLIE BROWN BODY SHOP & SALES 2435 FRISCO AVE | MEMPHIS 38114 | Distance: .99 mi. Direction: E Vista ID: 77918 |
|----|--|------------------|--|

| | |
|--------------|--|
| TND980727085 | Status : NOT ON NPL |
| | Site Ownership : OTHER |
| | Site Events : |
| | Event Type : SCREENING SITE INSPECTION |
| | Lead Agency : EPA FUND FINANCED |
| | Event Type : PRELIMINARY ASSESSMENT |
| | Lead Agency : STATE |
| | Event Type : DISCOVERY |
| | Lead Agency : EPA FUND FINANCED |

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CERCLIS

| MAP REF # | EPA ID / AGENCY ID | SITE NAME AND ADDRESS |
|--|-----------------------|---|
| ===== | | |
| <div style="text-align: center;">WITHIN 1/2 TO 2 MILES</div> | | |
| 27 | | RALSTON PURINA (CHOW PLY) SEL-4 1725 AIRWAYS BLVD MEMPHIS 38114 Distance: .97 mi. Direction: NE Visto ID: 346296 TND007035710 Status : NOT ON NPL Site Ownership : OTHER Site Events : Event Type : SCREENING SITE INSPECTION Lead Agency : EPA FUND FINANCED Event Type : PRELIMINARY ASSESSMENT Lead Agency : STATE Event Type : DISCOVERY Lead Agency : EPA FUND FINANCED |
| ----- | | |
| 28 | | OLD ESTECH GENERAL CHEMICALS INC 2221 DEADRICK AVE MEMPHIS 38114 Distance: 1.30 mi. Direction: NE Visto ID: 308304 TND980558944 Status : NOT ON NPL Site Ownership : OTHER Site Events : Event Type : SCREENING SITE INSPECTION Lead Agency : STATE Event Type : PRELIMINARY ASSESSMENT Lead Agency : STATE Event Type : LISTING SITE INSPECTION Lead Agency : EPA FUND FINANCED Event Type : DISCOVERY Lead Agency : EPA FUND FINANCED |
| ----- | | |
| 36 | | GOULD INC 2215 PERSON AVE MEMPHIS 38114 Distance: .98 mi. Direction: NE Visto ID: 3334324 TND000005066 Status : NOT ON NPL Site Ownership : OTHER Site Events : Event Type : SCREENING SITE INSPECTION Lead Agency : STATE Event Type : PRELIMINARY ASSESSMENT Lead Agency : STATE Event Type : DISCOVERY |

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CERCLIS

| MAP REF # | EPA ID / AGENCY ID | SITE NAME AND ADDRESS |
|--------------|---|-----------------------|
| 36 | GOULD INC 2215 PERSON AVE | MEMPHIS 38114 |
| 79 | VERTUT, BLENDING & PACKAGING HERNANDO ROAD | MEMPHIS 38186 |
| 81 | PMB CORP 901 E BOOLEY | MEMPHIS 38106 |

WITHIN 1/2 TO 2 MILES

36 GOULD INC MEMPHIS Distance: .98 mi.
2215 PERSON AVE 38114 Direction: NE
Vista ID: 3334324

Lead Agency : EPA FUND FINANCED

79 VERTUT, BLENDING & PACKAGING MEMPHIS Distance: 1.43 mi.
HERNANDO ROAD 38186 Direction: W
Vista ID: 1988972

TND030406268 Status : NOT ON NPL
Site Ownership : OTHER
Site Events :
Event Type : SCREENING SITE INSPECTION
Lead Agency : EPA FUND FINANCED
Event Type : PRELIMINARY ASSESSMENT
Lead Agency : STATE
Event Type : LISTING SITE INSPECTION
Lead Agency : EPA FUND FINANCED
Event Type : DISCOVERY
Lead Agency : EPA FUND FINANCED

81 PMB CORP MEMPHIS Distance: 1.94 mi.
901 E BOOLEY 38106 Direction: W
Vista ID: 333909

TND991279480 Status : NOT ON NPL
Site Ownership : OTHER
Site Events :
Event Type : SCREENING SITE INSPECTION
Lead Agency : STATE
Event Type : SCREENING SITE INSPECTION
Lead Agency : EPA FUND FINANCED
Event Type : PRELIMINARY ASSESSMENT
Lead Agency : STATE
Event Type : DISCOVERY
Lead Agency : EPA FUND FINANCED

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RCRA-LgGen

| MAP REF # | EPA ID / AGENCY ID | SITE NAME AND ADDRESS |
|--------------|-----------------------|-----------------------|
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WITHIN 1/4 MILE

| | | | |
|--------------|---|---|--|
| 48 | DEFENSE DISTRIBUTION REGION CENTRAL 2163 AIRWAYS BLVD. | MEMPHIS 38114 | Distance: 0.00 mi. Direction: -- Vista ID: 4941373 |
| TN4210020570 | Generator Class | :Generators who generate at least 1000 kg./month of non-acutely hazardous waste (or 1 kg./month of acutely hazardous waste). | |

WITHIN 1/2 TO 2 MILES

| | | | |
|--------------|---------------------------------|---|--|
| 27 | ENPAK INC. 1699 AIRWAYS BLVD | MEMPHIS 38114 | Distance: 1.00 mi. Direction: NE Vista ID: 2000494 |
| TND000005066 | Generator Class | :Generators who generate at least 1000 kg./month of non-acutely hazardous waste (or 1 kg./month of acutely hazardous waste). | |

| | | | |
|--------------|---|---|--|
| 55 | EXXON COMPANY USA #5-1405 3201 HILL BRANCH | MEMPHIS 38116 | Distance: 1.89 mi. Direction: SW Vista ID: 5269616 |
| TND982818858 | Generator Class | :Generators who generate at least 1000 kg./month of non-acutely hazardous waste (or 1 kg./month of acutely hazardous waste). | |

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RCRA-SnGen

| MAP REF # | EPA ID / AGENCY ID | SITE NAME AND ADDRESS |
|--------------|-----------------------|-----------------------|
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WITHIN 1/4 TO 1/2 MILE

| | | | |
|--------------|---------------------------------|--|---|
| 51 | AUTO ZONE INC. 1700 DUNN AVE | MEMPHIS 38106 | Distance: .44 mi. Direction: NW Vista ID: 34368 |
| TND982110744 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste | |

WITHIN 1/2 TO 2 MILES

| | | | |
|--------------|----------------------------------|--|---|
| 3 | PETER PAN CLEANERS 2837 LAMAR | MEMPHIS 38114 | Distance: 1.78 mi. Direction: NE Vista ID: 326873 |
| TND044880839 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste | |

| | | | |
|--------------|---|--|--|
| 5 | AMOCO STATION #318 2772 LAMAR AVENUE | MEMPHIS 38114 | Distance: 1.71 mi. Direction: NE Vista ID: 1990017 |
| TND987780392 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste | |

| | | | |
|--------------|------------------------------------|--|---|
| 7 | FASHION CLEANERS 2636 LAMAR AVE | MEMPHIS 38114 | Distance: 1.58 mi. Direction: NE Vista ID: 149190 |
| TND981023500 | Generator Class | :Generators who generate less than 100 kg./month of non-acutely hazardous waste. | |

| | | | |
|--------------|--|--|--|
| 9 | MEMPHIS CITY SCHOOLS-FARRISVIEW OFFI 2859 FARRISVIEW STREET MAYFLOW | MEMPHIS 38112 | Distance: 1.56 mi. Direction: SE Vista ID: 2000599 |
| TND987776051 | Generator Class | :Generators who generate less than 100 kg./month of non-acutely hazardous waste. | |

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RCRA-SubGen

| MAP REF # | EPA ID / AGENCY ID | SITE NAME AND ADDRESS |
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| ===== | | |
| <div style="border: 1px solid black; padding: 5px; text-align: center;"> WITHIN 1/2 TO 2 MILES </div> | | |
| 9 | B AND L TRAILER SALES & SERVICE 2871-S FARRISVIEW | MEMPHIS 38118 |
| Distance: 1.56 mi. Direction: SE Vista ID: 3126286 | | |
| TND98777513 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste |
| ----- | | |
| 11 | B & M PRINTING COMPANY 2500 LAMAR AVENUE | MEMPHIS 38114 |
| Distance: 1.46 mi. Direction: NE Vista ID: 1990013 | | |
| TND987779923 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste |
| ----- | | |
| 12 | HUNTER FAN LP 2500 FRISCO AVE | MEMPHIS 38114 |
| Distance: 1.15 mi. Direction: E Vista ID: 4941603 | | |
| TND051382158 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste |
| ----- | | |
| 14 | LUCKY STRIKE CLEANERS & LAUNDRY 2381 PARK | MEMPHIS 38114 |
| Distance: 1.67 mi. Direction: NE Vista ID: 3943866 | | |
| TND070771118 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste |
| ----- | | |
| 16 | AIRWAYS BLVD CLEANERS 2362 KETCHAM | MEMPHIS 38114 |
| Distance: 1.02 mi. Direction: SE Vista ID: 9681 | | |
| TND054873211 | Generator Class | :Generators who generate less than 100 kg./month of non-acutely hazardous waste. |
| ----- | | |
| 18 | KROGER THE CO GARAGE 2330 FRISCO | MEMPHIS 38114 |
| Distance: .81 mi. Direction: NE Vista ID: 232846 | | |
| TND146117106 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste |
| ----- | | |

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RCRA-Site

| MAP REF # | EPA ID / AGENCY ID | SITE NAME AND ADDRESS |
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WITHIN 1/2 TO 2 MILES

| | | | |
|--------------|--|--|--|
| 21 | EXXON CO USA #58195 2306 LAMAR AVE | MEMPHIS 38114 | Distance: 1.44 mi. Direction: NE Vista ID: 3126656 |
| TND987776879 | Generator Class | :Generators who generate less than 100 kg./month of non-acutely hazardous waste. | |
| 26 | MOBILE PROCESS TECHNOLOGY CO 2070 AIRWAYS | MEMPHIS 38114 | Distance: .66 mi. Direction: E Vista ID: 4941372 |
| TND053787057 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste | |
| 29 | UNITED EQUIP INC 2205 LAMAR | MEMPHIS 38111 | Distance: 1.53 mi. Direction: NE Vista ID: 3727241 |
| TND047929609 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste | |
| 31 | JACO-BRYANT PRINTING CO 2214 FREEMONT STREET | MEMPHIS 38114 | Distance: .64 mi. Direction: NE Vista ID: 4941594 |
| TND007044225 | Generator Class | :Generators who generate less than 100 kg./month of non-acutely hazardous waste. | |
| 33 | FEDERAL EXPRESS CORP 2851 DIRECTORS COVE | MEMPHIS 38131 | Distance: 1.51 mi. Direction: SE Vista ID: 149923 |
| TND981004039 | Generator Class | :Generators who generate less than 100 kg./month of non-acutely hazardous waste. | |
| 33 | MONARCH CUSTOM TRUCK BOOTIES, INC. 2900 AIRWAYS BLVD. | MEMPHIS 38132 | Distance: 1.59 mi. Direction: SE Vista ID: 281405 |
| TND982164360 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste | |

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| MAP REF # | EPA ID / AGENCY ID | SITE NAME AND ADDRESS |
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WITHIN 1/2 TO 2 MILES

| | | | |
|--------------|---|--|--|
| 34 | MEMPHIS ENVIRONMENTAL CENTER, INC. 2603 CORPORATE AVE. SUITE 100 | MEMPHIS 38132 | Distance: 1.09 mi. Direction: SE Vista ID: 488280 |
| TND982081382 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste | |
| 37 | AMOCO STATION #329 2134 LAMAR AVENUE | MEMPHIS 38114 | Distance: 1.61 mi. Direction: NE Vista ID: 1990009 |
| TND987780426 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste | |
| 38 | KELLOGG CO. 2168 FRISCO AVE | MEMPHIS 38114 | Distance: .67 mi. Direction: NE Vista ID: 225584 |
| TND007025638 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste | |
| 44 | CLARKE AMERICAN 1785 NONCONNAH BLVD. | MEMPHIS 38132 | Distance: 1.06 mi. Direction: SE Vista ID: 1992087 |
| TND987768959 | Generator Class | :Generators who generate less than 100 kg./month of non-acutely hazardous waste. | |
| 46 | GENERAL TRUCK SALES & SERVICE 1973 E BROOKS RD | MEMPHIS 38116 | Distance: 1.89 mi. Direction: S Vista ID: 169251 |
| TND007045172 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste | |
| 46 | LUFKIN IND INC 1947 E BROOKS | MEMPHIS 38116 | Distance: 1.88 mi. Direction: S Vista ID: 251822 |
| TND982169211 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste | |

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| MAP REF # | EPA ID / AGENCY ID | SITE NAME AND ADDRESS |
|--------------|-----------------------|-----------------------|
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WITHIN 1/2 TO 2 MILES

| | | | |
|--------------|---|--|---|
| 47 | M S CARRIERS INCORPORATED 3150 STARNES COVE | MEMPHIS 38116 | Distance: 1.78 mi. Direction: S Vista ID: 286243 |
| TND982098709 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste | |
| 49 | LAND LEASE TRUCK LEASING 1850 E BROOKS RD | MEMPHIS 38116 | Distance: 1.69 mi. Direction: S Vista ID: 242577 |
| TND073545725 | Generator Class | :Generators who generate less than 100 kg./month of non-acutely hazardous waste. | |
| 49 | OVERNIGHT TRANSPORTATION CORP. 1803 BROOKS RD. | MEMPHIS 38116 | Distance: 1.90 mi. Direction: S Vista ID: 1985261 |
| TND987769098 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste | |
| 50 | J.W. MOORE PRINTING CO. INC 3011 CARRIER ST | MEMPHIS 38116 | Distance: 1.74 mi. Direction: S Vista ID: 283246 |
| TND007031677 | Generator Class | :Generators who generate less than 100 kg./month of non-acutely hazardous waste. | |
| 50 | THE SOUTHERN CO INC 3101 CARRIER ST | MEMPHIS 38116 | Distance: 1.80 mi. Direction: S Vista ID: 4941522 |
| TND982114662 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste | |
| 55 | AIRPORT TOYOTA OF MEMPHIS INC 1710 E BROOKS RD | MEMPHIS 38116 | Distance: 1.92 mi. Direction: SW Vista ID: 9431 |
| TND987766227 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste | |

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| MAP REF # | EPA ID / AGENCY ID | SITE NAME AND ADDRESS |
|--------------|-----------------------|-----------------------|
| ===== | ===== | ===== |

WITHIN 1/2 TO 2 MILES

| | | | |
|--------------|--|--|--|
| 55 | CUMMINS MID-SOUTH INC 1784 E BROOKS RD | MEMPHIS 38116 | Distance: 1.90 mi. Direction: SW Vista ID: 109172 |
| TND149906315 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste | |
| 55 | MID-AMERICA INTERNATIONAL TRUC 1750 E BROOKS RD | MEMPHIS 38116 | Distance: 1.91 mi. Direction: SW Vista ID: 271941 |
| TND982086662 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste | |
| 55 | PETERBILT OF MEMPHIS INC. 1761 E BROOKS RD | MEMPHIS 38116 | Distance: 1.91 mi. Direction: SW Vista ID: 326806 |
| TND066110008 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste | |
| 55 | BARTON TRUCK CENTER, INC. 1650 E BROOKS RD | MEMPHIS 38116 | Distance: 1.95 mi. Direction: SW Vista ID: 1985258 |
| TND127371748 | Generator Class | :Generators who generate less than 100 kg./month of non-acutely hazardous waste. | |
| 55 | AMOCO STATION #955 1709 BROOKS RD | MEMPHIS 38116 | Distance: 1.92 mi. Direction: SW Vista ID: 1985259 |
| TND987780483 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste | |
| 57 | LEVELLYN FABRICATING CO., INC. 3109 FONTAINE | MEMPHIS 38116 | Distance: 1.82 mi. Direction: SW Vista ID: 243434 |
| TND982172785 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste | |

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MAP EPA ID /
REF # AGENCY ID SITE NAME AND ADDRESS

WITHIN 1/2 TO 2 MILES

| | | | |
|--------------|--|--|--|
| 58 | SONOCO PRODUCTS COMPANY 1440 RAGAN ST | MEMPHIS 38106 | Distance: 1.42 mi. Direction: NW Vista ID: 3127287 |
| TND987785300 | Generator Class | :Generators who generate less than 100 kg./month of non-acutely hazardous waste. | |
| ----- | | | |
| 61 | NXC OF AMERICA INC 1572 BROOKS ROAD EAST | MEMPHIS 38116 | Distance: 1.99 mi. Direction: SW Vista ID: 4941433 |
| TND981031107 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste | |
| ----- | | | |
| 61 | PEACH AUTO PAINTING & COLLISION 1579 BROOKS RD E | MEMPHIS 38116 | Distance: 2.00 mi. Direction: SW Vista ID: 5268231 |
| TND093789931 | Generator Class | :Generators who generate less than 100 kg./month of non-acutely hazardous waste. | |
| ----- | | | |
| 62 | BARTON EQUIPMENT AND TRUCK CEN 1505 CORPORATE AVE | MEMPHIS 38132 | Distance: 1.35 mi. Direction: SW Vista ID: 38743 |
| TND982158974 | Generator Class | :Generators who generate less than 100 kg./month of non-acutely hazardous waste. | |
| ----- | | | |
| 62 | NAEGELE OUTDOOR ADVERTISING CO 1451 CORPORATE DR | MEMPHIS 38132 | Distance: 1.42 mi. Direction: SW Vista ID: 289086 |
| TND981014251 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste | |
| ----- | | | |
| 62 | MID-SOUTH OXYGEN COMPANY 1385 CORPORATE AVENUE | MEMPHIS 38132 | Distance: 1.50 mi. Direction: SW Vista ID: 526912 |
| TND000035964 | Generator Class | :Generators who generate less than 100 kg./month of non-acutely hazardous waste. | |

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| MAP REF # | EPA ID / AGENCY ID | SITE NAME AND ADDRESS |
|--------------|-----------------------|-----------------------|
|--------------|-----------------------|-----------------------|

WITHIN 1/2 TO 2 MILES

| | | | |
|---------------|---|--|--|
| 63 | DELTA DETROIT DIESEL ALLISON I 3070 SANDBROOK | MEMPHIS 38116 | Distance: 1.92 mi. Direction: SW Vista ID: 117975 |
| TND007043466 | Generator Class | :Generators who generate less than 100 kg./month of non-acutely hazardous waste. | |
| 64 | US POSTAL SERV. BMC AUXILIARY 1921 ELVIS PRESLEY BLVD. | MEMPHIS 38136 | Distance: 1.11 mi. Direction: NW Vista ID: 1987463 |
| TND3180000074 | Generator Class | :Generators who generate less than 100 kg./month of non-acutely hazardous waste. | |
| 65 | MEMPHIS CTY SCHOOLS HAMILTON H 1363 PERSON STREET | MEMPHIS 38106 | Distance: 1.34 mi. Direction: NW Vista ID: 1993218 |
| TND987768702 | Generator Class | :Generators who generate less than 100 kg./month of non-acutely hazardous waste. | |
| 66 | DELTIC INC 2050 ELVIS PRESLEY BLVD | MEMPHIS 38106 | Distance: 1.07 mi. Direction: W Vista ID: 3126207 |
| TND987783826 | Generator Class | :Generators who generate less than 100 kg./month of non-acutely hazardous waste. | |
| 69 | K CLEANERS 2247 ELVIS PRESLEY BLVD | MEMPHIS 38106 | Distance: 1.12 mi. Direction: SW Vista ID: 224872 |
| TND982097933 | Generator Class | :Generators who generate less than 100 kg./month of non-acutely hazardous waste. | |
| 70 | AMOCO STATION #691 2260 ELVIS PRESLEY BLVD | MEMPHIS 38106 | Distance: 1.12 mi. Direction: SW Vista ID: 1987470 |
| TND987780442 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste | |

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RCRA-SoGen

| MAP REF # | EPA ID / AGENCY ID | SITE NAME AND ADDRESS |
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WITHIN 1/2 TO 2 MILES

| | | | |
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| 72 | FAWN LAUNDRY & CLEANERS 2457 ELVIS PRESLEY | MEMPHIS 38106 | Distance: 1.32 mi. Direction: SW Vista ID: 149498 |
| TND982159782 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste | |
| 72 | HALL'S BODY SHOP 2421 ELVIS PRESLEY BLVD | MEMPHIS 38106 | Distance: 1.30 mi. Direction: SW Vista ID: 3126208 |
| TND987778560 | Generator Class | :Generators who generate less than 100 kg./month of non-acutely hazardous waste. | |
| 73 | THOMPSON MACHINERY COMMERCE CORP 1291 CORPORATE AVE | MEMPHIS 38132 | Distance: 1.67 mi. Direction: SW Vista ID: 1986644 |
| TND981865124 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste | |
| 81 | AMERICAN RESOURCE RECOVERY COR 901 E BODLEY | MEMPHIS 38106 | Distance: 1.94 mi. Direction: W Vista ID: 20009 |
| TND991279480 | Generator Class | :Generators who generate 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste | |

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RCRA-TSD

| MAP REF # | EPA ID / AGENCY ID | SITE NAME AND ADDRESS |
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WITHIN 1/4 MILE

| | | | |
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| 48 | DEFENSE DISTRIBUTION REGION CENTRAL 2163 AIRWAYS BLVD. | MEMPHIS 38114 | Distance: 0.00 mi. Direction: -- Vista ID: 4941373 |
| TN4210020570 Process Codes :Container Storage | | | |

WITHIN 1/2 TO 2 MILES

| | | | |
|---|--|------------------|---|
| 81 | AMERICAN RESOURCE RECOVERY COR 901 E BOOLEY | MEMPHIS 38106 | Distance: 1.94 mi. Direction: W Vista ID: 20009 |
| TND991279480 Process Codes :Tank Storage Tank Storage Tank Storage Tank Storage | | | |

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RCRA:Transp

MAP EPA ID /
REF # AGENCY ID SITE NAME AND ADDRESS

WITHIN 1/2 TO 2 MILES

81

AMERICAN RESOURCE RECOVERY COR
901 E BODLEY

MEMPHIS
38106

Distance: 1.94 mi.
Direction: W
Vista ID: 20009

TND991279480 Transporter Status :Engaged in the off-site transportation of hazardous waste

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ERNS

| MAP REF # | EPA ID / AGENCY ID | SITE NAME AND ADDRESS |
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WITHIN 1/4 MILE

| | | | |
|-------|--|---------|--|
| 48 | DEFENSE LOGISTICS AGENCY DEFENSE DEPOT MEMPHIS 2163 AIRWAYS BLVD | MEMPHIS | Distance: 0.00 mi. Direction: -- Vista ID: 200075000 |
| 11560 | Spill Date: 03/09/1990 Case Number: 11560 Spill Location: DEFENSE DEPOT MEMPHIS 2163 AIRWAYS BLVD Spill City: MEMPHIS Spill State: TN Spill Zip: Spill County: SHELBY Source/Agency: Material Spilled: TETRACHLOROETHYLENE , 00000060.00 , GAL Medium Affected: Land Waterway Affected: CRUSHED LIMESTONE AND SOIL | | |

| | | | |
|-------|--|------------------|--|
| 48 | DEPT. DEFENSE 2163 AIRWAYS BLVD | MEMPHIS 38114 | Distance: 0.00 mi. Direction: -- Vista ID: 200084750 |
| 30190 | Spill Date: 07/09/1990 Case Number: 30190 Spill Location: 2163 AIRWAYS BLVD Spill City: MEMPHIS Spill State: TN Spill Zip: Spill County: SHELBY Source/Agency: Material Spilled: POLYCHLORINATED BIPHENYLS , 00000050.00 , GAL Medium Affected: Land Waterway Affected: SOIL | | |

WITHIN 1/4 TO 1/2 MILE

| | | | |
|----|---|------------------|---|
| 51 | AUTO ZONE INC. 1700 DUNN AVE | MEMPHIS 38106 | Distance: .43 mi. Direction: NW Vista ID: 200167252 |
| | Spill Date: 09/07/1988 Case Number: Spill Location: 1700 DUNN AVE | | |

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ERMS

| MAP REF # | EPA ID / AGENCY ID | SITE NAME AND ADDRESS |
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WITHIN 1/4 TO 1/2 MILE

| | | | |
|----|--|------------------|---|
| 51 | AUTO ZONE INC. 1700 DUNN AVE | MEMPHIS 38106 | Distance: .43 mi. Direction: NW Vista ID: 200167252 |
| | Spill City: MEMPHIS Spill State: TN Spill Zip: Spill County: SHELBY Source/Agency: Material Spilled: DIESEL Medium Affected: Land Waterway Affected: SOIL | | |
| | | D.D.O, UNK | |

WITHIN 1/2 TO 2 MILES

| | | | |
|--------|---|---------------------|--|
| 15 | SOUTH WESTERN ICE CO 2367 KIMBALL AV | MEMPHIS 38114 | Distance: 1.00 mi. Direction: NE Vista ID: 200303595 |
| 242893 | Spill Date: 06/08/1994 Case Number: 242893 Spill Location: 2367 KIMBALL AV Spill City: MEMPHIS Spill State: TN Spill Zip: 38114 Spill County: SHELBY Source/Agency: Material Spilled: AMMONIA, ANHYDROUS Medium Affected: Air Waterway Affected: ATMOSPHERE | | |
| | | , 00000500.00 , LBS | |

| | | | |
|----|--|------------------|---|
| 27 | PURINA MILLS INC 1725 AIRWAYS | MEMPHIS 38114 | Distance: .97 mi. Direction: NE Vista ID: 200120117 |
| | Spill Date: 03/05/1987 Case Number: Spill Location: 1725 AIRWAYS Spill City: MEMPHIS Spill State: TN Spill Zip: | | |

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ERMS

| MAP REF # | EPA ID / AGENCY ID | SITE NAME AND ADDRESS |
|--------------|----------------------------------|-----------------------|
| 27 | PURINA MILLS INC 1725 AIRWAYS | MEMPHIS 38114 |

WITHIN 1/2 TO 2 MILES.

Distance: .97 mi.
Direction: NE
Vista ID: 200120117

Spill County: SHELBY
Source/Agency:
Material Spilled: MOLASSES 300.00, GAL
Medium Affected: Water
Waterway Affected: N/A

27 PURINA MILLS INC MEMPHIS Distance: .97 mi.
1725 AIRWAYS 38114 Direction: NE
Vista ID: 200149368

Spill Date: 10/30/1987
Case Number:
Spill Location: 1725 AIRWAYS
Spill City: MEMPHIS
Spill State: TN
Spill Zip:
Spill County: SHELBY
Source/Agency:
Material Spilled: MOLASSES AND WATER MIXTURE 100.00, GAL
Medium Affected: Land
Waterway Affected: CONCRETE DRAIN; NONCONNAH CREEK>MISS RIV

81 AMERICAN RESOURCES MEMPHIS Distance: 1.94 mi.
CHEMICAL PLANT AT PROSPECT AND BOOLEY ST Direction: W
Vista ID: 200335870

251518 Spill Date: 07/25/1994
Case Number: 251518
Spill Location: CHEMICAL PLANT AT PROSPECT AND BOOLEY STREETS
Spill City: MEMPHIS
Spill State: TN
Spill Zip:
Spill County: SHELBY
Source/Agency:
Material Spilled: UNKNOWN MATERIAL , 00000000.00 , UNK
Medium Affected: Air
Waterway Affected: ATMOSPHERE

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ERNS

| MAP REF # | EPA ID / AGENCY ID | SITE NAME AND ADDRESS |
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WITHIN 1/2 TO 2 MILES

| | | | |
|--------|--|------------------|---|
| 81 | AMERICAN RESOURCE RECOVER 901 EAST BOOLEY | MEMPHIS 38106 | Distance: 1.94 mi. Direction: W Vista ID: 200335898 |
| 251565 | Spill Date: 07/25/1994 Case Number: 251565 Spill Location: 901 EAST BOOLEY Spill City: MEMPHIS Spill State: TN Spill Zip: 38106 Spill County: SHELBY Source/Agency: Material Spilled: METHYL METHACRYLATE , 00000030.00 , LBS Medium Affected: Air Waterway Affected: ATMOSPHERE | | |

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SPL

| MAP | EPA ID / | |
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| REF # | AGENCY ID | SITE NAME AND ADDRESS |

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WITHIN 1/4 MILE

48

US ARMY/DEFENSE DEPOT

Distance: 0.00 mi.

