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1.0 INTRODUCTION

XCEL Engineering, Inc. (XCEL), under contract to the U.S. Army Corps of Engineers (USACE) Louisville District, has prepared this Environmental Condition of Property (ECP) Update Report for USACE – Louisville District and the 99th Regional Support Command (RSC) on the Horsham Memorial US Army Reserve (USAR) Center. The original ECP was prepared by CH2M Hill and dated April 2007. The facility is located at 936 Easton Road, Horsham Township, Montgomery County, Pennsylvania, hereafter referred to as the “Site” or “Property”. In support of the ECP Update Report, a visual reconnaissance of the Site was conducted on April 11, 2011. The purpose of the visit was to visually obtain information indicating the environmental condition of the Property and document any changes since the previous ECP.

1.1 PURPOSE OF ENVIRONMENTAL CONDITION OF PROPERTY (ECP) UPDATE REPORT

The USAR is closing the subject USAR Center and plans to dispose of the Property. The primary purpose of the ECP Update Report is to identify any environmental conditions that may have changed materially since the completion of the original ECP Report and to identify any Recognized Environmental Conditions at the Property prior to the scheduled disposal.

1.2 SCOPE OF SERVICES

This ECP Update has been performed for the Horsham Memorial USAR Center (PA046) in accordance with AR 200-1 and ASTM D 6008-96 (2005), Standard Practice for Conducting Environmental Baseline Surveys (for excess properties). Under ASTM D 6008-96 (2005), the following components were completed: interviews, government record reviews, visual inspection of the Property and adjoining properties, and the declaration by the environmental professional responsible for the assessment.

2.0 BACKGROUND

2.1 PHYSICAL DESCRIPTION

The USAR Center is on 7 acres of land with two permanent structures, a 24,527-square-foot administration building and a 3,710-square-foot Organizational Maintenance Shop (OMS). The Site is currently vacant and has been since April 2009, according to the Area Facility Operations Specialist.

Based on a review of available historical resources dating back to 1938, the Property was an undeveloped lot prior to 1959. Construction of the administration building and OMS building was completed in 1959. Prior to ownership by the U.S. Government, the Property was owned by Albert G. Lippincott and family from 1897 to 1921. In 1953, Edith B. Lippincott and Mary L. Buck sold the Property to the U.S. Government.
2.2 PREVIOUS ECP FINDINGS

In April 2007, CH2M Hill under contract to the U.S. Army Corps of Engineers, Louisville District, completed an ECP Report at the Property in accordance with ASTM D 6008. The text portion of the previous ECP Report is included in Appendix A. According to the report, areas of potential environmental concern included:

- A leaking underground gasoline storage tank located on the adjacent JOT Fuel property is undergoing remediation. The release impacted soil and groundwater, and has impacted groundwater on the Property. Contaminants of concern (COC) include benzene, toluene, ethylbenzene, xylenes, cumene, naphthalene, and methyl tertiary butyl ether (MTBE). Monitoring wells along the property boundary indicated MTBE was present above Pennsylvania Act 2 Medium Specific Concentrations prior to implementing remedial actions. A pump and treat and vapor recovery system operated on the JOT Fuel property from 1998 to 1999. Ongoing monitoring indicates COCs along the property boundary are currently non-detect. However, COCs were still detected in other monitoring wells on and downgradient of the JOT Fuel property; therefore, the release has not yet been closed by PADEP.

- During the USACE Baltimore District 1995 site inspection, about 40 square feet of petroleum-stained soil and staining on the pavement adjacent to this area was observed on the south side of the OMS building. The reported staining was not observed during the August 2, 2006, site reconnaissance; however, it is unknown if any remedial activities were conducted in this area.

- A 1994 memorandum documented a spill of about 10 gallons of diesel fuel from a vehicle parked in front of the OMS (north side) on March 11, 1994. The 1994 memorandum noted that after the incident, “pans” and “absorbent booms” were placed around the spill. The Willow Grove NAS/JRB fire department was notified, which dispatched a hazardous spill response team. Contaminated soil was excavated and subsurface soil samples were collected, however the results of the analyses conducted on the samples are unknown (Army, 1994). During the August 2, 2006, site reconnaissance, no staining was present in the parking area that was described in this memorandum.

- Contaminated soil associated with a former 2,000-gallon No. 2 fuel oil leaking UST was remediated and is now closed by PADEP.

CH2M Hill classified the Site as an ECP Category Type 4 property, which, in accordance with ASTM D5746-98 (2002), is defined an area or parcel of real property where release, disposal, or migration, or some combination thereof, of hazardous substances has occurred and all remedial actions necessary to protect human health and the environment have been taken.
3.0 INTERVIEWS

3.1 INTERVIEW WITH SCOTT HENRY, AREA FACILITY OPERATIONS SPECIALIST, 99TH RSC

Mr. Scott Henry is the contract Area Facility Operations Specialist (AFOS) for the 99th RSC. He accompanied XCEL during the site inspection and provided access to all buildings on the Property. Mr. Henry did not provide any helpful documents or information that was material in identifying recognized environmental conditions at the Property.

3.2 INTERVIEW WITH LAUREN MAPLETON, GEOLOGIC SPECIALIST, PADEP

XCEL contacted the Pennsylvania Department of Environmental Protection (PADEP) to determine the regulatory status of the adjoining Leaking Underground Storage Tank (LUST) site known as the JOT Fuel property. According to Lauren Mapleton, remedial actions have been completed at this site and a Completion Report requesting a No Further Action (NFA) was submitted to PADEP in 2009. Ms. Mapleton stated that the report has not yet been reviewed. Groundwater monitoring wells along the property boundary are non-detect for petroleum contamination and groundwater flow direction is towards the northwest, away from the USAR Center, according to Ms. Mapleton.

4.0 REVIEW OF REGULATORY DATABASE INFORMATION

An electronic database search of environmental records for the Property and surrounding sites was prepared by Environmental Data Resources, Inc. (EDR) on April 27, 2011. EDR focused on searching federal, state, and tribal environmental databases and historical and current land uses to identify sites of potential environmental concern with addresses in the areas immediately surrounding the Property. Full documentation of the EDR database review is provided in Appendix B.

Consistent with the 2007 ECP, the Site was identified as a Conditionally Exempt Small Quantity Generator (CESQG). No violations are associated with the USAR Center’s hazardous waste generator permit. Housekeeping at the Site was satisfactory at the time of our site visit and there are no recorded chemical releases or contamination events at the USAR Center. Therefore, inclusion on the database as a CESQG is not a significant environmental concern.

According to the April 2007 ECP, the adjoining JOT Fuel property was identified within the ASTM search radius as having impacted groundwater beneath the Property. XCEL evaluated this property and contacted PADEP to determine the regulatory status of this adjoining LUST site. According Lauren Mapleton, Geologic Specialist for PADEP, remedial actions have been completed at this site and a Completion Report requesting a No Further Action (NFA) was submitted to PADEP in 2009. Ms. Mapleton stated that the report has not yet been reviewed. Groundwater monitoring wells along the property boundary are non-detect for petroleum contamination and groundwater flow direction is towards the northwest, away from the USAR Center, according to Ms. Mapleton. Based on the most recent groundwater monitoring results, current regulatory status, and determined groundwater flow direction away from the Property, XCEL does not suspect this site has significantly impacted the environmental condition of the Property and no
further action is currently recommend. None of the remaining regulated facilities, identified within the ASTM search radius of the Site, exhibited environmental conditions that have a probability to affect the environmental condition of the Property.

5.0 SITE RECONNAISSANCE

A Site reconnaissance was performed to characterize on-site conditions and assess surrounding property uses and natural surface features that may have affected the condition of the Property. Photographs taken as part of the Site reconnaissance are provided in Appendix C. The Site visit was conducted on April 11, 2011 by Michael Dickinson, Hydrogeologist and Senior Environmental Property Assessor for XCEL. The Site was represented by Scott Henry, contract AFOS for the 99th RSC. Weather conditions were sunny and the outside temperature was approximately 80° F. XCEL conducted the site reconnaissance in a systematic manner focusing initially on the Property boundaries and exterior areas, which was surveyed in a grid pattern. XCEL also surveyed all interior spaces of existing improvements, focusing on areas of potential environmental concern (i.e., chemical storage areas, mechanical rooms, etc). In addition, XCEL conducted a reconnaissance of the surrounding roads and readily accessible adjacent properties to identify obvious potential environmental conditions on neighboring properties.

Other than the USAR Center being vacant, no physical changes to the Site or adjoining properties, since the 2007 ECP, were observed during XCEL’s site inspection. No evidence of recognized environmental conditions was observed during the April 11, 2011 visual inspection of the Property.

6.0 FINDINGS SINCE PREVIOUS ECP

This section documents supplemental investigations and/or findings associated with the Property since the April 2007 ECP. Supporting documentation is included in Appendix D.

- ELD Review of April 2007 ECP. ELD reviewed the 2007 ECP prepared by CH2M Hill and provided the following comment: “JOT Fuel release and remediation of soil adjacent to the 2,000-gallon leaking UST are basis for a Category 2 identification. There is no basis for a Category 4 identification because there has not been a release of a hazardous substance above what would cause a de minimis condition. Soil sampling at suspected release locations all showed below screening levels of contaminants”. A copy of the ECP Review Spreadsheet is included in Appendix D.
7.0 CONCLUSIONS

XCEL has conducted this Environmental Condition of Property Update Report in accordance with AR 200-1 and applicable ASTM standards. Under ASTM D 6008-96 (2005), the following components were completed: interviews, government record reviews, visual inspections of the Property and adjoining properties, and the declaration by the environmental professional responsible for the assessment.

This ECP Update Report did not identify any new recognized environmental conditions at the Property during the visual site inspection, regulatory database search, or interviews with personnel knowledgeable about operations at the Property. The previous ECP (April 2007) classified the Site as an ECP Category Type 4 which is defined as an area or parcel of real property where release, disposal, or migration, or some combination thereof, of hazardous substances has occurred and all remedial actions necessary to protect human health and the environment have been taken. XCEL disagrees with this classification and is of the opinion that the Property should be classified as an ECP Category Type 2 property, which, in accordance with ASTM D5746-98 (2002), Standard Classification of Environmental Condition of Property Area Types for Defense Base Closure and Realignment Facilities, is defined as an area or parcel of real property where only the release or disposal of petroleum products or their derivatives has occurred.

8.0 DECLARATION OF ENVIRONMENTAL PROFESSIONAL

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312 and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject Property. A copy of my resume is provided in Appendix E.

_______________________________ 1 JUL 11
Michael P. Dickinson, REPA, CES    Date
Senior Environmental Property Assessor
XCEL Engineering, Inc.
9.0 PRIOR ECP MEETS OR EXCEEDS ASTM REQUIREMENTS

The original ECP (April 2007) was reviewed and found to meet the requirements set forth in §4.6.2 of ASTM D 6008-96(2005) and the narrative discussion and findings of that report are incorporated by reference into this ECP Update as if contained here in its entirety.

Jose E. Cepeda
Colonel, US Army Reserve
Regional Engineer

10.0 POINTS OF CONTACT

Please contact Ms. Laura Dell'Olio (609-562-7661) or Mr. Michael Dickinson (865-481-3200) if you require further information.
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APPENDIX A

PREVIOUS ECP (TEXT ONLY)
FINAL

ENVIRONMENTAL CONDITION OF PROPERTY REPORT

HORSHAM MEMORIAL
U.S. ARMY RESERVE CENTER (PA046)
936 EASTON ROAD, HORSHAM TOWNSHIP
MONTGOMERY COUNTY, PA 19044-3302

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

APRIL 2007
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CERTIFICATION

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

BRUCE L. KISH
Environmental Protection Specialist
99th Regional Readiness Command

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

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

04/11/07
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Executive Summary

CH2M HILL, under contract to the U.S. Army Corps of Engineers, Louisville District, has prepared this Environmental Condition of Property (ECP) report for the Horsham Memorial U.S. Army Reserve (USAR) Center (Facility ID PA046), hereafter referred to as the “Property” or “USAR Center.” The Property is located at 936 Easton Road, Horsham Township, Montgomery County, Pennsylvania, 19044-3302, and encompasses 7 acres.

This ECP Report was conducted in conformance with the Department of Defense’s Base Redevelopment and Realignment Manual, DoD 4165.66-M, Army Regulation 200-1, and the American Society for Testing and Materials Designation D6008-96 (2005), Standard Practice for Conducting Environmental Baseline Surveys.

This ECP Report details the history of the property, including the USAR and any prior tenant uses of the Property and the resulting environmental condition of the Property.

The USAR Center is on 7 acres of land with two permanent structures, a 24,527-square-foot administration building and a 3,710-square-foot Organizational Maintenance Shop (OMS). The site is currently occupied by three units: 23rd SS Area Maintenance and Support Activity (AMSA), 2/228th Aviation Battalion (AV BN), and 367th Military Policy Company (MP CO).

Based on a review of aerial photographs and U.S. Geological Survey topographic maps dating back to 1938, the Property was an undeveloped lot prior to 1959. Construction of the administration building and OMS building was completed in 1959. Prior to ownership by the U.S. Government, the Property was owned by Albert G. Lippincott and family from 1897 to 1921. In 1953, Edith B. Lippincott and Mary L. Buck sold the Property to the U.S. Government.

Areas of potential environmental concern were reviewed and CH2M HILL identified the following issues relating to the environmental condition of the property:

A leaking underground gasoline storage tank located on the adjacent JOT Fuel property is undergoing remediation. The release impacted soil and groundwater, and has impacted groundwater on the Property. Contaminants of concern (COC) include benzene, toluene, ethylbenzene, and xylene; cumene; naphthalene; and methyl tertiary butyl ether (MTBE). Monitoring wells along the property boundary indicated MTBE was present above Pennsylvania Act 2 Medium Specific Concentrations prior to implementing remedial actions. A pump and treat and vapor recovery system operated on the JOT Fuel property from 1998 to 1999. Ongoing monitoring indicates COCs along the property boundary are currently nondetect. However, COCs were still detected in other monitoring wells on and downgradient of the JOT Fuel property; therefore, the release has not yet been closed by PADEP.

- During the USACE Baltimore District 1995 site inspection, about 40 square feet of petroleum-stained soil and staining on the pavement adjacent to this area was observed on the south side of the OMS building. The reported staining was not observed during...
the August 2, 2006, site reconnaissance; however, it is unknown if any remedial activities were conducted in this area.

- About 10 gallons of diesel fuel were spilled in front (north) of the OMS building. Contaminated soil was excavated and subsurface soil samples were collected.

- Contaminated soil associated with a former 2,000-gallon No. 2 fuel oil leaking UST was remediated and is now closed by PADEP.

In accordance with Department of Defense policy defining the classifications (See Sherri Goodman Memorandum dated 21 October 1996), the Property has been classified as Type 4. This classification does not include categorizing the property based on *de minimis* conditions that generally do not present material risk of harm to the public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.
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Abbreviations and Acronyms

The following is a comprehensive list of abbreviations and acronyms that are used throughout this report.

ACM  asbestos-containing material
AIRS  Aerometric Information Retrieval System
ALSI  Analytical Laboratory Services, Inc.
AMSA  Area Maintenance Support Activity
amsl  above mean sea level
AR   Army Regulation
AST  aboveground storage tank
ASTM  American Society for Testing and Materials
AV BN  Aviation Battalion
BRAC  Base Realignment and Closure
BRRM  Base Redevelopment and Realignment Manual
BTEX  benzene, toluene, ethylbenzene, and xylene
CERCLA  Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS  Comprehensive Environmental Response, Compensation, and Liability Act Information System
CFR  Code of Federal Regulations
COC  contaminant of concern
CORRACTS  Resource Conservation and Recovery Act corrective action site
DoD  Department of Defense
DRO  diesel range organics
EA  EA Engineering, Science, and Technology, Inc.
ECP  Environmental Condition of Property
EDR  Environmental Data Resources, Inc.
ERNS  Federal Emergency Response Notification System
FEMA  Federal Emergency Management Agency
GE General Electric
IRP Installation Restoration Program
JRB Joint Reserve Base
kg kilogram
LBP lead-based paint
LUST leaking underground storage tank
MCL maximum contaminant level
MEC munitions and explosives of concern
MEP military equipment parking
MP CO Military Police Company
MSC Medium Specific Concentrations (Pennsylvania Act 2)
MTBE methyl tertiary butyl ether
NAS Naval Air Station
NBC nuclear, biological, and/or chemical
NPL National Priorities List
NRHP National Register of Historic Places
OMS Organizational Maintenance Shop
OWS oil/water separator
PADEP Pennsylvania Department of Environmental Protection
PAH polynuclear aromatic hydrocarbon
PAS preliminary assessment screening
PCB polychlorinated biphenyl
pCi/L picoCuries per liter
PECO Pennsylvania Electric Company
POL petroleum, oil, and lubricant
POV privately owned vehicle
RCRA Resource Conservation and Recovery Act
RCRIS Resource Conservation and Recovery Act Information System
RRC Regional Readiness Command
RSC Regional Support Command
1 Introduction

CH2M HILL, under contract to the U.S. Army Corps of Engineers (USACE) Louisville District Engineering Division was authorized to conduct an Environmental Condition of Property (ECP) report for the Horsham Memorial U.S. Army Reserve (USAR) Center (PA046). The facility is located at 936 Easton Road, Horsham Township, Montgomery County, Pennsylvania (Figure 1, Appendix A), and is hereafter referred to as the Property or USAR Center. CH2M HILL prepared this ECP report under Contract Number W912QR-04-D-0020, Task Order No. 0018, with the Louisville District USACE.

A visual non-intrusive reconnaissance of the Property was conducted on August 2, 2006, in support of the ECP. The reconnaissance purpose was to visually obtain information indicating the likelihood of recognized environmental conditions associated with the Property or adjacent properties.