Direction: --

Vista ID: 1984493

79-736

WPL Status :

Waste # 0 :

Waste # 1 :

Waste # 2 :

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LUST

| MAP REF # | EPA ID / AGENCY ID | SITE NAME AND ADDRESS |
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WITHIN 1/4 TO 1/2 MILE

| | | | |
|----------|--|------------------|---|
| 51 | AUTO ZONE INC. 1700 DUNN AVE | MEMPHIS 38106 | Distance: .44 mi. Direction: NW Vista ID: 34368 |
| 9-790062 | Leak Cause : UNAVAILABLE Remediation : CASE CLOSED/CLEANUP COMPLETE | | |

WITHIN 1/2 TO 2 MILES

| | | | |
|----------|---|------------------|--|
| | AMOCO STATION #318 2772 LAMAR AVENUE | MEMPHIS 38114 | Distance: 1.71 mi. Direction: NE Vista ID: 1990017 |
| 9-791070 | Leak Cause : UNAVAILABLE Remediation : CASE OPEN | | |

| | | | |
|----------|--|------------------|--|
| | SOUTHLAND CORP 2731 KETCHUM | MEMPHIS 38114 | Distance: 1.66 mi. Direction: SE Vista ID: 3126613 |
| 9-792196 | Leak Cause : UNAVAILABLE Remediation : CASE CLOSED/CLEANUP COMPLETE | | |

| | | | |
|----------|---|------------------|--|
| | TIME SAVER CONVENIENCE 2350 PENDLETON | MEMPHIS 38114 | Distance: 1.62 mi. Direction: SE Vista ID: 3334315 |
| 9-791567 | Leak Cause : UNAVAILABLE Remediation : CASE OPEN | | |

| | | | |
|----------|--|------------------|--|
| 10 | WOODS FINA 2571 LAMAR AVE | MEMPHIS 38114 | Distance: 1.51 mi. Direction: NE Vista ID: 1990015 |
| 9-791961 | Leak Cause : UNAVAILABLE Remediation : CASE CLOSED/CLEANUP COMPLETE | | |

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| MAP REF # | EPA ID / AGENCY ID | SITE NAME AND ADDRESS |
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WITHIN 1/2 TO 2 MILES

| | | | |
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| 48 | KROGER THE CO 2330 FRISCO | GARAGE MEMPHIS 38114 | Distance: .81 mi. Direction: NE Vista ID: 232846 |
| 9-790904 | Leak Cause : UNAVAILABLE Remediation : CASE OPEN | | |
| 4 | EXXON RETAIL STORE #5-8195 2306 LAMAR/AIRWAYS | MEMPHIS 38114 | Distance: 1.44 mi. Direction: NE Vista ID: 1990052 |
| 9-791275 | Leak Cause : UNAVAILABLE Remediation : CASE OPEN | | |
| 3 | DELTA 3017 2921 AIRWAYS BLVD | MEMPHIS 38132 | Distance: 1.62 mi. Direction: SE Vista ID: 1984528 |
| 9-791233 | Leak Cause : UNAVAILABLE Remediation : CASE OPEN | | |
| 47 | AMOCO STATION #329 2134 LAMAR AVENUE | MEMPHIS 38114 | Distance: 1.61 mi. Direction: NE Vista ID: 1990009 |
| 9-791087 | Leak Cause : UNAVAILABLE Remediation : CASE OPEN | | |
| 42 | LAND LEASE TRUCK LEASING 1850 E BROOKS RD | MEMPHIS 38116 | Distance: 1.89 mi. Direction: S Vista ID: 242577 |
| 9-790921 | Leak Cause : UNAVAILABLE Remediation : CASE OPEN | | |
| 65 | FOREST HILL CEMETERY 1661 ELVIS PRESLEY BLVD | MEMPHIS 38106 | Distance: 1.43 mi. Direction: NW Vista ID: 1987461 |
| 9-792138 | Leak Cause : UNAVAILABLE Remediation : CASE CLOSED/CLEANUP COMPLETE | | |

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WITHIN 1/2 TO 2 MILES

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|----------|--|------------------|---|
| 66 | BELLEVUE RALLY SERVICE STA 2100 ELVIS PRESLEY | MEMPHIS 38106 | Distance: 1.07 mi. Direction: W Vista ID: 1987466 |
| 9-790078 | Leak Cause : UNAVAILABLE Remediation : CASE CLOSED/CLEANUP COMPLETE | | |
| 68 | FIRE DEPT #29 2147 ELVIS PRESLEY | MEMPHIS 38106 | Distance: 1.08 mi. Direction: W Vista ID: 1987467 |
| 9-791141 | Leak Cause : UNAVAILABLE Remediation : CASE CLOSED/CLEANUP COMPLETE | | |
| 81 | AMERICAN RESOURCE RECOVERY COR 901 E BODLEY | MEMPHIS 38106 | Distance: 1.94 mi. Direction: W Vista ID: 20009 |
| 9-790035 | Leak Cause : UNAVAILABLE Remediation : CASE CLOSED/CLEANUP COMPLETE | | |

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| MAP REF # | EPA ID / AGENCY ID | SITE NAME AND ADDRESS |
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WITHIN 1/4 MILE

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| 48 | USA DEFENSE DEPOT MEMPHIS 2163 AIRWAYS BLVD | MEMPHIS 38114 | Distance: 0.00 mi. Direction: -- Vista ID: 285726 |
| 0-790241 | Number of Underground Tanks: 25 Contents: FUEL OIL, HEATING OIL, GASOLINE (UNSPECIFIED), DIESEL, HAZARDOUS, WASTE WATER, USED OIL, CHEMICAL MIXTURE, | | |

WITHIN 1/4 TO 1/2 MILE

| | | | |
|----------|---|------------------|--|
| 40 | ABF FREIGHT SYSTEM INC 2080 DUNN RD | MEMPHIS 38114 | Distance: .40 mi. Direction: NE Vista ID: 3172 |
| 9-790012 | Number of Underground Tanks: 2 Contents: DIESEL, | | |

| | | | |
|----------|---|------------------|---|
| 51 | AUTO ZONE 1700 DUNN AVENUE | MEMPHIS 38106 | Distance: .44 mi. Direction: NW Vista ID: 34368 |
| 9-790062 | Number of Underground Tanks: 1 Contents: DIESEL, | | |

| | | | |
|----------|---|------------------|---|
| 51 | MALONE & HYDE 1700 DUNN AVENUE | MEMPHIS 38106 | Distance: .43 mi. Direction: NW Vista ID: 3126111 |
| 9-790763 | Number of Underground Tanks: 3 Contents: DIESEL, GASOLINE (UNSPECIFIED), | | |

WITHIN 1/2 TO 2 MILES

| | | | |
|----------|---|------------------|---|
| 1 | TOTAL STATION #2260 2896 LAMAR | MEMPHIS 38114 | Distance: 1.89 mi. Direction: E Vista ID: 5513553 |
| 9-790815 | Number of Underground Tanks: 4 Contents: GASOLINE (UNSPECIFIED), | | |

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UST/s

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WITHIN 1/2 TO 2 MILES

| | | | |
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| 2 | KLINKE BROS ICE CREAM 2450 SCAPER | MEMPHIS 38114 | Distance: 1.89 mi. Direction: SE Vista ID: 1997129 |
| 9-791456 | Number of Underground Tanks: 3 Contents: GASOLINE (UNSPECIFIED), DIESEL, | | |
| 4 | FIRE DEPT #22 2788 LAMAR | MEMPHIS 38114 | Distance: 1.73 mi. Direction: NE Vista ID: 1990018 |
| 9-791134 | Number of Underground Tanks: 1 Contents: DIESEL, | | |
| 5 | PHILLIPS 66 CO #011277 2739 LAMAR | MEMPHIS 38114 | Distance: 1.67 mi. Direction: NE Vista ID: 1990016 |
| 9-791475 | Number of Underground Tanks: 4 Contents: GASOLINE (UNSPECIFIED), | | |
| 5 | AMOCO STATION #318 2772 LAMAR AVENUE | MEMPHIS 38114 | Distance: 1.71 mi. Direction: NE Vista ID: 1990017 |
| 9-791070 | Number of Underground Tanks: 3 Contents: GASOLINE (UNSPECIFIED), | | |
| 5 | PAT PATTERSON 2759 LAMAR AVENUE | MEMPHIS 38114 | Distance: 1.69 mi. Direction: NE Vista ID: 3126668 |
| 9-790759 | Number of Underground Tanks: 3 Contents: DIESEL, GASOLINE (UNSPECIFIED), | | |
| 6 | SOUTHLAND CORP 2731 KETCHUM | MEMPHIS 38114 | Distance: 1.66 mi. Direction: SE Vista ID: 3126613 |
| 9-792196 | Number of Underground Tanks: 1 Contents: GASOLINE (UNSPECIFIED), | | |

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|-----------------------|-----------------------|--|
| WITHIN 1/2 TO 2 MILES | | |
| 6 | | TIME SAVER CONVENIENCE STORE 2350 PENDLETON |
| 9-791567 | | Number of Underground Tanks: 3 Contents: GASOLINE (UNSPECIFIED), |
| 8 | | TRAF-MARK INC 2595 FRISCO |
| 9-790717 | | Number of Underground Tanks: 1 Contents: GASOLINE (UNSPECIFIED), |
| 8 | | DENNIES CONTRACTING CO INC 2601 FRISCO AVE |
| 9-792026 | | Number of Underground Tanks: 2 Contents: GASOLINE (UNSPECIFIED), DIESEL, |
| 8 | | BRIGHT CONSTRUCTION COMPANY INC 2637 FRISCO |
| 9-790100 | | Number of Underground Tanks: 2 Contents: GASOLINE (UNSPECIFIED), DIESEL, |
| 9 | | EASLEY EQUIP'T/TRI-STATE TRANS 2807 FARRISVIEW |
| 9-792098 | | Number of Underground Tanks: 1 Contents: GASOLINE (UNSPECIFIED), |
| 9 | | HUMBOLDT EXPRESS 2727 FARRISVIEW BLVD |
| 9-790707 | | Number of Underground Tanks: 5 Contents: GASOLINE (UNSPECIFIED), OIL (NOT SPECIFIED), DIESEL, USED OIL, |

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| | | WITHIN 1/2 TO 2 MILES |
| 9 | | RYDER TRUCK RENTAL 2578 LINDAWOOD AVE |
| | 9-790465 | Number of Underground Tanks: 2 Contents: DIESEL, USED OIL, |
| 10 | | LOEB'S MKT #16 2560 LAMAR |
| | 9-791428 | Number of Underground Tanks: 3 Contents: GASOLINE (UNSPECIFIED), |
| 10 | | WOODS FINA 2571 LAMAR AVE |
| | 9-791961 | Number of Underground Tanks: 3 Contents: DIESEL, USED OIL, |
| 11 | | WILLIE'S FAST FOODS 2466 LAMAR |
| | 9-790862 | Number of Underground Tanks: 4 Contents: GASOLINE (UNSPECIFIED), KEROSENE, |
| 11 | | FINA STATION 2471 LAMAR |
| | 9-790318 | Number of Underground Tanks: 2 Contents: GASOLINE (UNSPECIFIED), |
| 11 | | FORMER SITE SERVICE STATION 2466 LAMAR |
| | 9-792466 | Number of Underground Tanks: 1 Contents: UNKNOWN, |

Distance: 1.50 mi.
Direction: SE
Vista ID: 5344967

Distance: 1.50 mi.
Direction: NE
Vista ID: 1990014

Distance: 1.51 mi.
Direction: NE
Vista ID: 1990015

Distance: 1.44 mi.
Direction: NE
Vista ID: 1990011

Distance: 1.44 mi.
Direction: NE
Vista ID: 1990012

Distance: 1.45 mi.
Direction: NE
Vista ID: 3126657

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9-79018 38114 UST's

| MAP REF # | EPA ID / AGENCY ID | SITE NAME AND ADDRESS |
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WITHIN 1/2 TO 2 MILES

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|----|------------------------------------|------------------|--|
| 12 | LOYD DAVIS PLUMBING 2429 FRISCO | MEMPHIS 38114 | Distance: .98 mi. Direction: E Vista ID: 1987901 |
|----|------------------------------------|------------------|--|

9-790930 Number of Underground Tanks: 1
Contents: GASOLINE (UNSPECIFIED),

| | | | |
|----|----------------------------------|------------------|---|
| 12 | TATUM ELECTRIC CO 2455 FRISCO | MEMPHIS 38114 | Distance: 1.02 mi. Direction: E Vista ID: 1987902 |
|----|----------------------------------|------------------|---|

9-790685 Number of Underground Tanks: 1
Contents: GASOLINE (UNSPECIFIED),

| | | | |
|----|--|------------------|---|
| 12 | AMERICAN REFRIGERATION HTG & A/C 2465 FRISCO RD | MEMPHIS 38114 | Distance: 1.03 mi. Direction: E Vista ID: 1987903 |
|----|--|------------------|---|

9-790034 Number of Underground Tanks: 1
Contents: GASOLINE (UNSPECIFIED),

| | | | |
|----|----------------------------------|------------------|---|
| 12 | HUNTER FAN CO 2500 FRISCO AVE | MEMPHIS 38118 | Distance: 1.15 mi. Direction: E Vista ID: 3126281 |
|----|----------------------------------|------------------|---|

9-792511 Number of Underground Tanks: 1
Contents: GASOLINE (UNSPECIFIED),
Number of Underground Tanks: 1
Contents: USED OIL,

| | | | |
|----|-----------------------------|------------------|--|
| 13 | HOLMES & SON 2411 CARNES | MEMPHIS 38114 | Distance: 1.96 mi. Direction: NE Vista ID: 1986639 |
|----|-----------------------------|------------------|--|

9-792063 Number of Underground Tanks: 2
Contents: GASOLINE (UNSPECIFIED),

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| MAP REF # | EPA ID / AGENCY ID | SITE NAME AND ADDRESS | Distance: |
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| WITHIN 1/2 TO 2 MILES | | | |
| 14 | DELTA EXPRESS #3160 2335 PARK AVE | MEMPHIS 38114 | 1.63 mi. |
| 9-791904 | Number of Underground Tanks: 3 Contents: GASOLINE (UNSPECIFIED), | | Direction: NE Vista ID: 1993140 |
| 16 | STAR ENTERPRISE 2400 AIRWAYS | MEMPHIS 38114 | 1.00 mi. |
| 9-791627 | Number of Underground Tanks: 5 Contents: GASOLINE (UNSPECIFIED), DIESEL, USED OIL, | | Direction: SE Vista ID: 1984524 |
| 17 | LOEB'S 7-11 MARKET #6 1155 AIRWAYS BLVD | MEMPHIS 38114 | 1.97 mi. |
| 9-791427 | Number of Underground Tanks: 2 Contents: GASOLINE (UNSPECIFIED), | | Direction: NE Vista ID: 1984518 |
| 18 | KROGER CO 2330 FRISCO AVE | MEMPHIS 38114 | .81 mi. |
| 9-790904 | Number of Underground Tanks: 8 Contents: DIESEL, USED OIL, GASOLINE (UNSPECIFIED), OIL (NOT SPECIFIED), ANTIFREEZE/COOLANT, | | Direction: NE Vista ID: 232846 |
| 18 | ALLIED SYSTEMS LTD 2355 FRISCO AVE | MEMPHIS 38114 | .87 mi. |
| 9-792275 | Number of Underground Tanks: 3 Contents: DIESEL, USED OIL, | | Direction: NE Vista ID: 1987900 |
| 19 | TOTAL STATION #2255 2337 AIRWAYS | MEMPHIS 38114 | .92 mi. |
| 9-790818 | Number of Underground Tanks: 4 Contents: GASOLINE (UNSPECIFIED), | | Direction: SE Vista ID: 1984523 |

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WITHIN 1/2 TO 2 MILES

| | | | |
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| 20 | ABANDONED STATION CARNES & GARFIELD | MEMPHIS 38114 | Distance: 1.90 mi. Direction: NE Vista ID: 3126342 |
| 0-792458 | Number of Underground Tanks: 2 Contents: GASOLINE (UNSPECIFIED), | | |
| 21 | EXXON RETAIL STORE #5-8195 2306 LAMAR/AIRWAYS | MEMPHIS 38114 | Distance: 1.44 mi. Direction: NE Vista ID: 1990052 |
| 9-791275 | Number of Underground Tanks: 3 Contents: GASOLINE (UNSPECIFIED), DIESEL, | | |
| 22 | KERR-MCGEE #6419 2232 AIRWAYS | MEMPHIS 38114 | Distance: .78 mi. Direction: SE Vista ID: 3125642 |
| 9-790460 | Number of Underground Tanks: 3 Contents: GASOLINE (UNSPECIFIED), | | |
| 23 | ADCOX CORPORATION 2315 BYRNE ROAD | MEMPHIS 38132 | Distance: 1.96 mi. Direction: SE Vista ID: 5925 |
| 9-792438 | Number of Underground Tanks: 1 Contents: GASOLINE (UNSPECIFIED), | | |
| 24 | THRIFTY CAR RENTAL 2780 AIRWAYS | MEMPHIS 38132 | Distance: 1.45 mi. Direction: SE Vista ID: 1984525 |
| 9-792362 | Number of Underground Tanks: 2 Contents: GASOLINE (UNSPECIFIED), USED OIL, | | |
| 24 | THRIFTY CAR RENTAL 2303 DEMOCRAT RD | MEMPHIS 38132 | Distance: 1.50 mi. Direction: SE Vista ID: 5344855 |
| 9-792531 | Number of Underground Tanks: 2 Contents: GASOLINE (UNSPECIFIED), USED OIL, | | |

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| 25 | | AIRWAY TIRE & ALIGNMENT 2050 AIRWAYS | MEMPHIS 38114 | Distance: .66 mi. Direction: NE Vista ID: 1984521 | |
| 9-792358 | | Number of Underground Tanks: 3 Contents: DIESEL, USED OIL, | | | |
| 25 | | A-1 TIRE SERVICE 2030 AIRWAYS BLVD | MEMPHIS 38114 | Distance: .67 mi. Direction: NE Vista ID: 3125641 | |
| 9-790008 | | Number of Underground Tanks: 5 Contents: GASOLINE (UNSPECIFIED), | | | |
| 27 | | JONES LUMBER & HARDWARE CO INC 1755 AIRWAYS BLVD PO BOX 14270 | MEMPHIS 38114 | Distance: .93 mi. Direction: NE Vista ID: 1984520 | |
| 9-790441 | | Number of Underground Tanks: 1 Contents: GASOLINE (UNSPECIFIED), | | | |
| 28 | | BUCKEYE CELLULOSE MEMPHIS SOUTH 2227 DEADRICK AVE | MEMPHIS 38114 | Distance: 1.30 mi. Direction: NE Vista ID: 3334042 | |
| 9-790112 | | Number of Underground Tanks: 1 Contents: GASOLINE (UNSPECIFIED), | | | |
| 29 | | FIRE STATION #16 2203 LAMAR AVE | MEMPHIS 38114 | Distance: 1.54 mi. Direction: NE Vista ID: 1990010 | |
| 9-792321 | | Number of Underground Tanks: 2 Contents: DIESEL, GASOLINE (UNSPECIFIED), | | | |
| 29 | | GOODYEAR ASC 2259 PARK | MEMPHIS 38114 | Distance: 1.55 mi. Direction: NE Vista ID: 2621529 | |
| 9-791352 | | Number of Underground Tanks: 1 Contents: USED OIL, | | | |

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| 29 | TOM BELL CHEVROLET COMPANY 2200 LAMAR AVENUE | MEMPHIS 38114 | Distance: 1.56 mi. Direction: NE Vista ID: 3334170 |
| 9-790712 | Number of Underground Tanks: 1 Contents: GASOLINE (UNSPECIFIED), | | |
| 30 | CATFISH CABIN 2846 AIRWAYS | MEMPHIS 38132 | Distance: 1.55 mi. Direction: SE Vista ID: 1984526 |
| 9-792304 | Number of Underground Tanks: 1 Contents: GASOLINE (UNSPECIFIED), | | |
| 31 | MORGAN & TURNER INC 2176 FILMORE | MEMPHIS 38114 | Distance: .63 mi. Direction: NE Vista ID: 1987737 |
| 9-791052 | Number of Underground Tanks: 1 Contents: GASOLINE (UNSPECIFIED), | | |
| 31 | BAKER ELECTRIC CO INC 2191 FILMORE AVE | MEMPHIS 38114 | Distance: .64 mi. Direction: NE Vista ID: 1987738 |
| 9-790066 | Number of Underground Tanks: 1 Contents: GASOLINE (UNSPECIFIED), | | |
| 31 | RUSSELL & BUSBY PAINTING CO INC 2213 FILMORE ST | MEMPHIS 38114 | Distance: .67 mi. Direction: NE Vista ID: 1987739 |
| 9-790581 | Number of Underground Tanks: 2 Contents: PAINT/PAINT THINNER, | | |
| 31 | CHOCTAW CONSTRUCTION CO INC 2193 FREEMONT RD | MEMPHIS 38114 | Distance: .61 mi. Direction: NE Vista ID: 1987826 |
| 9-790168 | Number of Underground Tanks: 3 Contents: GASOLINE (UNSPECIFIED), DIESEL, | | |

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| 31 | | LEATH PAINTING CO 2203 FREMONT | MEMPHIS 38114 | Distance: .62 mi. Direction: NE Vista ID: 1987827 |
| 9-790918 | Number of Underground Tanks: 1 | | | |
| 31 | | KERMIT B BUCK & SON INC 2204 FREEMONT AVE | MEMPHIS 38114 | Distance: .62 mi. Direction: NE Vista ID: 1987828 |
| 9-790457 | Number of Underground Tanks: 1 Contents: GASOLINE (UNSPECIFIED), | | | |
| 31 | | ALLSTATE ELECTRIC CO INC 2227 FREEMONT ROAD | MEMPHIS 38114 | Distance: .65 mi. Direction: NE Vista ID: 1987829 |
| 9-792135 | Number of Underground Tanks: 1 Contents: GASOLINE (UNSPECIFIED), | | | |
| 31 | | CLENDENIN HTG & A/C CO INC 2257 FREEMONT | MEMPHIS 38114 | Distance: .67 mi. Direction: NE Vista ID: 3126271 |
| 9-790183 | Number of Underground Tanks: 1 Contents: GASOLINE (UNSPECIFIED), | | | |
| 31 | | ABANDONED SITE 2160 FREEMONT AVE | MEMPHIS 38114 | Distance: .58 mi. Direction: NE Vista ID: 5010603 |
| 9-792528 | Number of Underground Tanks: 1 Contents: USED OIL, | | | |
| 32 | | AUTORAMA INC 2950 AIRWAYS BLVD | MEMPHIS 38116 | Distance: 1.66 mi. Direction: SE Vista ID: 1984529 |
| 9-790060 | Number of Underground Tanks: 2 Contents: OIL (NOT SPECIFIED), USED OIL, | | | |

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| 33 | DELTA 3017 2921 AIRWAYS BLVD | MEMPHIS 38132 | Distance: 1.62 mi. Direction: SE Vista ID: 1984528 |
| 9-791233 | Number of Underground Tanks: 3 Contents: GASOLINE (UNSPECIFIED), | | |
| 33 | JEFFERSON PILOT DATA SERVS, INC 2862 DIRECTORS COVE | MEMPHIS 38131 | Distance: 1.52 mi. Direction: SE Vista ID: 1987071 |
| 9-792315 | Number of Underground Tanks: 1 Contents: DIESEL, | | |
| 35 | THRIFTY CAR RENTAL, MS KEEK 2230 E BROOKS RD | MEMPHIS 38132 | Distance: 1.97 mi. Direction: SE Vista ID: 1985269 |
| 9-790566 | Number of Underground Tanks: 1 Contents: GASOLINE (UNSPECIFIED), | | |
| 36 | CARRIER CONCRETE 2141 E PERSON ST | MEMPHIS 38114 | Distance: .92 mi. Direction: NE Vista ID: 1993220 |
| 9-790143 | Number of Underground Tanks: 5 Contents: DIESEL, GASOLINE (UNSPECIFIED), | | |
| 36 | FERRELL PAVING INC 2174 E PERSON | MEMPHIS 38114 | Distance: .96 mi. Direction: NE Vista ID: 1993221 |
| 9-792054 | Number of Underground Tanks: 2 Contents: GASOLINE (UNSPECIFIED), Number of Underground Tanks: 3 Contents: DIESEL, | | |

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| 37 | ROBINSON TEXACO 2133 LANAR AVE | MEMPHIS 38114 | Distance: 1.61 mi. Direction: NE Vista ID: 1990008 |
| 9-791934 | Number of Underground Tanks: 3 Contents: GASOLINE (UNSPECIFIED), | | |
| 37 | AMOCO STATION #329 2134 LANAR AVENUE | MEMPHIS 38114 | Distance: 1.61 mi. Direction: NE Vista ID: 1990009 |
| 9-791087 | Number of Underground Tanks: 3 Contents: GASOLINE (UNSPECIFIED), | | |
| 38 | KELLOGG COMPANY 2168 FRISCO | MEMPHIS 38114 | Distance: .67 mi. Direction: NE Vista ID: 225584 |
| 9-790454 | Number of Underground Tanks: 1 Contents: FUEL OIL, | | |
| 39 | NATIONAL ECONOMY PLUMBERS 2114 SOUTHERN | MEMPHIS 38114 | Distance: 2.00 mi. Direction: NE Vista ID: 1997734 |
| 9-790464 | Number of Underground Tanks: 1 Contents: GASOLINE (UNSPECIFIED), | | |
| 41 | FOSTER'S LANDSCAPING CO 1731 CASTALIA | MEMPHIS 38114 | Distance: .72 mi. Direction: NE Vista ID: 1986744 |
| 9-790333 | Number of Underground Tanks: 2 Contents: DIESEL, GASOLINE (UNSPECIFIED), | | |
| 42 | CLAYBORNE TAYLOR 1701 CASTALIA-A | MEMPHIS 38114 | Distance: .80 mi. Direction: NE Vista ID: 1986743 |
| 9-790181 | Number of Underground Tanks: 4 Contents: GASOLINE (UNSPECIFIED), | | |

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| 42 | LIGHTS/ONLY 36L MEMPHIS AIRPORT SHELBY RD @ MEMPHIS AIRPORT | MEMPHIS 38116 | Distance: .84 mi. Direction: NE Vista ID: 1997189 |
| 0-791845 | Number of Underground Tanks: 2 Contents:DIESEL, | | |
| 43 | MID SOUTH COMPRESS 1824 CASTALIA | MEMPHIS 38114 | Distance: .58 mi. Direction: NE Vista ID: 1986745 |
| 9-792352 | Number of Underground Tanks: 1 Contents:GASOLINE (UNSPECIFIED), | | |
| 45 | NONCONWAY CORPORATE CENTER 2005 CORPORATE AVE | MEMPHIS 38132 | Distance: .94 mi. Direction: SE Vista ID: 1986648 |
| 9-792295 | Number of Underground Tanks: 1 Contents:DIESEL, | | |
| 46 | GENERAL TRUCK SALES & SVC INC 1973 E BROOKS RD | MEMPHIS 38116 | Distance: 1.89 mi. Direction: S Vista ID: 169251 |
| 9-790356 | Number of Underground Tanks: 2 Contents:WASTE WATER,USED OIL, Number of Underground Tanks: 2 Contents:USED OIL,WASTE WATER, | | |
| 46 | AMERICAN INTERNATIONAL 1917 BROOKS RD | MEMPHIS 38116 | Distance: 1.89 mi. Direction: S Vista ID: 1985265 |
| 9-790031 | Number of Underground Tanks: 1 Contents:GASOLINE (UNSPECIFIED), | | |

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| 46 | DOLLAR NASHVILLE INC 2031 E BROOKS RD | MEMPHIS 38116 | Distance: 1.90 mi. Direction: S Vista ID: 1985268 |
| 9-792136 | Number of Underground Tanks: 1 Contents: GASOLINE (UNSPECIFIED), | | |
| 46 | M A RIVALTO 1980 E. BROOKS ROAD | MEMPHIS 38116 | Distance: 1.88 mi. Direction: S Vista ID: 5010393 |
| 9-790443 | Number of Underground Tanks: 7 Contents: DIESEL, GASOLINE (UNSPECIFIED), OIL (NOT SPECIFIED), USED OIL, | | |
| 47 | M S CARRIERS INC 3150 STARNES COVE | MEMPHIS 38116 | Distance: 1.78 mi. Direction: S Vista ID: 286243 |
| 9-791060 | Number of Underground Tanks: 4 Contents: DIESEL, OIL (NOT SPECIFIED), USED OIL, | | |
| 49 | LEND LEASE TRUCK RENTAL 1850 E BROOKS RD | MEMPHIS 38116 | Distance: 1.89 mi. Direction: S Vista ID: 242577 |
| 9-790921 | Number of Underground Tanks: 7 Contents: DIESEL, OIL (NOT SPECIFIED), USED OIL, | | |
| 49 | OVERNITE TRANSPORTATION (MEMPHIS) 1803 BROOKS ROAD E | MEMPHIS 38116 | Distance: 1.90 mi. Direction: S Vista ID: 1985261 |
| 9-790477 | Number of Underground Tanks: 3 Contents: DIESEL, | | |
| 49 | DELTA 3053 1814 E BROOKS RD | MEMPHIS 38116 | Distance: 1.90 mi. Direction: S Vista ID: 1985262 |
| 9-791243 | Number of Underground Tanks: 3 Contents: GASOLINE (UNSPECIFIED), | | |

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| 49 | PADDOCK POOLS OF MEMPHIS 1826 BROOKS RD | MEMPHIS 38116 | Distance: 1.89 mi. Direction: S Vista ID: 1985263 |
| 9-791459 | Number of Underground Tanks: 1 Contents: GASOLINE (UNSPECIFIED); | | |
| 49 | VACANT LOT 1886 BROOKS ROAD | MEMPHIS 38116 | Distance: 1.89 mi. Direction: S Vista ID: 1985264 |
| 9-792215 | Number of Underground Tanks: 1 Contents: DIESEL; | | |
| 50 | FORMERLY CASE POWER EQUIPMENT CO 3101 CARRIER | MEMPHIS 38116 | Distance: 1.80 mi. Direction: S Vista ID: 72790 |
| 9-792494 | Number of Underground Tanks: 1 Contents: GASOLINE (UNSPECIFIED); | | |
| 50 | UNITED PARCEL SERVICE 2971 CARRIER ST | MEMPHIS 38116 | Distance: 1.71 mi. Direction: S Vista ID: 442124 |
| 9-790791 | Number of Underground Tanks: 8 Contents: DIESEL, GASOLINE (UNSPECIFIED), OIL (NOT SPECIFIED), USED OIL; | | |
| 50 | RAPID CARTAGE 3126 CARRIER STREET | MEMPHIS 38116 | Distance: 1.81 mi. Direction: S Vista ID: 537404 |
| 9-792490 | Number of Underground Tanks: 2 Contents: DIESEL; | | |
| 50 | CON-WAY SOUTHWEST EXPRESS 3050 CARRIER ST | MEMPHIS 38116 | Distance: 1.77 mi. Direction: S Vista ID: 1986559 |
| 9-790205 | Number of Underground Tanks: 9 Contents: DIESEL, OIL (NOT SPECIFIED); | | |

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| <div data-bbox="736 436 986 464" data-label="Text">WITHIN 1/2 TO 2 MILES</div> | | |
| 50 | CONTRACT FREIGHTERS INC 3086 CARRIER ST | MEMPHIS 38116 |
| 9-790046 | Number of Underground Tanks: 4- Contents:DIESEL, | |
| ----- | | |
| 50 | J P WERNER S/M CONTRACTORS 3113 CARRIER | MEMPHIS 38116 |
| 9-790840 | Number of Underground Tanks: 1 Contents:GASOLINE (UNSPECIFIED), | |
| ----- | | |
| 52 | AUTO ZONE 1516 ROZELLE | MEMPHIS 38106 |
| 9-792507 | Number of Underground Tanks: 4 Contents:DIESEL, | |
| ----- | | |
| 53 | AUTO ZONE 1471 ROZELLE | MEMPHIS 38106 |
| 9-792508 | Number of Underground Tanks: 1 Contents:DIESEL, | |
| ----- | | |
| 54 | WEBSTER SAFE & LOCK CO INC 3020 MILLBRANCH RD | MEMPHIS 38116 |
| 9-792247 | Number of Underground Tanks: 1 Contents:GASOLINE (UNSPECIFIED), | |
| ----- | | |
| 54 | FLEET SERVICE CO (INDIVIDUAL) 1770 TRNASPORT ST | MEMPHIS 38116 |
| 9-790324 | Number of Underground Tanks: 1 | |

Distance: 1.79 mi.
Direction: S
Vista ID: 1986560

Distance: 1.81 mi.
Direction: S
Vista ID: 1986561

Distance: 1.17 mi.
Direction: NW
Vista ID: 4108952

Distance: 1.27 mi.
Direction: NW
Vista ID: 4108951

Distance: 1.70 mi.
Direction: SW
Vista ID: 1990692

Distance: 1.65 mi.
Direction: SW
Vista ID: 1998252

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| 54 | ARROW OFFICE BUILDING 3050 MILLBRANCH | MEMPHIS 38116 | Distance: 1.70 mi. Direction: SW Vista ID: 3126785 |
| 9-790051 | Number of Underground Tanks: 2 Contents: GASOLINE (UNSPECIFIED), DIESEL, | | |
| 55 | AIRPORT TOYOTA 1710 E BROOKS RD | MEMPHIS 38116 | Distance: 1.92 mi. Direction: SW Vista ID: 9431 |
| 9-790713 | Number of Underground Tanks: 2 Contents: DIESEL, USED OIL, | | |
| 55 | AIRPORT TOYOTA OF MEMPHIS, INC. 1653 E. BROOKS ROAD | MEMPHIS 38116 | Distance: 1.95 mi. Direction: SW Vista ID: 61565 |
| 9-790019 | Number of Underground Tanks: 1 | | |
| 55 | CUMMINS MID-SOUTH INC 1784 E BROOKS RD | MEMPHIS 38116 | Distance: 1.90 mi. Direction: SW Vista ID: 109172 |
| 9-790231 | Number of Underground Tanks: 6 Contents: OIL (NOT SPECIFIED), DIESEL, USED OIL, | | |
| 55 | MID AMERICA INTN'L TRUCKS 1750 E BROOKS RD | MEMPHIS 38116 | Distance: 1.91 mi. Direction: SW Vista ID: 271941 |
| 9-791022 | Number of Underground Tanks: 2 Contents: DIESEL, USED OIL, | | |
| 55 | BARTON TRUCK CENTER, INC. 1650 E BROOKS RD | MEMPHIS 38116 | Distance: 1.95 mi. Direction: SW Vista ID: 1985258 |
| 9-791032 | Number of Underground Tanks: 4 Contents: DIESEL, USED OIL, OIL (NOT SPECIFIED), OTHER VEHICLE FUELS, OILS, FLUID, | | |

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| 55 | AMOCO STATION #955 1709 BROOKS RD | MEMPHIS 38116 | Distance: 1.92 mi. Direction: SW Vista ID: 1985259 |
| 9-791074 | Number of Underground Tanks: 6 Contents: GASOLINE (UNSPECIFIED), | | |
| 55 | EXXON RETAIL STORE #5-1405 3201 HILLBRANCH/BROOKS | MEMPHIS 38116 | Distance: 1.89 mi. Direction: SW Vista ID: 1990700 |
| 9-791268 | Number of Underground Tanks: 4 Contents: GASOLINE (UNSPECIFIED), | | |
| 56 | HUMBOLDT EXPRESS INC 1620 DUNN | MEMPHIS 38106 | Distance: .59 mi. Direction: NW Vista ID: 1986982 |
| 9-790409 | Number of Underground Tanks: 3 Contents: DIESEL, GASOLINE (UNSPECIFIED), USED OIL, | | |
| 57 | LEWELLYN FABRICATION CO INC 3109 FONTAINE ST | MEMPHIS 38116 | Distance: 1.82 mi. Direction: SW Vista ID: 243434 |
| 9-790924 | Number of Underground Tanks: 2 Contents: GASOLINE (UNSPECIFIED), | | |
| 57 | MAGNOLIA TRUCK LINES INC 3097 FONTAINE | MEMPHIS 38116 | Distance: 1.80 mi. Direction: SW Vista ID: 3126260 |
| 9-792451 | Number of Underground Tanks: 1 Contents: GASOLINE (UNSPECIFIED), | | |
| 59 | DELTA EXPRESS #3166 1559 WILLET | MEMPHIS 38113 | Distance: 1.32 mi. Direction: NW Vista ID: 1999137 |
| 9-791968 | Number of Underground Tanks: 3 Contents: GASOLINE (UNSPECIFIED), | | |

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| 60 | SCIPED JONES 1571 PERSON AVENUE | MEMPHIS 38106 | Distance: 1.05 mi. Direction: NW Vista ID: 1993219 |
| 9-790604 | Number of Underground Tanks: 2 Contents: GASOLINE (UNSPECIFIED), | | |
| 62 | BARTON EQUIPMENT CO., INC 1505 CORPORATE AVE | MEMPHIS 38132 | Distance: 1.35 mi. Direction: SW Vista ID: 38743 |
| 9-791849 | Number of Underground Tanks: 2 Contents: DIESEL, USED OIL, | | |
| 62 | NAEGELE OUTDOOR ADVERTISING CO 1451 CORPORATE DR | MEMPHIS 38132 | Distance: 1.42 mi. Direction: SW Vista ID: 289086 |
| 9-790461 | Number of Underground Tanks: 3 Contents: GASOLINE (UNSPECIFIED), | | |
| 63 | DELTA DETROIT DIESEL ALLISON INC 3070 SANDBROOK | MEMPHIS 38116 | Distance: 1.92 mi. Direction: SW Vista ID: 117975 |
| 9-790252 | Number of Underground Tanks: 1 Contents: USED OIL, | | |
| 63 | GELCO TRUCK LEASING 3079 COUGHLIN DRIVE | MEMPHIS 38116 | Distance: 1.92 mi. Direction: SW Vista ID: 1985560 |
| 9-790353 | Number of Underground Tanks: 5 Contents: DIESEL, OIL (NOT SPECIFIED), USED OIL, ANTIFREEZE/COOLANT, | | |
| 63 | MIDWAY MOTOR FREIGHT LINES INC 3013 SANDBROOK | MEMPHIS 38116 | Distance: 1.86 mi. Direction: SW Vista ID: 1997459 |
| 9-791036 | Number of Underground Tanks: 1 Contents: DIESEL, | | |

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| 63 | | FORMER- TENN CARTAGE CO 1420 STONEBROOK DRIVE | MEMPHIS 38116 | Distance: 1.87 mi. Direction: SW Vista ID: 1997811 |
| 9-790694 | | Number of Underground Tanks: 1 Contents:DIESEL, | | |
| 64 | | BULK MAIL CENTER AUXILIARY VMF 1921 ELVIS PRESLEY BLVD | MEMPHIS 38136 | Distance: 1.11 mi. Direction: NW Vista ID: 1987463 |
| 0-790801 | | Number of Underground Tanks: 3 Contents:DIESEL,GASOLINE (UNSPECIFIED),USED OIL, Number of Underground Tanks: 2 Contents:DIESEL, | | |
| 65 | | FOREST HILL CEMETERY 1661 ELVIS PRESLEY BLVD | MEMPHIS 38106 | Distance: 1.43 mi. Direction: NW Vista ID: 1987461 |
| 9-792138 | | Number of Underground Tanks: 3 Contents:GASOLINE (UNSPECIFIED), | | |
| 65 | | HAMILTON HIGH SCHOOL 1363 PERSON AVE | MEMPHIS 38106 | Distance: 1.34 mi. Direction: NW Vista ID: 1993218 |
| 9-790384 | | Number of Underground Tanks: 4 Contents:DIESEL,USED OIL, | | |
| 65 | | CALVARY CEMETARY 1663 ELVIS PRESLEY | MEMPHIS 38106 | Distance: 1.44 mi. Direction: NW Vista ID: 3334058 |
| 9-792435 | | Number of Underground Tanks: 1 Contents:DIESEL, | | |

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| 66 | | OVERHEAD DOOR CO 2080 ELVIS PRESLEY BLVD | 1.07 mi. |
| | | MEMPHIS 38106 | Direction: W |
| | | | Vista ID: 1987465 |
| 9-790476 | | Number of Underground Tanks: 1 Contents: GASOLINE (UNSPECIFIED), | |
| 66 | | BELLEVUE RALLY SERVICE STA 2100 ELVIS PRESLEY | 1.07 mi. |
| | | MEMPHIS 38106 | Direction: W |
| | | | Vista ID: 1987466 |
| 9-790078 | | Number of Underground Tanks: 5 Contents: GASOLINE (UNSPECIFIED), DIESEL, | |
| 67 | | UNITED ROAD MACHINERY CO 2010 ELVIS PRESLEY BLVD | 1.08 mi. |
| | | MEMPHIS 38106 | Direction: W |
| | | | Vista ID: 1987464 |
| 9-790792 | | Number of Underground Tanks: 3 Contents: DIESEL, | |
| 68 | | FIRE DEPT #29 2147 ELVIS PRESLEY | 1.08 mi. |
| | | MEMPHIS 38106 | Direction: W |
| | | | Vista ID: 1987467 |
| 9-791141 | | Number of Underground Tanks: 1 Contents: DIESEL, | |
| 69 | | H F GLENN JR 2193 ELVIS PRESLEY | 1.09 mi. |
| | | MEMPHIS 38106 | Direction: SW |
| | | | Vista ID: 1987468 |
| 9-790379 | | Number of Underground Tanks: 5 Contents: GASOLINE (UNSPECIFIED), USED OIL, | |
| 69 | | J & R AUTO SALES 2221 ELVIS PRESLEY | 1.10 mi. |
| | | MEMPHIS 38106 | Direction: SW |
| | | | Vista ID: 1987469 |
| 9-792364 | | Number of Underground Tanks: 4 Contents: GASOLINE (UNSPECIFIED), | |

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UST's

| MAP REF # | EPA ID / AGENCY ID | SITE NAME AND ADDRESS | | |
|-----------------------|-----------------------|--|------------------|--|
| WITHIN 1/2 TO 2 MILES | | | | |
| 70 | | AMOCO STATION #691 2260 ELVIS PRESLEY BLVD | MEMPHIS 38106 | Distance: 1.12 mi. Direction: SW Vista ID: 1987470 |
| 9-791082 | | Number of Underground Tanks: 3 Contents: GASOLINE (UNSPECIFIED), | | |
| 70 | | U-HAUL CO OF MEMPHIS 2280 ELVIS PRESLEY BLVD | MEMPHIS 38106 | Distance: 1.14 mi. Direction: SW Vista ID: 1987471 |
| 9-790741 | | Number of Underground Tanks: 3 Contents: GASOLINE (UNSPECIFIED), | | |
| 71 | | ATOMIC PEST CONTROL CO INC 2371 ELVIS PRESLEY BLVD | MEMPHIS 38106 | Distance: 1.24 mi. Direction: SW Vista ID: 1987472 |
| 9-790054 | | Number of Underground Tanks: 1 Contents: GASOLINE (UNSPECIFIED), | | |
| 72 | | DELTA EXPRESS #3165 2454 ELVIS PRESLEY | MEMPHIS 38106 | Distance: 1.32 mi. Direction: SW Vista ID: 1987473 |
| 9-791969 | | Number of Underground Tanks: 3 Contents: GASOLINE (UNSPECIFIED), | | |
| 73 | | THOMPSON MACHINERY COMMERCE CORP 1291 CORPORATE AVE | MEMPHIS 38132 | Distance: 1.67 mi. Direction: SW Vista ID: 1986644 |
| 9-790687 | | Number of Underground Tanks: 9 Contents: OIL (NOT SPECIFIED), USED OIL, GASOLINE (UNSPECIFIED), DIESEL, | | |
| 74 | | LAWSON C STORE 2497 ELVIS PRESLEY BLVD | MEMPHIS 38106 | Distance: 1.38 mi. Direction: SW Vista ID: 3334059 |
| 9-790701 | | Number of Underground Tanks: 3 Contents: GASOLINE (UNSPECIFIED), | | |

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UST's

MAP EPA ID /
REF # AGENCY ID SITE NAME AND ADDRESS

WITHIN 1/2 TO 2 MILES

| | | | |
|----------|---|------------------|--|
| 75 | MINI MAX 7-11 # 6 2584 ELVIS PRESLEY BLVD | MEMPHIS 38106 | Distance: 1.49 mi. Direction: SW Vista ID: 3126209 |
| 9-791434 | Number of Underground Tanks: 4 Contents: GASOLINE (UNSPECIFIED), | | |
| 76 | H L BONHAY 1459 S BELLEVUE | MEMPHIS 38106 | Distance: 1.75 mi. Direction: NW Vista ID: 3125713 |
| 9-790768 | Number of Underground Tanks: 3 | | |
| 76 | VACANT CAR LOT 1498 ELVIS PRESLEY BLVD | MEMPHIS 38106 | Distance: 1.70 mi. Direction: NW Vista ID: 5344876 |
| 9-792534 | Number of Underground Tanks: 2 Contents: GASOLINE (UNSPECIFIED), | | |
| 77 | DELTA 7445 1384 ELVIS PRESLEY BLVD | MEMPHIS 38106 | Distance: 1.97 mi. Direction: NW Vista ID: 1987460 |
| 9-791248 | Number of Underground Tanks: 3 Contents: GASOLINE (UNSPECIFIED), | | |
| 77 | RAYMOND AND DIXIE WILSON 1243 SO PKWY E | MEMPHIS 38106 | Distance: 1.91 mi. Direction: NW Vista ID: 1997079 |
| 9-790561 | Number of Underground Tanks: 5 Contents: GASOLINE (UNSPECIFIED), | | |
| 78 | TENN DOT 2678 HERNANDO RD | MEMPHIS 38106 | Distance: 1.70 mi. Direction: SW Vista ID: 1988974 |
| 0-790696 | Number of Underground Tanks: 3 Contents: GASOLINE (UNSPECIFIED), DIESEL, | | |

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UST#6

MAP EPA ID /
REF # AGENCY ID SITE NAME AND ADDRESS

=====

WITHIN 1/2 TO 2 MILES

| | | | |
|----------|--|------------------|--|
| 79 | WITHERS-WELLFORD DIST INC 2100 HERNANDO RD | MEMPHIS 38106 | Distance: 1.44 mi. Direction: W Vista ID: 528923 |
| 9-790867 | Number of Underground Tanks: 4 Contents:DIESEL,GASOLINE (UNSPECIFIED), | | |
| ----- | | | |
| 79 | CROSS STREET SERVICE CENTER 1172 EAST MCKELLAR | MEMPHIS 38106 | Distance: 1.38 mi. Direction: W Vista ID: 5010827 |
| 9-792216 | Number of Underground Tanks: 3 Contents:DIESEL,GASOLINE (UNSPECIFIED),USED OIL, | | |
| ----- | | | |
| 80 | NORRIS RD 66 2432 HERNANDO RD | MEMPHIS 38106 | Distance: 1.58 mi. Direction: SW Vista ID: 1988973 |
| 9-791510 | Number of Underground Tanks: 4 Contents:GASOLINE (UNSPECIFIED),USED OIL, | | |
| ----- | | | |
| 81 | AMERICAN RESOURCE RECOVERY CORP 901 E BODLEY | MEMPHIS 38106 | Distance: 1.94 mi. Direction: W Vista ID: 20009 |
| 9-790035 | Number of Underground Tanks: 1 Contents:D001, | | |
| ----- | | | |

CUSTOMER USE LIMITATIONS - Customer proceeds at its own risk in choosing to rely upon VISTA services, in whole or part, prior to proceeding with any transaction. VISTA assumes no responsibility for the accuracy of government records, for errors occurring in conversion of data, or for customer's use of VISTA services. VISTA's obligation regarding data is solely limited to providing portions of data existing in government records as of the date of each government update received by VISTA.

VISTA NATIONAL RADIUS PROFILE

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UNMAPPABLE SITES

Unmappable sites are environmental risk sites that cannot be geocoded, but can be located by zip code or city name.

In general, a site cannot be geocoded because of inaccurate or missing locational information in the record provided by the agency. For many of these records, VISTA has corrected or added locational information by using U.S. Postal address validation files and proprietary programming that adds locational information from private industry address files. However, many site addresses cannot be corrected using these techniques and those sites cannot be mapped.

Of the sites that cannot be mapped, VISTA identifies those that have complete zip code or city name information. All ungeocoded sites that have a ZIP code in the radius are considered for inclusion. Ungeocoded sites that do not have a ZIP code but do have a street name are considered for inclusion if they have a city in the radius. An ungeocoded record may be excluded if it can be determined to be outside the relevant radius searched for a particular database.

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UNMAPPABLE SITES

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CERCLIS

SITE NAME AND ADDRESS

VISTA ID

EPA ID /
AGENCY ID

FARRISVIEW DUMP: FARRISVIEW RD 1/2 MI E I 240, MEMPHIS 38118

149086

Status : NOT ON NPL
 Site Ownership : OTHER
 Site Events :
 Event Type : SCREENING SITE INSPECTION
 Lead Agency : EPA FUND FINANCED
 Event Type : PRELIMINARY ASSESSMENT
 Lead Agency : STATE
 Event Type : DISCOVERY
 Lead Agency : EPA FUND FINANCED

TND980838643

NEL-6: OFF CHELSEA, MEMPHIS 38116

292844

Status : NOT ON NPL
 Site Ownership : OTHER
 Site Events :
 Event Type : SCREENING SITE INSPECTION
 Lead Agency : STATE
 Event Type : SCREENING SITE INSPECTION
 Lead Agency : EPA FUND FINANCED
 Event Type : PRELIMINARY ASSESSMENT
 Lead Agency : STATE
 Event Type : DISCOVERY
 Lead Agency : STATE

TND987766367

SES-5: FARRISVIEW BLVD, MEMPHIS 38118

374641

Status : NOT ON NPL
 Site Ownership : OTHER
 Site Events :
 Event Type : SCREENING SITE INSPECTION
 Lead Agency : EPA FUND FINANCED
 Event Type : PRELIMINARY ASSESSMENT
 Lead Agency : STATE
 Event Type : DISCOVERY
 Lead Agency : EPA FUND FINANCED

TND980728224

VISTA NATIONAL RADIUS PROFILE

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UNMAPPABLE SITES

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RCRA-5aGen

SITE NAME AND ADDRESS

EPA ID /
VISTA ID AGENCY ID

EZON INC: 4401 ATLANTIC WAY, MEMPHIS 38118

4941384

Generator Class :Generators who generate 100 kg./month but less than 1000 kg./month of
non-acutely hazardous waste

TND987790805

PARK PLACE CLEANERS, INC: SAME, MEMPHIS 37000

4942101

Generator Class :Generators who generate 100 kg./month but less than 1000 kg./month of
non-acutely hazardous waste

TND148246515

VISTA NATIONAL RADIUS PROFILE

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UNMAPPABLE SITES

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SPL

SITE NAME AND ADDRESS

EPA ID /
VISTA ID AGENCY ID

BELLEVUE AVE LANDFILL:

3672114

NPL Status :

79-517

Waste # 0 :

Waste # 1 :

Waste # 2 :

CHICKASAW ORIDINANCE WORKS:

3672116

NPL Status :

79-549

Waste # 0 :

Waste # 1 :

Waste # 2 :

CROMASCO:

3672119

NPL Status :

79-522

Waste # 0 :

Waste # 1 :

Waste # 2 :

INTERNATIONAL HARVESTER:

3672130

NPL Status :

79-525

Waste # 0 :

Waste # 1 :

Waste # 2 :

W.R. GRACE CO.:

3672170

NPL Status :

79-536

Waste # 0 :

Waste # 1 :

Waste # 2 :

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SPL

SITE NAME AND ADDRESS

VISTA ID

EPA ID /
AGENCY ID

CREOTOX CHEMICAL PRODUCTS CO:

5197199

NPL Status

79-800

Waste # 0 :

Waste # 1 :

Waste # 2 :

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UNMAPPABLE SITES

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SWLF

SITE NAME AND ADDRESS

EPA ID /
VISTA ID AGENCY ID

BFI NORTH SHELBY LANDFILL: , 00000

3556024

Facility Type : SANITARY LANDFILL/LANDFILL

BFI NORTH SHELBY LANDFILL: ,

3556024

Facility Type : SANITARY LANDFILL/LANDFILL

Owner Name : BFI INC.

SNL 79-106-0

Owner Address :

BFI SOUTH SHELBY LANDFILL: , 00000

3556028

Facility Type : SANITARY LANDFILL/LANDFILL

BFI SOUTH SHELBY LANDFILL: ,

3556028

Facility Type : SANITARY LANDFILL/LANDFILL

Owner Name : BFI INC.