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

1.1 Purpose of Environmental Condition of Property

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

- Provide the Army with information it may use to make disposal decisions.
- Provide the public with information relative to the environmental condition of the property.
- Assist in community planning for the reuse of Base Realignment and Closure (BRAC) property.
- Assist federal agencies during the property screening process.
- Provide information for prospective buyers.
- Assist prospective new owners in meeting the requirements under U.S. Environmental Protection Agency (USEPA) “All Appropriate Inquiry” regulations.
- Provide information about completed remedial and corrective actions at the property.
• Assist in determining appropriate responsibilities, asset valuation, and liabilities with other parties to a transaction.

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

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

1.2 Scope of Services

This ECP report covers the 7-acre USAR Center located at 936 Easton Road, Horsham Township, Pennsylvania (Figure 1, Appendix A). The Property is bounded by West Moreland Avenue and JOT Fuel, Inc. to the north, State Highway Route 611 to the west, a wooded lot to the east, and office buildings to the south. Hallowell Elementary School and a school bus parking lot and service center (Hatboro Horsham OPR) are located southeast of the Property. The Willow Grove Naval Air Station/Joint Reserve Base (NAS/JRB) is located west of the Property, on the west side of Route 611. All site maps, figures, and aerial photographs referenced herein are provided in Appendix A, while Appendix B contains the photographs taken during the August 2, 2006, site reconnaissance. Appendix C contains the Property warranty deeds and chain of title information, and lease or permit agreements if applicable. Relevant historical environmental documents and reports are provided in Appendix D, while Appendix E contains the Environmental Data Resources, Inc. (EDR) radius search reports commissioned for this effort.

This ECP report classifies the property into one of seven DoD Environmental ECP categories as defined by the DoD policy defining the classifications (see Sherri Goodman Memorandum dated 21 October 1996). The property classification categories are as follows:

• ECP Area Type 1—An area or parcel of real property where no release or disposal of hazardous substances or petroleum products or their derivatives has occurred (including no migration of these substances from adjacent properties).
• ECP Area Type 2—An area or parcel of real property where only the release or disposal of petroleum products or their derivatives has occurred.
• ECP Area Type 3—An area or parcel of real property where release, disposal, or migration, or some combination thereof, of hazardous substances has occurred, but at concentrations that do not require a removal or remedial action.

• ECP Area Type 4—An area or parcel of real property where release, disposal, or migration, or some combination thereof, of hazardous substances has occurred and all remedial actions necessary to protect human health and the environment have been taken.

• ECP Area Type 5—An area or parcel of real property where release, disposal, or migration, or some combination thereof, of hazardous substances has occurred and removal or remedial actions, or both, are underway, but all required actions have not yet been taken.

• ECP Area Type 6—An area or parcel of real property where release, disposal, or migration, or some combination thereof, of hazardous substances has occurred, but required response actions have not yet been initiated.

• ECP Area Type 7—An area or parcel of real property that is unevaluated or requires additional evaluation.
2 Site Location and Physical Description

2.1 Site Location

The USAR Center is located in Montgomery County, on the west side of Horsham Township, Pennsylvania, at 936 Easton Road (Figure 1, Appendix A). The 7-acre parcel is situated on a main thoroughfare (State Highway Route 611) and is surrounded on other Property boundaries by single-family homes, commercial development, an elementary school, and a school bus parking lot and service center. The Willow Grove NAS/JRB is located west of the Property on the west side of Route 611.

2.2 Asset Information

Facility Name and Address: Horsham Memorial USAR Center
936 Easton Road
Horsham Township, Pennsylvania

Property Owner: U.S. Government

Date of Ownership: 1953 (Appendix C)

Current Occupant: 23rd SS Area Maintenance and Support Activity (AMSA), 2/228th Aviation Battalion (AV BN), and 367th Military Police Company (MP CO)

Zoning: C3-Commercial

County, State: Montgomery, Pennsylvania

USGS Quadrangle: Ambler, Pennsylvania

Section/Township/Range: Horsham Township

Latitude/longitude: 40°11′40.2″N; 75°08′14.6″W (EDR, 2006)

Legal Description:
Lot 1, Block 16D, situated and lying in the City of Horsham, Montgomery County, Commonwealth of Pennsylvania (Appendix C)

The USAR Center includes one contiguous 7-acre parcel of land.

2.3 Physical Description

The USAR Center contains two permanent structures and two parking lots. Construction of both the 24,527-square-foot administration building and the 3,710-square-foot Organizational Maintenance Shop (OMS) building was completed in 1959 (Army, 1996). Both structures are on concrete foundations and consist of concrete block walls covered with a brick veneer. A military equipment parking (MEP) area and a privately owned vehicle
(POV) parking area also are contained within the Property. Chain-link security fencing topped with barbed wire encloses the MEP area and OMS building (Figure 2, Appendix A).

Approximately two-thirds of the Property is covered by impervious surface features such as asphalt parking areas, driveways, concrete walkways, and building footprints. The remaining land is grassed with trees along the perimeter of the property.

**Administration Building**

The administration building is an irregular-shaped two-story structure, with a two-story drill hall connected by a one-story enclosed corridor. The building’s interior consists of office space, classrooms, kitchen area, storage, former indoor firing range, and a drill hall. An arms vault is located on the first floor and is used to store rifles and pistols. Based on interviews with 99th Regional Readiness Command (RRC) personnel, ammunition is not stored in the arms vault. The southern portion of the administration building consists of administrative offices, storage, and a former firing range. Additional information regarding the former firing range is presented in Section 6.9. The storage rooms on the first floor contain nuclear, biological, and/or chemical (NBC) monitors that contain small amounts of radioactive materials that are not regulated.

A boiler room is located on the western side of the south wing of the administration building. The boiler room is lower in elevation than the first floor and houses the building’s water heater, three natural gas heating units, and a bypass feeder. An electrical sub-panel also is located in the boiler room. Non-hazardous items were stored in the boiler room during the time of the survey including one pallet of 50-pound bags of salt for deicing pavement (Photograph 1, Appendix B). A reddish-brown and slightly purple staining was noted on the west wall of the boiler room (Photograph 2, Appendix B). There were cut pipes in the east wall (Photograph 1, Appendix B).

The second floor is above the entire eastern half of the building and consists of open office space, offices, classrooms, a copy/computer room, and a former medical area. Based on interviews with 99th RRC personnel, the medical area was used to administer physical examinations during drill weekends. Medical wastes generated during these examinations were properly disposed of by medical personnel immediately following the drill weekend. During the August 2, 2006, site reconnaissance, items such as first aid kits, needles, sharps containers, tongue depressors, small glass vials, and a centrifuge were identified; however, these items were new in the original containers. Outside the administration building, there is a small covered storage area on the north side of the drill hall adjacent to the building transformers.

**Organizational Maintenance Shop and Vehicle Wash Area**

Maintenance activities conducted at the OMS include oil, hydraulic fluid, and antifreeze changes; oil filter replacement; parts cleaning; vehicle washing; engine repair; and brake servicing. As such, this facility is considered a Resource Conservation and Recovery Act (RCRA) small quantity generator (EDR, 2006). The OMS and wash rack area are located southeast of the administration building (Photograph 3, Appendix B). The wash rack is located outside, on the west side of the OMS, and consists of a concrete pad surrounded by a concrete curb. A grate is located in the center of the wash rack and leads to an oil/water
separator (OWS) (Photograph 4, Appendix B). Standing water with a slight sheen was noted inside the grate during a November 2000 survey (Horne Engineering Services, 2001).

The interior of the OMS consists of four vehicle maintenance bays with rows of tool chests, an enclosed parts cleaning device, and varying sizes of containers with new and used motor oil, antifreeze, hydraulic oils, grease, brake fluid, fuel filters, and oil filters. Most of these items were stored on a plastic containment pallet (Photograph 5, Appendix B), with the exception of one container of used motor oil and one container of cleaning solvent that were staged directly on the floor of the OMS (Photograph 6, Appendix B). The enclosed parts cleaning device had a placard that listed the following two chemicals: Break Through (NSN-6850-01-378-0666) and Skysol (NSN-6850-01-381-8024) (Photograph 7, Appendix B).

99th RRC personnel noted that the parts cleaning device is serviced by the Willow Grove NAS/JRB AMSA on an as-needed basis. In addition, 99th RRC personnel were not aware of any permitted 90-day storage area; however, outside the OMS is a small “sea-box” type container about 8 feet high, 6 feet wide, and 15 feet long, which stored used chemicals in 55-gallon drums on top of an elevated spill containment area (Photograph 8, Appendix B).

The rear, southern portion of the OMS consists of office space. No floor drains or trench drains were identified within the OMS building; however, a maintenance pit previously existed in the eastern-most bay. This maintenance pit was abandoned with concrete prior to the August 2, 2006, site reconnaissance. Additional information on this maintenance pit is presented in Section 3. Personnel familiar with the OMS building have no knowledge of the existence of any other current or past floor drains or trench drains in the OMS building.

### 2.4 Site Hydrology and Geology

The USAR Center and Horsham Township are located within the Gettysburg-Newark Lowlands Section of the Piedmont Physiographic Province. This area is characterized by broad gently rolling hills and valleys with elevations ranging from 100 to 1,220 feet above mean sea level (amsl) (Sloto, 2002) (Figure 3, Appendix A). The Property and surrounding area are underlain by the Stockton Formation, which consists of sedimentary rocks of Triassic age. The Stockton Formation is subdivided into three units known as the lower arkose, middle arkose, and upper shale members. The middle arkose member crops out at the Willow Grove NAS/JRB, where it consists of fine- to medium-grained arkosic sandstone interbedded with red siltstone and mudstone. The Stockton Formation is about 6,000 feet thick at the Bucks-Montgomery County border. The middle arkose member has a maximum thickness of 4,200 feet. Bedding in the Stockton Formation at the base generally strikes N 76° E and dips about 7° NW, and vertical fractures are common (Sloto, 2002).

Both Horsham Township and the USAR Center are found on the U.S. Geological Survey (USGS) 7.5-minute Ambler quadrangle map (Figure 3, Appendix A).

#### 2.4.1 Surface Water Characteristics

Figure 3 in Appendix A provides a portion of the 1999 Ambler, Pennsylvania USGS topographic map, which includes the Property. As shown, the Property is situated at an elevation of approximately 369 feet amsl and is on a broad hilltop. The topography is generally flat, with a slight decrease in elevation toward the western and northern portions of the parcel.
Stormwater sheet flows to storm drains located in the MEP area and POV parking area. A storm drain also is located in the grassy area south of the administration building and drains west toward State Highway Route 611. The storm drains then flow north, parallel with State Highway Route 611.

No surface water features are located in the immediate vicinity of the Property. Pennypack Creek is located about 0.5 mile to the east (Figure 3, Appendix A), and the Schuylkill and Delaware rivers are located about 10 miles southwest and 12 miles southeast, respectively. The Schuylkill River discharges into the Delaware River, which ultimately discharges into Delaware Bay and the Atlantic Ocean.

According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map, Community Panel 42091C0284E, the Property is not included in the 100-year floodplain elevation (EDR, 2006; Appendix E).

### 2.4.2 Hydrogeological Characteristics

In general, the USAR Center is underlain by about 5 feet of soil and overburden followed by the Stockton Formation. Soil in the vicinity of the Property is classified as Class B, which has moderate infiltration rates, is moderately and well drained, and has moderately coarse textures (EDR, 2006). The rocks of the Stockton Formation form a complex, heterogeneous aquifer with partially connected zones of high permeability. The aquifer is composed of a series of gently dipping lithologic units with different hydraulic properties, and permeability commonly differs from one lithologic unit to another. Groundwater in the weathered zone moves through intergranular openings that have formed as a result of weathering. In some places, permeability of the weathered zone may be poor because of a high percentage of clay derived from weathering of mudstone and siltstone. Groundwater storage and movement within the unweathered part of the Stockton Formation primarily occurs through a network of interconnecting secondary openings such as fractures, bedding planes, and joints (Sloto, 2002). The groundwater flow direction is generally to the north (EDR, 2006).

The regional aquifer beneath the site, the Stockton Aquifer, has been characterized as consisting of two hydraulic systems, the water table and the artesian aquifers. The water table aquifer extends to a depth of between 75 and 100 feet below the land surface, and it discharges to nearby streams and open bodies of water. Underlying the water table aquifer is the artesian aquifer, the principal potable water source in Horsham Township. The water table aquifer furnishes recharge to the artesian aquifer (Sloto, 2002).

### 2.5 Site Utilities

Based on interviews with 99th RRC personnel, the following information was obtained regarding site utilities.

**Water Service** — The Willow Grove Naval NAS/JRB provides potable water service to the Property.

**Sanitary Sewer System** — The Willow Grove NAS/JRB provides sanitary sewer service to the Property. The primary source of wastewater that is directed to the Willow Grove...
NAS/JRB sewer system includes non-process wastewater (bathrooms, sinks, etc.) and vehicle washing runoff.

Gas and Electric—Pennsylvania Electric Company (PECO) provides natural gas and electric services to the Property.

2.6 Water Supply Wells and Septic Systems

Based on a review of available historical site and agency records and interviews with site personnel, neither a water supply well nor a septic system is or was located at the Property. Based on interviews with 99th RRC personnel, potable water is supplied by the Willow Grove NAS/JRB.

A search of federal and state water well databases identified one water supply source located approximately 0.125 mile south-southeast and upgradient of the Property. The well supplies water to a restaurant, Lee’s Hoagie House (EDR, 2006).

Sanitary sewer lines are connected to the Willow Grove NAS/JRB sewer system. Construction of the Property was completed in 1959, and all buildings on this Property are believed to have been connected to the Willow Grove NAS/JRB sewer system since that time. No information was available on whether a septic system existed or was removed.
3 Site History

3.1 History of Ownership

Land titles for the Property, which are included in the chain of title report in Appendix C, were available dating back to 1897. The report did not identify any leases or environmental liens against the USAR Center property. According to the chain of title report, the United States Government acquired the 7-acre parcel in 1953 from Edith B. Lippincott and Mary L. Buck, who owned the Property since 1897.

3.2 Past Uses and Operations

In 1953, the U.S. Government purchased the 7 acres of land for construction of the USAR Center. Construction of the administration building and OMS building was completed in 1959 (USACE Baltimore, 1995a). Historical information sources suggest that prior to the existence of the USAR Center, the land was used for agricultural purposes or was undeveloped. The Property has served as a reserve and mobilization center for USAR since the U.S. Government acquired the land (Unknown, 2005).

The Property primarily functioned as an administrative, logistical, and educational facility, with limited maintenance of military vehicles occurring in the OMS building. The Property was historically used by reservists for drill activities on various weekends throughout the year. Currently, drill training is conducted throughout the year in periods called Unit Training Assemblies (UTAs). The UTA is a 4-hour training session that is conducted in drill sessions during a one weekend per month format at an offsite location such as Fort Indiantown Gap or Fort Dix. Under this system, four UTAs are conducted monthly and, hence, 48 are conducted annually (Gillan and Hartmann, 1992).

Historically, however, training was conducted in one evening per week sessions in which training was performed at the individual facilities. Proficiency in marksmanship was required as part of the UTA training, and sub-caliber (.22) rifle ranges were an integral instrument for unit training. Comprehensive training including the use of the indoor rifle ranges was performed between the 1950s and post-Vietnam era (Gillan and Hartmann, 1992).

Based on the August 2, 2006, site reconnaissance and historical records, the OMS building was used to perform limited maintenance activities on military equipment. The 2006 EDR report identifies the USAR Center as an RCRA small quantity generator (EDR, 2006). Activities inside the OMS building were limited to preventative maintenance checks, including checking vehicle fluids such as motor oil, water, and antifreeze, and light maintenance activities. Any equipment requiring heavier maintenance was sent to an AMSA shop located at the Willow Grove NAS/JRB (USACE Baltimore, 1995a).

At the time of the August 2, 2006, site reconnaissance, the OMS building contained two wheeled military vehicles. Three 55-gallon (one plastic, two metal) drums containing used
motor oil and antifreeze, and five 5-gallon containers with used motor oil and hydraulic oil were staged on a containment pallet (Photograph 5, Appendix B). One plastic container with used motor oil and one plastic container labeled cleaning solvent were stored directly on the floor of the OMS (Photograph 6, Appendix B). Two metal trash cans for nonhazardous waste also were present in the OMS. An enclosed parts-cleaning device was being used in the OMS at the time of the August 2, 2006, site reconnaissance and had a placard that listed the following two chemicals: Break Through (NSN-6850-01-378-0666) and Skysol (NSN-6850-01-381-8024) (Photograph 7, Appendix B). 99th RRC personnel noted that the parts cleaning device is serviced by the Willow Grove NAS/JRB AMSA on an as-needed basis.

A large section of patched concrete was present at the last bay on the northwest side of the OMS building. 99th RRC personnel identified this as a former maintenance pit. The former OMS maintenance pit often collected fluids during maintenance activities. The fluids were more than likely petroleum, but often antifreeze and cleaning solvents used in the cleaning of vehicle components. The pit was not intended to receive significant volumes of fluids, and cracks in the pit floor or wall over extended periods of time could result in a release. The condition of the pit before closure was not available. Furthermore, there was no evidence of a release in the readily available information, and any releases that might have occurred are likely to have been de minimis quantities. Site inspection activities related to the closure of the OMS maintenance pit were performed, and this maintenance pit was closed; however, closure documentation was not available for this ECP report (99th RSC, 1996).

The rear, southern portion of the OMS consisted of office space. No floor drains or trench drains were identified within the OMS building. Personnel familiar with the OMS building have no knowledge of the existence of current or past floor drains or trench drains in the OMS building.