SNL 79-106-0

Owner Address :

BROOKS ROAD TRANSFER STA.: ,

3556041

Facility Type : TRANSFER STATION

SWP 79-106-1

DEMOCRAT RD. TRANSFER STA.: ,

3556077

Facility Type : TRANSFER STATION

SWP 79-106-1

WASTE MANAGEMENT OF TENN.: ,

3556285

Facility Type : TRANSFER STATION

SWP 79-106-1

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UNMAPPABLE SITES

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SWLF

SITE NAME AND ADDRESS

VISTA ID

EPA ID /
AGENCY ID

BFI RECYCLING:

5180950

Facility Type : RESOURCE RECOVERY (RECYCLING)

SWP 79-106-1

BFI SYKES RD. (PATTERSON):

5180951

Facility Status : INACTIVE

SWL 79-106-0

Owner Name : PATTERSON WASTE CNTL

Owner Address :

BELLVUE TRANSFER STATION:

5180957

Facility Type : TRANSFER STATION

SWP 79-106-0

BELLEVUE TIRE SHREDDER:

5180958

Facility Type : TIRE PROCESSING OR STORAGE

SWP 79-106-1

BLAYLOCK & BROWN CONST.:

5180959

Facility Type : INCINERATOR

SWP 79-106-1

COLD SPRINGS MEMPHIS:

5180981

SWP 79-106-1

ENSLEY BERM ASH LANDFILL:

5181021

Facility Status : INACTIVE

IDL 79-106-0

Owner Name : MEMPHIS PORT AU

Owner Address :

VISTA NATIONAL RADIUS PROFILE

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UNMAPPABLE SITES

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SWLF

SITE NAME AND ADDRESS

EPA ID /
VISTA ID AGENCY ID

EARTH COMPLEX: 00000

5181024

Facility Type : SANITARY LANDFILL/LANDFILL

EARTH COMPLEX:

5181024

Facility Type : SANITARY LANDFILL/LANDFILL

SNL 79-106-0

Owner Name : BENNY O. LENDERMON

Owner Address :

EXTRUSION TECHNOLOGIES:

5181025

Facility Type : RESOURCE RECOVERY (RECYCLING)

SWP 79-106-1

FIRST MOOREHEAD INVESTMT.:

5181031

Facility Status : INACTIVE

IDL 79-106-0

Owner Name : WILLIAM THOMPSON

Owner Address :

JAMES HOWELL DEMO LANDFILL:

5181056

Facility Status : INACTIVE

DNL 79-106-0

Owner Name : JAMES HOWELL

Owner Address :

MEMPHIS CITY LANDFILL:

5181124

Facility Status : INACTIVE

SNL 79-106-0

Owner Name : CITY OF MEMPHIS

Owner Address :

VISTA NATIONAL RADIUS PROFILE

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UNMAPRABLE SITES

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SMF

| SITE NAME AND ADDRESS | VISTA ID | EPA ID / AGENCY ID |
|-------------------------------------|----------|-----------------------|
| WOOD PROCESSING INC.: | 5181223 | |
| Facility Type : INCINERATOR | | SWP 79-106-1 |
| FULLENDOCK WAREHOUSE LNDF: | 5187317 | |
| Facility Type : INDUSTRIAL | | IDL 79-106-0 |
| Owner Name : FULLENDOCK CO. | | |
| Owner Address : | | |
| MAPCO PETROLEUM LANDFILL: | 5187325 | |
| Facility Type : INDUSTRIAL | | IDL 79-106-0 |
| Owner Name : MAPCO CORP. | | |
| Owner Address : | | |
| SHELBY COUNTY BIOREMEDIAT: | 5404136 | |
| | | SWP 79-106-1 |
| BFI OF TN MULCHING: | 5515390 | |
| Facility Type : COMPOSTING FACILITY | | SWP 79-106-1 |
| EARTH COMPLEX/CITY OF MEM: | 5515407 | |
| Facility Type : COMPOSTING FACILITY | | SWP 79-106-1 |
| HEALTH MANAGEMENT INC.: | 5515415 | |
| Facility Type : INCINERATOR | | SWP 79-106-0 |

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UNMAPPABLE SITES

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SWLF

SITE NAME AND ADDRESS

VISTA ID

EPA ID /
AGENCY ID

INSERVO CORPORATION:

5515422

Facility Type

: TRANSFER STATION

SWP 79-106-1

VISTA NATIONAL RADIUS PROFILE

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UNMAPPABLE SITES

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UST's

SITE NAME AND ADDRESS

VISTA ID

EPA ID /
AGENCY ID

AIR ROUTE TRAFFIC CONTROL CTR322: 9 DEMOCRAT RD, MEMPHIS 38118

1986964

Number of Underground Tanks: 3
Contents:DIESEL,

0-790023

METRO MIX INC: 1634 FERRELL PARK DR, MEMPHIS 38116

1987819

Number of Underground Tanks: 1
Contents:DIESEL,

9-792058

PHILLIPS 66 CO #019638: INCHSTR & HLYFORD, MEMPHIS 38116

1988764

Number of Underground Tanks: 5
Contents:GASOLINE (UNSPECIFIED),USED OIL,

9-791505

GOODYEAR LEASED FACILITY: LOEHMAN PLAZA, MEMPHIS 38118

1989949

Number of Underground Tanks: 1

9-791354

MEMPHIS AERO EAST COMPLEX: 2760, MEMPHIS 38116

3125464

Number of Underground Tanks: 21
Contents:KEROSENE,GASOLINE (UNSPECIFIED),EMPTY,

9-790980

LEHMAN ROBERTS CO.: 2480 CARRIER RD EXT, MEMPHIS 38116

3126030

Number of Underground Tanks: 2
Contents:GASOLINE (UNSPECIFIED),DIESEL,

9-790915

BOLINGS EXXON INC: UNK, MEMPHIS 38116

5011385

Number of Underground Tanks: 4
Contents:GASOLINE (UNSPECIFIED),DIESEL,
Number of Underground Tanks: 4
Contents:GASOLINE (UNSPECIFIED),DIESEL,

9-791255

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UST's

SITE NAME AND ADDRESS

VISTA ID

EPA ID /
AGENCY ID

UNION-CLEVELAND CAR CARE #5-6171: UNK, MEMPHIS 38116

5011386

Number of Underground Tanks: 5

9-791258

Contents:DIESEL,GASOLINE (UNSPECIFIED),USED OIL,

Number of Underground Tanks: 5

Contents:DIESEL,GASOLINE (UNSPECIFIED),USED OIL,

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DESCRIPTION OF DATABASES SEARCHED

Below are general descriptions and search parameters of the federal and state databases that VISTA searches for the National Radius Report.

FEDERAL DATABASES

Please check the "Summary of Environmental Risks Found" matrix on the cover of this profile to determine the specific dates of the federal databases searched for this profile.

U.S. EPA: NPL

The National Priorities List (NPL) is the EPA's database of uncontrolled or abandoned hazardous waste sites identified for priority remedial action under the Superfund Program. A site, to be included on the NPL, must either meet or surpass a predetermined hazard ranking systems score, or be chosen as a state's top-priority site, or meet all three of the following criteria:

- 1) The US Department of Health and Human Services issues a health advisory recommending that people be removed from the site to avoid exposure.
- 2) The EPA determines that the site represents a significant threat.
- 3) The EPA determines that remedial action is more cost-effective than removal action.

U.S. EPA: CERCLIS

The CERCLIS List is a compilation by the EPA of the sites which the EPA has investigated or is currently investigating for a release or threatened release of hazardous substances pursuant to the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA or Superfund Act).

U.S. EPA: RCRA (RCRIS/HWDMS)

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of reporting facilities that generate, transport, treat, store or dispose of hazardous waste.

U.S. EPA: ERNS

The Emergency Response Notification System (ERNS) is a national database used to collect information on reported accidental releases of oil and hazardous substances. The database contains information from spill reports made to federal authorities including the EPA, the US Coast Guard, the National Response Center and the Department of Transportation.

STATE DATABASES

Please check the "Databases Searched" to determine if the following type of databases are available from VISTA for the state in which the subject property of this report is located. Please note that if the Summary does not list one of the following databases, it is not currently available. You may also determine the specific names and dates of the databases searched for this profile in the summary.

STATE: SPL

The State Priority List is a generic name for databases maintained by many states that contain sites considered to be actually or potentially contaminated and presenting a possible threat to human health and the environment. These sites are generally listed by the state to warn the public or as a part of an investigation and cleanup program managed by the state.

STATE: LUST

This is a database maintained by state or local agencies of known or suspected leaking underground storage tanks.

STATE: UST

This is a database maintained by state or local agencies of registered underground storage tanks.

STATE: SWLF

This is a database maintained by state or local agencies of Solid Waste Landfills, Incinerators, and transfer stations.

195 409

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VISTA INFORMATION SOLUTIONS

FACILITY RISK PROFILE

| | |
|--------------------------|------------------------------|
| Client Project/P.O. No.: | VISTA Report No.: 088933051 |
| Client Reference Name: | Date of Report: Nov. 9, 1995 |

SITE DESCRIPTION

DEFENSE DISTRIBUTION DEPOT

MEMPHIS, TN

38114

SHELBY COUNTY

ADDITIONAL SEARCH CRITERIA

Facility Names: 1) DEFENSE
2) OCCUPATIONAL HEALTH
3) BLACKSTONE INC
4) PENROD PAINTING
5) USDSA DEFENSE DEPOT

Street Names: 1) AIRWAYS 2) BUILDING 629 3) BUILDING 630
4) DEFENSE 5) CENTRAL AIR 6) PERRY 7)
ELLISTON

City Names: 1) SHELBY COUNTY

Zip Codes: 1) 00000 2) 38106

A search of the VISTA Environmental Database found facility record(s) which fit the above site descriptions and/or additional search criteria. The following is a summary of the combined risks listed in those records:

Summary of Environmental Risks at Site

Records of Existing or Potential Contamination

- Site is a Federal Superfund Site(NPL)
- Site is listed on the US EPA's Evaluation System(CERCLIS)
- Site has had RCRA Corrective Actions imposed(CORRACTS)
- Site has reported spill incidents (ERNS)
- Site is on State cleanup list (SPL/SCL)

Records of Hazardous Materials or Environmental Permits

- Site is a hazardous waste treatment/storage/disposal facility(RCRIS TSD)

See the last two pages for a description of how this report is produced and the agency lists searched.

(Rev. 5.01, Oct 20 1995. ())

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Nov. 9, 1995-Report #: 088933051

5060 Shoreham Place, Suite 300, San Diego, CA 92122

For more info call: (619) 450-6100

- *Site generates hazardous waste(RCRIS Generator)*
- *Site handles PCBs(PADS)*
- *Site has a permit to discharge waste water (PCS)*
- *Site produces regulated air emissions(AIRS)*
- *Site listed in the EPA FINDS system(FINDS)*
- *Site utilizes storage tanks(UST/AST)*

Records of Environmental Non-Compliance

- *Site has violations under the RCRA program(RCRIS)*
- *Site has had Occupational Safety and Health Administration violations (OSHA)*

INVENTORY OF ENVIRONMENTAL RECORDS REVIEWED

Records of Existing and Potential Contamination

| Agency/Database | Type of Record | List Available | Record Found | Rec. Not Found |
|-------------------|--------------------------|----------------|--------------|----------------|
| US EPA NPL | FEDERAL SUPERFUND SITE | Y | X | |
| US EPA CERC/NFRAP | CERCLIS(C)/NFRAP(N) SITE | Y | C | |
| US EPA CORRACTS | CORRECTIVE ACTIONS SITE | Y | X | |
| US EPA ERNS | SPILL NOTIFICATION | Y | X | |
| STATE SPL/SCL | CONTAMINATED SITE | Y | X | |
| STATE LUST | LEAKING TANKS SITE | Y | | X |
| STATE SOLID WASTE | SOLID WASTE SITE | Y | | X |
| STATE SPILL | SPILL SITE | N | | X |

Records Indicating Hazardous Materials or Environmental Permits Present

| Agency/Database | Type of Record | List Available | Record Found | Rec. Not Found |
|-----------------|-------------------------|----------------|--------------|----------------|
| US EPA RCRIS | HAZ WASTE TSD SITE | Y | X | |
| US EPA RCRIS | HAZ WASTE TRANSPORTER | Y | | X |
| US EPA RCRIS | HAZ WASTE GENERATOR | Y | X | |
| US EPA PADS | PCB HANDLER | Y | X | |
| US EPA CICIS | CHEMICAL PRODUCER SITE | Y | | X |
| US EPA TRIS | TOXIC CHEMICAL RELEASES | Y | | X |
| US EPA PCS | WASTE WATER PERMIT | Y | X | |
| US EPA AIRS | REGULATED AIR EMISSIONS | Y | X | |
| US EPA FATES | PESTICIDES PROCESSOR | Y | | X |
| US EPA FRDS | PUBLIC WATER SUPPLY | Y | | X |
| US EPA FINDS | FACILITY INDEX SYSTEM | Y | X | |
| STATE UST/AST | TANK SITES | Y | X | |

Records of Environmental Compliance

| Agency/Database | Type of Record | List Available | Record Found | Rec. Not Found |
|-----------------|-------------------------|----------------|--------------|----------------|
| US EPA RCRIS | RCRA COMPLIANCE | Y | X | |
| US EPA RAATS | RCRA ADMIN. ACTIONS | Y | | X |
| US EPA PCS | NPDES COMPL/ENF | Y | | X |
| US EPA AIRS | AIR EMISSION COMPLIANCE | Y | | X |
| US EPA FTTS | FIFRA/TSCA/EPCRA COMP | Y | | X |
| US DoL OSHA | OSHA COMPLIANCE | Y | X | |
| US EPA SETS | RESPONSIBLE PARTY | Y | | X |
| US EPA DOCKET | CIVIL JUDICIAL ACTIONS | Y | | X |

VISTA INFORMATION SOLUTIONS, INC.

General Records Found Under Site Description

Facility Name : USA DEFENSE DEPOT MEMPHIS
Facility Address : 2163 AIRWAYS BLVD
Facility City/Zip : MEMPHIS, TN 38106
Facility County : SHELBY

VISTA Enhanced

City/Zip : MEMPHIS , 38114
VISTA # : 285726

Industry Description

Sic Code:3999 - MFG-MANUFACTURING INDUSTRIES NEC

Sic Code:9711 - GOV-NATIONAL SECURITY

UST Record Details

Agency ID Number:0-790241

Owner Information

Owner Name: DEFENSE LOGISTICS AG
Owner Address: 2163 AIRWAYS BLVD
Owner City: MEMPHIS
Owner State: TN
Owner Zip: 38114

Tank Information

Number of Underground Tanks: 25

Tanks Details

Tank Id: 01U
Tank Contents: FUEL OIL
Tank Size: 12000 GALLONS
Tank Status: CLOSED
Tank Material: BARE STEEL
Tank Age: 53
Pipe Type: BARE STEEL

Tank Id: 02U

DEFENSE DEPOT MEMPHIS TN (continued)

Tank Contents: HEATING OIL
Tank Size: 5000 GALLONS
Tank Status: CURRENT
Tank Material: BARE STEEL
Tank Age: 45
Pipe Type: BARE STEEL

Tank Id: 03U
Tank Contents: GASOLINE (UNSPECIFIED)
Tank Size: 1100 GALLONS
Tank Status: REMOVED
Tank Material: BARE STEEL
Tank Age: 51
Pipe Type: BARE STEEL

Tank Id: 04U
Tank Contents: GASOLINE (UNSPECIFIED)
Tank Size: 20000 GALLONS
Tank Status: CURRENT
Tank Material: FIBERGLASS
Tank Age: 10
Pipe Type: BARE STEEL

Tank Id: 05U
Tank Contents: GASOLINE (UNSPECIFIED)
Tank Size: 18000 GALLONS
Tank Status: CURRENT
Tank Material: FIBERGLASS
Tank Age: 10
Pipe Type: BARE STEEL

Tank Id: 06U
Tank Contents: GASOLINE (UNSPECIFIED)
Tank Size: 2400 GALLONS
Tank Status: REMOVED
Tank Material: BARE STEEL
Tank Age: 10
Pipe Type: BARE STEEL

DEFENSE DEPOT MEMPHIS TN (continued)

Tank Id: 07U
Tank Contents: HEATING OIL
Tank Size: 4000 GALLONS
Tank Status: CURRENT
Tank Material: BARE STEEL
Tank Age: 20
Pipe Type: BARE STEEL

Tank Id: 08U
Tank Contents: HEATING OIL
Tank Size: 12000 GALLONS
Tank Status: CURRENT
Tank Material: BARE STEEL
Tank Age: 53
Pipe Type: BARE STEEL

Tank Id: 09U
Tank Contents: DIESEL
Tank Size: 1000 GALLONS
Tank Status: REMOVED
Tank Material: BARE STEEL
Tank Age: 16
Pipe Type: BARE STEEL

Tank Id: 10U
Tank Contents: DIESEL
Tank Size: 800 GALLONS
Tank Status: CLOSED
Tank Material: BARE STEEL
Tank Age: 53
Pipe Type: BARE STEEL

Tank Id: 11U
Tank Contents: DIESEL
Tank Size: 500 GALLONS
Tank Status: CLOSED
Tank Material: BARE STEEL

DEFENSE DEPOT MEMPHIS TN (continued)

Tank Age: 53
Pipe Type: BARE STEEL

Tank Id: 12U
Tank Contents: DIESEL
Tank Size: 500 GALLONS
Tank Status: CLOSED
Tank Material: BARE STEEL
Tank Age: 53
Pipe Type: BARE STEEL

Tank Id: 13U
Tank Contents: DIESEL
Tank Size: 12000 GALLONS
Tank Status: CLOSED
Tank Material: BARE STEEL
Tank Age: 53
Pipe Type: BARE STEEL

Tank Id: 14U
Tank Contents: HAZARDOUS
Tank Size: 12000 GALLONS
Tank Status: REMOVED
Tank Material: BARE STEEL
Tank Age: 43
Pipe Type: BARE STEEL

Tank Id: 15U
Tank Contents: WASTE WATER
Tank Size: 500000 GALLONS
Tank Status: CLOSED
Tank Material: BARE STEEL
Tank Age: 40
Pipe Type: BARE STEEL

Tank Id: 16U
Tank Contents: GASOLINE (UNSPECIFIED)
Tank Size: 200 GALLONS

DEFENSE DEPOT MEMPHIS TN (continued).

Tank Status: REMOVED
Tank Material: BARE STEEL
Tank Age: 40
Pipe Type: BARE STEEL

Tank Id: 17U
Tank Contents: DIESEL
Tank Size: 15000 GALLONS
Tank Status: CLOSED
Tank Material: BARE STEEL
Tank Age: 46
Pipe Type: BARE STEEL

Tank Id: 18U
Tank Contents: DIESEL
Tank Size: 11155 GALLONS
Tank Status: CLOSED
Tank Material: BARE STEEL
Tank Age: 44
Pipe Type: BARE STEEL

Tank Id: 19U
Tank Contents: HEATING OIL
Tank Size: 10000 GALLONS
Tank Status: CURRENT
Tank Material: BARE STEEL
Tank Age: 44
Pipe Type: BARE STEEL

Tank Id: 20U
Tank Contents: USED OIL
Tank Size: 1000 GALLONS
Tank Status: REMOVED
Tank Material: BARE STEEL
Tank Age: 44
Pipe Type: BARE STEEL

Tank Id: 21U

DEFENSE DEPOT MEMPHIS TN (continued)

Tank Contents: USED OIL
Tank Size: 1000 GALLONS
Tank Status: REMOVED
Tank Material: BARE STEEL
Tank Age: 44
Pipe Type: BARE STEEL

Tank Id: 22U
Tank Contents: GASOLINE (UNSPECIFIED)
Tank Size: 450 GALLONS
Tank Status: REMOVED
Tank Material: BARE STEEL
Tank Age: 44
Pipe Type: BARE STEEL

Tank Id: 23U
Tank Contents: HEATING OIL
Tank Size: 1000 GALLONS
Tank Status: CURRENT
Tank Material: BARE STEEL
Tank Age: 45
Pipe Type: BARE STEEL

Tank Id: 24U
Tank Contents: CHEMICAL MIXTURE
Tank Size: 1000 GALLONS
Tank Status: CURRENT
Tank Material: CONCRETE
Tank Age: 11
Pipe Type: CAST IRON

Tank Id: 25U
Tank Contents: DIESEL
Tank Status: REMOVED
Tank Material: NOT MARKED
Tank Age: 7

PCB Handler Record Details

EPA ID Number:TN4210020570

PCB Information

Activity: Generates PCBs

FINDS Record Details

EPA ID Number:TN2971520570

Agency Id Information

Program Name: Haz Waste

Agency Id: TN4210020570

Program Name: Haz Waste

Agency Id: TN7210090042

Program Name: AIR

Agency Id: 4715700209

Program Name: CERCLIS

Agency Id: TN4210020570

Program Name: Fed Activities

Agency Id: TN-971520571

Program Name: Fed Activities

Agency Id: TN-971520570

Program Name: TOXICS-PADS

Agency Id: TN4210020570

VISTA INFORMATION SOLUTIONS, INC.

General Records Found Under Site Description

| | |
|-------------------|-------------------------|
| Facility Name | : MEMPHIS DEFENSE DEPOT |
| Facility Address | : PERRY & ELLISTON RD |
| Facility City/Zip | : MEMPHIS, TN 38106 |
| Facility County | : SHELBY |
| VISTA # | : 1987456 |

NPL Record Details

EPA ID Number:TN6971590009

VISTA INFORMATION SOLUTIONS, INC.

General Records Found Under Site Description

| | |
|-------------------|-------------------------|
| Facility Name | : US ARMY/DEFENSE DEPOT |
| Facility Address | : AIRWAYS BLVD |
| Facility City/Zip | : MEMPHIS, TN |
| Facility County | : SHELBY |
| VISTA # | : 1984493 |

State Clean-Up Record Details

Agency ID Number:79-736

Site Information

· NPL Status:

VISTA INFORMATION SOLUTIONS, INC.

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General Records Found Under Site Description

| | |
|-------------------|----------------------------------|
| Facility Name | : DEFENSE DISTRIBUTION REGION CE |
| Facility Address | : 2163 AIRWAYS BLVD. |
| Facility City/Zip | : MEMPHIS, TN 38114 |
| Facility County | : SHELBY |
| VISTA # | : 4941373 |

Industry Description

Sic Code:9711 - GOV-NATIONAL SECURITY

RCRA Record Details

EPA ID Number:TN4210020570

Generator Details

Waste Quantity Class: - Generates at least 1000 kg./month of non-acutely hazardous waste (or 1 kg./month of acutely hazardous waste).

RCRA Record Details

EPA ID Number:TN4210020570

TSD Details

TSD Activities This facility is engaged in the treatment/storage and or disposal of hazardous waste

Storage Treatment Universe: VERIFIED STORAGE/TREATMENT FACILITY.

VISTA INFORMATION SOLUTIONS, INC.

Compliance Records Found Under Site Description

| | |
|-------------------|----------------------------------|
| Facility Name | : USA DEFENSE REUTILIZATION MARK |
| Facility Address | : 2163 AIRWAYS |
| Facility City/Zip | : MEMPHIS, TN 38114 |
| Facility County | : NOT REPORTED |
| VISTA # | : 285726 |

EPA ID: TN7210090042

RCRA COMPLIANCE INFORMATION

RCRA compliance evaluations are conducted by the US EPA or the state agency responsible for the RCRA program. The following is a summary of the facility's current compliance status and a listing of all RCRA evaluations. The current compliance status indicates any outstanding (not yet corrected) non-compliance issues found during one of the listed evaluations or after appropriate testing is completed by the agency.

RCRA Compliance Status: In Compliance**RCRA Compliance History:**

Evaluations with at least one Class One Violation: 0

Evaluations

None

Violations

None

EPA Enforcements

None

195 423

State Enforcements

None

EPA Oversight Enforcements

None

CORRECTIVE ACTIONS INFORMATION

In the Hazardous and Solid Waste Amendments of 1984, Congress proposed stringent corrective action requirements on TSD facilities. Corrective actions are required for all current or past releases of hazardous waste and constituents regardless of when the waste was treated or disposed of. If necessary, corrective actions may extend beyond a facility's boundary. Corrective Action requirements are usually included in the operating permit or modifications. Other instruments may be used for non-operating facilities.

EPA ID:

Prioritization Status: N/A

Instruments:

None

VISTA INFORMATION SOLUTIONS, INC.

Compliance Records Found Under Site Description

| | |
|-------------------|----------------------------------|
| Facility Name | : DEFENSE DISTRIBUTION REGION CE |
| Facility Address | : 2163 AIRWAYS BLVD. |
| Facility City/Zip | : MEMPHIS, TN 38114 |
| Facility County | : NOT REPORTED |
| VISTA # | : 4941373 |

EPA ID: TN4210020570

RCRA COMPLIANCE INFORMATION

RCRA compliance evaluations are conducted by the US EPA or the state agency responsible for the RCRA program. The following is a summary of the facility's current compliance status and a listing of all RCRA evaluations. The current compliance status indicates any outstanding (not yet corrected) non-compliance issues found during one of the listed evaluations or after appropriate testing is completed by the agency.

RCRA Compliance Status: In Compliance

RCRA Compliance History:

Evaluations with at least one Class One Violation: 7

Evaluations

| Date | Type | Violation |
|----------|-----------------------|-----------|
| 12/06/85 | COMPLIANCE EVALUATION | YES |
| 08/14/86 | COMPLIANCE EVALUATION | YES |
| 03/03/88 | COMPLIANCE EVALUATION | YES |
| 04/20/88 | COMPLIANCE EVALUATION | YES |
| 05/18/89 | COMPLIANCE EVALUATION | YES |
| 08/24/90 | COMPLIANCE EVALUATION | YES |
| 08/04/94 | COMPLIANCE EVALUATION | YES |

Violations

| Violation Date | Scheduled Compliance | Actual Compliance | Violation Type |
|----------------|----------------------|-------------------|---|
| 08/04/94 | 09/21/94 | N/A | TSD-OTHER REQUIREMENTS† |
| 03/03/88 | 04/28/88 | 08/06/88 | GENERATOR REQUIREMENTS-EXCEPT LAND BAN |
| 03/03/88 | 04/28/88 | 08/06/88 | GENERATOR REQUIREMENTS-EXCEPT LAND BAN |
| 10/29/86 | 12/22/86 | 01/16/87 | FORMER ENFORCEMENT AGREEMENT |
| 12/06/85 | 02/10/86 | 03/19/86 | GENERATOR REQUIREMENTS-EXCEPT LAND BAN |
| 12/06/85 | 02/10/86 | 03/19/86 | GENERATOR REQUIREMENTS-EXCEPT LAND BAN |
| 12/06/85 | 02/10/86 | 03/19/86 | GENERATOR REQUIREMENTS-EXCEPT LAND BAN |
| 12/06/85 | 02/10/86 | 03/19/86 | GENERATOR REQUIREMENTS-EXCEPT LAND BAN |
| 12/06/85 | 02/10/86 | 03/19/86 | GENERATOR REQUIREMENTS-EXCEPT LAND BAN |
| 08/14/86 | 12/22/86 | 01/16/87 | TSD-OTHER REQUIREMENTS |
| 08/14/86 | 12/22/86 | 01/16/87 | TSD-OTHER REQUIREMENTS |
| 03/03/88 | 04/28/88 | 06/16/88 | GENERATOR REQUIREMENTS-EXCEPT LAND BAN† |
| 03/03/88 | 04/28/88 | 06/16/88 | GENERATOR REQUIREMENTS-EXCEPT LAND BAN† |
| 03/03/88 | 04/28/88 | 06/16/88 | GENERATOR REQUIREMENTS-EXCEPT LAND BAN |
| 03/03/88 | 04/28/88 | 06/16/88 | GENERATOR REQUIREMENTS-EXCEPT LAND BAN |
| 08/24/90 | 10/01/90 | 10/01/90 | TSD-OTHER REQUIREMENTS† |
| 05/18/89 | 06/30/89 | 06/30/89 | GENERATOR-LAND BAN REQUIREMENTS |
| 05/18/89 | 06/30/89 | 06/30/89 | GENERATOR REQUIREMENTS-EXCEPT LAND BAN |
| 04/20/88 | 08/06/88 | 08/06/88 | GENERATOR REQUIREMENTS-EXCEPT LAND BAN |
| 04/20/88 | 08/06/88 | 08/06/88 | GENERATOR REQUIREMENTS-EXCEPT LAND BAN |

†-High priority violations

EPA Enforcements

| Date | Penalty | Settlement | Type |
|----------|----------|------------|------------------|
| | Assessed | Amount | |
| 07/06/88 | \$ N/A | \$ N/A | WRITTEN INFORMAL |
| 05/30/89 | \$ N/A | \$ N/A | WRITTEN INFORMAL |

State Enforcements

| Date | Penalty | Settlement | Type |
|----------|----------|------------|------------------|
| | Assessed | Amount | |
| 12/27/85 | \$ N/A | \$ N/A | WRITTEN INFORMAL |
| 10/30/86 | \$ N/A | \$ N/A | WRITTEN INFORMAL |
| 03/25/88 | \$ N/A | \$ N/A | WRITTEN INFORMAL |
| 09/12/90 | \$ N/A | \$ N/A | WRITTEN INFORMAL |
| 09/06/94 | \$ N/A | \$ N/A | WRITTEN INFORMAL |

CORRECTIVE ACTIONS INFORMATION

In the Hazardous and Solid Waste Amendments of 1984, Congress proposed stringent corrective action requirements on TSD facilities. Corrective actions are required for all current or past releases of hazardous waste and constituents regardless of when the waste was treated or disposed of. If necessary, corrective actions may extend beyond a facility's boundary. Corrective Action requirements are usually included in the operating permit or modifications. Other instruments may be used for non-operating facilities.

EPA ID: TND059840561

Prioritization Status: HIGH as of 03/31/92

Instruments:**EPA OPERATING PERMIT**

- Details

Effective Date: 09/28/90

Issuance Date: 09/28/90

Revocation Date: N/A

Resp. Program: N/A

Legal Authority: RCRA 3004(U) OR EQUIVALENT

- Related Area:

- Required Event:

Event Type: RCRA FACILITY ASSESSMENT COMPLETED

Agency: EPA

Actual Date: 07/19/90

Resp. Program: N/A

- Required Event:

Event Type: DETERMINATION OF NEED FOR AN RCRA FACILITY INVESTIGATION : RCRA FACILITY INVESTIGATION IS NECESSARY

Agency: EPA

Actual Date: 07/18/90

Resp. Program: N/A

- Required Event:

Event Type: CA PRIORITIZATION : FACILITY WAS ASSIGNED A HIGH CORRECTIVE ACTION PRIORITY

195 429

Instruments Cont.:

EPA OPERATING PERMIT Cont.

Agency: EPA
Actual Date: 03/31/92
Resp. Program: N/A

• Required Event:

Event Type: RCRA FACILITY INVESTIGATION IMPOSITION

Agency: EPA
Actual Date: 09/28/90
Resp. Program: N/A

• Required Event:

Event Type: STABILIZATION MEASURES IMPLEMENTED

Agency: EPA
Actual Date: 08/14/91
Resp. Program: N/A

• Related Area: DUNN FIELD GROUNDWATER

• Required Event:

Event Type: STABILIZATION MEASURES IMPLEMENTED

Agency: EPA
Actual Date: 08/14/91
Resp. Program: N/A

• Related Area: AREA 3 OU2

• Related Area: AREA 4 OU3

• Related Area: AREA 5 OU4

Areas Not Related To Specific Instruments:

- AREA #4 OPERABLE UNIT 3
- AREA #5 OPERABLE UNIT 4

VISTA INFORMATION SOLUTIONS, INC.

General Records Found Under Site Description

| | |
|-------------------|-----------------------------|
| Facility Name | : USA DEFENSE DEPOT MEMPHIS |
| Facility Address | : 2163 AIRWAYS BLVD |
| Facility City/Zip | : MEMPHIS, TN 38114 |
| Facility County | : SHELBY |
| VISTA # | : 285726 |

CERCLIS Record Details**GENERAL INFORMATION**

EPA ID: TN4210020570
EPA Region: 04
Congressional District: 09
Federal Facility: FEDERAL FACILITY
Federal Facility Docket: SITE IS INCLUDED ON THE DOCKET
Facility Ownership: FEDERALLY OWNED
Site Incident Category: FEDERAL FACILITY
Incident Type: NOT REPORTED
Site Description: NOT REPORTED
NPL Status: CURRENTLY ON FINAL NPL
Proposed NPL Update: 12
Final NPL Update: 13
Financial Mgmt Sys ID: 04EC
Latitude: 3405150
Longitude: 08900000
Lat/Long Source: RESEARCHED BY THE REGION & MANUALLY ENTERED
Lat/Long Accuracy: NOT REPORTED
Dioxin Tier: NOT REPORTED
USGS Hydro Unit: 08010211
RCRA Indicator: NOT REPORTED

ALIAS INFORMATION

Alias ID: 01
Alias EPA ID: TN4210020570

ALIAS INFORMATION Continued

Alias Name: 01
Alias Street: NOT REPORTED
Alias City, State Zip: SHELBY , TN (ZIP NOT REPORTED)
Alias Latitude: 3405150
Alias Longitude: 08900000
Alias Description: NOT REPORTED

Alias ID: 02
Alias EPA ID: TN4210020570
Alias Name: 02
Alias Street: NOT REPORTED
Alias City, State Zip: SHELBY , TN (ZIP NOT REPORTED)
Alias Latitude: 3405150
Alias Longitude: 08900000
Alias Description: NOT REPORTED

ENFORCEMENT INFORMATION

Event: FEDERAL INTERAGENCY AGMT
Lead Agency: FEDERAL ENFORCEMENT
Actual Start Date: 08/20/92
Actual Completion Date: 11/03/94

Event: INTERAGENCY NEGOTIATIONS
Lead Agency: FEDERAL ENFORCEMENT
Actual Start Date: 09/14/92
Actual Completion Date: 11/03/94

| |
|-------------------------|
| Site Assessment History |
|-------------------------|

OPERABLE UNIT

Unit ID: 00

Unit Name: SITE EVALUATION/DISPOSITION

*The following is a list of events related to this Operable Unit:***Event**

Type: PRELIMINARY ASSESSMENT

Category: NOT REPORTED

Plan Status: NOT REPORTED

Lead Agency: FEDERAL FACILITIES

Actual Start Date: NOT REPORTED

Actual Completion Date: 12/01/83

Qualifier: HIGHER PRIORITY

Event

Type: SCREENING SITE INSPECTION

Category: NOT REPORTED

Plan Status: NOT REPORTED

Lead Agency: FEDERAL FACILITIES

Actual Start Date: NOT REPORTED

Actual Completion Date: 11/09/87

Qualifier: HIGHER PRIORITY

Event

Type: DISCOVERY

Category: NOT REPORTED

Plan Status: NOT REPORTED

Lead Agency: FEDERAL FACILITIES

Actual Start Date: NOT REPORTED

Actual Completion Date: 02/12/88

Qualifier: NOT REPORTED

Event

Type: PRELIMINARY ASSESSMENT

Category: NOT REPORTED

Plan Status: NOT REPORTED

195 433

Event Continued

Lead Agency: FEDERAL FACILITIES
Actual Start Date: NOT REPORTED
Actual Completion Date: 09/30/90
Qualifier: HIGHER PRIORITY

Event

Type: SCREENING SITE INSPECTION
Category: NOT REPORTED
Plan Status: NOT REPORTED
Lead Agency: FEDERAL FACILITIES
Actual Start Date: NOT REPORTED
Actual Completion Date: 09/30/90
Qualifier: HIGHER PRIORITY

Event

Type: HAZARD RANKING SYSTEM SCORE
Category: NOT REPORTED
Plan Status: NOT REPORTED
Lead Agency: FEDERAL FACILITIES
Actual Start Date: 10/01/90
Actual Completion Date: 05/20/91
Qualifier: NOT REPORTED

Event

Type: PROPOSED FOR NPL
Category: NOT REPORTED
Plan Status: NOT REPORTED
Lead Agency: FEDERAL FACILITIES
Actual Start Date: NOT REPORTED
Actual Completion Date: 02/07/92
Qualifier: NOT REPORTED

Event

Type: FINAL LISTING ON NPL
Category: NOT REPORTED
Plan Status: NOT REPORTED
Lead Agency: FEDERAL FACILITIES
Actual Start Date: NOT REPORTED

Event Continued

Actual Completion Date: 10/14/92
Qualifier: NOT REPORTED

OPERABLE UNIT

Unit ID: 01
Unit Name: DUNN FIELD

The following is a list of events related to this Operable Unit:

Event

Type: REMEDIAL ACTION
Category: NOT REPORTED
Plan Status: ALTERNATE
Lead Agency: FEDERAL FACILITIES
Actual Start Date: NOT REPORTED
Actual Completion Date: NOT REPORTED
Qualifier: NOT REPORTED

Event

Type: REMEDIAL ACTION
Category: NOT REPORTED
Plan Status: ALTERNATE
Lead Agency: FEDERAL FACILITIES
Actual Start Date: NOT REPORTED
Actual Completion Date: NOT REPORTED
Qualifier: NOT REPORTED

Event

Type: REMEDIAL DESIGN
Category: NOT REPORTED
Plan Status: ALTERNATE
Lead Agency: FEDERAL FACILITIES
Actual Start Date: NOT REPORTED
Actual Completion Date: NOT REPORTED
Qualifier: NOT REPORTED

Event

Type: REMEDIAL DESIGN
Category: NOT REPORTED

Event Continued

195 435

Plan Status: ALTERNATE
Lead Agency: FEDERAL FACILITIES
Actual Start Date: NOT REPORTED
Actual Completion Date: NOT REPORTED
Qualifier: NOT REPORTED

Event

Type: RECORD OF DECISION
Category: NOT REPORTED
Plan Status: ALTERNATE
Lead Agency: FEDERAL FACILITIES
Actual Start Date: NOT REPORTED
Actual Completion Date: NOT REPORTED
Qualifier: NOT REPORTED

Event

Type: RECORD OF DECISION
Category: NOT REPORTED
Plan Status: ALTERNATE
Lead Agency: FEDERAL FACILITIES
Actual Start Date: NOT REPORTED
Actual Completion Date: NOT REPORTED
Qualifier: NOT REPORTED

Event

Type: COMBINED RI/FS
Category: NOT REPORTED
Plan Status: ALTERNATE
Lead Agency: FEDERAL FACILITIES
Actual Start Date: 01/11/94
Actual Completion Date: NOT REPORTED
Qualifier: NOT REPORTED

OPERABLE UNIT

Unit ID: 02
Unit Name: SW QUADRANT MAIN INSTALLATION

The following is a list of events related to this Operable Unit:

Event

Type: REMEDIAL ACTION
Category: NOT REPORTED
Plan Status: ALTERNATE
Lead Agency: FEDERAL FACILITIES
Actual Start Date: NOT REPORTED
Actual Completion Date: NOT REPORTED
Qualifier: NOT REPORTED

Event

Type: REMEDIAL DESIGN
Category: NOT REPORTED
Plan Status: ALTERNATE
Lead Agency: FEDERAL FACILITIES
Actual Start Date: NOT REPORTED
Actual Completion Date: NOT REPORTED
Qualifier: NOT REPORTED

Event

Type: RECORD OF DECISION
Category: NOT REPORTED
Plan Status: ALTERNATE
Lead Agency: FEDERAL FACILITIES
Actual Start Date: NOT REPORTED
Actual Completion Date: NOT REPORTED
Qualifier: NOT REPORTED

Event

Type: COMBINED RI/FS
Category: NOT REPORTED
Plan Status: ALTERNATE
Lead Agency: FEDERAL FACILITIES
Actual Start Date: 02/09/94
Actual Completion Date: NOT REPORTED
Qualifier: NOT REPORTED

OPERABLE UNIT

Unit ID: 03
Unit Name: SW WATERSHED & GOLF COURSE

The following is a list of events related to this Operable Unit:

Event

Type: REMEDIAL ACTION
Category: NOT REPORTED
Plan Status: ALTERNATE
Lead Agency: FEDERAL FACILITIES
Actual Start Date: NOT REPORTED
Actual Completion Date: NOT REPORTED
Qualifier: NOT REPORTED

Event

Type: REMEDIAL DESIGN
Category: NOT REPORTED
Plan Status: ALTERNATE
Lead Agency: FEDERAL FACILITIES
Actual Start Date: NOT REPORTED
Actual Completion Date: NOT REPORTED
Qualifier: NOT REPORTED

Event

Type: RECORD OF DECISION
Category: NOT REPORTED
Plan Status: ALTERNATE
Lead Agency: FEDERAL FACILITIES
Actual Start Date: NOT REPORTED
Actual Completion Date: NOT REPORTED
Qualifier: NOT REPORTED

Event

Type: COMBINED RI/FS
Category: NOT REPORTED
Plan Status: ALTERNATE
Lead Agency: FEDERAL FACILITIES
Actual Start Date: 03/10/94
Actual Completion Date: NOT REPORTED
Qualifier: NOT REPORTED

OPERABLE UNIT

Unit ID: 04

Unit Name: NORTH CENTRAL AREA, MAIN INST

*The following is a list of events related to this Operable Unit:***Event**

Type: REMEDIAL ACTION
Category: NOT REPORTED
Plan Status: ALTERNATE
Lead Agency: FEDERAL FACILITIES
Actual Start Date: NOT REPORTED
Actual Completion Date: NOT REPORTED
Qualifier: NOT REPORTED

Event

Type: REMEDIAL DESIGN
Category: NOT REPORTED
Plan Status: ALTERNATE
Lead Agency: FEDERAL FACILITIES
Actual Start Date: NOT REPORTED
Actual Completion Date: NOT REPORTED
Qualifier: NOT REPORTED

Event

Type: RECORD OF DECISION
Category: NOT REPORTED
Plan Status: ALTERNATE
Lead Agency: FEDERAL FACILITIES
Actual Start Date: NOT REPORTED
Actual Completion Date: NOT REPORTED
Qualifier: NOT REPORTED

Event

Type: COMBINED RI/FS
Category: NOT REPORTED
Plan Status: ALTERNATE
Lead Agency: FEDERAL FACILITIES
Actual Start Date: 05/09/94
Actual Completion Date: NOT REPORTED

Event Continued

195 439

Qualifier: NOT REPORTED

VISTA INFORMATION SOLUTIONS, INC.

Compliance Records Found Under Site Description

| | |
|-------------------|---------------------------|
| Facility Name | : DEFENSE DEPOT |
| Facility Address | : 2163 AIRWAYS BLVD MEMPH |
| Facility City/Zip | : MEMPHIS, TN 38114 |
| Facility County | : NOT REPORTED |
| VISTA # | : 285726 |

AIRS Site Information

EPA ID: TN4210020570

AIRS ID: 4715700209

State Registration Number:

Significant Violator: NO

Pollutants Emitted:

| Pollutant Code | Pollutant Name |
|----------------|----------------------------|
| PX | DEFAULT POLLUTANT FROM CDS |
| PT | TOTAL PARTICULATE MATTER |
| NO2 | NITROGEN DIOXIDE |

AIRS Compliance Details

Air Program: STATE IMPLIMENTATION PLAN (SIP) SOURCE

Pollutant Compliance:

| Pollutant Code | Compliance Status |
|----------------|----------------------------|
| PX | IN COMPLIANCE - INSPECTION |
| PT | IN COMPLIANCE - INSPECTION |
| NO2 | IN COMPLIANCE - INSPECTION |

Enforcement Actions

| Action | | | |
|----------|-----------------|---------|----------------|
| Number | Date | Penalty | Description |
| 001 | 12/06/91 | \$ 0 | ST COMPL INSPT |
| Results: | N/A | | |
| 002 | 12/06/90 | \$ 0 | ST COMPL INSPT |
| Results: | N/A | | |
| 003 | 12/10/91 | \$ 0 | ST COMPL INSPT |
| Results: | ACTION ACHIEVED | | |

VISTA INFORMATION SOLUTIONS, INC.

Compliance Records Found Under Site Description

| | |
|-------------------|----------------------------------|
| Facility Name | : USDSA DEFENSE DEPOT MEMPHIS |
| Facility Address | : DEFENSE LOGISTICS AGENCY |
| Facility City/Zip | : MEMPHIS, SHELBY COUNTY,, TN 38 |
| Facility County | : NOT REPORTED |

| | |
|----------------|-------------------|
| VISTA Enhanced | |
| City/Zip | : MEMPHIS , 38114 |
| VISTA # | : 5010532 |

NPDES Record Details**NPDES Permit Info**

| | |
|------------------|-----------|
| Agency Id: | TN0022322 |
| Facility Type: | Federal |
| Facility Class: | Minor |
| Issue Date: | 09/30/93 |
| Expiration Date: | 09/29/98 |

VISTA INFORMATION SOLUTIONS, INC.

Compliance Records Found Under Site Description

| | |
|-------------------|--------------------------|
| Facility Name | : DEFENSE DEPOT MEMPHIS |
| Facility Address | : 2163 AIRWAYS BOULEVARD |
| Facility City/Zip | : MEMPHIS, TN 38114 |
| Facility County | : NOT REPORTED |
| VISTA # | : 199339551 |

OSHA Record Details**General Information:**

Report Id: 0420100
Activity #: 017393075
Inspector #: R6129-I
SIC: 4225

Secondary SIC:

Owner Type: FEDERAL AGENCY
Unionized: YES

Employee Information:

Number of Employees: 2200
Number of Employees Covered by Inspection: 2200
Lost work Day Injury Rate: N/A
Number of Employees Controlled by Employer: 53976

Inspection Information:

Type: N/A
Category: HEALTH
Scope: COMPREHENSIVE
Class:
Total Inspection Time: 62.0 HOURS
Inspection Opened: 12/02/86
Inspection Closed: 12/19/86
Case Closed: 5/05/87
Total Dollars Remitted: 0
Local Office Inspection ID:

Inspection Information: Continued

Previous Activity Number: NONE

Citation Information:

| ID Number | Citation Standard† | Citation Subsection† | Type | Related Events |
|-----------|-----------------------|-------------------------|---------|-------------------|
| 01001 | 1910.176 | B | SERIOUS | N/A |
| 01002 | 19101025 | D02 | SERIOUS | N/A |
| 01003 | 19101025 | L01 I | SERIOUS | N/A |
| 02001 | 1910.094 | A07 | OTHER | N/A |
| 02002 | 1910.107 | B05 I | OTHER | N/A |

†Refers to "Code of Federal Regulations"

Citation Additional Information:

| ID Number | Issuance Date | Abate Date | Abatement Complete | Contested | Hazardous Substances |
|-----------|------------------|---------------|-----------------------|-----------|-------------------------|
| 01001 | 1/09/87 | 5/01/87 | YES | NO | N/A |
| 01002 | 1/09/87 | 2/12/87 | YES | NO | N/A |
| 01003 | 1/09/87 | 1/30/87 | YES | NO | N/A |
| 02001 | 1/09/87 | 2/09/87 | YES | NO | N/A |
| 02002 | 1/09/87 | 2/09/87 | YES | NO | N/A |

Penalty Information:

| ID Number | Initial Penalty | Current Penalty | Initial Failure to Abate Penalty | Current Failure to Abate Penalty |
|-----------|--------------------|--------------------|-------------------------------------|-------------------------------------|
| 01001 | 0 | 0 | 0 | 0 |
| 01002 | 0 | 0 | 0 | 0 |
| 01003 | 0 | 0 | 0 | 0 |
| 02001 | 0 | 0 | 0 | 0 |
| 02002 | 0 | 0 | 0 | 0 |
| Totals: | \$ 0 | \$ 0 | \$ 0 | \$ 0 |

Settlement Information:

| ID Number | Final Order Date | Disposition |
|-----------|---------------------|-------------|
| 01001 | N/A | N/A |
| 01002 | N/A | N/A |

Settlement Information Cont.

| ID Number | Final | |
|-----------|------------|-------------|
| | Order Date | Disposition |
| 01003 | N/A | N/A |
| 02001 | N/A | N/A |
| 02002 | N/A | N/A |

VISTA INFORMATION SOLUTIONS, INC.

Compliance Records Found Under Site Description

| | |
|-------------------|-------------------------|
| Facility Name | : DEFENSE DEPOT MEMPHIS |
| Facility Address | : 2163 AIRWAYS BLVD. |
| Facility City/Zip | : MEMPHIS, TN 38114 |
| Facility County | : NOT REPORTED |
| VISTA # | : 199339552 |

OSHA Record Details**General Information:**

Report Id: 0420100
Activity #: 017394560
Inspector #: W1332-C
SIC: 4225

Secondary SIC:

Owner Type: FEDERAL AGENCY
Unionized: YES

Employee Information:

Number of Employees: 2200
Number of Employees Covered by Inspection: 2200
Lost work Day Injury Rate: N/A
Number of Employees Controlled by Employer: 54000

Inspection Information:

Type: N/A
Category: SAFETY
Scope: COMPREHENSIVE
Class:
Total Inspection Time: 99.5 HOURS
Inspection Opened: 10/31/88
Inspection Closed: 11/16/88
Case Closed: 12/27/88
Total Dollars Remitted: 0
Local Office Inspection ID:

195 447

Inspection Information: Continued

Previous Activity Number: NONE

Citation Information:

| ID Number | Citation Standard† | Citation Subsection† | Type | Related Events |
|-----------|-----------------------|-------------------------|---------|-------------------|
| 01001 | 1910.303 | G02 I | SERIOUS | N/A |
| 01002 | 1910.176 | B | SERIOUS | N/A |
| 01003A | 1910.213 | C01 | SERIOUS | N/A |
| 01003B | 1910.213 | C02 | SERIOUS | N/A |
| 01003C | 1910.213 | A03 | SERIOUS | N/A |
| 01004 | 1910.219 | D01 | SERIOUS | N/A |
| 01005 | 1910.213 | H03 | SERIOUS | N/A |
| 02001 | 1910.304 | F05 V | OTHER | N/A |
| 02002 | 1910.151 | C | OTHER | N/A |
| 02003 | 1910.212 | A03 II | OTHER | N/A |
| 02004 | 1910.026 | C02 VII | OTHER | N/A |
| 02005 | 1910.215 | A04 | OTHER | N/A |
| 02006 | 1910.305 | G01 III | OTHER | N/A |

†Refers to "Code of Federal Regulations"

Citation Additional Information:

| ID Number | Issuance Date | Abate Date | Abatement Complete | Contested | Hazardous Substances |
|-----------|------------------|---------------|-----------------------|-----------|-------------------------|
| 01001 | 12/08/88 | 12/29/88 | YES | NO | N/A |
| 01002 | 12/08/88 | 12/29/88 | YES | NO | N/A |
| 01003A | 12/08/88 | 12/29/88 | YES | NO | N/A |
| 01003B | 12/08/88 | 12/29/88 | YES | NO | N/A |
| 01003C | 12/08/88 | 12/29/88 | YES | NO | N/A |
| 01004 | 12/08/88 | 12/29/88 | YES | NO | N/A |
| 01005 | 12/08/88 | 12/29/88 | YES | NO | N/A |
| 02001 | 12/08/88 | 1/09/89 | YES | NO | N/A |
| 02002 | 12/08/88 | 1/09/89 | YES | NO | N/A |
| 02003 | 12/08/88 | 1/09/89 | YES | NO | N/A |
| 02004 | 12/08/88 | 1/09/89 | YES | NO | N/A |
| 02005 | 12/08/88 | 1/09/89 | YES | NO | N/A |
| 02006 | 12/08/88 | 1/09/89 | YES | NO | N/A |

Penalty Information:

| ID Number | Initial Penalty | Current Penalty | Initial Failure to Abate Penalty | Current Failure to Abate Penalty |
|-----------|--------------------|--------------------|-------------------------------------|-------------------------------------|
| 01001 | 0 | 0 | 0 | 0 |
| 01002 | 0 | 0 | 0 | 0 |
| 01003A | 0 | 0 | 0 | 0 |
| 01003B | 0 | 0 | 0 | 0 |
| 01003C | 0 | 0 | 0 | 0 |
| 01004 | 0 | 0 | 0 | 0 |
| 01005 | 0 | 0 | 0 | 0 |
| 02001 | 0 | 0 | 0 | 0 |
| 02002 | 0 | 0 | 0 | 0 |
| 02003 | 0 | 0 | 0 | 0 |
| 02004 | 0 | 0 | 0 | 0 |
| 02005 | 0 | 0 | 0 | 0 |
| 02006 | 0 | 0 | 0 | 0 |
| Totals: | \$ 0 | \$ 0 | \$ 0 | \$ 0 |

Settlement Information:

| ID Number | Final Order Date | Disposition |
|-----------|---------------------|-------------|
| 01001 | N/A | N/A |
| 01002 | N/A | N/A |
| 01003A | N/A | N/A |
| 01003B | N/A | N/A |
| 01003C | N/A | N/A |
| 01004 | N/A | N/A |
| 01005 | N/A | N/A |
| 02001 | N/A | N/A |
| 02002 | N/A | N/A |
| 02003 | N/A | N/A |
| 02004 | N/A | N/A |
| 02005 | N/A | N/A |
| 02006 | N/A | N/A |

VISTA INFORMATION SOLUTIONS, INC.

Compliance Records Found Under Site Description

| | |
|-------------------|---------------------------------|
| Facility Name | : DEFENSE DISTRIBUTION REGIONAL |
| Facility Address | : 2163 AIRWAYS BLVD. |
| Facility City/Zip | : MEMPHIS, TN 38114 |
| Facility County | : NOT REPORTED |
| VISTA # | : 199339553 |

OSHA Record Details**General Information:**

Report Id: 0420100
Activity #: 106961451
Inspector #: T7213-C
SIC: 4225

Secondary SIC:

Owner Type: FEDERAL AGENCY
Unionized: YES

Employee Information:

Number of Employees: 2300
Number of Employees Covered by Inspection: 2300
Lost work Day Injury Rate: N/A
Number of Employees Controlled by Employer: 54000

Inspection Information:

Type: UNPROGRAMMED COMPLAINT
Category: SAFETY
Scope: PARTIAL
Class:
Total Inspection Time: 22.0 HOURS
Inspection Opened: 2/27/92
Inspection Closed: 2/27/92
Case Closed: 7/23/92
Total Dollars Remitted: 0
Local Office Inspection ID: 042

Inspection Information: Continued

Previous Activity Number: 073834368

Citation Information:

| ID Number | Citation Standard† | Citation Subsection† | Type | Related Events |
|-----------|--------------------|----------------------|---------|----------------|
| 01001 | 1.201 | A | SERIOUS | N/A |
| 01002 | 1910.178 | P01 | SERIOUS | N/A |

†Refers to "Code of Federal Regulations"

Citation Additional Information:

| ID Number | Issuance Date | Abate Date | Abatement Complete | Contested | Hazardous Substances |
|-----------|---------------|------------|--------------------|-----------|----------------------|
| 01001 | 3/28/92 | 6/05/92 | YES | NO | N/A |
| 01002 | 3/28/92 | 6/15/92 | YES | NO | N/A |

Penalty Information:

| ID Number | Initial Penalty | Current Penalty | Initial Failure to Abate Penalty | Current Failure to Abate Penalty |
|-----------|-----------------|-----------------|----------------------------------|----------------------------------|
| 01001 | 0 | 0 | 0 | 0 |
| 01002 | 0 | 0 | 0 | 0 |
| Totals: | \$ 0 | \$ 0 | \$ 0 | \$ 0 |

Settlement Information:

| ID Number | Final Order Date | Disposition |
|-----------|------------------|------------------------------|
| 01001 | N/A | PETITION TO MODIFY ABATEMENT |
| 01002 | N/A | PETITION TO MODIFY ABATEMENT |

VISTA INFORMATION SOLUTIONS, INC.