99th RRC personnel were not aware of any permitted 90-day storage area; however, outside the OMS is a small “sea-box” type container about 8 feet high, 6 feet wide, and 15 feet long, which stored used chemicals in 55-gallon drums and used fuel and oil filters on top of an elevated spill containment area (Photograph 8, Appendix B). In addition to the two military vehicles located in the OMS building, several other military vehicles were observed in the MEP area north and south of the OMS building.

Vehicle washing would have historically occurred outside the OMS building on the wash rack. The wash rack is located on the west side of the OMS and consists of a concrete pad surrounded by a concrete curb (Photograph 3, Appendix B). A grate is located in the center of the wash rack and leads to an OWS, which ultimately discharges to the Property’s sewer (Photograph 4, Appendix B). Standing water with a slight sheen was noted inside the grate during the August 2, 2006, site reconnaissance. No storage tanks are associated with the OWS.

Historical aerial photographs and topographic maps were the primary source of information on the past use and operations at the Property. In Appendix A, Figures 4 through 9 provide aerial views of the Property and surrounding areas in 1938, 1942, 1958, 1965, 1992, and 2006. Figures 3 and 10 through 12 provide historical USGS topographic maps of the Property and surrounding areas in 1999, 1952, 1966, and 1983.
The location of the USAR Center appears to be undeveloped in the 1938, 1942, and 1958 aerial photographs (Figures 4 through 6, Appendix A), consisting of mostly trees and underbrush. In the 1938 photo, the surrounding area appears to be farm land and small single-family residences. In the 1942 photograph, the runway for the Willow Grove NAS/JRB is present to the west of the Property, with a few additional single-family residences to the east. In the 1958 photograph, the runway for the Willow Grove NAS/JRB appears to have expanded south, and more single-family residences are present to the west.

In the 1965 aerial photograph (Figure 7, Appendix A), the administration building, OMS, and wash rack are visible; however, it appears as though no military vehicles are present in this photograph. The Hallowell Elementary School is visible to the southeast of the Property, and additional single-family homes appear to exist to the west of the Property.

The 1992 and 2006 aerial photographs (Figures 8 and 9, Appendix A) show the Property close to its current condition. In 1992, it appears that some military vehicles are parked in the vicinity of the OMS, and no stained or distressed areas are visible in this photograph. In 2006, however, some staining appears to be present on the asphalt at the southern portion of the Property. There also appears to be soil (light tan color) on the pavement between the administration building and the OMS building. This may be the location of a former No. 2 heating oil underground storage tank (UST) (see Section 3.4).

In addition to historical aerial photographs, historical USGS topographic maps from 1952, 1966, 1973, and 1983 (Figures 3 and 10 through 12, Appendix A) were evaluated. Review of these maps indicates the same progression of development of the Property and surrounding areas as the historical aerial photographs. The Property first appears in the 1966 map (Figure 11, Appendix A) and is referred to as “Armory.” The 1983 topographic map (Figure 12, Appendix A) shows additional residential streets north and east of the Property. Also in 1983, there appear to be commercial buildings northeast and south of the Property along Valley Drive Road and Route 611.

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

#### 3.3.1 Past Use and Storage of Hazardous Substances

Information related to the past use and storage of hazardous substances at the Property were compiled through review of available site records, search of federal and state environmental databases, and interviews with USAR personnel. Chemicals formerly used and stored at the Property were associated with vehicle and facility maintenance activities and janitorial services. Janitorial chemicals and building maintenance-related products were stored in the designated storage area within the janitorial closet located in the administration building. Vehicle maintenance products, including solvents, paints, acids, and antifreeze, and petroleum, oil, and lubricant (POL) products also were stored within designated areas within the OMS building. Other hazardous substances were stored in the outdoor hazardous material storage shed located north of the OMS building within the MEP area.
3.3.2 Past Disposal and Release of Hazardous Substances

Information related to past disposal and potential release of hazardous substances at the Property was compiled through review of available site records, search of federal and state environmental databases, and interviews with USAR personnel. According to USAR personnel and site records, onsite disposal of hazardous substances has not occurred at the Property. Hazardous waste currently generated by the OMS is transported and disposed of at the Willow Grove NAS/JRB by AMSA. No stained soil was observed during the August 2, 2006, site reconnaissance. One area of stressed vegetation consisting of about 4 square feet of dead grass was observed next to the driveway that accesses Route 611 (Photograph 9, Appendix B); however, this appears to have been caused by vehicle traffic and not the result of a release. Additionally, the MEP area and POV parking area did not show any signs of staining, and no noxious or foul odors were noted during the August 2, 2006, site reconnaissance.

The February 1995 preliminary assessment screening report prepared by the USACE Baltimore District identified a debris storage area, covered with a tarpaulin, on the east side of the OMS building that was used to store hazardous material and contaminated soil. The storage area was within 20 feet of the fence line north of the OMS building. This container was staged in this area to contain paint waste, used paint brushes, and paint thinner. The hazardous material and contaminated soil storage area consisted of a hazardous material storage shed and drums containing diesel-contaminated soil. As a result, four soil borings were advanced at each location (total of eight borings) in 1995. Surface and subsurface soil samples were collected from the soil borings and analyzed for volatile organic compounds (VOCs), total petroleum hydrocarbons-diesel range organics (TPH-DRO), polychlorinated biphenyls (PCBs), and lead. Four of the sample locations had concentrations of TPH-DRO in exceedance of Pennsylvania Department of Environmental Protection (PADEP) Interim Cleanup Standards for Contaminated Soil (EA, 1999).

In 1999, EA Engineering, Science, and Technology, Inc. (EA) was contracted by the USACE Baltimore District to further assess surface and subsurface soils in this area. EA collected surface and subsurface soil samples at 50-foot intervals on both sides of the USAR Center fence and analyzed the soil samples for VOCs, semivolatile organic compounds (SVOCs), pesticides, PCBs, and metals. Results of these soil samples indicate that the following compounds were detected below Pennsylvania Act 2 Medium Specific Concentrations (MSCs):

- **VOCs**—acetone, methylene chloride, and toluene
- **SVOCs**—chrysene, di-n-octyl phthalate, fluoranthene, pyrene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, benzo(a)anthracene, indeno(1,2,3-cd)pyrene, and phenanthrene
- **Pesticides**—aldehyde, endrin ketone, and heptachlor epoxide
- **PCBs**—aroclor 1254 and aroclor 1260
- **Metals**—vanadium

Because these compounds were detected below MSCs, this investigation concluded that no evidence exists to suggest that past site practices at the Property have significantly impacted the quality of soil along the fence line between the Property and Hallowell Elementary.
School (EA, 1999). A PADEP letter, dated October 24, 2000, concurred with the conclusions in the 1999 Fence-Line Soils Investigation Report. PADEP, however, directed the 99th RRC to collect additional surface soil samples and analyze the samples for chlorinated herbicides by USEPA SW846 Method 8151 (PADEP, 2000).

On March 13, 2001, the GeoEnvironmental Engineering Section of the USACE Norfolk District collected 10 additional surface soil samples along the eastern fence line and analyzed the samples for chlorinated herbicides by USEPA SW846 Method 8151. Chlorinated herbicides were not detected above their corresponding detection limit in any of the surface soil samples (USACE, 2001).

In a letter from Bruce Beitler (PADEP) to Colonel John Prizner (USAR), PADEP concurred with the conclusions of the 1999 Fence-Line Soils Investigation Report and the 2001 Analytical Results: Fence-Line Soils Investigation Report. PADEP then removed the Property from the “List of Scheduled Sites” to the “List of Resolved Sites” under the July 4, 1998, Multi-Site Agreement among PADEP and the Military Components (PADEP, 2001).

The 99th Regional Support Command (RSC) Customer Support Team Number 1 documented that an investigation was conducted to assess OMS maintenance pit closure activities. The report states that the OMS pit has been assessed and closed under the Installation Restoration Program (IRP) (99th RSC, 1996).

### 3.4 Past Presence of Bulk Petroleum Storage Tanks

Based on a review of available site records, a search of federal and state environmental databases, and interviews with USAR personnel, two USTs were previously located at the Property. One 2,000-gallon UST that contained No. 2 heating oil was removed on January 21, 1997. The 2,000-gallon tank was located behind the OMS building, on the south side under the grass area between the building and the asphalt parking lot (Engineering Technologies, 1997). A second UST was located behind the administration building, on the east side, just outside the boiler room. The 1999 Fence-Line Soils Investigation Report identifies the location of both USTs, and identifies the administration building UST as having been removed (EA, 1999). During the August 2, 2006, site reconnaissance, 99th RRC personnel confirmed the location of this former UST, and confirmed that it was removed; however, removal documentation was not available for this ECP report. Details on the removal of the 2,000-gallon UST previously located behind the OMS building are presented below.

In August 1993, the 2,000-gallon UST located behind the OMS building failed a tightness test. Prior to removal of the tank, this tightness test provided the only evidence that a leak may have occurred from the tank or piping adjacent to the tank. Removal of the tank began by extracting about 350 gallons of No. 2 fuel oil. The supply and return piping and the vent were removed, inspected for leaks (as was the soil surrounding the lines), and stockpiled onsite. There did not appear to be any visible contamination of the soil stockpile. The tank was inspected for holes or cracks (none were evident) and was loaded and removed by Sensinig Salvage to its recycling facility in Chambersburg, Pennsylvania (Engineering Technologies, 1997).
Four subsurface soil samples were collected from the following locations:

- Directly below the fill connection
- Below the supply line
- Below the centerline of the tank
- Stockpiled soil

These samples yielded results of polynuclear aromatic hydrocarbons (PAHs) in exceedance of PADEP standards. Additional post-excavation samples were collected and analyzed, and did not exceed PADEP standards. Stockpiled soil that was excavated from the tank removal was used with additional “clean stone” to backfill the excavation. Based on the closure report, the final excavation dimensions were about 15 feet by 10 feet by 7 feet deep.

Groundwater was not encountered during UST removal and closure activities; therefore, groundwater is deeper than 7 feet below grade (Engineering Technologies, 1997).

The closure report further states that, because this UST was used to supply fuel oil for space heating, it is unregulated by the federal government and by the Commonwealth of Pennsylvania. The report was submitted to PADEP, and states that it does not serve to fulfill any regulatory requirements (Engineering Technologies, 1997).

Two other reported spills of POL products were identified in the reviewed documentation. Neither POL release was associated with a UST or aboveground storage tank (AST). These releases are discussed below.

A 1994 memorandum documented a spill of about 10 gallons of diesel fuel from a vehicle parked in front of the OMS (north side) on March 11, 1994. The 1994 memorandum noted that after the incident, “pans” and “absorbent booms” were placed around the spill. The Willow Grove NAS/JRB fire department was notified, which dispatched a hazardous spill response team. Contaminated soil was excavated and subsurface soil samples were collected, however the results of the analyses conducted on the samples are unknown (Army, 1994). During the August 2, 2006, site reconnaissance, no staining was present in the parking area that was described in this memorandum.

A preliminary assessment screening report prepared by the USACE Baltimore District in February 1995 identified approximately 40 square feet of petroleum-stained soil on the south side of the OMS building (USACE Baltimore, 1995a). This staining could not be confirmed during the August 2, 2006, site reconnaissance, and no other historical documents available for review discussed this area.

### 3.5 Review of Previous Environmental Reports

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

#### 3.5.1 1996 Installation Restoration Program Horsham Memorial USAR Center

This report was prepared by the 99th RSC Customer Support Team Number 1. It concluded that the OMS pit has been assessed and closed by the IRP.
Information from this report is presented in Sections 3.2, 3.3.2, and 6.4.

3.5.2  **1992 Sampling and Analysis Test Plan for USARC-Rifle Ranges**  
**Germantown, Philadelphia, Horsham, North Penn, Bristol, Reese, Scranton, Marlin Gares, Wilkes-Barre**

This report was prepared by Gillan and Hartmann, Inc., which was contracted to assess the environmental impact of the historical use of indoor rifle ranges at nine USAR centers, including the Horsham Memorial USAR Center. This report also provides historical uses of the USAR centers.

As stated in this report, the Property primarily functioned as an administrative, logistical, and educational facility, with limited maintenance of military vehicles occurring in the OMS building. The Property was historically used by reservists for drill activities on various weekends throughout the year. Currently, drill training is conducted throughout the year during UTA periods. The UTA is a 4-hour training session that is conducted in drill sessions during a one weekend per month format at an offsite location such as Fort Indiantown Gap or Fort Dix. Under this system, four UTAs are conducted monthly and, hence, 48 are conducted annually.

Historically, however, training was conducted in one evening per week sessions in which training was performed at the individual facilities. Proficiency in marksmanship was required as part of the UTA training, and sub-caliber (.22) rifle ranges were an integral instrument for unit training. Comprehensive training including the use of the indoor rifle ranges was performed between the 1950s and post-Vietnam era.

Information from this report is presented in Section 3.2 and 6.9.

3.5.3  **1994 Memorandum, Report on Hazardous Substance Spill**

This one-page memorandum documents the cleanup activities associated with the 10-gallon diesel fuel spill. No follow-up reports are available that document the results of the soil analyses mentioned in this memorandum.

This report stated that after the incident, “pans” and “absorbent booms” were placed around the spill. The Willow Grove NAS/JRB fire department was notified, which dispatched a hazardous spill response team. Contaminated soil was excavated and subsurface soil samples were collected, however the results of the analyses conducted on the samples are unknown (Army, 1994). During the August 2, 2006, site reconnaissance, no staining was present in the parking area that was described in this memorandum.

Information from this report is presented in the Executive Summary and Sections 3.3.2 and 8.2.

3.5.4  **1995 Asbestos Management Compliance, Horsham Memorial USAR Center**

An excerpt from this report noted that in 1991 tiles tested positive for asbestos-containing material (ACM). The report further states that prior to 1991, ACM was removed from the boiler room.
Information from this report is presented in Section 6.5.

3.5.5 1995 Preliminary Assessment Screening Horsham Memorial USAR Center, Horsham, Pennsylvania

In January 1995, the USACE Baltimore District performed a preliminary assessment screening (PAS) of the USAR Center. The purpose of this PAS was to determine recognized environmental conditions and to provide sufficient information to adequately identify the potential environmental contamination liabilities associated with real property acquisition, transfer, or disposal. The PAS identified approximately 40 square feet of petroleum-stained soil on the south side of the OMS building. This staining could not be confirmed during the August 2, 2006, site reconnaissance. This report further concluded that the presence of stained soils and pavement, a potentially leaking underground storage tank (LUST), and a potentially PCB-contaminated transformer were identified, and a Type II site categorization was recommended. As explained in the PAS report, a Type II property has some potential for environmental contamination from past, present, or proposed activities (USACE Baltimore, 1995a).

Information from this report is presented in Sections 3.2, 3.3.2, and 7.5.

3.5.6 1995 Hazardous Waste Management Consultation #37-10565-95 79th Army Reserve Command Pennsylvania

The 79th Army Reserve Command conducted a survey of non-federally owned transformers, federally owned non-PCB transformers, and federally owned PCB transformers at all of the USAR centers in Pennsylvania, including the Horsham Memorial USAR Center. This report concluded that the Property is supported by one large General Electric (GE) pad-mounted transformer and is suspected to contain PCBs. The report further recommends that the PCB transformer be removed and replaced.

Information from this report is presented in Sections 7.6 and 8.

3.5.7 1995 79th Army Reserve Command Cultural Resource Management Plan

This report documents a survey that inventoried properties controlled or leased by the 79th RRC. Historical information, setting and landscape, cultural resources, security, architectural information, and structure descriptions are included for each property. Each site also was assessed for its eligibility to the National Register of Historic Places (NRHP). The report concluded that no historic architectural resources were identified at the Property, and neither of the buildings at the Property was found to meet the criteria for inclusion in the NRHP.

Information from this report is presented in Section 7.6.

3.5.8 1995 Programmatic Natural Resource Management Plan

This report was prepared for the 79th RRC to inventory and manage natural resources found at 79th RRC facilities in central and southeastern Pennsylvania. The report concluded that the USAR Center did not contain any key natural resources, including wetlands, surface water, floodplains, rare species, or the potential for rare species.
Information from this report is provided in Section 7.5.

3.5.9 **1996 Total Facility Assessment Report**

This report documents an assessment of the USAR Center that was conducted by the Fort Indiantown Gap Facilities Engineering Team of Engineer Support Group-East. The report states that the facility is in good repair, and that there have been recent improvements and maintenance performed. Major projects completed include window replacement, a new entryway, and partial carpeting. The report also states that a project has been identified to overlay pavement in the MEP area.

Information from this report is presented in Section 2.3.

3.5.10 **1997 UST Closure Report for Horsham Memorial USAR Center**

This report documents closure activities related to the removal of one 2,000-gallon UST that was used to store No. 2 fuel oil. The report documents analytical results for subsurface soil samples collected from the UST excavation. The closure report states that because this UST was used to supply fuel oil for space heating, it is unregulated by the federal government and by the Commonwealth of Pennsylvania. The report also states that it does not serve to fulfill any regulatory requirements.

Information from this report is presented in the Executive Summary and Sections 3.4, 6.1, 8.1, and 8.2.

3.5.11 **1999 Fence-line Soils Investigation Report, Horsham Memorial USAR Center, Horsham, Pennsylvania**

This report documents surface and subsurface soil sampling activities at the USAR Center. This investigation concluded that no evidence exists to suggest that past site practices at the Property have significantly impacted the quality of soils along the fence line between the Property and Hallowell Elementary School.

Information from this report is presented in the Executive Summary and Sections 3.3.2, 3.4, 6.1, and 6.2.

3.5.12 **2000 Letter from PADEP to USAR RE: Fence-Line Soils Investigation**

This letter was submitted to the 99th RRC based on PADEP’s review of the 1999 Fence-Line Soils Investigation Report. In this letter, PADEP concurs with the conclusions of the 1999 report, however, PADEP recommended collecting additional surface soil samples and analyzing the samples for chlorinated herbicides by USEPA SW846 Method 8151.