Compliance Records Found Under Site Description

| | |
|-------------------|----------------------------------|
| Facility Name | : DEFENSE DISTRIBUTION DEPOT MEM |
| Facility Address | : 2163 AIRWAYS BLVD. |
| Facility City/Zip | : MEMPHIS, TN 38114 |
| Facility County | : NOT REPORTED |
| VISTA # | : 199442997 |

OSHA Record Details**General Information:**

Report Id: 0420100
Activity #: 106965536
Inspector #: R6129-1
SIC: 4225
Secondary SIC:
Owner Type: FEDERAL AGENCY
Unionized: YES

Employee Information:

Number of Employees: 1470
Number of Employees Covered by Inspection: 1470
Lost work Day Injury Rate: N/A
Number of Employees Controlled by Employer: 50000

Inspection Information:

Type: N/A
Category: HEALTH
Scope: COMPREHENSIVE
Class:
Total Inspection Time: 44.5 HOURS
Inspection Opened: 6/06/94
Inspection Closed: 6/09/94
Case Closed: (OPEN)
Total Dollars Remitted: 0.
Local Office Inspection ID:

Inspection Information: Continued

Previous Activity Number: NONE

Citation Information:

| ID Number | Citation Standard† | Citation Subsection† | Type | Related Events |
|-----------|-----------------------|-------------------------|---------|-------------------|
| 01001 | 1910.094 | A03 I | SERIOUS | N/A |
| 01002 | 1910.132 | A | SERIOUS | N/A |
| 01003 | 19101025 | L01 I | SERIOUS | N/A |
| 01004 | 19101030 | D03 III | SERIOUS | N/A |
| 01005 | 19101030 | F02 I | SERIOUS | N/A |
| 01006 | 19101030 | F05 | SERIOUS | N/A |
| 01007 | 1926.058 | H04 II | SERIOUS | N/A |
| 01008 | 1926.058 | K02 I | SERIOUS | N/A |
| 01009A | 1926.058 | M03 | SERIOUS | N/A |
| 01009B | 1926.058 | M04 I | SERIOUS | N/A |
| 02001 | 1910.020 | C01 | OTHER | N/A |
| 02002 | 19101025 | D02 | OTHER | N/A |
| 02003 | 19101030 | F02 IV | OTHER | N/A |
| 02004 | 19101030 | H02 IB | OTHER | N/A |
| 02005 | 19101030 | H02 IC | OTHER | N/A |
| 02006 | 19101030 | H02 ID | OTHER | N/A |

†Refers to "Code of Federal Regulations"

Citation Additional Information:

| ID Number | Issuance Date | Abate Date | Abatement Complete | Contested | Hazardous Substances |
|-----------|------------------|---------------|-----------------------|-----------|-------------------------|
| 01001 | 12/02/94 | 12/10/94 | N/A | NO | N/A |
| 01002 | 12/02/94 | 12/10/94 | N/A | NO | N/A |
| 01003 | 12/02/94 | 1/04/95 | N/A | NO | N/A |
| 01004 | 12/02/94 | 12/10/94 | N/A | NO | N/A |
| 01005 | 12/02/94 | 12/10/94 | N/A | NO | N/A |
| 01006 | 12/02/94 | 1/04/95 | N/A | NO | N/A |
| 01007 | 12/02/94 | 12/10/94 | N/A | NO | N/A |
| 01008 | 12/02/94 | 1/04/95 | N/A | NO | N/A |
| 01009A | 12/02/94 | 12/10/94 | N/A | NO | N/A |
| 01009B | 12/02/94 | 1/04/95 | N/A | NO | N/A |
| 02001 | 12/02/94 | 12/15/94 | N/A | NO | N/A |

195 453

Citation Addition Information Cont.

| ID Number | Issuance Date | Abate Date | Abatement Complete | Contested | Hazardous Substances |
|-----------|------------------|---------------|-----------------------|-----------|-------------------------|
| 02002 | 12/02/94 | 1/04/95 | N/A | NO | N/A |
| 02003 | 12/02/94 | 12/10/94 | N/A | NO | N/A |
| 02004 | 12/02/94 | 12/10/94 | N/A | NO | N/A |
| 02005 | 12/02/94 | 12/10/94 | N/A | NO | N/A |
| 02006 | 12/02/94 | 12/10/94 | N/A | NO | N/A |

Penalty Information:

| ID Number | Initial Penalty | Current Penalty | Initial Failure to Abate Penalty | Current Failure to Abate Penalty |
|-----------|--------------------|--------------------|-------------------------------------|-------------------------------------|
| 01001 | 0 | 0 | 0 | 0 |
| 01002 | 0 | 0 | 0 | 0 |
| 01003 | 0 | 0 | 0 | 0 |
| 01004 | 0 | 0 | 0 | 0 |
| 01005 | 0 | 0 | 0 | 0 |
| 01006 | 0 | 0 | 0 | 0 |
| 01007 | 0 | 0 | 0 | 0 |
| 01008 | 0 | 0 | 0 | 0 |
| 01009A | 0 | 0 | 0 | 0 |
| 01009B | 0 | 0 | 0 | 0 |
| 02001 | 0 | 0 | 0 | 0 |
| 02002 | 0 | 0 | 0 | 0 |
| 02003 | 0 | 0 | 0 | 0 |
| 02004 | 0 | 0 | 0 | 0 |
| 02005 | 0 | 0 | 0 | 0 |
| 02006 | 0 | 0 | 0 | 0 |
| Totals: | \$ 0 | \$ 0 | \$ 0 | \$ 0 |

Settlement Information:

| ID Number | Final Order Date | Disposition |
|-----------|---------------------|-------------|
| 01001 | N/A | N/A |
| 01002 | N/A | N/A |
| 01003 | N/A | N/A |
| 01004 | N/A | N/A |

Settlement Information Cont.

| ID Number | Final | Disposition |
|-----------|------------|-------------|
| | Order Date | |
| 01005 | N/A | N/A |
| 01006 | N/A | N/A |
| 01007 | N/A | N/A |
| 01008 | N/A | N/A |
| 01009A | N/A | N/A |
| 01009B | N/A | N/A |
| 02001 | N/A | N/A |
| 02002 | N/A | N/A |
| 02003 | N/A | N/A |
| 02004 | N/A | N/A |
| 02005 | N/A | N/A |
| 02006 | N/A | N/A |

VISTA INFORMATION SOLUTIONS, INC.

195 455

Compliance Records Found Under Site Description

| | |
|-------------------|-------------------------|
| Facility Name | : DEFENSE DEPOT MEMPHIS |
| Facility Address | : 2163 AIRWAYS BLVD. |
| Facility City/Zip | : MEMPHIS, TN 38114 |
| Facility County | : NOT REPORTED |
| VISTA # | : 199442998 |

OSHA Record Details**General Information:**

Report Id: 0420100
Activity #: 106965551
Inspector #: T7213-C
SIC: 4225

Secondary SIC:

Owner Type: FEDERAL AGENCY
Unionized: YES

Employee Information:

Number of Employees: 1470
Number of Employees Covered by Inspection: 1470
Lost work Day Injury Rate: N/A
Number of Employees Controlled by Employer: 54700

Inspection Information:

Type: N/A
Category: SAFETY
Scope: COMPREHENSIVE
Class:
Total Inspection Time: 136.5 HOURS
Inspection Opened: 6/06/94
Inspection Closed: NO ENTRY
Case Closed: (OPEN)
Total Dollars Remitted: 0
Local Office Inspection ID: 114

Inspection Information: Continued

Previous Activity Number: NONE

Citation Information:

| ID Number | Citation Standard† | Citation Subsection† | Type | Related Events |
|-----------|-----------------------|-------------------------|---------|-------------------|
| 01001 | 1910.022 | A02 | SERIOUS | N/A |
| 01002 | 1910.067 | C02 V | SERIOUS | N/A |
| 01003 | 1910.101 | B | SERIOUS | N/A |
| 01004 | 1910.119 | E01 | SERIOUS | N/A |
| 01005 | 1910.119 | F01 I | SERIOUS | N/A |
| 01006 | 1910.146 | C01 | SERIOUS | N/A |
| 01007 | 1910.146 | F03 | SERIOUS | N/A |
| 01008 | 1910.146 | K03 | SERIOUS | N/A |
| 01009 | 1910.147 | C04 I | SERIOUS | N/A |
| 01010 | 1910.147 | C05 I | SERIOUS | N/A |
| 01011 | 1910.184 | E01 | SERIOUS | N/A |
| 01012 | 1910.184 | E04 | SERIOUS | N/A |
| 01013 | 1910.184 | F05 III | SERIOUS | N/A |
| 01014 | 1910.212 | A01 | SERIOUS | N/A |
| 01015 | 1910.215 | A01 | SERIOUS | N/A |
| 01016 | 1910.215 | D03 | SERIOUS | N/A |
| 01017 | 1910.303 | B01 | SERIOUS | N/A |
| 01018 | 1910.303 | G01 II | SERIOUS | N/A |
| 01019 | 1910.305 | A01 I | SERIOUS | N/A |
| 01020 | 19101200 | G08 | SERIOUS | N/A |
| 02001 | 1910.147 | C06 I | OTHER | N/A |
| 02002 | 1910.215 | A04 | OTHER | N/A |
| 02003 | 1910.242 | B | OTHER | N/A |
| 02004 | 19101200 | F05 I | OTHER | N/A |

†Refers to "Code of Federal Regulations"

Citation Additional Information:

| ID Number | Issuance Date | Abate Date | Abatement Complete | Contested | Hazardous Substances |
|-----------|------------------|---------------|-----------------------|-----------|-------------------------|
| 01001 | 9/20/94 | 10/08/94 | YES | NO | N/A |
| 01002 | 9/20/94 | 9/24/94 | YES | NO | N/A |
| 01003 | 9/20/94 | 9/28/94 | YES | NO | N/A |

195 457

Citation Addition Information Cont.

| ID Number | Issuance | Abate | Abatement | | Hazardous |
|-----------|----------|----------|-----------|-----------|------------|
| | Date | Date | Complete | Contested | Substances |
| 01004 | 9/20/94 | 2/10/95 | N/A | NO | N/A |
| 01005 | 9/20/94 | 2/10/95 | N/A | NO | N/A |
| 01006 | 9/20/94 | 2/10/95 | N/A | NO | N/A |
| 01007 | 9/20/94 | 10/13/94 | YES | NO | N/A |
| 01008 | 9/20/94 | 10/08/94 | YES | NO | N/A |
| 01009 | 9/20/94 | 10/23/94 | YES | NO | N/A |
| 01010 | 9/20/94 | 10/13/94 | YES | NO | N/A |
| 01011 | 9/20/94 | 10/13/94 | YES | NO | N/A |
| 01012 | 9/20/94 | 10/03/94 | YES | NO | N/A |
| 01013 | 9/20/94 | 9/28/94 | YES | NO | N/A |
| 01014 | 9/20/94 | 9/25/94 | YES | NO | N/A |
| 01015 | 9/20/94 | 9/25/94 | YES | NO | N/A |
| 01016 | 9/20/94 | 9/28/94 | YES | NO | N/A |
| 01017 | 9/20/94 | 9/28/94 | YES | NO | N/A |
| 01018 | 9/20/94 | 9/23/94 | YES | NO | N/A |
| 01019 | 9/20/94 | 9/24/94 | YES | NO | N/A |
| 01020 | 9/20/94 | 10/03/94 | YES | NO | N/A |
| 02001 | 9/20/94 | 10/08/94 | YES | NO | N/A |
| 02002 | 9/20/94 | 9/24/94 | YES | NO | N/A |
| 02003 | 9/20/94 | 9/28/94 | YES | NO | N/A |
| 02004 | 9/20/94 | 9/28/94 | YES | NO | N/A |

Penalty Information:

| ID Number | Initial Penalty | Current Penalty | Initial Failure to Abate Penalty | Current Failure to Abate Penalty |
|-----------|--------------------|--------------------|-------------------------------------|-------------------------------------|
| 01001 | 0 | 0 | 0 | 0 |
| 01002 | 0 | 0 | 0 | 0 |
| 01003 | 0 | 0 | 0 | 0 |
| 01004 | 0 | 0 | 0 | 0 |
| 01005 | 0 | 0 | 0 | 0 |
| 01006 | 0 | 0 | 0 | 0 |
| 01007 | 0 | 0 | 0 | 0 |
| 01008 | 0 | 0 | 0 | 0 |
| 01009 | 0 | 0 | 0 | 0 |
| 01010 | 0 | 0 | 0 | 0 |

Penalty Information Cont.

| ID Number | Initial Penalty | Current Penalty | Initial Failure to Abate Penalty | Current Failure to Abate Penalty |
|-----------|--------------------|--------------------|-------------------------------------|-------------------------------------|
| 01011 | 0 | 0 | 0 | 0 |
| 01012 | 0 | 0 | 0 | 0 |
| 01013 | 0 | 0 | 0 | 0 |
| 01014 | 0 | 0 | 0 | 0 |
| 01015 | 0 | 0 | 0 | 0 |
| 01016 | 0 | 0 | 0 | 0 |
| 01017 | 0 | 0 | 0 | 0 |
| 01018 | 0 | 0 | 0 | 0 |
| 01019 | 0 | 0 | 0 | 0 |
| 01020 | 0 | 0 | 0 | 0 |
| 02001 | 0 | 0 | 0 | 0 |
| 02002 | 0 | 0 | 0 | 0 |
| 02003 | 0 | 0 | 0 | 0 |
| 02004 | 0 | 0 | 0 | 0 |
| Totals: | \$ 0 | \$ 0 | \$ 0 | \$ 0 |

Settlement Information:

| ID Number | Final Order Date | Disposition |
|-----------|---------------------|-------------|
| 01001 | N/A | N/A |
| 01002 | N/A | N/A |
| 01003 | N/A | N/A |
| 01004 | N/A | N/A |
| 01005 | N/A | N/A |
| 01006 | N/A | N/A |
| 01007 | N/A | N/A |
| 01008 | N/A | N/A |
| 01009 | N/A | N/A |
| 01010 | N/A | N/A |
| 01011 | N/A | N/A |
| 01012 | N/A | N/A |
| 01013 | N/A | N/A |
| 01014 | N/A | N/A |
| 01015 | N/A | N/A |
| 01016 | N/A | N/A |

Settlement Information Cont.

| ID Number | Final | |
|-----------|------------|-------------|
| | Order Date | Disposition |
| 01017 | N/A | N/A |
| 01018 | N/A | N/A |
| 01019 | N/A | N/A |
| 01020 | N/A | N/A |
| 02001 | N/A | N/A |
| 02002 | N/A | N/A |
| 02003 | N/A | N/A |
| 02004 | N/A | N/A |

VISTA INFORMATION SOLUTIONS, INC.

Compliance Records Found Under Site Description

| | |
|-------------------|------------------------------|
| Facility Name | : OCCUPATIONAL HEALTH CLINIC |
| Facility Address | : 2163 AIRWAYS BLVD. |
| Facility City/Zip | : MEMPHIS, TN 38114 |
| Facility County | : NOT REPORTED |
| VISTA # | : 199442999 |

OSHA Record Details**General Information:**

Report Id: 0420100
Activity #: 106965528
Inspector #: R6129-1
SIC: 8011
Secondary SIC:
Owner Type: FEDERAL AGENCY
Unionized: NO

Employee Information:

Number of Employees: 4
Number of Employees Covered by Inspection: 4
Lost work Day Injury Rate: N/A
Number of Employees Controlled by Employer: 50000

Inspection Information:

Type: N/A
Category: HEALTH
Scope: COMPREHENSIVE
Class:
Total Inspection Time: 32.0 HOURS
Inspection Opened: 6/09/94
Inspection Closed: 6/09/94
Case Closed: (OPEN)
Total Dollars Remitted: 0
Local Office Inspection ID:

Inspection Information: Continued

Previous Activity Number: NONE

Citation Information:

| ID Number | Citation Standard† | Citation Subsection† | Type | Related Events |
|-----------|-----------------------|-------------------------|---------|-------------------|
| 01001A | 19101030 | C01 IIA | SERIOUS | N/A |
| 01001B | 19101030 | C01 IIB | SERIOUS | N/A |
| 01001C | 19101030 | C01 IIB | SERIOUS | N/A |
| 01001D | 19101030 | C01 IV | SERIOUS | N/A |
| 01002 | 19101030 | F05 | SERIOUS | N/A |
| 01003 | 19101030 | G02 I | SERIOUS | N/A |
| 01004 | 19101200 | E01 | SERIOUS | N/A |
| 02001 | 19101030 | D04 I | OTHER | N/A |

†Refers to "Code of Federal Regulations"

Citation Additional Information:

| ID Number | Issuance Date | Abate Date | Abatement Complete | Contested | Hazardous Substances |
|-----------|------------------|---------------|-----------------------|-----------|-------------------------|
| 01001A | 11/18/94 | 12/21/94 | N/A | NO | N/A |
| 01001B | 11/18/94 | 12/21/94 | N/A | NO | N/A |
| 01001C | 11/18/94 | 12/21/94 | N/A | NO | N/A |
| 01001D | 11/18/94 | 12/21/94 | N/A | NO | N/A |
| 01002 | 11/18/94 | 12/21/94 | N/A | NO | N/A |
| 01003 | 11/18/94 | 12/21/94 | N/A | NO | N/A |
| 01004 | 11/18/94 | 12/21/94 | N/A | NO | N/A |
| 02001 | 11/18/94 | 12/21/94 | N/A | NO | N/A |

Penalty Information:

| ID Number | Initial Penalty | Current Penalty | Initial Failure to Abate Penalty | Current Failure to Abate Penalty |
|-----------|--------------------|--------------------|-------------------------------------|-------------------------------------|
| 01001A | 0 | 0 | 0 | 0 |
| 01001B | 0 | 0 | 0 | 0 |
| 01001C | 0 | 0 | 0 | 0 |
| 01001D | 0 | 0 | 0 | 0 |
| 01002 | 0 | 0 | 0 | 0 |
| 01003 | 0 | 0 | 0 | 0 |
| 01004 | 0 | 0 | 0 | 0 |

Penalty Information Cont.

| ID Number | Initial Penalty | Current Penalty | Initial Failure to Abate Penalty | Current Failure to Abate Penalty |
|-----------|--------------------|--------------------|-------------------------------------|-------------------------------------|
| 02001 | 0 | 0 | 0 | 0 |
| Totals: | \$ 0 | \$ 0 | \$ 0 | \$ 0 |

Settlement Information:

| ID Number | Final Order Date | Disposition |
|-----------|---------------------|-------------|
| 01001A | N/A | N/A |
| 01001B | N/A | N/A |
| 01001C | N/A | N/A |
| 01001D | N/A | N/A |
| 01002 | N/A | N/A |
| 01003 | N/A | N/A |
| 01004 | N/A | N/A |
| 02001 | N/A | N/A |

VISTA INFORMATION SOLUTIONS, INC.

Compliance Records Found Under Site Description

| | |
|-------------------|----------------------------------|
| Facility Name | : PENROD PAINTING COMPANY |
| Facility Address | : BUILDING 629 DEFENSE DISTRIBUT |
| Facility City/Zip | : MEMPHIS, TN 38114 |
| Facility County | : NOT REPORTED |
| VISTA # | : 199339814 |

OSHA Record Details**General Information:**

Report Id: 0420100
Activity #: 017397035
Inspector #: T7213-C
SIC: 1721
Secondary SIC:
Owner Type: PRIVATE SECTOR
Unionized: YES

Employee Information:

Number of Employees: 1
Number of Employees Covered by Inspection: 1
Lost work Day Injury Rate: N/A
Number of Employees Controlled by Employer: 14

Inspection Information:

Type: N/A
Category: SAFETY
Scope: COMPREHENSIVE
Class: SAFETY PLANNING GUIDE CONSTRUCTION
INDUSTRY
Total Inspection Time: 14.0 HOURS
Inspection Opened: 8/20/92
Inspection Closed: 8/20/92
Case Closed: (OPEN)
Total Dollars Remitted: 474.50

Inspection Information: Continued

Local Office Inspection ID: 068

Previous Activity Number: NONE

Citation Information:

| ID Number | Citation Standard† | Citation Subsection† | Type | Related Events |
|-----------|-----------------------|-------------------------|---------|-------------------|
| 01001 | 1926.059 | E01 | SERIOUS | N/A |
| 02001 | 1926.102 | A01 | OTHER | N/A |

†Refers to "Code of Federal Regulations"

Citation Additional Information:

| ID Number | Issuance Date | Abate Date | Abatement Complete | Contested | Hazardous Substances |
|-----------|------------------|---------------|-----------------------|-----------|-------------------------|
| 01001 | 9/03/92 | 9/27/92 | YES | NO | N/A |
| 02001 | 9/03/92 | 9/08/92 | YES | NO | N/A |

Penalty Information:

| ID Number | Initial Penalty | Current Penalty | Initial Failure to Abate Penalty | Current Failure to Abate Penalty |
|-----------|--------------------|--------------------|-------------------------------------|-------------------------------------|
| 01001 | 450 | 450 | 0 | 0 |
| 02001 | 0 | 0 | 0 | 0 |
| Totals: | \$ 450 | \$ 450 | \$ 0 | \$ 0 |

Settlement Information:

| ID Number | Final Order Date | Disposition |
|-----------|---------------------|-------------|
| 01001 | N/A | N/A |
| 02001 | N/A | N/A |

VISTA INFORMATION SOLUTIONS, INC.

Spill Records Found Under Site Description

Facility Name : DEPT. DEFENSE
Facility Address : 2163 AIRWAYS BLVD
Facility City/Zip : MEMPHIS, TN
Facility County : SHELBY

VISTA Enhanced
City/Zip : MEMPHIS , 38114
VISTA # : 200084750

ERNS Spill Record Details**ERNS Spill Details**

| | | | |
|--------------------|---|--------------|-----------|
| Spill Date | : 07/09/1990 | Vista ID#: | 200084750 |
| Spill Time | : 02:00 PM | Case Number: | 30190 |
| Spill Location | : 2163 AIRWAYS BLVD | | |
| Spill City | : MEMPHIS | | |
| Spill State | : TN | | |
| Spill Zip | : | | |
| VISTA Enhanced Zip | : 38114 | | |
| Spill County | : SHELBY | | |
| Source/Agency | : | | |
| Discharger Name | : LUSCAVAGE, DAVID | | |
| Discharger Org | : DEPT. DEFENSE | | |
| Discharger Addr | : 2163 AIRWAYS BLVD | | |
| Discharger Phone | : 901-775-4900 | | |
| Discharger County | : | | |
| Discharger City | : MEMPHIS | | |
| Discharger St/Zip | : TN, 38114 | | |
| Material Spilled | : POLYCHLORINATED BIPHENYLS , 00000050.00 , GAL | | |
| Medium Affected | : Land | | |
| Water Way Affected | : SOIL | | |

VISTA INFORMATION SOLUTIONS, INC.

Spill Records Found Under Site Description

Facility Name : DEFENSE LOGISTICS AGENCY
Facility Address : DEFENSE DEPOT MEMPHI
Facility City/Zip : MEMPHIS, TN
Facility County : SHELBY

VISTA Enhanced
City/Zip : MEMPHIS ,
VISTA # : 200075000

ERNS Spill Record Details**ERNS Spill Details**

Spill Date : 03/09/1990 Vista ID#: 200075000
Spill Time : 07:50 AM Case Number: 11560
Spill Location : DEFENSE DEPOT MEMPHIS 2163 AIRWAYS BLVD BUILDING
#873
Spill City : MEMPHIS
Spill State : TN
Spill Zip :
Spill County : SHELBY
Source/Agency :
Discharger Name : CHUMNEY, DANNY
Discharger Org : DEFENSE LOGISTICS AGENCY
Discharger Addr : DEFENSE DEPOT MEMPHIS 2163 AIRWAYS BLVD
Discharger Phone : 901-775-6969
Discharger County :
Discharger City : MEMPHIS
Discharger St/Zip : TN, 38114-5000
Material Spilled : TETRACHLOROETHYLENE , 00000060.00 , GAL
Medium Affected : Land
Water Way Affected : CRUSHED LIMESTONE AND SOIL

APPENDIX 1**Explanation of VISTA's Database Search for this Report:**

Environmental reporting from the EPA and other government agencies is often inconsistent. The same facility or property may be listed many different ways. A facility may have more than one name (e.g., 'Smith's Garage' and 'Exxon Service Station #12') or an inconsistent presentation of the same name. A street may also be known by more than one name (e.g., 'Main Street' is also known as 'Route 9'). An area may have more than one city name. City names also are frequently abbreviated.

To provide you with the most complete search of government records possible, VISTA does extensive computerized matching of records to combine agency data from different sources. VISTA also performs address verification to the Post Office's Zip+4 database to assure the accuracy of the city and zip code information.

The additional search criteria indicated on Page 1 were used to further enhance the search for government records. This report comprises all VISTA records which fit any of the following conditions relative to the subject property:

Search Criteria

- matching street number, street name, city but no zip code:
- matching street number, street name, zip code:
- within 10 street numbers with matching facility name:
- no street number, but matching street name, city or zip and facility name:
- intersection of matching street name, matching city or zip and facility name:
- no street number or street name with matching city or zip and facility name:
- P.O. Box with matching city or zip and facility name:
- matching EPA Identification Number:

Limitations of Information:

All data contained in this report was obtained from the federal and state government environmental databases. VISTA does not warrant the accuracy, timeliness, merchantability, completeness or usefulness of any information furnished, and the subscriber accepts any and all risks resulting from decisions made based solely or in part on VISTA information.

FACILITY RISK PROFILE

FEDERAL AGENCY RECORDS SEARCHED

| Agency | Database | Type of Record | Database Currency |
|--------|----------|---|----------------------|
| US EPA | NPL | Federal Superfund Sites | 05/95 |
| US EPA | CERCLIS | Sites Under Review by US EPA | 09/95 |
| US EPA | NFRAP | NFRAP Sites Under Review by US EPA | 03/95 |
| US EPA | TRIS | Facilities Releasing Toxic Chemicals | 05/95 |
| US EPA | CICIS | Chemical Producers (as of 1981) | 05/86 |
| US EPA | FATES | Manufacturers or Processors of Pesticides | 10/93 |
| US EPA | PCS | Site with NPDES Water Dischg. Permit | 04/94 |
| US EPA | AIRS | Produces Regulated Air Emissions | 09/93 |
| US EPA | RCRIS | Hazardous Waste Handlers | 06/95 |
| US EPA | CORRACTS | RCRA Corrective Action Site | 06/95 |
| US EPA | RAATS | RCRA Administrative Action Site | 04/95 |
| US EPA | PADS | PCB Handler | 10/93 |
| US EPA | FRDS | Operators of a Pub. Drinking Water Sys. | 06/95 |
| US EPA | FINDS | Site on EPA's Facility Index System | 11/94 |
| US EPA | ERNS | Spill Sites | 03/95 |
| US DoL | OSHA | Facilities with OSHA Inspections | 11/94 |
| US EPA | FTTS | FIFRA/TSCA/EPCRA Compliance Sites | 06/95 |
| US EPA | SETS | Superfund Potentially Responsible Parties | 01/95 |
| US EPA | DOCKETS | Sites listed in Civil Enforcement System | 06/95 |

TENNESSEE STATE AGENCY RECORDS SEARCHED

| Agency | Type of Record | Database Currency |
|--|-----------------------------------|----------------------|
| Department of Environment & Conservation | Superfund Promulgated Sites List | 03/95 |
| Department of Environment & Conservation, UST Division | Leaking UST Sites List | 06/95 |
| Department of Health & Environment, Division of Solid Waste Management | Sanitary Landfills List | 10/94 |
| Department of Environment & Conservation, Division of Solid Waste Management | Demolition Landfills in Tennessee | 07/95 |

TENNESSEE State Agency Databases Searched (continued)

| Agency | Type of Record | Database Currency |
|--|-----------------------------------|----------------------|
| Department of Environment & Conservation, Division of Solid Waste Management | Industrial Landfills in Tennessee | 07/95 |
| DEPT HEALTH & ENV | SOLID WASTE SI | 07/95 |
| Department of Health & Environment, Division of Solid Waste Management | Solid Waste Sites Listing | 07/95 |
| Department of Environment & Conservation, UST Division | Underground Storage Tank Report | 07/95 |

TAB

Appendix C

APPENDIX C

SAMPLE INTERVIEW FORM

Name: _____; Organization: _____; Title: _____;
Role/Responsibility: _____; Phone: _____;
Period for which the person would have specific and detailed knowledge of the area or facility in question: _____

- 1) _____
- 2) _____
- 3) _____

| | |
|---------------|----------------|
| Period: _____ | Contact: _____ |
| Period: _____ | Contact: _____ |
| Period: _____ | Contact: _____ |
| Period: _____ | Contact: _____ |
| Period: _____ | Contact: _____ |

[illegible]

FORM 3 - INTERVIEWS (continued)

Page 2 of 8

Installation Code: _____; Area: _____; Parcel: _____; Facility No: _____
 Team Member Name: _____; Date: _____
 Interviewee: _____

USE HISTORY

Use the following questions to complete Table I-2. Include historical perspective on disposal practices and locations, and state amounts of stored chemicals and wastes in the comments column.

Was or is the area/facility in question used as a gasoline station, motor or machine fabrication or repair facility, dry cleaners, photo developing laboratory, plating shop, paint shop, electronics or electro-optical manufacturing or repair facility, medical or dental facility, training area, or as a waste treatment, disposal (such as junkyard or landfill), processing, or recycling facility? Y/N

Was or is the area in question used as a firing and/or bombing range? Y/N

Describe the use history of this area or facility, including the processes for which the area or facility was used.

Describe the process chemicals and petroleum products which have been or are used in this facility or area?

Describe the process chemicals and petroleum products which have been or are stored in this facility or area, and where these materials are stored.

Describe any pesticides, paints, or other chemical containers, or damaged or discarded automotive or industrial batteries which have been or are located, stored, or used in this facility or area.

Describe any other drums, sacks, or cartons containing chemicals located in this facility or area.

Describe the wastes which have been or are generated in this facility or area, and the rates at which these wastes were and are generated.

Describe chemical or petroleum products wastes which have been or are stored in this facility or area, the amounts of stored wastes, and where these wastes are stored.

Does the facility generate used oil? Y/N

Were or are radioactive elements (such as radium, uranium) used in a manufacturing process or contained in machinery/devices which were repaired? Y/N If yes, what are the radioactive elements? Where were/are raw materials stored? Where were/are wastes disposed? Can you provide copies of permits? Y/N

Is or was mercury used or contained in any machinery parts, or electrical, pressure, or vacuum instruments? Y/N

Installation Code: _____; Area: _____; Parcel: _____; Facility No: _____
Team Member Name: _____; Date: _____
Interviewer: _____

JUST AND AUST INVENTORY

Have there been or are there any above ground or under ground storage tanks containing hazardous substances or petroleum products located on the installation/area/facility? Y/N If yes, can you provide a complete list of all tanks, a tank location map, and a copy of all permit(s)? Y/N If yes, Document ID: ; otherwise complete:

TABLE I-3: UST AND AST INVENTORY

[illegible]

1 - PP = petroleum product, HS = hazardous substance.

2 - Include compliance monitoring, if present, and results.

FORM 3 - INTERVIEWS (continued)

Page 5 of 8

Installation Code: _____; Area: _____; Parcel: _____; Facility No: _____
 Team Member Name: _____; Date: _____
 Interviewee: _____

POTENTIAL RELEASES

To the best of your knowledge, have spills, leaks or other releases of hazardous substance or petroleum products occurred in this facility or area? Y/N If yes, What chemical or petroleum product was released?

How much was released? _____; Map ID: _____; Coordinates: _____
 Is or was an investigation and remedial action conducted? Y/N If yes, enter required information into Table I-4.

Are or have liquid or solid wastes or debris including tires, automotive or industrial batteries, ordnance or any other waste materials been Dumped, Buried, Burned, or Discharged (circle one or more) in this area? Y/N/U If yes, What materials?

Period? _____; Map ID: _____; Coordinates: _____
 Is or was an investigation and remedial action conducted? Y/N If yes, enter required information into Table I-4.

Is this area or facility treated with pesticides? Y/N/U Inside? Y/N ; Outside? Y/N ; What types?

Are/have they been applied according to manufacturer's directions? Y/N/U; Application personnel: (Installation personnel, Outside contractor)

WASTE WATER

How is sewage disposed? (Sanitary sewer, Septic system, Treatment system)

Are any liquid wastes, wastewaters, or process cooling waters discharged to the sewer system? Y/N If yes, What are the constituents in the waste or wastewater?

Can you provide testing documentation and permit information? Y/N If yes, Document IDs: _____

Are there any drains or abandoned drains onsite? Y/N If yes, where?: _____

What drains into them? _____

Where do they discharge to? _____

What possible chemicals or petroleum products drain into them? _____

Are there any sumps or dry wells in this area/facility? Y/N If yes, What is discharged into it? _____

When was it installed? _____; Abandoned? Y/N; When? _____; Is or was an investigation and remedial action conducted? Y/N If yes, enter required information into Table I-4

FORM 3 - INTERVIEWS (continued)

Page 6 of 8

Installation Code: _____; Area: _____; Parcel: _____; Facility Number: _____
 Team Member Name: _____; Date: _____
 Interviewee: _____

COMPLIANCE ISSUES

Has an asbestos survey been performed? Y/N If yes, when? _____; Can you provide a copy of the survey? Y/N If yes, Doc. ID: _____; Did the survey identify any ACM? Y/N If yes, where? _____

Was the asbestos removed? Y/N; If yes, when? _____

Has a lead-based paint survey been performed? Y/N If yes, when? _____; Can you provide a copy of the survey? Y/N If yes, Doc. ID: _____; Did the survey identify any lead-based paint onsite? Y/N; Was the paint removed? Y/N; When? _____

Has a radon survey been performed? Y/N If yes, When? _____; Can you provide a copy of the survey? Y/N If yes, Doc. ID: _____; Was radon detected above regulatory levels? Y/N Have mitigation actions been instituted? Y/N; When? _____

Has the potable water supply been tested? Y/N If yes, can you provide the test results? Y/N If yes, Doc. ID: _____

Process Water Supply: (Installation, City, County, Facility well, River, Other: _____);

Are there any PCB-containing equipment other than transformers in this area/facility? Y/N If yes, can you provide a list identifying the status of each and a map locating all identified locations? Y/N If yes, Document ID: _____; If no, Map ID: _____; Coordinates: _____

Are any of these investigation or cleanup sites? Y/N If yes, enter required information into Table I-4

Are there any transformers in the area or facility? Y/N If yes, Can you provide a list and a map of them? Y/N If yes, Document ID: _____; If no, list: Map ID: _____

Pole No. _____; Coordinates: _____

Pole No. _____; Coordinates: _____

Pole No. _____; Coordinates: _____

Have these transformers been inspected and tested? Y/N If yes, Can you provide documentation? Y/N If yes, Document ID: _____; Are any of these investigation or cleanup sites? Y/N If yes, enter required information into Table I-4.

Where is transformer retrofitting conducted? _____; Does the installation have a storage site for PCB wastes? Y/N If yes, Facility: _____; Map ID: _____; Coordinates: _____

Are or have there been air emissions from this installation/facility? Y/N If yes, can you provide a copy of the permit(s) and a complete list of all sources and a map locating the historical and present sources? Y/N If yes, Doc. ID: _____; If no, Describe: _____

Is the facility under a consent order, compliance schedule, or ever received a Notice of Violation for air emissions? Y/N ; If yes, Explain: _____

Describe any past or present investigation or cleanup sites in this area or associated with this facility.

TABLE I-4: INVESTIGATION AND CLEANUP SITES[illegible]

FORM 3 - INTERVIEWS (continued)

Page 8 of 8

Installation Code: _____; Area: _____; Parcel: _____; Facility No: _____
Team Member Name: _____; Date: _____
Interviewee: _____

MISCELLANEOUS

Are there any pipelines located in this area/facility? Y/N If yes, sketch in approximate location(s). Map ID: _____; Coordinates: _____; Size: _____; Construction: _____;
Contents: _____; Pressure tested? Y/N Date of last test: _____; Has it leaked? Y/N If yes, Is or was an investigation and remedial action conducted? Y/N *If yes, enter required information into Table I-4.*

Have there been any demolition activities in this area or in relation to this facility? Y/N If yes,

What was demolished? _____

Where was it located? Map ID: _____; Coordinates: _____

Where was the demolition wastes disposed? Map ID: _____; Coordinates: _____

Use Table I-2 to describe the demolished facility's use history.

Were there associated USTs or ASTs? Y/N/U *If yes, enter required information into Table I-3.*

Is or was an investigation and remedial action conducted? Y/N *If yes, enter required information into Table I-4.*

Are there any pending, threatened, or past litigation, administrative proceedings, or notices from any governmental entity regarding any possible violation of laws or possible liability relating to hazardous substances or petroleum products in, on, or from the area or facility? Y/N Explain: _____

Can you provide documentation? Y/N If yes, Document ID: _____

41p

TAB

Appendix D

APPENDIX D

SAMPLE VISUAL INSPECTION FORM

FORM 4 - VISUAL INSPECTIONS

195 482

Page 1 of 2

Team Member Name: _____; Date: _____
Installation Name: _____; Installation Code: _____
Area: _____; Parcel: _____; Facility No. _____
Facility Name: _____; Map ID: _____; Coordinates: _____
Address: _____
Area/Facility Use: (*Undeveloped, Agriculture, Housing, Recreation, Commercial, Utilities, Light Industrial, Heavy Industrial, Other: _____*); Acreage: _____
Associated IRP Site, SWMU, or OU? Y/N/U; If yes, Site ID(s): _____
Area/Facility contact name/title: _____; Phone: _____

Escort Information:

Name: _____; Organization: _____; Title: _____
Role/Responsibility: _____; Phone: _____
Period for which the person would have specific and detailed knowledge of the area or facility in question: _____

Inspection Information:

Methods used to observe area or facility: (*Air, Auto, Walk, Onsite, Remote: _____*)
Inspection Complete? Y/N If no, explain: _____

Setting:

Adjoining land use (show on map): _____

Roads without outlets? Y/N; Describe use: _____

Wetlands, Streams, Springs/seeps?: Y/N (delineate on map as W, S, SS, respectively);

Surface Cover: (*Vegetation, Manmade, Type: _____*);

Construction:

Structure: (*Metal frame, Wood frame, Concrete*);

Siding (*Metal, Wood, Concrete, PVC, Other _____*);

Flooring Material: (*Wood, Concrete, Ceramic, Vinyl*);

Roofing Material: (*Composition, Sheet Metal, Tar, Tiles, Slate, Cedar Shake, Rubberized, Fiberglass*)

Insulation Material: (*Fiberglass, Foam, Unknown*)

Facility Utilities:

Heating/Ventilation/Cooling (HVAC) System: (*Oil/forced air, Gas/forced air, Electrical, Steam, Hot water*);

HVAC Power: (*Gas, Oil, Coal, Electric*); Backup Power Supply? Y/N;

Boiler Room? Y/N; Exhaust System? Y/N

Use History:

Describe in Table I-2 additional information regarding the use history of this area or facility discovered during the visual inspection that was not already described during interviews.

Page 2 of 2

FORM V1: STORAGE TANKS: ASTs, USTs, Oil/Water Separators

FORM V2: HAZARDOUS SUBSTANCES AND/OR PETROLEUM PRODUCTS USED OR GENERATED, AND THEIR STORAGE AND DISPOSAL (except for USTs and ASTs).

FORM V3: POTENTIAL RELEASES: As indicated by stains, pools, stressed vegetation, odors, burned areas, illicit dumping and other uncontrolled waste.

FORM V4: WASTE WATER: Occurrence and disposition, including storm water, cooling water, waste water from processes, facility floors, oil-water separators, sumps, dry wells, etc.

FORM V5: PIPELINES

FORM V6: TRANSFORMERS: inventory, including capacitors.

FORM V7: PONDS: Including infiltration ponds, waste water treatment reservoirs, etc.

FORM V8: AIR EMISSIONS: Including incinerators, boilers, process, or laboratory exhaust.

FORM V9: POTENTIAL ASBESTOS CONTAINING MATERIALS

FORM V10: WELLS: Including drinking water, process water, agricultural, monitoring, injection, oil, and gas.

[illegible]

TAB

Appendix E

APPENDIX E

ENVIRONMENTAL TITLE HISTORY REPORT



ENVIRONMENTAL DATABASE, INC.

7061 S. University Blvd. • Suite 300
Littleton, Colorado 80122
(303) 794-8389 • 1-800-982-4627 • Fax (800) 615-0049

195 486

Chain Of Title Document Review

Project Number: E9518BZ

Installation: Defense Distribution Depot
Memphis, TN

Report To: Kate Power

1/25/96

From: Paul Lehnertz
Environmental Database, Inc.

Enclosed please find the Chain Of Title report for the Defense Distribution Depot installation.

Paul Lehnertz

195 487

ENVIRONMENTAL TITLE SERVICES, INC.

401 EUCLID AVENUE, SUITE 445
CLEVELAND, OHIO 44114-2402

PHONE: (216) 696-5554

FAX: (216) 861-3433

RE: DEFENSE DISTRIBUTION DEPOT, MEMPHIS, TENNESSEE
SUBJECT PROPERTY ADDRESS

NO: 4094

LIABILITY: \$ 5,000.00

ENVIRONMENTAL TITLE SERVICES, INC.

A OHIO CORPORATION, HEREIN CALLED ("ETS"),
SUBJECT TO THE TERMS AND CONDITIONS OF THE AGREEMENT
FOR THIS ENVIRONMENTAL TITLE TM HISTORY

REPORTS TO

ENVIRONMENTAL DATABASE, INC.

CLIENT

THAT ACCORDING TO ETS' REVIEW OF THE DESIGNATED DOCUMENTS REGARDING THE SUBJECT
PROPERTY AS REQUESTED BY THE CLIENT IN THE AGREEMENT, ONLY THOSE MATTERS SET FORTH
IN THE ANNEXED INVENTORY TO WIT DESCRIBING THE SUBJECT PROPERTY, WERE FOUND AND
ARE HEREIN LISTED.

THIS ENVIRONMENTAL TITLE TM HISTORY REPORT IS NOT VALID AND ETS SHALL HAVE
NO LIABILITY THEREUNDER UNLESS THE APPLICATION, OR A COPY THEREOF, IS
ATTACHED HERETO.

DATE: JANUARY 23, 1996

BY: 

SIGNATURE

ENVIRONMENTAL TITLE SERVICES, INC.

401 EUCLID AVENUE, SUITE 445
CLEVELAND, OHIO 44114

PHONE: (216) 696-6554

FAX: (216) 861-3433

ENVIRONMENTAL TITLETM HISTORY REPORT NO. 4094

SEARCH TYPE

- ☒ GRANTEE/GRANTOR INDEX SEARCH (LIMITED IN SCOPE).
- ☐ FULL DOCUMENT ABSTRACTION AND REVIEW OF DESIGNATED DOCUMENTS.
- ☐ POTENTIALLY RESPONSIBLE PARTY INVESTIGATION..

ETS HEREBY REPORTS:

THAT, ACCORDING TO ETS' TITLE PLANT RECORDS AND/OR THOSE RECORDS MAINTAINED BY COUNTY RECORDER KNOWN AS THE GRANTEE/GRANTOR INDICES FROM JANUARY 1, 1941 TO JANUARY 22, 1996 AND ACCORDING TO SUCH OTHER PUBLICLY AVAILABLE RECORDS OF WHICH INQUIRY HAS BEEN MADE UPON REQUEST IN THE APPLICATION THEREFOR, RELATIVE TO THE SUBJECT PROPERTY AS DESCRIBED BELOW (BUT WITHOUT EXAMINATION OF THOSE COMPANY TITLE PLANT RECORDS MAINTAINED AND INDEXED BY NAME), THOSE MATTERS SET FORTH IN THE ANNEXED INVENTORY TO WIT DESCRIBING THE SUBJECT PROPERTY WERE FOUND AND HEREIN LISTED.

DESCRIPTION: SEE EXHIBIT "A"

SEE CONTINUATION PAGES FOR INVENTORY ITEMS

DatedFiledVol./Pg.

- 1) The United State of America took title
from:

Individuals by Declaration of Taking:

5/22/1941

-Consisting of 571.266 acres.

- 2) The United State of America took title
from:

Individuals by Declaration of Taking:

9/22/1942

-Consisting of 68.83 acres.

Note: No instruments were recorded for these transactions. Total acreage is 640.096 acres.



ENVIRONMENTAL DATABASE, INC.

7061 S. University Blvd. • Suite 300
Littleton, Colorado 80122
(303) 794-8389 • 1-800-982-4627 • Fax (800) 615-0049

195 490

Tax Assessor Parcel Maps

Project Number: E9518BZ

Installation: Defense Distribution Depot
Memphis, TN

Report To: Rick Newill

1/25/96

From: Paul Lehnertz
Environmental Database, Inc.

Enclosed please find the Tax Assessor Parcel Maps for the Defense Distribution Depot installation.



Paul Lehnertz

Blk. 22 Par. 1

No.

111-1

Ward 60

1230

District

Map No.

Owner:

UNITED STATES OF AMERICA (ARMY DEPOT) (1960)

Owner:

5/22/41, 9/22/42, 1/16/56 No Tx

Owner:

Owner:

Owner:

Owner:

Lot

Block

C. Lot

Size

Acres 640.096 (Inc Lots 7 &
Pt 4 Wm M Dunn S/D & Pts 7 & 8
Hunt S/D)

Subdivision

North by Param & Dunn Rds

South by Ball Rd

East by Airways Blvd et al

West by Perry Rd & Botto

Street (Both Sides Dunn Rd)

House No.

COUNTY ASSESSED VALUATION

| | Land | Impr'm'ts | Total | Add | Deduct |
|------|------|-----------|-------|-----|--------|
| 1960 | XXX | XXX | XXX | | |
| 1961 | XXX | XXX | XXX | | |
| 1962 | XXX | XXX | XXX | | |
| 1963 | XXX | XXX | XXX | | |
| 1964 | XXX | XXX | XXX | | |

CITY ASSESSED VALUATION

| | Land | Impr'm'ts | Total | Add | Deduct |
|------|------|-----------|-------|-----|--------|
| 1960 | | | | | |
| 1961 | | | | | |
| 1962 | | | | | |
| 1963 | | | | | |
| 1964 | | | | | |

Building Permit No.

Date

Amount \$

Contractor

Architect

Remarks

Blk. 22 Par. 1

No.

111-1Word 601230

District

Map No.

Owner:

570000
Owner: UNITED STATES OF AMERICA (ARMY DEPOT) (1960)
5/22/41, 9/22/42, 1/16/56 No Tx

Owner:

Owner:

Owner:

Owner:

Owner:

Lot

Block

C. Lot

Size

Acres 640.096 (Inc Lots 7 &
Pt 4 Wm M Dunn S/D & Pts 7 & 8
Hunt S/D)

Subdivision

North by Person & Dunn Rds

South by Bell Rd

East by Airways Blvd. et. al.

West by Perry Rd & Botto.

Street (Both Sides Dunn Rd)

House No.

COUNTY ASSESSED VALUATION

| | Land | Impr'm'ts | Total | Add | Deduct |
|------|------|-----------|-------|-----|--------|
| 1960 | XXX | XXX | XXX | | |
| 1961 | XXX | XXX | XXX | | |
| 1962 | | | | | |
| 1963 | | | | | |
| 1964 | | | | | |

CITY ASSESSED VALUATION

| | Land | Impr'm'ts | Total | Add | Deduct |
|------|------|-----------|-------|-----|--------|
| 1960 | | | | | |
| 1961 | | | | | |
| 1962 | | | | | |
| 1963 | | | | | |
| 1964 | | | | | |

Building Permit No.

Date

Amount \$

Contractor

Architect

Remarks

60 UNITED STATES OF AMERICA (ARMY
A999-1 DEPOT)

68.83 ACRES CALC (1973)
ACRES(640.096)(INC LOTS 7 & PT 4 MM M
DUNN S/D & PTS 7 & 8 HUNT S/D
N S PERSON & DUNN RDS S S BALL RD
E AIRWAYS BLVD ET AL W PERRY RD &
BOTTO (BOTH SIDES DUNN RD)

END

RECORD OF OWNERSHIP

[illegible]

BUILDING FEAMITS

| Improvements | Date | Cost | PAID THRO IMPROVEMENTS | INDEX |
|--------------|------|------|------------------------------|-------|
| | | | WATER MAIN Laid | D-611 |
| | | | " " " | B-897 |
| | | | " " " | B-1 |

LAND INFORMATION

[illegible]

33. SALES INFORMATION

| | | | | | |
|-------------------------------------|-------------------------------------|-------------------------------|--------------------------------|-----------------------|-------------------------|
| Seve | <input type="checkbox"/> Tile Inv. | <input type="checkbox"/> Fir. | <input type="checkbox"/> Walls | 33. SALES INFORMATION | |
| <input type="checkbox"/> Hand-fired | <input type="checkbox"/> Nat. gls | <input type="checkbox"/> Fir. | <input type="checkbox"/> Walls | Date of sale | |
| <input type="checkbox"/> Sticker | <input type="checkbox"/> Pottery | MISCELLANEOUS | | Am't. for water | Am't. for sev. fixtures |
| <input type="checkbox"/> Oil | <input type="checkbox"/> Insulation | 34. RENTAL DATA | | | |
| 10. Air-cond. | 10. Fireplaces; No. | No. Rm's. | Am'ts. | Renters | Services by Landlord |
| PLUMBING | 21. Built-in cabinets | Rentals | | | Elect. |
| Number bathrums | 22. Attic fan | | | | Hot water |
| Number lav. (2 fix. bat.) | 23. Spillproof system | | | | Cutouts |
| | | | | | Exhausts |
| | | | | | Other |

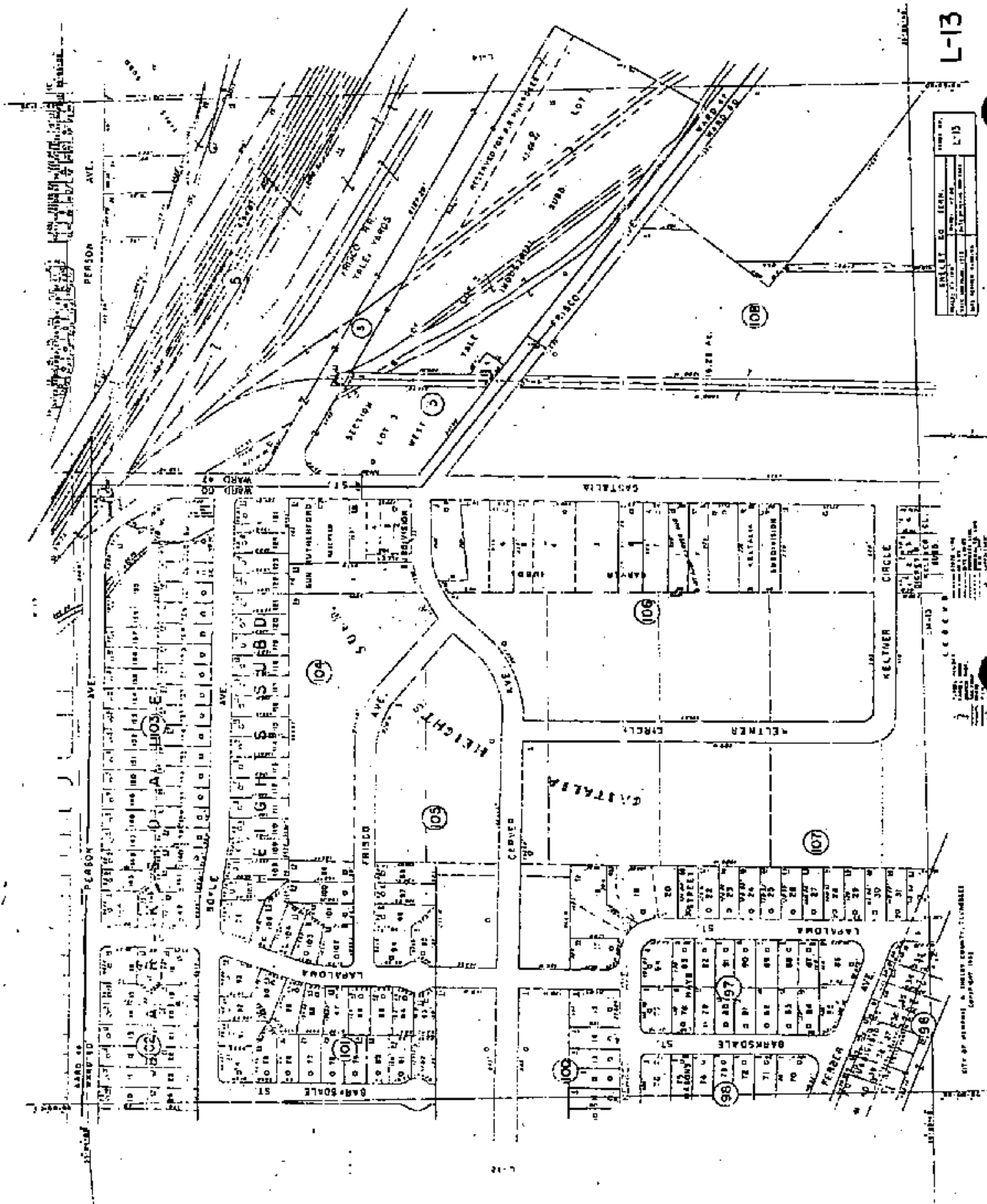
35. ADDITIONAL NOTES

[illegible]

I. FOUNDATION

[illegible]

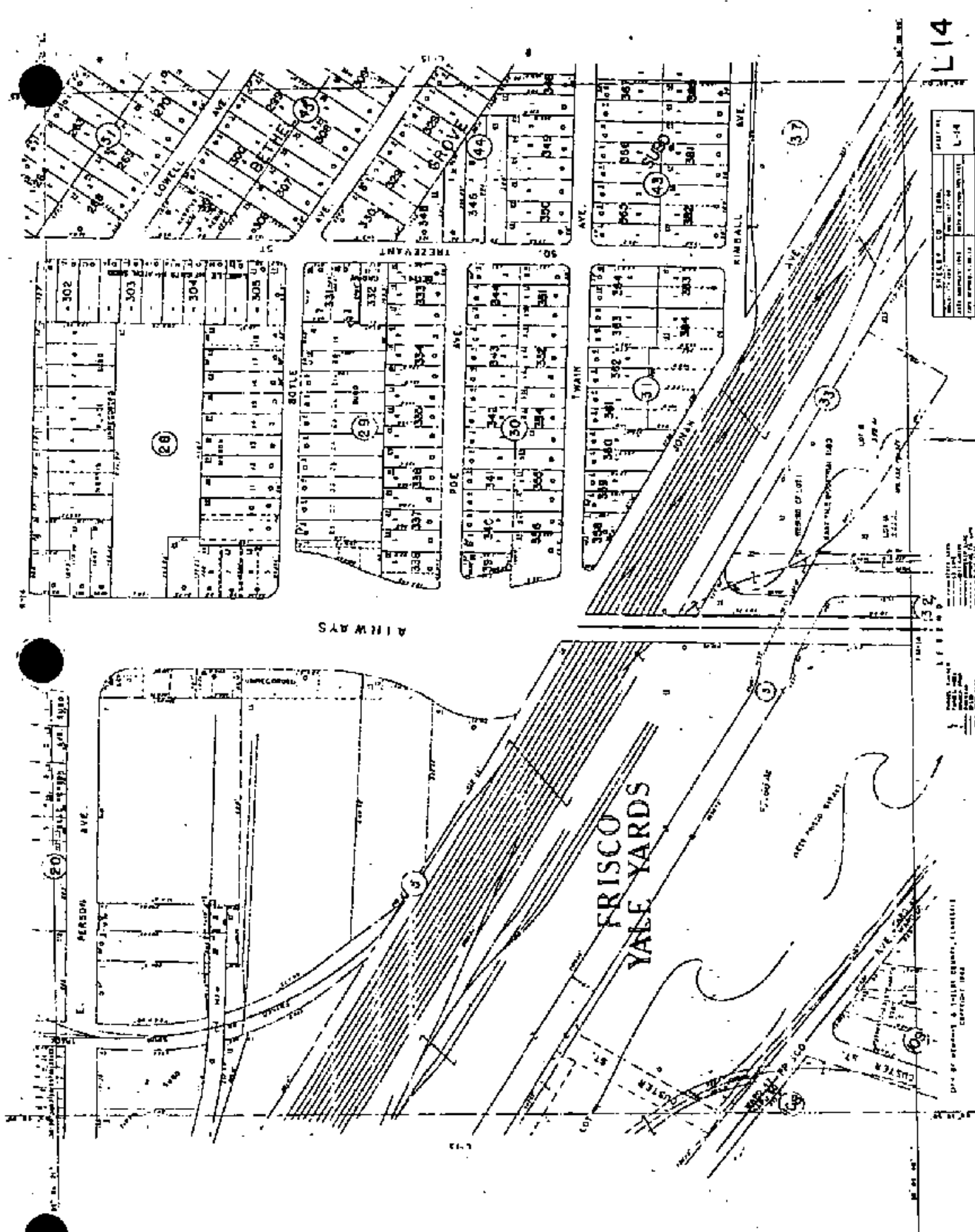


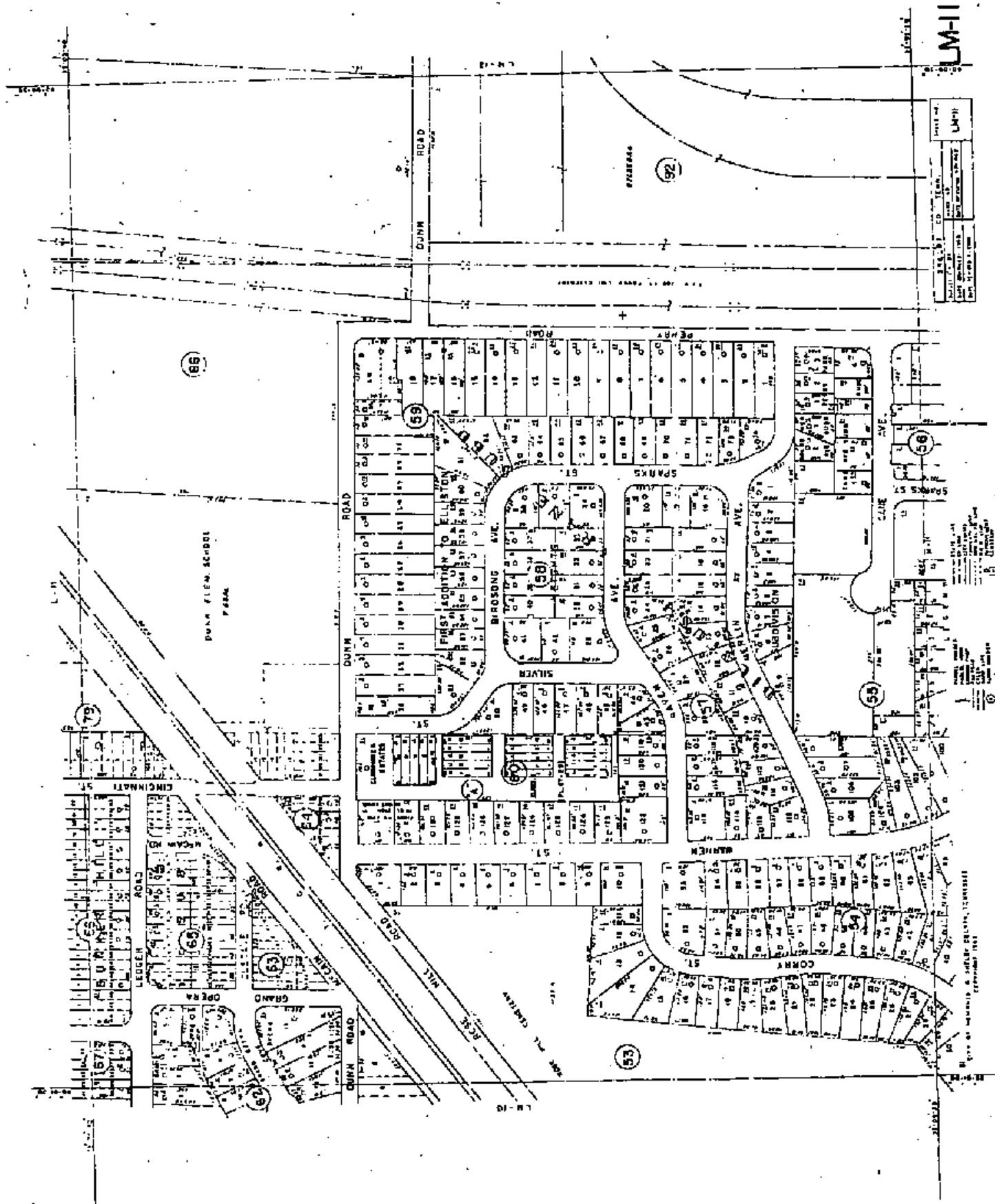


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|----------------|------|
| PLAT NO. | L-13 |
| BOOK NO. | |
| PAGE NO. | |
| DATE OF RECORD | |
| RECORD NO. | |
| RECORD DATE | |
| RECORD NO. | |
| RECORD DATE | |

CITY OF LOS ANGELES
 COUNTY OF LOS ANGELES
 PLAT MAP
 L-13
 1954

L14





STATE ST. DUNN RD. 4500

NAVY ROAD

PREMONT AVE.