Information from this report is presented in the Executive Summary and Sections 3.3.2, 3.4, 6.1, and 6.2.

3.5.13 **2001 Oil/Water Separator Survey Report for 99th RSC Customer Support Team**

Horne Engineering Services, Inc. prepared an OWS evaluation report for numerous USAR sites for the 99th RRC, including the Horsham Memorial USAR Center. As part of the
reporting process, Horne Engineering Services, Inc. was responsible for documenting and locating each OWS located at USAR facilities throughout the 99th RRC. The report states that an OWS is located on the Property within the MEP area, near the southwest corner of the OMS building.

Information from this report is presented in Sections 2.3 and 6.4.

**3.5.14 2001 Analytical Results: Fence-Line Soils Investigation for Herbicide Analysis**

This report documents additional fence line sampling activities that were conducted in response to the 2000 PADEP letter. Ten surface soil samples were collected and analyzed for chlorinated herbicides (USEPA SW846 Method 8151). The analytical results indicate that chlorinated herbicides were not detected above their corresponding detection limits in these samples.

Information from this report is presented in the Executive Summary and Sections 3.3.2, 3.4, 6.1, and 6.2.

**3.5.15 2001 Letter from Bruce D. Beitler (PADEP) to Colonel John Prizner, Jr. (USAR), Re: Horsham Memorial USARC—Site 12 (Fence-line Soils)**

This letter documents PADEP’s approval of both the 1999 Fence-Line Soils Investigation Report and the 2001 Analytical Results: Fence-Line Soils Investigation for Herbicide Analysis, prepared by EA. PADEP concurred that there is no evidence that a release occurred at the USAR Center. PADEP removed the Property from the “List of Scheduled Sites” to the “List of Resolved Sites” under the July 4, 1998, Multi-Site Agreement among PADEP and the Military Components (PADEP, 2001).

This letter is referenced in Sections 3.3.2 and 6.2.

**3.5.16 2002 Hydrogeological Investigation at Site 5, Willow Grove Naval Air Station/Joint Reserve Base**

The USGS prepared this report, and it provides geological and hydrogeological data that are representative of the Horsham Township area. The following text was used to assist in preparing Sections 2.4 and 2.4.2.

The USAR Center and Horsham Township are located within the Gettysburg-Newark Lowlands Section of the Piedmont Physiographic Province. This area is characterized by broad gently rolling hills and valleys with elevations ranging from 100 to 1,220 feet amsl.

The Property and surrounding area are underlain by the Stockton Formation, which consists of sedimentary rocks of Triassic age. The Stockton Formation is subdivided into three units known as the lower arkose, middle arkose, and upper shale members. The middle arkose member crops out at the Willow Grove NAS/JRB, where it consists of fine- to medium-grained arkosic sandstone interbedded with red siltstone and mudstone. The Stockton Formation is about 6,000 feet thick at the Bucks-Montgomery County border. The middle arkose member has a maximum thickness of 4,200 feet. Bedding in the Stockton Formation
at the base generally strikes N 76°E and dips about 7° NW, and vertical fractures are common.

The regional aquifer beneath the site, the Stockton Aquifer, has been characterized as consisting of two hydraulic systems, the water table and the artesian aquifers. The water table aquifer extends to a depth of between 75 and 100 feet below the land surface, and it discharges to nearby streams and open bodies of water. Underlying the water table aquifer is the artesian aquifer, the principal potable water source in Horsham Township. The water table aquifer furnishes recharge to the artesian aquifer.

Information from this report is presented in Sections 2.4 and 2.4.2.

3.5.17 2003 PCB Management Plan
This is a 2003 report by Bay Associates Environmental, Inc. that identifies one of the Property’s transformers (pad-mounted transformer next to the administrative building) as containing PCBs.

The report states that two pad-mounted GE transformers, manufactured in Pittseld, Massachusetts, serial #D276096, are located on the Property, north of the exterior north wall of the administration building. During the August 2, 2006, site reconnaissance, the units appeared to be in good condition, and no evidence of leakage was observed. A document titled PCB Management Plan dated January 2003 identifies one of the USAR Center transformers (pad-mounted transformer next to the administrative building) as containing PCBs.

Information from this report is presented in Sections 6.6 and 8.1.

3.5.18 2003 Range Cleanup—PA046, 99th RRC Horsham Memorial USAR Center, Horsham, Pennsylvania
This report provides documentations on final range closure activities at the USAR Center in 2002. At the time of the 2002 decommissioning, the indoor firing range had not been used in several years, and the firing line, shooter partitions, target retrieval system, bullet trap, and deflector plates had been previously removed. In addition, the acoustical tiles had been removed, and the remaining cinder block walls were repainted. The floor of the firing range was cleaned in October 2002 using a cleaning solution in conjunction with floor scrubbers. Confirmatory wipe samples were collected following decommissioning activities in 2002. Results from these wipe samples indicate that concentrations of lead were below 200 micrograms per square foot, and that the range is safe for reoccupation.

Information from this report is provided in Section 6.9.

3.5.19 2005 BRAC 2005 Implementation Plan, S18 Real Property
The Real Property Action Plan is used to define actions relative to the BRAC recommendation to close the USAR Center. This document provides information on land use, building specifications, tenets, and infrastructure.

Information from this report is provided in Section 2.2 and 3.2.
3.5.20 2005 Asbestos-Containing Material, Lead-Based Paint, and Radon Inspections

This report documents asbestos, LBP, and radon assessments performed at the Property in November 2004. The following text was used from this report in Sections 6.5, 6.7, 6.8, and 8.

A November 15, 2004, asbestos inspection at the Property was conducted by Skelly and Loy, Inc. The inspection included visual and tactile assessments of materials suspected of containing asbestos. During this inspection, 23 samples of materials suspected of containing asbestos were collected from the OMS and administration buildings. Of these 23 samples, four were identified as ACM and one was assessed as friable.

Analytical Laboratory Services, Inc. (ALSI) performed an LBP inspection at the Property on November 15 and 16, 2004. ALSI tested 427 building components throughout each building. Of these 427 components, 326 tested positive for either LBP or lead-containing paint. The majority of the positive samples containing LBP and lead-containing paint were located on the walls, doors, door frames, window sills, window frames, ceilings, and radiators in the administration and OMS buildings. Peeling and chipped paint were noted in most of the rooms in the administrative building and OMS during the August 2, 2006, site reconnaissance. The exterior of the OMS and administration buildings are constructed with a brick veneer, and no chipped or peeling paint was noted on the buildings exteriors.

A site-specific radon survey was conducted between November 15 and 17, 2004, by Skelly and Loy’s radon inspector Luke R. Marsh (Examination ID#20401012003). Passive radon test kits were used to identify and quantify the presence of radon gas. The test kits were placed in randomly selected rooms on the first floors of both the OMS and administration buildings, about 2 feet to 6 feet above the ground (within the normal breathing zone). The average radon level in the administration and OMS buildings were 1.32 picoCuries per liter (pCi/L) and 0.55 pCi/L, respectively.
4 Adjacent Properties

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

4.1 Land Uses

Figure 9 in Appendix A depicts the most recent image of land use surrounding the Property. Land use south of the USAR Center consists of commercial properties including real estate offices and a restaurant. Southeast of the Property is Hallowell Elementary School and Hatboro Horsham OPR. The Hatboro Horsham OPR is downgradient of the Property and consists of a large school bus parking lot and service center. Three USTs are present at the Hatboro Horsham OPR property, including one that contains gasoline, one containing diesel fuel, and one LUST that contains an unknown petroleum product. Further information regarding this property is provided in Section 5.

West of the Property is County right-of-way for a major highway (State Highway Route 611). The highway is undivided with four lanes. The Willow Grove NAS/JRB is directly west of the USAR Center on the west side of the highway. The Willow Grove NAS/JRB has a fuel tank farm, which includes USTs and LUSTs, and is discussed further in Section 5. Based on aerial photographs and USGS 7.5-minute topographic maps, the tank farm is presumed to be within 1.5 miles and downgradient of the Property.

A small wooded area and West Moreland Road, a two-lane residential road, bound the eastern side of the Property. Single-family homes are located east and north of West Moreland Road. Aerial photographs from 1938 through the present (Figures 4 through 9, Appendix A) show the land east of the Property as agricultural land, and over time, increasing numbers of single-family residences have been developed on the former fields.

The property directly north of the USAR Center is a gas station, JOT Fuel, Inc. JOT Fuel is at an equal or higher elevation than the Property, and there are two active USTs containing gasoline and one LUST containing a petroleum product (assumed to be gasoline). Additional information on JOT Fuel is provided in Section 5.

Table 1 summarizes the current adjacent properties and their owners.
**TABLE 1**
List of Properties Adjacent to Horsham Memorial USAR Center, Horsham, Pennsylvania

<table>
<thead>
<tr>
<th>Name/Type of Property</th>
<th>Address</th>
<th>Distance and Direction from Property</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hatboro Horsham OPR</td>
<td>224 Maple Avenue</td>
<td>Approximately 988 feet east-southeast</td>
<td>Lower elevation, LUST</td>
</tr>
<tr>
<td></td>
<td>Horsham Township, PA 19044</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hallowell Elementary School</td>
<td>200 Maple Avenue</td>
<td>Approximately 900 feet southeast</td>
<td>Lower elevation</td>
</tr>
<tr>
<td></td>
<td>Horsham Township, PA 19044</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Willow Grove NAS/JRB</td>
<td>Route 611 (Easton Road)</td>
<td>Approximately 200 feet east</td>
<td>Equal or higher elevation</td>
</tr>
<tr>
<td></td>
<td>Willow Grove, PA 19090</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JOT Fuel</td>
<td>982 Easton Road</td>
<td>Approximately 344 feet north</td>
<td>Equal or Higher elevation, LUST</td>
</tr>
<tr>
<td></td>
<td>Horsham Township, PA 19044</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Studley, Walt—Studley Real Estate Sales</td>
<td>890 Easton Road</td>
<td>Approximately 200 feet south</td>
<td>Equal or higher elevation</td>
</tr>
<tr>
<td></td>
<td>Horsham, PA 19044</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**4.2 Findings**

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

JOT Fuel adjoins the Property to the north, at an equal or higher elevation. There are two active USTs containing gasoline and one LUST containing a petroleum product (assumed to be gasoline). The Hatboro Horsham OPR is south-southeast of the Property and downgradient. The EDR report indicates that three USTs, including one LUST (listed as inactive), are present on this Property. The Willow Grove NAS/JRB has a fuel tank farm that includes USTs and LUSTs. The exact location of the tank farm is unknown; however, based on aerial photographs and USGS 7.5-minute topographic maps, the tank farm is most likely within 1.5 miles and downgradient of the Property. The status of the LUSTs on the Willow Grove NAS/JRB property is unknown (EDR, 2006). Further information regarding these properties and their associated USTs and LUSTs are presented in Section 5.

A search of federal and state water well databases identified one water supply source located approximately 0.125 mile south-southeast and upgradient of the Property. The well supplies water to a restaurant, Lee’s Hoagie House (EDR, 2006).

Based on a review of aerial photographs and USGS topographic maps dating back to 1938, land use at adjacent properties has changed significantly over the years (Figures 4 through 12, Appendix A). The property was open fields used for agricultural purposes in 1938. Development in the area began prior to 1942, based on the 1942 aerial photograph. It appears that development initially started with construction of the Willow Grove NAS/JRB, followed by other residential and commercial development to the north and east. Subsequent aerial photographs, 1955 through 1992, show steadily increasing residential and commercial development of the land surrounding the Property.
5  Review of Regulatory Information

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

The majority of the regulatory information for this ECP was obtained from EDR on July 13, 2006. EDR provides a regulatory database summary that consolidates standard federal, state, local, and tribal environmental record sources based on ASTM D6008-recommended minimum search distances from the Property.

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

5.1  Federal Environmental Records

5.1.1  Federal National Priorities List Sites within 1 Mile

USEPA maintains a record of the nation’s worst uncontrolled or abandoned hazardous waste sites, known as the National Priorities List (NPL). Sites on the NPL undergo long-term remedial action under CERCLA. The USAR Center is not an NPL site, nor were any such sites located within 1 mile of the Property (EDR, 2006).

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

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

The USAR Center is not a CERCLIS site, and there are no CERCLIS sites located within 0.5 mile of the Property (EDR, 2006).

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

RCRA corrective action sites (CORRACTS) represent facilities that have generated or managed hazardous wastes and require corrective action. The USAR Center is not a CORRACTS, nor were any such sites identified within 1 mile of the Property (EDR, 2006).
5.1.4 RCRA Treatment, Storage, and/or Disposal Sites within 0.5 Mile

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

The USAR Center is not an RCRA TSD site, and there are no such sites located within 0.5 mile of the USAR Center (EDR, 2006).

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

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

The USAR Center is listed as an RCRA-registered small quantity generator, RCRA ID Number PAR000502534. No RCRA violations are associated with the USAR Center (EDR, 2006).

One adjacent property owner is an RCRA-registered small quantity generator. Tinius Olsen Testing Machine Co. is located within 0.125 mile of the USAR Center, approximately 118 feet south of the Property. No RCRA violations were noted for this site (EDR, 2006).

No large quantity generators are located within 0.25 mile of the Property (EDR, 2006).

5.1.6 Federal Emergency Response Notification System List

The Federal Emergency Response Notification System (ERNS) List maintains information on reported releases of oil and hazardous substances. The USAR Center is not on this notification list (EDR, 2006).

5.2 State and Local Environmental Records

Most of the information presented in this subsection was obtained from the EDR report. Additional information also was obtained from online database searches of the Commonwealth of Pennsylvania’s Web site (http://www.depweb.state.pa.us/landrecwaste/cwp/). Occasionally, state and local agency personnel were interviewed via telephone to answer questions about any database issues.

5.2.1 State Lists of Hazardous Waste Sites within 1 Mile

The USAR Center is not on the state list of hazardous waste sites. No adjacent properties within 1 mile of the USAR Center were listed as having a hazardous waste site (EDR, 2006).

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

The USAR Center does not have a solid waste landfill, incinerator, or transfer station within the Property boundaries (EDR, 2006). No adjacent properties within 0.5 mile of the USAR Center have a solid waste landfill, incinerator, or transfer station (EDR, 2006).
5.2.3 State-Registered Leaking UST Sites within 0.5 Mile

In addition to information obtained from the EDR report, the PADEP Bureau of Waste Management maintains a comprehensive database of LUST sites. This list represents the confirmed release incidents that have been reported to PADEP since the enactment of the Storage Tank and Spill Prevention Act (Tank Act) in July 1989. Releases from home heating oil tanks, which are not regulated by the Tank Act, are not part of this list. The USAR Center is not listed in the state LUST database (PADEP, Land Recycling Program).

Within 0.5 mile of the USAR Center, however, three LUST sites in various stages of closure were identified. Table 2 summarizes their information relative to the USAR Center and provides the status of their corrective action (EDR, 2006).

A release of both leaded and unleaded gasoline from one LUST was reported in 1995 at the JOT Fuel property. Information from the PADEP Web site (http://www.dep.state.pa.us/efacts/searchresults.asp?varFacilityID=604682&varSearchType=facdet&varSearchSubType=tank) indicates that both soil and groundwater were impacted by the release. A plume consisting of benzene, toluene, ethylbenzene, xylenes (BTEX), cumene, naphthalene, and methyl tertiary butyl ether (MTBE), extends north-northeast along the shared property boundary, and eventually downgradient of the USAR Center (PADEP, 2007). Based on a discussion with PADEP, a treatment system using pump and treat and vapor recovery was in operation from about 1998 to 1999, and 24 monitoring wells were installed on JOT Fuel property and at properties located north, east and west of the JOT property. Of these 24 monitoring wells, three are located close to the shared property boundary between JOT Fuel and the USAR Center. One is located downgradient, north of the release point along the western USAR property boundary, one is directly west from the center of the western USAR property boundary (halfway between Easton Road and W. Moreland Ave.), and the third is located upgradient of the release point, near the southwestern USAR property corner, just north of Easton Road. All three wells had detections of VOCs related to gasoline, including MTBE. The location of the monitoring wells and initial water quality data indicates the USAR Property was impacted by the release. Concentrations of MTBE above Pennsylvania Act 2 MSCs were detected in the downgradient monitoring well right along the USAR property boundary and in the monitoring well approximately 90 feet west of the center of the western USAR Property boundary. The upgradient well had detections of POLs and MTBE below remedial action levels prior to implementation of the pump and treat system.

The most upgradient well installed to investigate the release is located in the JOT parking area approximately 10 feet from the Property boundary, near Easton Road. The downgradient monitoring well is located in a gravel lot along the USAR property boundary. The third well is located approximately 90 feet west of the western USAR property boundary, midway between Easton Road and West Moreland Avenue.

Sampling data collected as part of post pump and treat monitoring indicates the contaminants of concern (COCs) in the upgradient and downgradient monitoring wells along the Property boundary have been non-detect for the last few rounds. Detections of COCs are still present in other monitoring wells, including the well 90 feet directly west of the center of the USAR Property; therefore, PADEP has not yet closed the site.
TABLE 2
Leaking Underground Storage Tank Sites
Near Horsham Memorial USAR Center, Horsham Township, Pennsylvania

<table>
<thead>
<tr>
<th>Company/Site</th>
<th>Address</th>
<th>Distance and Direction from Property</th>
<th>Regulatory Status</th>
<th>Elevation Relative to Property</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOT Fuel</td>
<td>982 Easton Road Horsham Township, PA 19044</td>
<td>Approximately 344 feet north</td>
<td>1 LUST—Interim remedial actions initiated or completed</td>
<td>Equal or Higher</td>
</tr>
<tr>
<td>Hatboro Horsham OPR</td>
<td>224 Maple Avenue Horsham Township, PA 19044</td>
<td>Approximately 988 feet east-southeast</td>
<td>1 LUST—Inactive</td>
<td>Lower</td>
</tr>
<tr>
<td>Horsham Gulf</td>
<td>660 Easton Road Horsham, PA 19044</td>
<td>Approximately 2,623 feet south-southeast</td>
<td>3 LUSTs—Cleanup completed at two LUSTs, interim remedial actions initiated or completed on a third LUST</td>
<td>Lower</td>
</tr>
</tbody>
</table>

LUST—leaking underground storage tank

5.2.4  State-Registered UST Sites within 0.5 Mile

Review of the EDR report and the Commonwealth of Pennsylvania’s UST database indicate that five UST sites were identified within 0.5 mile of the USAR Center. Table 3 lists the sites along with the tanks’ status. The Property itself was not listed in the state UST database (EDR, 2006).

Three USTs are located at the JOT Fuel gas station (one is a LUST; see Section 5.2.3). Two of these tanks are listed as active and contain gasoline. The two active tanks range in size from 8,000 to 12,000 gallons in capacity. One documented release occurred at this site on December 28, 1995. There are no violations listed for the JOT Fuel gas station (EDR, 2006).

One 6,000-gallon capacity UST is located at the C & C Ford Sales property. This UST is active and contains gasoline. A review of the Commonwealth of Pennsylvania database indicates that C & C Ford Sales received six violations on December 30, 1998 (EDR, 2006).

Three USTs are located at the Hatboro Horsham OPR property (one is a LUST; see Section 5.2.3). Two out of three of these tanks are active. The two active tanks range in size from 6,000 to 10,000 gallons in capacity and contain gasoline and diesel fuel, respectively. One documented release occurred at this site on October 23, 1990. There are no violations listed for the Hatboro Horsham OPR property (EDR, 2006).

Based on the condition of the USTs present at the C & C Ford Sales and Hatboro Horsham OPR properties and the nature of the one release associated with the Hatboro Horsham OPR, neither property is considered to present an environmental risk to the USAR Center. Additionally, both properties are located topographically downgradient from the USAR Center. As mentioned in Section 5.2.3, the release associated with the LUST at the JOT Fuel property has impacted the USAR Center.
Two unregulated USTs present at Drexel IND and Gaftomski RES are located 2,223 feet south and 2,530 feet southeast, respectively, of the USAR Center. Both locations are downgradient of the Property. A No. 2 fuel oil leak was reported at the Drexel IND site; however, this tank and associated contamination have been cleaned up and were closed by PADEP on April 20, 1998. The Gaftomski RES site has one UST that is being cleaned up using authorities other than the Tank Act; the contents of this tank are not known. Since both of these sites are downgradient of the Property, releases from these USTs do not have the potential to impact the USAR Center (EDR, 2006).

### TABLE 3
Underground Storage Tank Sites
Near Horsham Memorial USAR Center, Horsham Township, Pennsylvania

<table>
<thead>
<tr>
<th>Company/Site</th>
<th>Address</th>
<th>Distance and Direction from Property</th>
<th>Tank Status</th>
<th>Closure Status</th>
<th>Elevation Relative to Property</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOT Fuel</td>
<td>982 Easton Road Horsham Township, PA 19044</td>
<td>Approximately 344 feet north</td>
<td>2 USTs—currently active</td>
<td>NA</td>
<td>Higher</td>
</tr>
<tr>
<td>C &amp; C Ford Sales</td>
<td>1100 Easton Road Horsham, PA 19044</td>
<td>Approximately 833 feet north-northwest</td>
<td>1 UST—currently active</td>
<td>NA</td>
<td>Lower</td>
</tr>
<tr>
<td>Hatboro Horsham OPR</td>
<td>224 Maple Avenue Horsham, PA 19044</td>
<td>Approximately 988 feet east-southeast</td>
<td>2 USTs—currently active</td>
<td>NA</td>
<td>Lower</td>
</tr>
<tr>
<td>Drexel IND</td>
<td>331 Maple Avenue Horsham Township, PA</td>
<td>2,223 feet south</td>
<td>1 UST—No. 2 fuel oil</td>
<td>Closed</td>
<td>Lower</td>
</tr>
<tr>
<td>Gaftomski RES</td>
<td>400 Watson Avenue Horsham Township, PA</td>
<td>2,530 feet southeast</td>
<td>1 UST—Unknown contents</td>
<td>Not reported</td>
<td>Lower</td>
</tr>
</tbody>
</table>

UST—underground storage tank

### 5.2.5 State Spills Incidents
The USAR Center is not listed on the Pennsylvania state petroleum spill list (PADEP, Land Recycling Program).

### 5.2.6 Records of Contaminated Public Wells within 0.5 Mile
The EDR report identified one water supply source located approximately 0.125 mile south-southeast and upgradient of the USAR Center. This water supply well is owned by Lee’s Hoagie House. Coliform contamination was detected in exceedance of the PADEP maximum contaminant level (MCL) on June 22, 1999, and July 15, 1999 (EDR, 2006).
5.2.7 Voluntary Remediation Program Sites within 0.5 Mile

The USAR Center is not listed in Pennsylvania’s Brownfield Program (the successor to the Voluntary Cleanup Program). No sites located within 0.5 mile of the USAR Center are listed as being in the Brownfield Program (PADEP, Pennsylvania Brownfield Inventory).

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

The USAR Center is not registered with the state as a bulk fertilizer and pesticide storage facility. Additionally, no adjacent properties within 0.25 mile were registered as one of these facilities (EDR, 2006).

5.3 Unmapped Sites

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

Using the mapping utility provided at maps.google.com, the locations of the orphan sites were identified and mapped. Two of the sites, Flexofirst, Inc. and Edon Corporation, are located within 0.5 mile of the Property. The location of a third site, the Willow Grove NAS/JRB tank farm, could not be accurately determined; however, based on aerial photographs and USGS 7.5-minute topographic maps, the Willow Grove NAS/JRB tank farm is presumed to be within 1.5 miles of the Property (EDR, 2006).

Flexofirst, Inc. is located about 0.6 mile from the Property. This site is listed in the USEPA database as having a hazardous waste handler, air release, and is listed under the Aerometric Information Retrieval System (AIRS) database. Edon Corporation is located about 0.5 mile from the Property. The site is listed in the USEPA database as having a toxic release, hazardous waste handler, and air release. The site manufactures architectural fiberglass and is listed under the AIRS database. The Willow Grove NAS/JRB tank farm is listed as having one or more LUSTs. These LUSTs are assumed to contain petroleum products related to the Willow Grove NAS/JRB airport operations (EDR, 2006).

Based on the 1999 USGS 7.5-minute topographic map (Figure 3, Appendix A), each of the orphan sites identified by the EDR report are downgradient from the USAR Center and, therefore, are unlikely to have an environmental impact on the Property.

5.4 Summary of Properties Evaluated to Determine Risk to the Property

To summarize Sections 5.1 through 5.3, one separate property (JOT Fuel), adjacent to the USAR Center, was evaluated as a potential risk property to the Property. This adjacent property evaluation was identified as a result of information obtained during area reconnaissance, interviews, and regulatory database searches, and is summarized in Table 4.
### Table 4
Properties Evaluated for Potential Environmental Risks
*Horsham Memorial USAR Center, Horsham Township, Pennsylvania*

<table>
<thead>
<tr>
<th>Company/Site</th>
<th>Database</th>
<th>Elevation Relative to Property?</th>
<th>Potential Impact on the Property?</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOT Fuel</td>
<td>LUST, UST</td>
<td>Higher</td>
<td>Yes</td>
<td>LUST interim remedial actions initiated or completed. No violations associated with USTs. BTEX, cumene, naphthalene, and MTBE detected in monitoring wells along the shared property boundary with the USAR Center.</td>
</tr>
</tbody>
</table>
6 Site Investigation and Review of Hazards

Findings documented in the following subsections are based on the August 2, 2006, site reconnaissance, a review of available site records, and information obtained from USAR personnel.

6.1 USTs/ASTs

There are currently no USTs or ASTs on the Property. Two No. 2 fuel oil USTs were previously located on the Property as discussed in Section 3.4.

6.2 Inventory of Chemicals/Hazardous Substances

Records pertaining to chemicals, including hazardous materials, chemical bulk storage, petroleum products, hazardous waste, and petroleum waste were reviewed in addition to interviews and the site reconnaissance to develop the inventory for this Property. During the August 2, 2006, site reconnaissance, and the following chemicals were observed on the Property:

- Motor oil
- Diesel oil
- Brake fluid
- Transmission fluid
- Antifreeze
- Battery water
- Edge-Tek filters
- Hydraulic oil
- Grease
- Fuel filters
- Oil filters
- Spray paint
- Insect repellent
- Oxygen and acetylene tanks
- Parts cleaners: Break Through (NSN-6850-01-378-0666) and Skysol (NSN-6850-01-381-8024)
- Pesticides spray cans

Inside the OMS building, three 55-gallon (one plastic, two metal) drums containing used motor oil and antifreeze and five 5-gallon containers with used motor oil and hydraulic oil were staged on a containment pallet. One plastic container with used motor oil and one plastic container labeled cleaning solvent were stored directly on the floor of the OMS.

Other chemicals, consisting of used oils, transmission fluid, antifreeze, and brake fluid were stored in 55-gallon drums along with used oil and fuel filters on top of an elevated spill containment area in a “sea-box” type container located in the MEP area, north of the OMS building. The “sea-box” container is about 8 feet high, 6 feet wide, and 15 feet long, and was unlocked by 99th RRC personnel during the August 2, 2006, site reconnaissance.

Pesticides spray cans were observed inside the administration and OMS buildings during the August 2, 2006. These spray cans are assumed to be for routine yard use. A private commercial company performs landscaping services, and may potentially apply herbicides to the fence line for weed control, although this could not be confirmed through interviews with 99th RRC personnel.
6.3 Waste Disposal Sites

Available records and interviews did not indicate the practice of disposing of wastes on the Property has occurred. One area of stressed vegetation consisting of about 4 square feet of dead grass was observed next to the driveway that accesses Route 611 (Photograph 9, Appendix B); however, this has most likely been caused by vehicle traffic. No other waste disposal sites were observed during the August 2, 2006, site reconnaissance, nor were any signs of past onsite waste disposal (such as stressed vegetation or suspicious depressions in the landscape) observed.

6.4 Pits, Sumps, Drywells, and Catch Basins

A wash rack and OWS are located outside, west of the OMS building. The wash rack and deep sink inside the OMS building are connected to the OWS, which is connected to the sanitary sewer system (Horne, 2001). Based on interviews with 99th RRC personnel during the August 2, 2006, site reconnaissance, the sanitary sewer system at the USAR Center is connected to the Willow Grove NAS/JRB sanitary sewer system. The OWS is located underground and is accessible through a metal plate behind the wash rack.

A November 16, 2000, inspection concluded that the OWS was actively used; however, it did not have the hydraulic capacity to adequately treat the amount of wastewater that was generated while using the wash rack. The November 2000 survey also noted the presence of a liquid with an oily sheen and about 0.5 inch of oily sediment in the OWS. The inspection report recommended either replacing or decommissioning the OWS (Horne, 2001). During the August 2, 2006, site reconnaissance, 99th RRC personnel noted that the OWS was replaced at an unknown time after the November 16, 2000, inspection. 99th RRC personnel further stated that the wash rack and new OWS are no longer used.

During the August 2, 2006, site reconnaissance, a large section of patched concrete was present at the last bay on the northwest side of the OMS. 99th RRC personnel identified this as a former maintenance pit. The former OMS maintenance pit often collected fluids during maintenance activities. The fluids were more than likely petroleum, but often antifreeze and cleaning solvents used in the cleaning of vehicle components. The pit was not intended to receive significant volumes of fluids, and cracks in the pit floor or wall over extended periods of time could result in a release. The condition of the pit before closure was not available. There was no evidence of a release in the readily available information, and any releases that might have occurred are likely to have been de minimis quantities. Site inspection activities related to the closure of the OMS maintenance pit were performed, and this maintenance pit was closed by the IRP; however, closure documentation was not available for this ECP (99th RSC, 1996).

The MEP lot is graded to drain into a central storm sewer grate located directly west of the OMS, between the OMS and administrative buildings. This storm sewer grate is connected to a pipe that drains west toward State Highway Route 611. The POV parking lot also is graded west toward State Highway Route 611. East of the facility, the land slopes east-southeast toward an athletic field and elementary school. No ditches were observed on the Property during the August 2, 2006, site reconnaissance.
6.5 Asbestos-containing Material

Prior to the early 1980s, asbestos was commonly used as an insulating material for buildings and piping and as filler for vinyl floor tile. A November 15, 2004, asbestos inspection at the Property was conducted by Skelly and Loy, Inc. The inspection included visual and tactile assessments of materials suspected of containing asbestos. During this inspection, 23 samples of materials suspected of containing asbestos were collected from the OMS and administration buildings. Of these 23 samples, four were identified as ACM and one was assessed as friable (Skelly and Loy, 2005).

Previous reports document that samples were collected from the Property and tested positive for ACM (Data Chem Laboratories, 1992). A 1995 document noted that the facility manager stated that ACM was removed from the boiler room (Unknown, 1995). During the August 2, 2006, site reconnaissance, 99th RRC personnel noted that the 9-inch by 9-inch black and white tiles located throughout the first and second floors of the administrative building tested positive for asbestos during the 2004 ACM inspection (Photograph 10, Appendix A).

6.6 PCB-containing Equipment

Two pad-mounted GE transformers, manufactured in Pittseld, Massachusetts, serial #D276096, are located on the Property, north of the exterior north wall of the administration building (Unknown, 1995). During the August 2, 2006, site reconnaissance, the units appeared to be in good condition, and no evidence of leakage was observed. A document titled PCB Management Plan dated January 2003 identifies one of the USAR Center transformers (pad-mounted transformer next to the administrative building) as containing PCBs (Bay Associates, 2003).

No other electrical or hydraulic lifts that could potentially contain PCB oils were identified during the site visit or in the available records reviewed. Site personnel interviewed during the August 2, 2006, site reconnaissance did not know of any other potential PCB-containing equipment or current or past use of PCBs on the Property.

6.7 Lead-based Paint

ALSI performed an LBP inspection at the Property on November 15 and 16, 2004. ALSI tested 427 building components throughout each building. Of these 427 components, 326 tested positive for either LBP or lead-containing paint. The majority of the positive samples containing LBP and lead-containing paint were located on the walls, doors, door frames, window sills, window frames, ceilings, and radiators in the administration and OMS buildings (Skelly and Loy, 2005). Peeling and chipped paint were noted in most of the rooms in the administrative building and OMS during the August 2, 2006, site reconnaissance. The exterior of the OMS and administration buildings are constructed with a brick veneer, and no chipped or peeling paint was noted on the buildings exteriors.
6.8 Radon

A site-specific radon survey was conducted between November 15 and 17, 2004, by Skelly and Loy’s radon inspector Luke R. Marsh (Examination ID#20401012003). Passive radon test kits were used to identify and quantify the presence of radon gas. The test kits were placed in randomly selected rooms on the first floors of both the OMS and administration buildings, about 2 feet to 6 feet above the ground (within the normal breathing zone). The average radon level in the administration and OMS buildings were 1.32 picoCuries per liter (pCi/L) and 0.55 pCi/L, respectively (Skelly and Loy, 2005). Both these amounts are below the USEPA recommended action level of 4.0 pCi/L and are below the average indoor amount for the 19044 zip code.

The USEPA map of radon zones indicates that the USAR Center is in Zone 1, meaning it has a high potential for radon, greater than 4.0 pCi/L (http://www.epa.gov/radon/zonemap/pennsylvania.htm).

6.9 Munitions and Explosives of Concern

Based on a review of available records, the site reconnaissance, and interviews with USAR Center personnel, there are no indications that munitions and explosives of concern (MEC) are or were present at the Property. There was an indoor firing range on the Property located on the first floor of the administration building in Room 120; however, it was decommissioned and cleaned in 2002 (IT Corporation, 2003), and was being used as storage for general office equipment as observed during the August 2, 2006 site reconnaissance. Previous reports indicate that the former indoor firing range was being used as a storage area (Gillan and Hartmann, 1992).

At the time of the 2002 decommissioning, the indoor firing range had not been used in several years, and the firing line, shooter partitions, target retrieval system, bullet trap, and deflector plates had been previously removed. In addition, the acoustical tiles had been removed, and the remaining cinder block walls were repainted. The floor of the firing range was cleaned in October 2002 using a cleaning solution in conjunction with floor scrubbers. Confirmatory wipe samples were collected following decommissioning activities in 2002. Results from these wipe samples indicate that concentrations of lead were below 200 micrograms per square foot, and that the range is safe for reoccupation (IT Corporation, 2003).

6.10 Radioactive Materials

Based on the August 2, 2006, site reconnaissance and interviews with USAR Center personnel, radioactive materials were present in equipment used on the Property. Meters used to monitor NBC hazards were stored in the administration building. These meters apparently contain small quantities of radioactive material in sealed containers and are not regulated.
7 Review of Special Resources

7.1 Land Use

The Property is currently zoned for commercial use. Based on historical aerial photographs, the USAR Center is located in an area that combines commercial and residential land uses. As mentioned in Section 1, the Property is bounded by residential neighborhoods to the north and east, a school to the southeast, commercial business to the south, and Route 611 and the Willow Grove NAS/JRB to the west.

7.2 Coastal Zone Management

The PADEP, Water Planning Office is the lead agency for the Pennsylvania Coastal Zone Management Program. This Property is not included in the coastal zone management plan, nor is it in a coastal zone (PADEP, Coastal Zone Management Program).

7.3 Wetlands

According to the U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory map, no jurisdictional wetlands are identified on the Property or on adjacent properties. The nearest wetland is located about 0.5 mile east of the Property (EDR, 2006; Appendix E).