BARNSDALE AVE.

99

94

93

92

91

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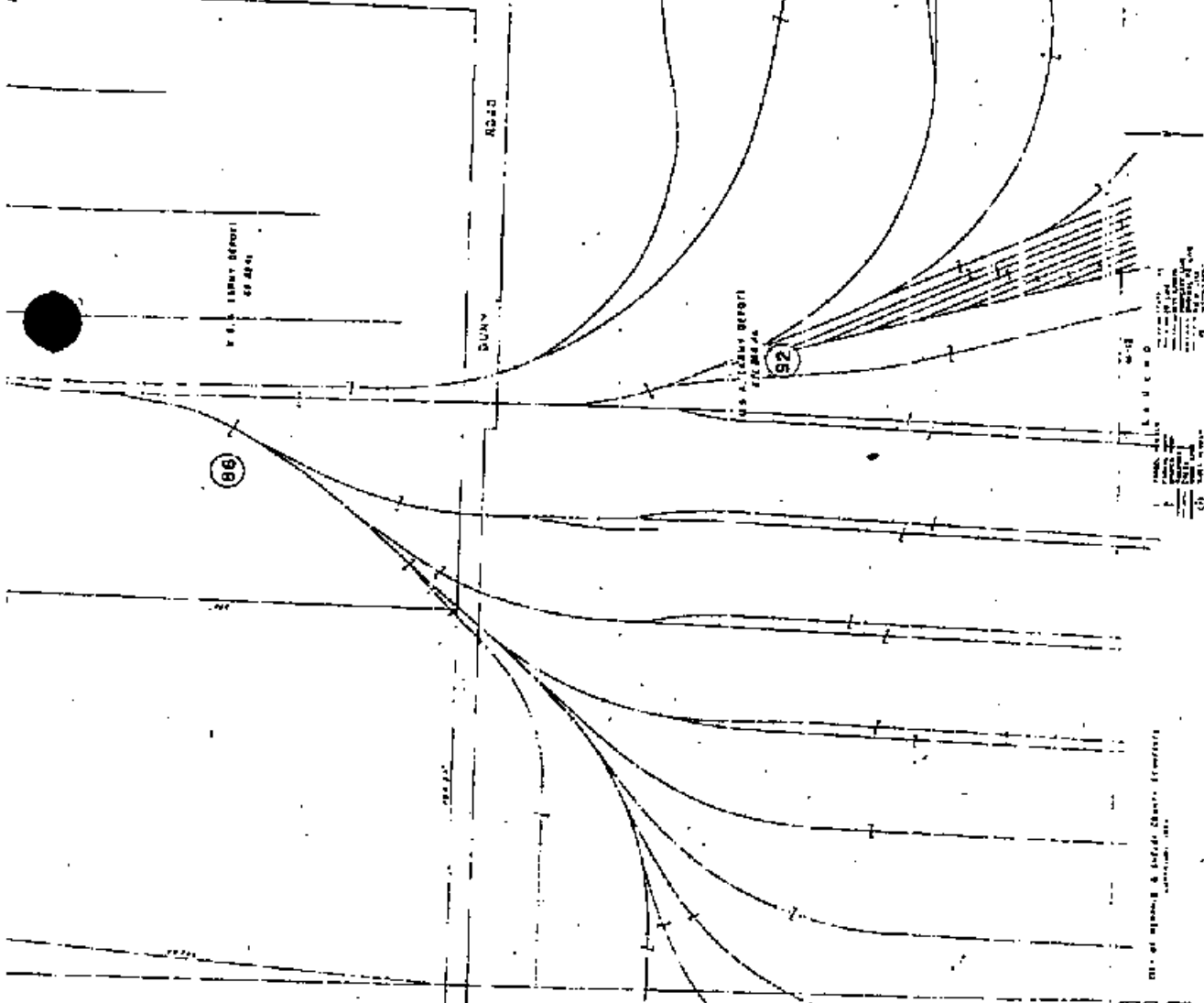
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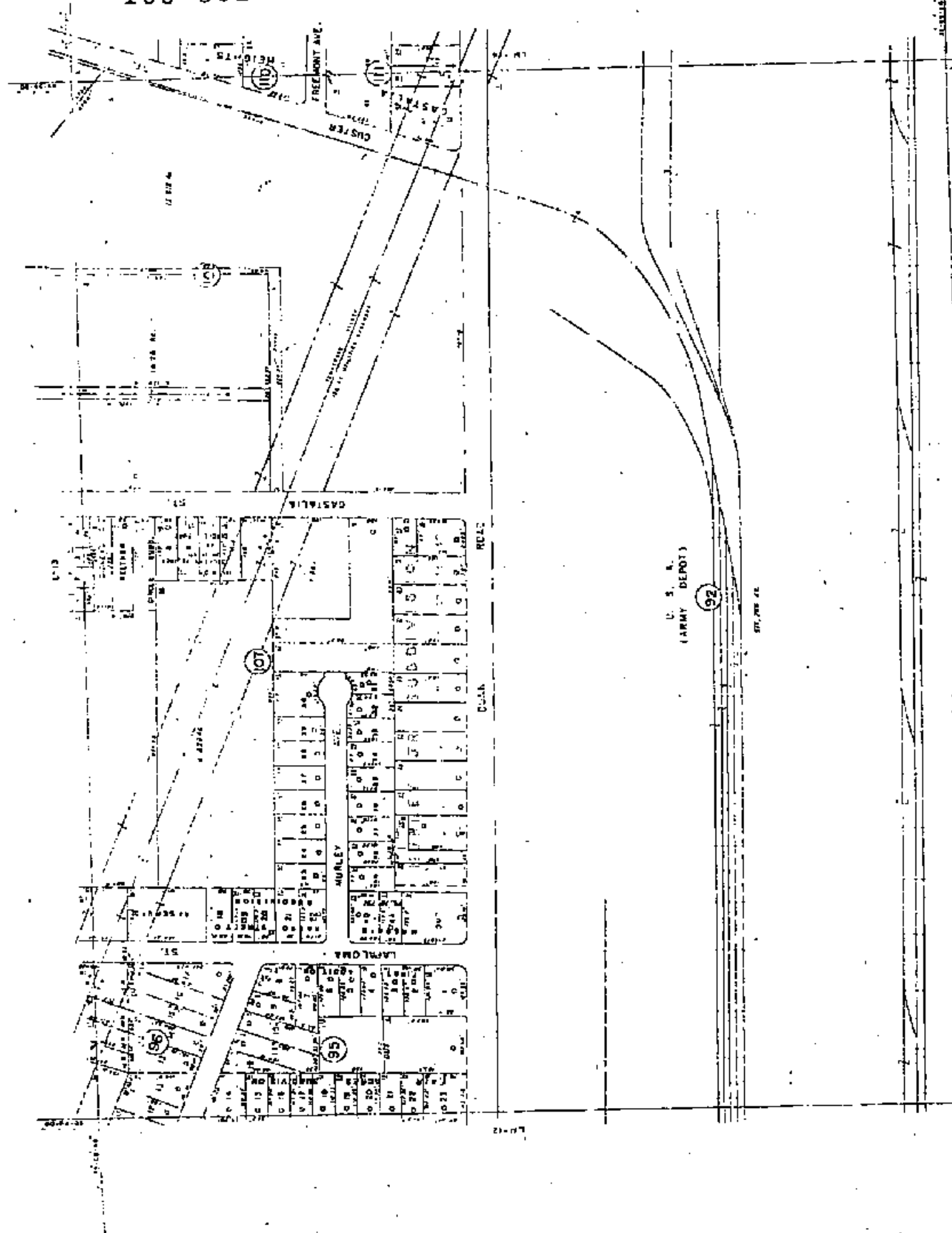


LM-12

| | | | |
|---------|----------|----------|----------|
| DATE | BY | CHKD | APP'D |
| 10/1/50 | J. H. H. | J. H. H. | J. H. H. |
| 10/1/50 | J. H. H. | J. H. H. | J. H. H. |
| 10/1/50 | J. H. H. | J. H. H. | J. H. H. |

U.S. AIR FORCE DEPT. OF DEFENSE

| | | | |
|---------|----------|----------|----------|
| DATE | BY | CHKD | APP'D |
| 10/1/50 | J. H. H. | J. H. H. | J. H. H. |
| 10/1/50 | J. H. H. | J. H. H. | J. H. H. |
| 10/1/50 | J. H. H. | J. H. H. | J. H. H. |

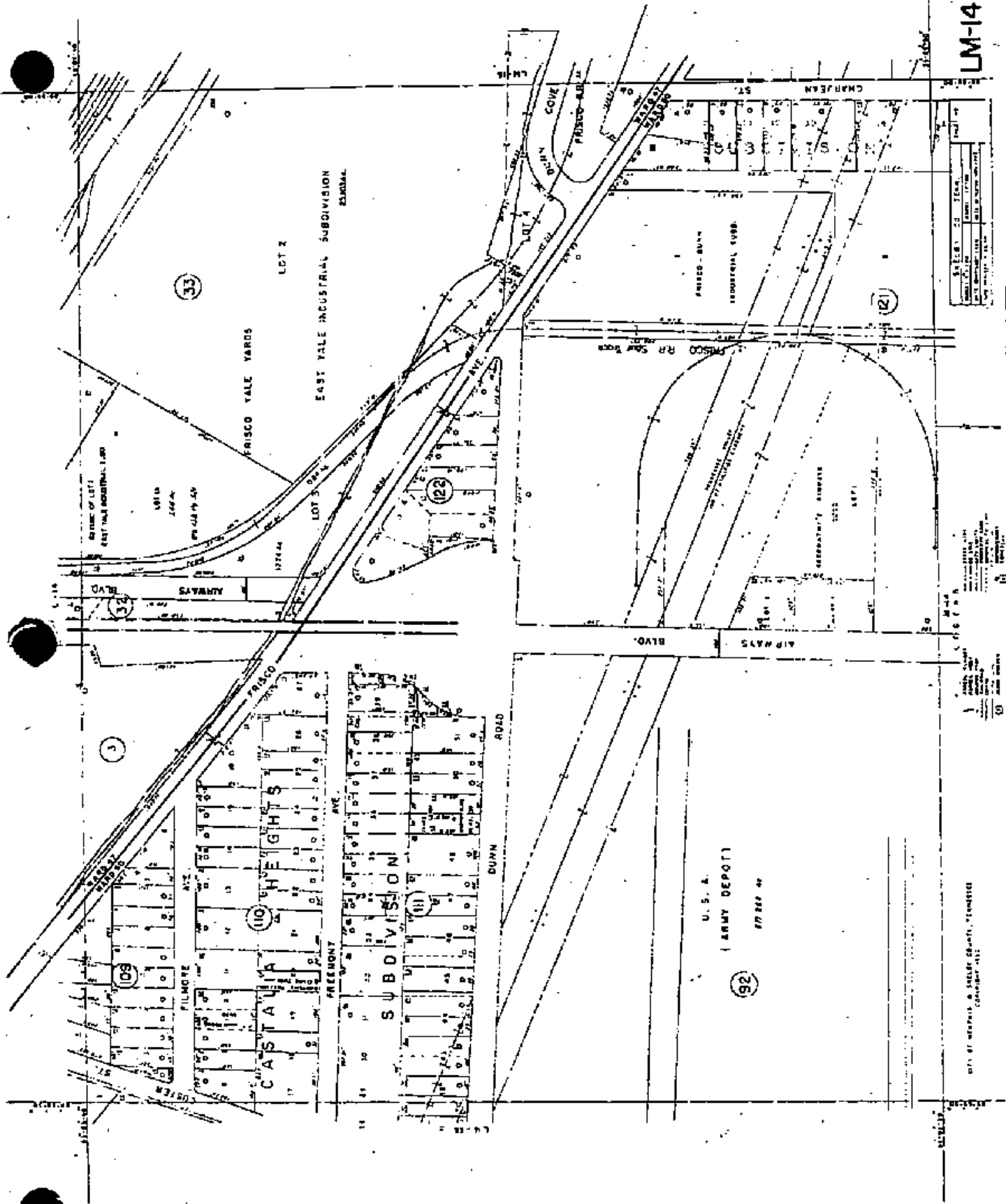


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| TIME | 10:00 | DATE | 10/1/51 |
| TIME | 10:00 | DATE | 10/1/51 |

| | | | |
|------|---------|------|---------|
| DATE | 10/1/51 | BY | CC |
| TIME | 10:00 | DATE | 10/1/51 |
| TIME | 10:00 | DATE | 10/1/51 |
| TIME | 10:00 | DATE | 10/1/51 |

U. S. A. (ARMY DEPOT)

| | | | |
|------|---------|------|---------|
| DATE | 10/1/51 | BY | CC |
| TIME | 10:00 | DATE | 10/1/51 |
| TIME | 10:00 | DATE | 10/1/51 |
| TIME | 10:00 | DATE | 10/1/51 |



M-12

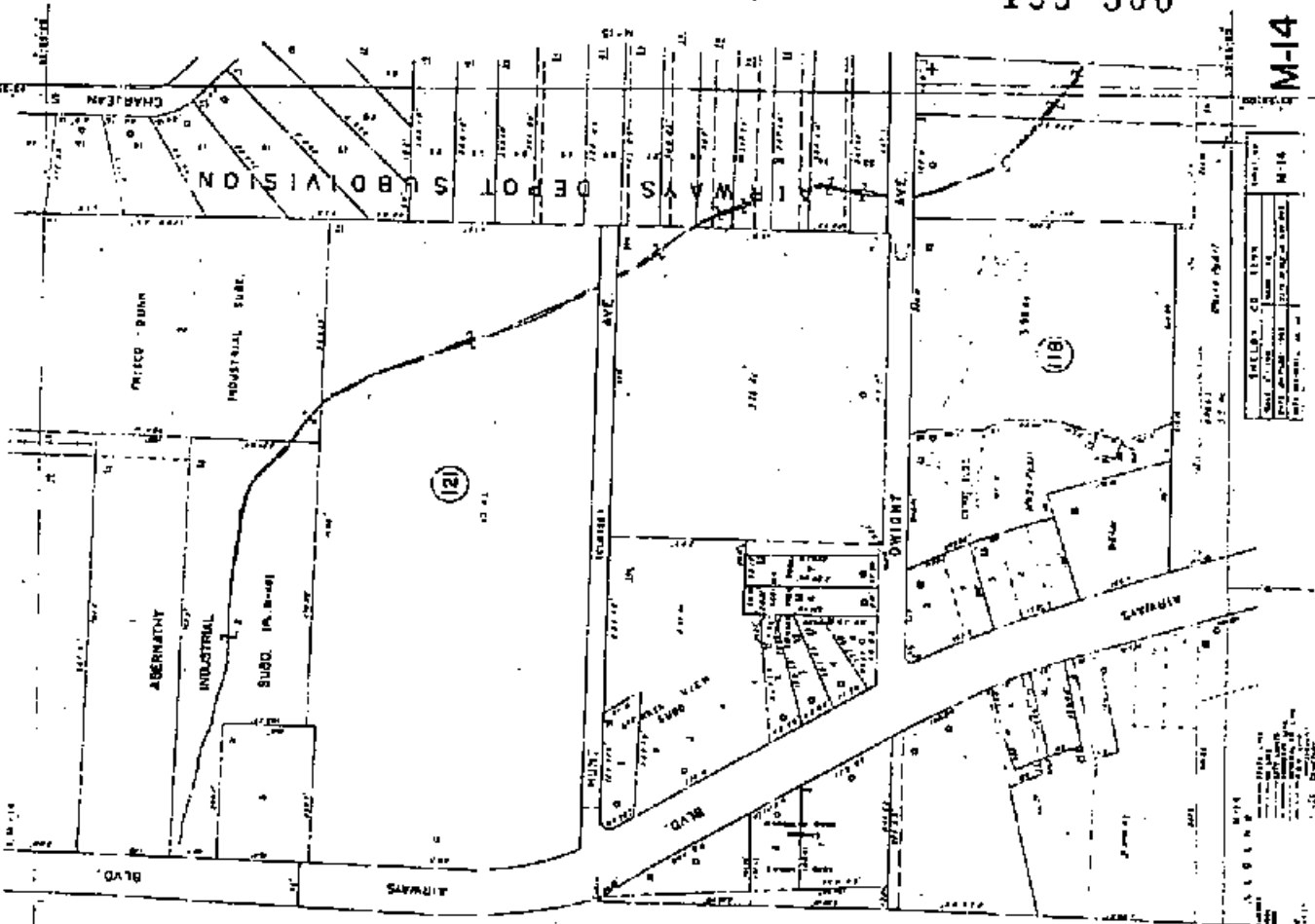
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| REMARKS | 1000 |

U.S.A.
(ARMY DEPOT)

92

1000

| | |
|----------|-------|
| M-12 | |
| DATE | 1952 |
| TIME | 10:00 |
| LOCATION | 1000 |
| REMARKS | 1000 |



U.S.A.
ARMY DEPT.

3-16 PUMP-OUT LOGS

26

THE HIGHWAYS
STATIONED AT "A" AND "B" FROM 1900 TO 1912



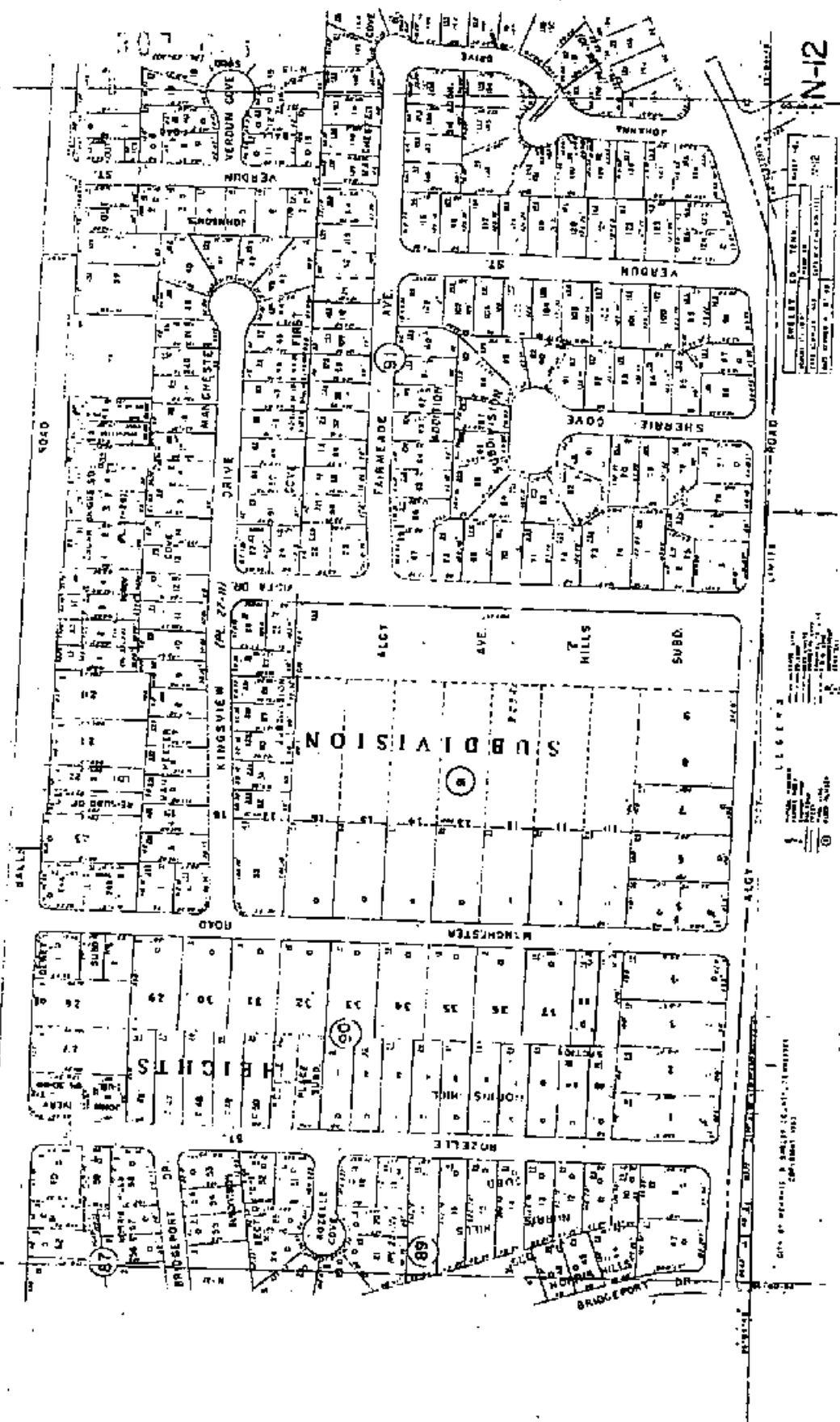
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| BY | 11/11/11 |
| FOR | 11/11/11 |

N-12

92

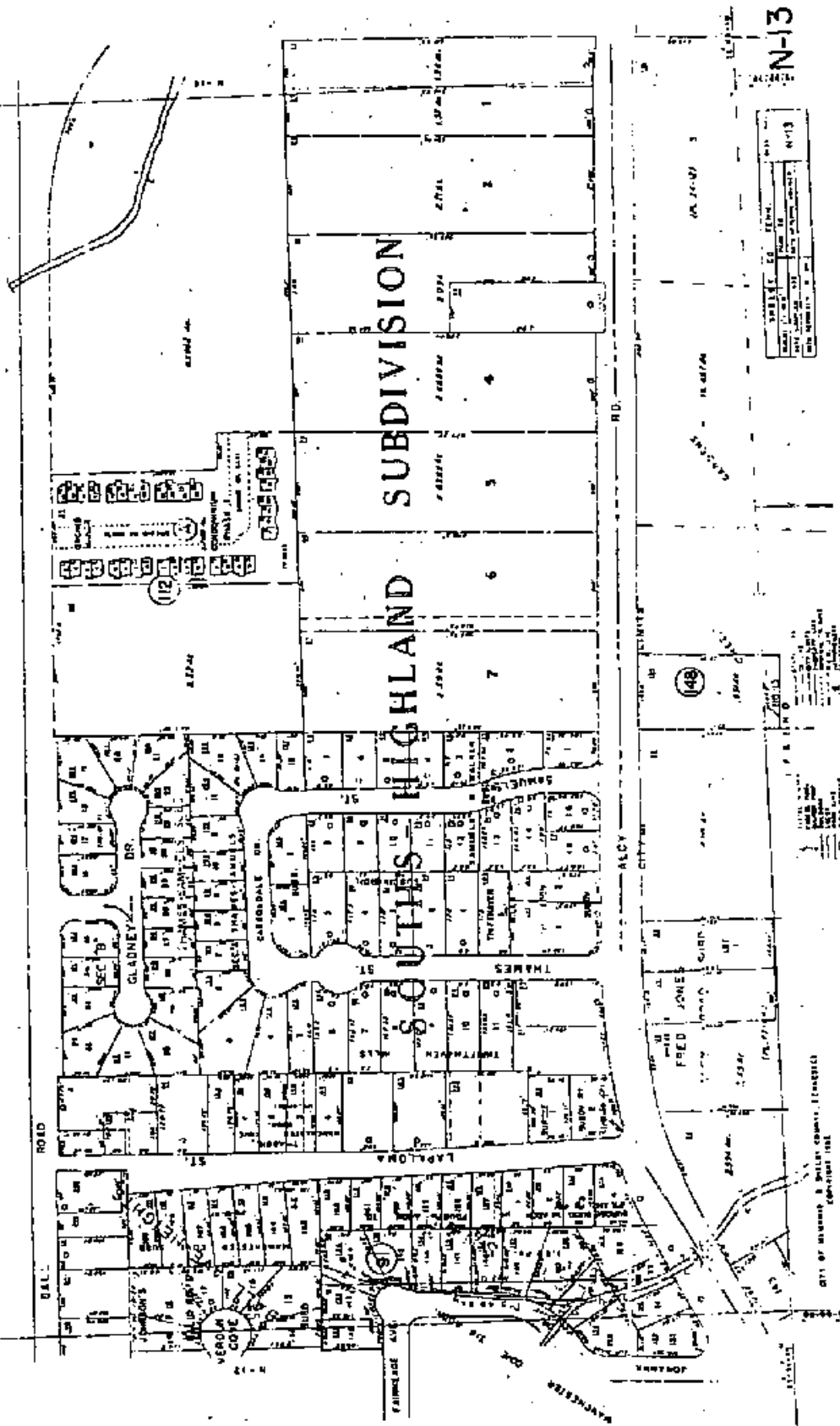
U.S.A.
ARMY DEPOT
177 160 00



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U.S. ARMY DISTRICT

(92)



FINAL PAGE

ADMINISTRATIVE RECORD

FINAL PAGE

FINAL PAGE

ADMINISTRATIVE RECORD

FINAL PAGE