During the August 2, 2006, site reconnaissance, no conditions were present that suggested the presence of wetlands on the Property (that is, areas with standing water or wetland vegetation). Based on the Soil Conservation Service’s State Soil Geographic Database (STATSGO) data, the soil present at the Property is from the Lansdale series, which is classified as a well-drained loam, and does not meet the requirements for a hydric soil (EDR, 2006). The natural resources survey report prepared in July 1995 did not identify any wetlands at the Property (USACE, 1995b).

7.4 100-year Floodplain

A review of the FEMA digital Flood Hazard Area map indicates that the Property lies outside the 100-year floodplain (EDR, 2006; Appendix E). 99th RRC personnel were not aware of the facility ever being flooded.

7.5 Natural Resources

A report entitled Programmatic Natural Resource Management Plan 79th Army Reserve Command Pennsylvania was prepared for the USAR in an effort to inventory and manage natural resources found at 79th RRC facilities in central and southeastern Pennsylvania. The report concluded that the USAR Center did not contain any key natural resources, including
wetlands, surface water, floodplains, rare species, or the potential for rare species (USACE, 1995b).

### 7.6 Cultural Resources

In July 1995, a Cultural Resource Management Plan for the Property was prepared by the KFS Historic Preservation Group, Kise Franks & Straw, Inc., in association with Hunter Research, Inc. The purpose of the survey and subsequent report was to inventory cultural resources at 32 USAR centers in central and southeastern Pennsylvania. To facilitate the cultural resource assessment, background research and site visits were conducted for each facility. Research included an evaluation of historical documents, previous assessments, and a summary description of the facility and its surroundings. In addition, each site also was assessed for its eligibility to the NRHP.

The report concluded that no historic architectural resources were identified at the Property, and neither of the buildings at the Property was found to meet the criteria for inclusion in the NRHP (KFS Historic Preservation Group, 1995).

### 7.7 Other Special Resources

Based on a review of available current and historical documents, no additional special resources were identified on the Property or the immediate surrounding area.
8 Conclusions

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

8.1 Review of Findings

**Hazardous Substances.** Hazardous substances pursuant to CERCLA §101(14) (42 United States Code §9601 (14)) were used and stored at the Property in amounts necessary to support vehicle and building maintenance activities. Based on historical documents, a debris storage area that reportedly stored hazardous materials and diesel-contaminated soil was previously located between the OMS building and east fence. Investigations in 1995, 1997, and 2001 collected samples that were analyzed for chlorinated herbicides, VOCs, SVOCs, pesticides, PCBs, and metals. Sampling results in 1995 found only TPH-DRO detected in exceedance of PADEP clean-up standards. Sample results from the follow-on investigations detected VOCs, SVOCs, pesticides, PCBs, and vanadium below MSC concentrations. The reports concluded that no contaminants were detected above concentrations required to be protective of human health or the environment. In 2001, PADEP concurred with the conclusions of these investigations, and removed the Property from the “List of Scheduled Sites” to the “List of Resolved Sites” under the July 4, 1998, Multi-Site Agreement among PADEP and the Military Components.

**USTs/ASTs.** Two No. 2 heating oil USTs were previously located on the Property. One 2,000-gallon heating oil UST located adjacent to the OMS building, which failed a tightness test, was removed on January 21, 1997. Additional soil excavation and sampling was performed during tank removal. A second UST was located adjacent to the east side of the administration building; however, removal documentation for this UST was not available for this ECP report. Neither tank was regulated under the Tank Act, since they were used to supply fuel oil for space heating, which is unregulated by the federal government and by the Commonwealth of Pennsylvania.

**Non-UST/AST Petroleum Storage.** Used POL substances were stored in two places on the Property: outside the OMS building in a locked “sea-box” type container with secondary containment and inside the OMS building with secondary containment. One open container of used oil and one 5-gallon container of cleaning solvent were stored directly on the floor inside the OMS building. No spills or staining were present around these storage areas and containers during the site reconnaissance. Non-UST/AST petroleum substances releases at the Property include a 40-square-foot area of stained soil identified in 1995 south of the OMS building and a diesel fuel spill in 1994 north of the OMS building.

**PCBs.** Two pad-mounted transformers are located on the Property north of the exterior north wall of the administration building. During the August 2, 2006, site reconnaissance,
the units appeared to be in good condition, and no evidence of leakage was observed. One of the transformers contains PCBs (Bay Associates, 2003).

No other electrical or hydraulic lifts that could potentially contain PCB oils were identified during the site visit or in the available records reviewed. Site personnel interviewed did not know of any other potential PCB-containing equipment on the Property.

**ACM.** A 2004 asbestos inspection identified ACM in four out of 23 locations, including one area with friable asbestos. Previous reports document that samples were collected from the Property during a May 1992 inspection and tested positive for ACM. A 1995 document noted that the facility manager stated that ACM was removed from the boiler room. 99th RRC personnel noted during the August 2, 2006, site reconnaissance that the 9-inch-square black and white tiles located throughout the first and second floors of the administration building tested positive for asbestos during the 2004 ACM inspection.

**LBP.** ALSI performed an LBP inspection at the Property on November 15 and 16, 2004. A majority of the samples collected during this survey tested positive for either LBP or lead-containing paint. Most of the positive samples containing LBP and lead-containing paint were located on the walls, doors, door frames, window sills, window frames, ceilings, and radiators in the administration and OMS buildings.

**Radiological Materials.** Based on the August 2, 2006, site reconnaissance and interviews with USAR Center personnel, radioactive materials were present in equipment used on the Property. Meters used to monitor NBC hazards were stored in the administration building. These meters apparently contain small quantities of radioactive material in sealed containers and are not regulated.

**Radon.** A 2004 radon survey performed on the Property reported that the average radon level in the administration and OMS buildings were below the USEPA recommended action level of 4.0 pCi/L and are below the average indoor amount for the 19044 zip code.

**MEC.** Available records do not indicate any MEC currently or formerly located at this Property. No evidence of MEC was observed during the August 2, 2006, site reconnaissance. A firing range was formerly located on the Property, but it was closed in 2002.

**Surrounding Properties.** Potential environmental concerns, located on surrounding properties within the standard ASTM D6008 recommended minimum search distances from the Property, were evaluated through database review and site reconnaissance. One adjacent property (JOT Fuel) had a release that has impacted the property with POL products and MTBE. This adjacent property is currently undergoing remediation with PADEP and post-remediation contaminant concentrations are below PADEP cleanup standards, however, the site is not yet closed.

**Wetlands and Floodplain.** According to the USFWS National Wetlands Inventory maps, the 2006 EDR report, and visual observations, no wetlands were observed or appear to be associated with any of the facilities at this site, or with any adjacent properties. The Property is not located within a 100-year floodplain or within a coastal zone.

**Threatened and Endangered Species.** The USAR Center did not contain any key natural resources, including wetlands, surface water, floodplains, rare species, or the potential for rare species.
Archaeological and Historical Resources. No historic architectural resources were identified at the Property, and neither of the buildings at the Property was found to meet the criteria for inclusion in the NRHP (KFS Historic Preservation Group, 1995).

8.2 Environmental Condition of Property

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

In accordance with DoD policy defining the classifications (see Sherri Goodman Memorandum dated 21 October 1996), the Property has been classified into one of seven property types. Based on the results of this ECP study, the property has been assigned an overall DoD Environmental Condition Type 4. The property type is based on the following major findings:

- A leaking underground gasoline storage tank located on the adjacent JOT Fuel property is undergoing remediation. The release impacted soil and groundwater, and has impacted groundwater on the Property. COCs include benzene, toluene, ethylbenzene, and xylene; cumene; naphthalene; and MTBE. Monitoring wells along the property boundary indicated MTBE was present above Pennsylvania Act 2 MSCs prior to implementing remedial actions. A pump and treat and vapor recovery system operated on the JOT Fuel property from 1998 to 1999. Ongoing monitoring indicates COCs along the Property boundary are currently nondetect. However, COCs were still detected in other monitoring wells on and downgradient of the JOT Fuel property; therefore, the release has not yet been closed by PADEP.

- During the USACE Baltimore District 1995 site inspection, about 40 square feet of petroleum-stained soil and staining on the pavement adjacent to this area was observed on the south side of the OMS building. The reported staining was not observed during the August 2, 2006, site reconnaissance; however, it is unknown if any remedial activities were conducted in this area.

- About 10 gallons of diesel fuel were spilled in front (north) of the OMS building. Contaminated soil was excavated and subsurface soil samples were collected.

- Contaminated soil associated with a former 2,000-gallon No. 2 fuel oil leaking UST was remediated and is now closed by PADEP.
9 References

Persons Contacted

Environmental Protection Specialist, RSO #2, 570-342-3786 ext. 1220 (office), 570-417-9556 (cell), August 2, 2006.

Environmental Protection Specialist/Automation Program Manager, 570-342-3786 (office), 570-417-7815 (cell), August 2, 2006.

Resources Consulted


State and Local Regulatory Databases


Works Cited


APPENDIX D
SUPPORTING DOCUMENTATION
No supplemental investigations were conducted since original ECP; i.e., no supporting documentation was provided
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Signage at Entrance to USAR Center on the Property

Front Elevation of USAR Center Administration Building
Rear Elevation of OMS

View of Wash Rack at the Property
View of Oil/Water Separator Adjacent to Wash Rack

View of Pole-Mounted Transformers at the Property
View of Pad-Mounted Transformer at the Property

Interior View of OMS
Additional View Inside the OMS

View of Typical Hallway Administration Building
Horsham Memorial USAR Center (PA046)
Horsham, Pennsylvania
Photograph Date: April 11, 2011

View of Peeling Paint Inside the Administration Building

View of Drill Hall
View of Typical Classroom at the Administration Building

View of Mechanical Room, Administration Building
APPENDIX B

DATABASE SEARCH REPORT
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**GEOCHECK ADDENDUM**

GeoCheck - Not Requested

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**Thank you for your business.**

Please contact EDR at 1-800-352-0050 with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA’s Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS
936 EASTON RD
HORSHAM, PA 19044

COORDINATES

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latitude (North)</td>
<td>40.194500 - 40˚ 11’ 40.2”</td>
</tr>
<tr>
<td>Longitude (West)</td>
<td>75.137500 - 75˚ 8’ 15.0”</td>
</tr>
<tr>
<td>Universal Tranverse Mercator: Zone 18</td>
<td></td>
</tr>
<tr>
<td>UTM X (Meters)</td>
<td>488296.1</td>
</tr>
<tr>
<td>UTM Y (Meters)</td>
<td>4449144.0</td>
</tr>
<tr>
<td>Elevation</td>
<td>367 ft. above sea level</td>
</tr>
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</table>

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Property Map:</td>
<td>40075-B2 AMBLER, PA</td>
</tr>
<tr>
<td>Most Recent Revision:</td>
<td>1983</td>
</tr>
<tr>
<td>East Map</td>
<td>40075-B1 HATBORO, PA</td>
</tr>
<tr>
<td>Most Recent Revision:</td>
<td>2001</td>
</tr>
</tbody>
</table>

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 7 of the attached EDR Radius Map report:

<table>
<thead>
<tr>
<th>Site</th>
<th>Database(s)</th>
<th>EPA ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>HORSHAM MEM USARC</td>
<td>RCRA-CESQG</td>
<td>PAR000502534</td>
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<tr>
<td>936 EASTON RD</td>
<td>FINDS</td>
<td></td>
</tr>
<tr>
<td>HORSHAM, PA 19044</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR’s search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL................................., National Priority List
EXECUTIVE SUMMARY

Proposed NPL, Proposed National Priority List Sites
NPL LIENS, Federal Superfund Liens

Federal Delisted NPL site list
Delisted NPL, National Priority List Deletions

Federal CERCLIS list
CERCLIS, Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY, Federal Facility Site Information listing

Federal CERCLIS NFRAP site List
CERC-NFRAP, CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list
CORRACTS, Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list
RCRA-TSDF, RCRA - Treatment, Storage and Disposal

Federal RCRA generators list
RCRA-LQG, RCRA - Large Quantity Generators
RCRA-SQG, RCRA - Small Quantity Generators

Federal institutional controls / engineering controls registries
US ENG CONTROLS, Engineering Controls Sites List
US INST CONTROL, Sites with Institutional Controls

Federal ERNS list
ERNS, Emergency Response Notification System

State- and tribal - equivalent NPL
SHWS, Hazardous Sites Cleanup Act Site List
HSCA, HSCA Remedial Sites Listing

State and tribal landfill and/or solid waste disposal site lists
SWF/LF, Operating Facilities

State and tribal leaking storage tank lists
LAST, Storage Tank Release Sites
INDIAN LUST, Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists
AST, Listing of Pennsylvania Regulated Aboveground Storage Tanks
INDIAN UST. Underground Storage Tanks on Indian Land
FEMA UST. Underground Storage Tank Listing

State and tribal institutional control / engineering control registries
ENG CONTROLS. Engineering Controls Site Listing
INST CONTROL. Institutional Controls Site Listing
AUL. Environmental Covenants Listing

State and tribal voluntary cleanup sites
INDIAN VCP. Voluntary Cleanup Priority Listing

State and tribal Brownfields sites
BROWNFIELDS. Brownfields Sites

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists
US BROWNFIELDS. A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites
ODI. Open Dump Inventory
DEBRIS REGIÓN 9. Torres Martinez Reservation Illegal Dump Site Locations
HIST LF. Abandoned Landfill Inventory
INDIAN ODI. Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites
US CDL. Clandestine Drug Labs
US HIST CDL. National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks
ARCHIVE UST. Archived Underground Storage Tank Sites
ARCHIVE AST. Archived Aboveground Storage Tank Sites

Local Land Records
LIENS 2. CERCLA Lien Information
LUCIS. Land Use Control Information System
ACT 2-DEED. Act 2-Deed Acknowledgment Sites

Records of Emergency Release Reports
HMIRS. Hazardous Materials Information Reporting System
SPILLS. State spills

Other Ascertainable Records
RCRA-NonGen. RCRA - Non Generators
EXECUTIVE SUMMARY

DOT OPS ........................................... Incident and Accident Data
FUDS .............................................. Formerly Used Defense Sites
CONSENT ........................................... Superfund (CERCLA) Consent Decrees
ROD .................................................... Records Of Decision
UMTRA .............................................. Uranium Mill Tailings Sites
MINES ............................................... Mines Master Index File
TRIS ................................................... Toxic Chemical Release Inventory System
TSCA ................................................... Toxic Substances Control Act
FTTS ................................................... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS ....................................... FIFRA/TSCA Tracking System Administrative Case Listing
SSTS ............................................... Section 7 Tracking Systems
ICIS .................................................... Integrated Compliance Information System
PADS ............................................... PCB Activity Database System
MLTS ................................................... Material Licensing Tracking System
RADINFO .......................................... Radiation Information Database
RAAATS ........................................ RCRA Administrative Action Tracking System
UIC .................................................... Underground Injection Wells
NPDES ............................................. NPDES Permit Listing
MANIFEST ......................................... Manifest Information
DRYCLEANERS ................................ Drycleaner Facility Locations
AIRS ................................................... Permit and Emissions Inventory Data
INDIAN RESERV ................................ Indian Reservations
SCRD DRYCLEANERS ....................... State Coalition for Remediation of Drycleaners Listing
PCB TRANSFORMER ......................... PCB Transformer Registration Database
COAL ASH DOE ................................. Sleam-Electric Plan Operation Data
COAL ASH EPA ................................. Coal Combustion Residues Surface Impoundments List

EDR PROPRIETARY RECORDS

EDR Proprietary Records
Manufactured Gas Plants, .... EDR Proprietary Manufactured Gas Plants
EDR Historical Auto Stations, .... EDR Proprietary Historic Gas Stations
EDR Historical Cleaners, .... EDR Proprietary Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

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

Unmappable (orphan) sites are not considered in the foregoing analysis.
**EXECUTIVE SUMMARY**

**STANDARD ENVIRONMENTAL RECORDS**

*State and tribal leaking storage tank lists*

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Resources’ List of Confirmed Releases.

A review of the LUST list, as provided by EDR, and dated 03/07/2011 has revealed that there are 3 LUST sites within approximately 0.5 miles of the target property.

<table>
<thead>
<tr>
<th>Lower Elevation</th>
<th>Address</th>
<th>Direction / Distance</th>
<th>Map ID</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOT FUEL</td>
<td>982 EASTON RD</td>
<td>NNW 0 - 1/8 (0.092 mi.)</td>
<td>2</td>
<td>9</td>
</tr>
<tr>
<td>HATBORO HORSHAM OPR</td>
<td>224 MAPLE AVE</td>
<td>ESE 1/8 - 1/4 (0.190 mi.)</td>
<td>4</td>
<td>10</td>
</tr>
<tr>
<td>Not reported</td>
<td></td>
<td>SSE 1/4 - 1/2 (0.497 mi.)</td>
<td>8</td>
<td>11</td>
</tr>
</tbody>
</table>

*Additional key fields are available in the Map Findings section*

UNREG LTANKS: Leaking storage tank cases from unregulated storage tanks.

A review of the UNREG LTANKS list, as provided by EDR, and dated 04/12/2002 has revealed that there are 3 UNREG LTANKS sites within approximately 0.5 miles of the target property.

<table>
<thead>
<tr>
<th>Lower Elevation</th>
<th>Address</th>
<th>Direction / Distance</th>
<th>Map ID</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAPLE HILL APT</td>
<td>213 MAPLE AVE</td>
<td>SE 1/8 - 1/4 (0.206 mi.)</td>
<td>5</td>
<td>10</td>
</tr>
<tr>
<td>DREXEL IND</td>
<td>331 MAPLE AVE</td>
<td>S 1/4 - 1/2 (0.421 mi.)</td>
<td>6</td>
<td>11</td>
</tr>
<tr>
<td>GAFTOMSKI RES</td>
<td>400 WATSON AVE</td>
<td>SE 1/4 - 1/2 (0.483 mi.)</td>
<td>7</td>
<td>11</td>
</tr>
</tbody>
</table>

*State and tribal registered storage tank lists*

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Resources’ Regulated Underground Storage Tank Listing.

A review of the UST list, as provided by EDR, and dated 03/01/2011 has revealed that there are 2 UST sites within approximately 0.25 miles of the target property.

<table>
<thead>
<tr>
<th>Lower Elevation</th>
<th>Address</th>
<th>Direction / Distance</th>
<th>Map ID</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOT FUEL</td>
<td>982 EASTON RD</td>
<td>NNW 0 - 1/8 (0.092 mi.)</td>
<td>2</td>
<td>9</td>
</tr>
<tr>
<td>HATBORO HORSHAM OPR</td>
<td>224 MAPLE AVE</td>
<td>ESE 1/8 - 1/4 (0.190 mi.)</td>
<td>4</td>
<td>10</td>
</tr>
</tbody>
</table>
**State and tribal voluntary cleanup sites**
VCP: Voluntary Cleanup Program Sites List.

A review of the VCP list, as provided by EDR, and dated 04/26/2010 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

<table>
<thead>
<tr>
<th>Lower Elevation</th>
<th>Address</th>
<th>Direction / Distance</th>
<th>Map ID</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1020 EASTON RD PROP</td>
<td>1020 EASTON RD</td>
<td>NNW 1/8 - 1/4 (0.158 mi.)</td>
<td>3</td>
<td>9</td>
</tr>
</tbody>
</table>

**ADDITIONAL ENVIRONMENTAL RECORDS**

**Other Ascertainable Records**

DOD: Consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within approximately 1 mile of the target property.

<table>
<thead>
<tr>
<th>Equal/Higher Elevation</th>
<th>Address</th>
<th>Direction / Distance</th>
<th>Map ID</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>WILLOW GROVE NAVAL AIR STATION</td>
<td>WSW 0 - 1/8 (0.013 mi.)</td>
<td>0</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>
Due to poor or inadequate address information, the following sites were not mapped. Count: 4 records.

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Database(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NAVY FUEL FARM NAS JRB WILLOW GROV</td>
<td>LUST</td>
</tr>
<tr>
<td>HORSHAM TOWNSHIP OF SEWER AUTH</td>
<td>FINDS</td>
</tr>
<tr>
<td>HORSHAM TOWNSHIP OF SEWER AUTH</td>
<td>ICIS</td>
</tr>
<tr>
<td>HORSHAM VILLAGE MALL</td>
<td>MANIFEST</td>
</tr>
</tbody>
</table>
### MAP FINDINGS SUMMARY

<table>
<thead>
<tr>
<th>Database</th>
<th>Target Property</th>
<th>Search Distance (Miles)</th>
<th>&lt; 1/8</th>
<th>1/8 - 1/4</th>
<th>1/4 - 1/2</th>
<th>1/2 - 1</th>
<th>&gt; 1</th>
<th>Total Plotted</th>
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</thead>
<tbody>
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<td><strong>STANDARD ENVIRONMENTAL RECORDS</strong></td>
<td></td>
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<tr>
<td><strong>Federal NPL site list</strong></td>
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<td></td>
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<td>Proposed NPL</td>
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<td><strong>State- and tribal - equivalent NPL</strong></td>
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</tr>
<tr>
<td><strong>State and tribal landfill and/or solid waste disposal site lists</strong></td>
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<td>0</td>
<td>0</td>
<td>NR</td>
<td>NR</td>
<td>0</td>
</tr>
<tr>
<td><strong>State and tribal leaking storage tank lists</strong></td>
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<tr>
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EDR PROPRIETARY RECORDS

EDR Proprietary Records

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NOTES:

TP = Target Property
NR = Not Requested at this Search Distance
Sites may be listed in more than one database
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**RCRA-CESQG:**
- Date form received by agency: 04/30/2001
- Facility name: HORSHAM MEM USARC
- Facility address: 936 EASTON RD
- EPA ID: PAR000502534
- Contact: KENDRA BORKA
- Contact address: 99TH RSC CST1 BLDG 176 NAS WILLOW GROVE, PA 190905110
- Contact country: US
- Contact telephone: (215) 443-1643
- Contact email: Not reported
- EPA Region: 03
- Classification: Conditionally Exempt Small Quantity Generator
- Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste.

**Owner/Operator Summary:**
- Owner/operator name: 99TH REGIONAL SUPPORT COMMAND
- Owner/operator address: 5 LOBAUGH ST OAKDALE, PA 15071
- Owner/operator country: Not reported
- Owner/operator telephone: (724) 693-2332
- Legal status: Federal
- Owner/Operator Type: Owner
- Owner/Op start date: 01/01/2001
- Owner/Op end date: Not reported

**Handler Activities Summary:**
- U.S. importer of hazardous waste: No
- Mixed waste (haz. and radioactive): Unknown
- Recycler of hazardous waste: No
- Transporter of hazardous waste: No
- Treater, storer or disposer of HW: No
- Underground injection activity: No
- On-site burner exemption: No
- Furnace exemption: No
- Used oil fuel burner: No
- Used oil processor: No
- User oil refiner: No
- Used oil fuel marketer to burner: No
- Used oil Specification marketer: No
HORSHAM MEM USARC (Continued)

Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver:Verified to be non-commercial

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

FINDS:
Registry ID: 110006538023

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

DOD WILLOW GROVE NAVAL AIR STATION DOD CUSA129279
WSW < 1/8
WILLOW GROVE NAVAL AIR ST (County), PA N/A
< 1/8
71 ft.

DOD:
Feature 1: Navy DOD
Feature 2: Not reported
Feature 3: Not reported
URL: Not reported
Name 1: Willow Grove Naval Air Station
Name 2: Not reported
Name 3: Not reported
State: PA
DOD Site: Yes
Tile name: PAMONTGOMERY
2  JOT FUEL  
NNW  982 EASTON RD  
< 1/8  
0.092 mi.  
488 ft.  

MAP FINDINGS  

Relative: 
Lower  
Actual: 
366 ft.  

LUST:  
Region:  
Facility Id:  
46-32134  
Facility Address:  
Not reported  
Facility Type:  
Underground Storage Tank Containing Petroleum  
Facility Status:  
Interim Remedial Actions Initiated or Completed  
Status Date:  
12/28/1995  
Release Date:  
12/28/1995  
Source Cause Desc:  
Tank  

UST:  
Region:  
EP SE Rgnl Off  
Site Id:  
465986  
Other Id:  
46-32134  
2nd Facility Addr:  
Not reported  
Municipality Name:  
Horsham  
Client Id Number:  
184260  
Mailing Name:  
JOT FUEL INC  
Mailing Address:  
2328 FERNCROFT CIR  
Mailing Address 2:  
Not reported  
Mailing City,St,Zip:  
BOOTHWYN, PA 19061  
Registration Expiration Date:  
2/4/2012  

Tank Seq No:  
006  
Tank Code:  
UST  
Date Installed:  
11/5/1996  
Capacity:  
8000  
Substance:  
Gasoline  

Tank Status:  
Currently In Use  
Inspection Code:  
FOI  
Tank Last Dt Inspected:  
4/28/2008  

Tank Seq No:  
007  
Tank Code:  
UST  
Date Installed:  
11/5/1996  
Capacity:  
12000  
Substance:  
Gasoline  

Tank Status:  
Currently In Use  
Inspection Code:  
FOI  
Tank Last Dt Inspected:  
4/28/2008  

3  1020 EASTON RD PROP  

Relative:  
Lower  
Actual: 
361 ft.
### HATBORO HORSHAM OPR

<table>
<thead>
<tr>
<th>Site</th>
<th>224 MAPLE AVE</th>
<th>HORSHAM, PA 19044</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UST:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Region:</td>
<td>EP SE Rgnl Off</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td>583652</td>
<td></td>
</tr>
<tr>
<td>Other Id:</td>
<td>46-22595</td>
<td></td>
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<tr>
<td>2nd Facility Addr:</td>
<td>Not reported</td>
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<tr>
<td>Municipality Name:</td>
<td>Horsham</td>
<td></td>
</tr>
<tr>
<td>Client Id Number:</td>
<td>74011</td>
<td></td>
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<tr>
<td>Mailing Name:</td>
<td>HATBORO HORSHAM SCH DIST</td>
<td></td>
</tr>
<tr>
<td>Mailing Address:</td>
<td>229 MEETINGHOUSE RD</td>
<td></td>
</tr>
<tr>
<td>Mailing Address 2:</td>
<td>Not reported</td>
<td></td>
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<tr>
<td>Mailing City,St,Zip:</td>
<td>HORSHAM, PA 19044</td>
<td></td>
</tr>
<tr>
<td>Registration Expiration Date:</td>
<td>2/4/2012</td>
<td></td>
</tr>
<tr>
<td><strong>UST Tank:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tank Seq No:</td>
<td>001</td>
<td></td>
</tr>
<tr>
<td>Tank Code:</td>
<td>UST</td>
<td></td>
</tr>
<tr>
<td>Date Installed:</td>
<td>10/4/1990</td>
<td></td>
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<tr>
<td>Capacity:</td>
<td>10000</td>
<td></td>
</tr>
<tr>
<td>Substance:</td>
<td>Diesel Fuel</td>
<td></td>
</tr>
<tr>
<td><strong>Facility Status:</strong></td>
<td>Currently In Use</td>
<td></td>
</tr>
<tr>
<td>Inspection Code:</td>
<td>FOI</td>
<td></td>
</tr>
<tr>
<td>Tank Last Dt Inspected:</td>
<td>1/27/2010</td>
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</tr>
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</table>

### MAPLE HILL APT

<table>
<thead>
<tr>
<th>Site</th>
<th>213 MAPLE AVE</th>
<th>HORSHAM TWP., PA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Class:</strong></td>
<td>Cleanup of Tanks using authorities other than Act 32</td>
<td></td>
</tr>
<tr>
<td>Contaminant:</td>
<td>BTEX</td>
<td></td>
</tr>
<tr>
<td>Region:</td>
<td>South East</td>
<td></td>
</tr>
<tr>
<td><strong>UNREG LTANKS:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relative:</td>
<td>Lower</td>
<td></td>
</tr>
<tr>
<td>Actual:</td>
<td>353 ft.</td>
<td></td>
</tr>
<tr>
<td>Map ID</td>
<td>Direction</td>
<td>Distance</td>
</tr>
<tr>
<td>--------</td>
<td>-----------</td>
<td>----------</td>
</tr>
<tr>
<td></td>
<td>South</td>
<td>1/4-1/2</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Relative: Lower</td>
<td>Actual:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>South</td>
<td>1/4-1/2</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Relative: Lower</td>
<td>Actual:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>SSE</td>
<td>1/4-1/2</td>
</tr>
<tr>
<td></td>
<td>Relative: Lower</td>
<td>Actual:</td>
</tr>
<tr>
<td></td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
(Continued)

ARCHIVE UST:

Facility Id: 583338
Site ID: Not reported
Owner Id: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner Address 2: Not reported
Owner City,St,Zip: Not reported
Owner Phone: Not reported
County Code: Not reported
Resp Party Name: Not reported
RP Address: Not reported
RP Address 2: Not reported
RP City,St,Zip: Not reported
Region Code: Not reported
Region Code Name: Not reported
Regulated Expire Date: Not reported

Tank Sequence #: 006
Tank Code: Not reported
Tank Id: Not reported
Other Id: Not reported
Client Date: Not reported
Install Date: 09/26/1996
Substance: GAS
Status: T
Capacity: 6000
Municipality: Not reported
Inspection Code: Not reported
Last Inspection: Not reported
Status Code End Date: Not reported
Tank Substance End Date: Not reported

Tank Sequence #: 007
Tank Code: Not reported
Tank Id: Not reported
Other Id: Not reported
Client Date: Not reported
Install Date: 09/26/1996
Substance: GAS
Status: T
Capacity: 4000
Municipality: Not reported
Inspection Code: Not reported
Last Inspection: Not reported
Status Code End Date: Not reported
Tank Substance End Date: Not reported

Tank Sequence #: 006
Tank Code: Not reported
Tank Id: Not reported
Other Id: Not reported
Client Date: Not reported
Install Date: 09/26/1996
Substance: GAS
(Continued)

Status: T
Capacity: 6000
Municipality: Not reported
Inspection Code: Not reported
Last Inspection: Not reported
Status Code End Date: Not reported
Tank Substance End Date: Not reported

Tank Sequence #: 007
Tank Code: Not reported
Tank Id: Not reported
Other Id: Not reported
Client Date: Not reported
Install Date: 09/26/1996
Substance: GAS
Status: T
Capacity: 4000
Municipality: Not reported
Inspection Code: Not reported
Last Inspection: Not reported
Status Code End Date: Not reported
Tank Substance End Date: Not reported
Count: 4 records.

<table>
<thead>
<tr>
<th>City</th>
<th>EDR ID</th>
<th>Site Name</th>
<th>Site Address</th>
<th>Zip</th>
<th>Database(s)</th>
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</thead>
<tbody>
<tr>
<td>HORSHAM</td>
<td>1009246441</td>
<td>HORSHAM VILLAGE MALL</td>
<td>BLAIR MILL RD</td>
<td>19044</td>
<td>MANIFEST</td>
</tr>
<tr>
<td>HORSHAM</td>
<td>S105800475</td>
<td>NAVY FUEL FARM NAS JRB WILLOW GROV</td>
<td>EASTON RD</td>
<td>19044</td>
<td>LUST</td>
</tr>
<tr>
<td>HORSHAM</td>
<td>1011609675</td>
<td>HORSHAM TOWNSHIP OF SEWER AUTH</td>
<td>617 B HORSHAM RD  HORSHAM P</td>
<td>19044</td>
<td>ICIS</td>
</tr>
<tr>
<td>HORSHAM</td>
<td>1004583768</td>
<td>HORSHAM TOWNSHIP OF SEWER AUTH</td>
<td>617 B HORSHAM RD</td>
<td>19044</td>
<td>FINDS</td>
</tr>
</tbody>
</table>
To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

**STANDARD ENVIRONMENTAL RECORDS**

**Federal NPL site list**

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA’s Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/31/2010  
Source: EPA  
Telephone: N/A  
Last EDR Contact: 04/13/2011  
Data Release Frequency: Quarterly

**NPL Site Boundaries**

Sources:

- EPA’s Environmental Photographic Interpretation Center (EPIC)  
  Telephone: 202-564-7333
- EPA Region 1  
  Telephone 617-918-1143  
  EPA Region 6  
  Telephone: 214-655-6659
- EPA Region 3  
  Telephone 215-814-5418  
  EPA Region 7  
  Telephone: 913-551-7247
- EPA Region 4  
  Telephone 404-562-8033  
  EPA Region 8  
  Telephone: 303-312-6774
- EPA Region 5  
  Telephone 312-886-6686  
  EPA Region 9  
  Telephone: 415-947-4246
- EPA Region 10  
  Telephone 206-553-8665

**Proposed NPL: Proposed National Priority List Sites**

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/31/2010  
Source: EPA  
Telephone: N/A  
Last EDR Contact: 04/13/2011  
Data Release Frequency: Quarterly

**NPL LIENS: Federal Superfund Liens**

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991  
Source: EPA  
Telephone: 202-564-4267  
Last EDR Contact: 02/14/2011  
Data Release Frequency: No Update Planned
Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions
The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/31/2010  Source: EPA
Date Data Arrived at EDR: 01/13/2011  Telephone: N/A
Date Made Active in Reports: 01/28/2011  Last EDR Contact: 04/13/2011
Number of Days to Update: 15  Next Scheduled EDR Contact: 07/25/2011
Data Release Frequency: Quarterly

Federal CERCLIS list

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

Date of Government Version: 11/30/2010  Source: EPA
Date Data Arrived at EDR: 12/30/2010  Telephone: 703-412-9810
Date Made Active in Reports: 02/25/2011  Last EDR Contact: 03/01/2011
Number of Days to Update: 57  Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing
A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA's Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/10/2010  Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/11/2011  Telephone: 703-603-8704
Date Made Active in Reports: 02/16/2011  Last EDR Contact: 04/15/2011
Number of Days to Update: 36  Next Scheduled EDR Contact: 07/25/2011
Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned
Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time.
This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/28/2010  Source: EPA
Date Data Arrived at EDR: 12/01/2010  Telephone: 703-412-9810
Date Made Active in Reports: 02/25/2011  Last EDR Contact: 03/01/2011
Number of Days to Update: 86  Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.
Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.
Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List
A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 01/05/2011  Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/14/2011  Telephone: 703-603-0695
Date Made Active in Reports: 01/28/2011  Last EDR Contact: 03/14/2011
Number of Days to Update: 14  Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls
A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 01/05/2011  Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/14/2011  Telephone: 703-603-0695
Date Made Active in Reports: 01/28/2011  Last EDR Contact: 03/14/2011
Number of Days to Update: 14  Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Varies

Federal ERNS list
ERNS: Emergency Response Notification System
Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2010  Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/07/2011  Telephone: 202-267-2180
Date Made Active in Reports: 03/21/2011  Last EDR Contact: 04/05/2011
Number of Days to Update: 73  Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Annually

State- and tribal - equivalent NPL
SHWS: Hazardous Sites Cleanup Act Site List
The Hazardous Sites Cleanup Act Site List includes sites listed on PA Priority List, sites delisted from PA Priority List, Interim Response Completed sites, and Sites Being Studied or Response Being Planned.

Date of Government Version: 01/03/2011  Source: Department Environmental Protection
Date Data Arrived at EDR: 01/26/2011  Telephone: 717-783-7816
Date Made Active in Reports: 03/02/2011  Last EDR Contact: 04/27/2011
Number of Days to Update: 35  Next Scheduled EDR Contact: 08/08/2011
Data Release Frequency: Semi-Annually

HSCA: HSCA Remedial Sites Listing
A list of remedial sites on the PA Priority List. This is the PA state equivalent of the federal NPL superfund list.

Date of Government Version: 12/27/2010  Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/04/2011  Telephone: 717-783-7816
Date Made Active in Reports: 03/02/2011  Last EDR Contact: 01/25/2011
Number of Days to Update: 26  Next Scheduled EDR Contact: 05/09/2011
Data Release Frequency: Varies

State and tribal landfill and/or solid waste disposal site lists
SWF/LF: Operating Facilities


Date of Government Version: 03/01/2011
Source: Department of Environmental Protection
Telephone: 717-787-7564
Date Data Arrived at EDR: 03/04/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 20
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Semi-Annually

Date of Government Version: 03/01/2011
Source: Department of Environmental Protection
Telephone: 717-783-7509
Last EDR Contact: 02/04/2011
Next Scheduled EDR Contact: 04/04/2011
Data Release Frequency: Semi-Annually

Date of Government Version: 04/12/2002
Source: Department of Environmental Protection
Telephone: 717-783-7509
Last EDR Contact: 08/14/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Date of Government Version: 03/07/2011
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Quarterly

Date of Government Version: 08/27/2010
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 02/16/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Semi-Annually

Date of Government Version: 01/31/2011
Source: EPA Region 4
Telephone: 415-972-3372
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Quarterly

Date of Government Version: 08/27/2010
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 02/16/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LUST: Storage Tank Release Sites
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 03/07/2011
Source: Department of Environmental Protection
Telephone: 717-783-7509
Last EDR Contact: 02/04/2011
Next Scheduled EDR Contact: 04/04/2011
Data Release Frequency: Semi-Annually

UNREG LTANKS: Unregulated Tank Cases
Leaking storage tank cases from unregulated storage tanks.

Date of Government Version: 04/12/2002
Source: Department of Environmental Protection
Telephone: 717-783-7509
Last EDR Contact: 08/14/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

LAST: Storage Tank Release Sites
Leaking Aboveground Storage Tank Incident Reports.

Date of Government Version: 03/07/2011
Source: Department of Environmental Protection
Telephone: 717-783-7509
Last EDR Contact: 02/04/2011
Next Scheduled EDR Contact: 04/04/2011
Data Release Frequency: Semi-Annually

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/31/2011
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 08/27/2010
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 02/16/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Semi-Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 09/01/2010
Date Data Arrived at EDR: 11/05/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 84
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Varies
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/03/2011

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 02/03/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 45
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Quarterly
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/31/2011

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 11/04/2009
Date Data Arrived at EDR: 05/04/2010
Date Made Active in Reports: 07/07/2010
Number of Days to Update: 64
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Varies
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 05/04/2010

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 02/04/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 45
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Quarterly
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/31/2011

State and tribal registered storage tank lists

UST: Listing of Pennsylvania Regulated Underground Storage Tanks
Registered Underground Storage Tanks. UST’s are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 03/01/2011
Date Data Arrived at EDR: 03/24/2011
Date Made Active in Reports: 04/21/2011
Number of Days to Update: 28
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Varies
Source: Department of Environmental Protection
Telephone: 717-772-5599
Last EDR Contact: 03/24/2011

AST: Listing of Pennsylvania Regulated Aboveground Storage Tanks
Registered Aboveground Storage Tanks.

Date of Government Version: 03/01/2011
Date Data Arrived at EDR: 03/24/2011
Date Made Active in Reports: 04/21/2011
Number of Days to Update: 28
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Varies
Source: Department of Environmental Protection
Telephone: 717-772-5599
Last EDR Contact: 03/24/2011
INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 01/31/2011  
Date Data Arrived at EDR: 02/01/2011  
Date Made Active in Reports: 03/21/2011  
Number of Days to Update: 48  
Source: EPA Region 9  
Telephone: 415-972-3368  
Last EDR Contact: 01/31/2011  
Next Scheduled EDR Contact: 05/16/2011  
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 02/04/2011  
Date Data Arrived at EDR: 02/04/2011  
Date Made Active in Reports: 03/21/2011  
Number of Days to Update: 45  
Source: EPA Region 8  
Telephone: 303-312-6137  
Last EDR Contact: 01/31/2011  
Next Scheduled EDR Contact: 05/16/2011  
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 11/01/2010  
Date Data Arrived at EDR: 12/02/2010  
Date Made Active in Reports: 01/28/2011  
Number of Days to Update: 57  
Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 02/03/2011  
Next Scheduled EDR Contact: 05/16/2011  
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

Date of Government Version: 02/03/2011  
Date Data Arrived at EDR: 02/04/2011  
Date Made Active in Reports: 03/21/2011  
Number of Days to Update: 45  
Source: EPA Region 10  
Telephone: 206-553-2857  
Last EDR Contact: 01/31/2011  
Next Scheduled EDR Contact: 05/16/2011  
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 09/01/2010  
Date Data Arrived at EDR: 11/05/2010  
Date Made Active in Reports: 01/28/2011  
Number of Days to Update: 84  
Source: EPA, Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 02/03/2011  
Next Scheduled EDR Contact: 05/16/2011  
Data Release Frequency: Quarterly

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 08/27/2010  
Date Data Arrived at EDR: 08/30/2010  
Date Made Active in Reports: 10/04/2010  
Number of Days to Update: 35  
Source: EPA Region 4  
Telephone: 404-562-9424  
Last EDR Contact: 02/16/2011  
Next Scheduled EDR Contact: 05/16/2011  
Data Release Frequency: Semi-Annually
INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 02/11/2010
Date Data Arrived at EDR: 02/11/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 60

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 02/03/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 45

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Semi-Annually

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/18/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Controls Site Listing
Under the Land Recycling Act (Act 2) persons who perform a site cleanup using the site-specific standard or the special industrial area standard may use engineering or institutional controls as part of the response action. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/15/2008
Date Data Arrived at EDR: 05/16/2008
Date Made Active in Reports: 06/12/2008
Number of Days to Update: 27

Source: Department of Environmental Protection
Telephone: 717-783-9470
Last EDR Contact: 04/26/2011
Next Scheduled EDR Contact: 08/08/2011
Data Release Frequency: Varies

AUL: Environmental Covenants Listing
A listing of sites with environmental covenants.

Date of Government Version: 03/25/2011
Date Data Arrived at EDR: 03/25/2011
Date Made Active in Reports: 04/20/2011
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: 717-783-7509
Last EDR Contact: 04/25/2011
Next Scheduled EDR Contact: 08/08/2011
Data Release Frequency: Varies

INST CONTROL: Institutional Controls Site Listing
Under the Land Recycling Act (Act 2) persons who perform a site cleanup using the site-specific standard or the special industrial area standard may use engineering or institutional controls as part of the response action. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.
State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

- Date of Government Version: 09/01/2010
- Date Data Arrived at EDR: 01/05/2011
- Date Made Active in Reports: 03/21/2011
- Number of Days to Update: 75
- Source: EPA, Region 1
- Telephone: 617-918-1102
- Last EDR Contact: 04/05/2011
- Next Scheduled EDR Contact: 07/18/2011
- Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Sites
Sites involved in the Voluntary Cleanup Program

- Date of Government Version: 04/26/2010
- Date Data Arrived at EDR: 04/28/2010
- Date Made Active in Reports: 04/30/2010
- Number of Days to Update: 2
- Source: Department of Environmental Protection
- Telephone: 717-783-2388
- Last EDR Contact: 04/19/2011
- Next Scheduled EDR Contact: 08/01/2011
- Data Release Frequency: Semi-Annually

INDIAN VCP R7: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

- Date of Government Version: 03/20/2008
- Date Data Arrived at EDR: 04/22/2008
- Date Made Active in Reports: 05/19/2008
- Number of Days to Update: 27
- Source: EPA, Region 7
- Telephone: 913-551-7365
- Last EDR Contact: 04/20/2009
- Next Scheduled EDR Contact: 07/20/2009
- Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Sites
Brownfields are generally defined as abandoned or underused industrial or commercial properties where redevelopment is complicated by actual or perceived environmental contamination. Brownfields vary in size, location, age and past use. They can range from a small, abandoned corner gas station to a large, multi-acre former manufacturing plant that has been closed for years.

- Date of Government Version: 01/26/2011
- Date Data Arrived at EDR: 02/03/2011
- Date Made Active in Reports: 03/02/2011
- Number of Days to Update: 27
- Source: Department of Environmental Protection
- Telephone: 717-783-1566
- Last EDR Contact: 01/26/2011
- Next Scheduled EDR Contact: 05/09/2011
- Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments—EPA’s Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities—especially those without EPA Brownfields Assessment Demonstration Pilots—minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA’s Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients—States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 12/29/2010
Date Data Arrived at EDR: 12/30/2010
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 81

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

HIST LF INVENTORY: Facility Inventory
A listing of solid waste facilities. This listing is no longer updated or maintained by the Department of Environmental Protection. At the time the listing was available, the DEP’s name was the Department of Environmental Resources.

Date of Government Version: 06/02/1999
Date Data Arrived at EDR: 07/12/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 30

HIST LF ALI: Abandoned Landfill Inventory
The report provides facility information recorded in the Pennsylvania Department of Environmental Protection ALI database. Some of this information has been abstracted from old records and may not accurately reflect the current conditions and status at these facilities.

Date of Government Version: 01/04/2005
Date Data Arrived at EDR: 01/04/2005
Date Made Active in Reports: 02/04/2005
Number of Days to Update: 31
HIST LF INACTIVE: Inactive Facilities List
A listing of inactive non-hazardous facilities (10000 & 300000 series). This listing is no longer updated or maintained by the Department of Environmental Protection. At the time the listing was available, the DEP’s name was the Department of Environmental Resources.

Date of Government Version: 12/20/1994
Date Data Arrived at EDR: 07/12/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 30
Source: Department of Environmental Protection
Telephone: 717-787-7381
Next Scheduled EDR Contact: 12/19/2005
Data Release Frequency: No Update Planned

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52
Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 02/08/2011
Next Scheduled EDR Contact: 05/23/2011
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 12/03/2010
Date Data Arrived at EDR: 12/30/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 48
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/08/2011
Next Scheduled EDR Contact: 06/20/2011
Data Release Frequency: Quarterly

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Lists of Registered Storage Tanks

ARCHIVE UST: Archived Underground Storage Tank Sites
The list includes tanks storing highly hazardous substances that were removed from the DEP’s Storage Tank Information database because of the Department’s policy on sensitive information. The list also may include tanks that are removed or permanently closed.

Date of Government Version: 03/01/2011
Date Data Arrived at EDR: 03/24/2011
Date Made Active in Reports: 04/21/2011
Number of Days to Update: 28
Source: Department of Environmental Protection
Telephone: 717-772-5599
Last EDR Contact: 03/24/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Varies
ARCHIVE AST: Archived Aboveground Storage Tank Sites
The list includes aboveground tanks with a capacity greater than 21,000 gallons that were removed from the DEP’s Storage Tank Information database because of the Department’s policy on sensitive information. The list also may include tanks that are removed or permanently closed.

Date of Government Version: 03/01/2011
Date Data Arrived at EDR: 03/24/2011
Date Made Active in Reports: 04/21/2011
Number of Days to Update: 28

Source: Department of Environmental Protection
Telephone: 717-772-5599
Last EDR Contact: 03/24/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Varies

Local Land Records

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 11/09/2010
Date Data Arrived at EDR: 11/16/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Varies

LUCIS: Land Use Control Information System
LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/22/2011
Next Scheduled EDR Contact: 06/06/2011
Data Release Frequency: Varies

ACT 2-DEED: Act 2-Deed Acknowledgment Sites
This listing pertains to sites where the Department has approved a cleanup requiring a deed acknowledgment under Act 2. This list includes sites remediated to a non-residential Statewide health standard (Section 303(g)); all sites demonstrating attainment of a Site-specific standard (Section 304(m)); and sites being remediated as a special industrial area (Section 305(g)). Persons who remediated a site to a standard that requires a deed acknowledgment shall comply with the requirements of the Solid Waste Management Act or the Hazardous Sites Cleanup Act, as referenced in Act 2. These statutes require a property description section in the deed concerning the hazardous substance disposal on the site. The location of disposed hazardous substances and a description of the type of hazardous substances disposed on the site shall be included in the deed acknowledgment. A deed acknowledgment is required at the time of conveyance of the property.

Date of Government Version: 04/23/2010
Date Data Arrived at EDR: 04/28/2010
Date Made Active in Reports: 04/30/2010
Number of Days to Update: 2

Source: Department of Environmental Protection
Telephone: 717-783-9470
Last EDR Contact: 04/25/2011
Next Scheduled EDR Contact: 08/08/2011
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 01/05/2011
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 51

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Annually
SPILLS: State spills
A listing of hazardous material incidents.

Date of Government Version: 02/17/2011  
Source: DEP, Emergency Response
Date Data Arrived at EDR: 02/22/2011  
Telephone: 717-787-5715
Date Made Active in Reports: 03/24/2011  
Last EDR Contact: 04/18/2011
Number of Days to Update: 30  
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Varies

Other Ascertainable Records

RCRA-NonGen: RCRA - Non Generators
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 02/17/2010  
Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/19/2010  
Telephone: 800-438-2474
Date Made Active in Reports: 05/17/2010  
Last EDR Contact: 04/05/2011
Number of Days to Update: 87  
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 10/13/2010  
Source: Department of Transporation, Office of Pipeline Safety
Date Data Arrived at EDR: 12/10/2010  
Telephone: 202-366-4595
Date Made Active in Reports: 02/25/2011  
Last EDR Contact: 02/11/2011
Number of Days to Update: 77  
Next Scheduled EDR Contact: 05/23/2011
Data Release Frequency: Varies

DOD: Department of Defense Sites
This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005  
Source: USGS
Date Data Arrived at EDR: 11/10/2006  
Telephone: 703-692-8801
Date Made Active in Reports: 01/11/2007  
Last EDR Contact: 04/21/2011
Number of Days to Update: 62  
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites
The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2009  
Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 08/12/2010  
Telephone: 202-528-4285
Date Made Active in Reports: 12/02/2010  
Last EDR Contact: 03/15/2011
Number of Days to Update: 112  
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Varies

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

Date of Government Version: 10/01/2010  
Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 10/29/2010  
Telephone: Varies
Date Made Active in Reports: 01/28/2011  
Last EDR Contact: 04/04/2011
Number of Days to Update: 91  
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Varies
ROD: Records Of Decision
Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 02/25/2011  Source: EPA
Date Data Arrived at EDR: 03/16/2011  Telephone: 703-416-0223
Date Made Active in Reports: 03/21/2011  Last EDR Contact: 03/18/2011
Number of Days to Update: 5  Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites
Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010  Source: Department of Energy
Date Data Arrived at EDR: 10/21/2010  Telephone: 505-845-0011
Date Made Active in Reports: 01/28/2011  Last EDR Contact: 03/04/2011
Number of Days to Update: 99  Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Varies

MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/04/2010  Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 09/09/2010  Telephone: 303-231-5959
Date Made Active in Reports: 12/02/2010  Last EDR Contact: 03/09/2011
Number of Days to Update: 84  Next Scheduled EDR Contact: 06/20/2011
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System
Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009  Source: EPA
Date Data Arrived at EDR: 12/17/2010  Telephone: 202-566-0250
Date Made Active in Reports: 03/21/2011  Last EDR Contact: 03/01/2011
Number of Days to Update: 94  Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act
Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006  Source: EPA
Date Data Arrived at EDR: 09/29/2010  Telephone: 202-260-5521
Date Made Active in Reports: 12/02/2010  Last EDR Contact: 03/29/2011
Number of Days to Update: 64  Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: Every 4 Years

FTTS: FIFRA/TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date Data Arrived at EDR: 04/16/2009  Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009  Last EDR Contact: 02/28/2011
Number of Days to Update: 25  Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Quarterly
FTTS: FIFRA/TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSPI: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems
Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/07/2011
Date Data Arrived at EDR: 01/21/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 59
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: Quarterly
PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB’s who are required to notify the EPA of such activities.

- Date of Government Version: 11/01/2010
- Date Data Arrived at EDR: 11/10/2010
- Date Made Active in Reports: 02/16/2011
- Number of Days to Update: 98
- Source: EPA
- Telephone: 202-566-0500
- Last EDR Contact: 04/22/2011
- Next Scheduled EDR Contact: 08/01/2011
- Data Release Frequency: Annually

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

- Date of Government Version: 03/18/2010
- Date Data Arrived at EDR: 04/06/2010
- Date Made Active in Reports: 05/27/2010
- Number of Days to Update: 51
- Source: Nuclear Regulatory Commission
- Telephone: 301-415-7169
- Last EDR Contact: 03/14/2011
- Next Scheduled EDR Contact: 06/27/2011
- Data Release Frequency: Quarterly

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

- Date of Government Version: 01/11/2011
- Date Data Arrived at EDR: 01/13/2011
- Date Made Active in Reports: 02/16/2011
- Number of Days to Update: 34
- Source: Environmental Protection Agency
- Telephone: 202-343-9775
- Last EDR Contact: 04/13/2011
- Next Scheduled EDR Contact: 07/25/2011
- Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System
Facility Index System. FINDS contains both facility information and ‘pointers’ to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

- Date of Government Version: 04/14/2010
- Date Data Arrived at EDR: 04/16/2010
- Date Made Active in Reports: 05/27/2010
- Number of Days to Update: 41
- Source: EPA
- Telephone: (215) 814-5000
- Last EDR Contact: 03/14/2011
- Next Scheduled EDR Contact: 06/27/2011
- Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System
RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

- Date of Government Version: 04/17/1995
- Date Data Arrived at EDR: 07/03/1995
- Date Made Active in Reports: 08/07/1995
- Number of Days to Update: 35
- Source: EPA
- Telephone: 202-564-4104
- Last EDR Contact: 06/02/2008
- Next Scheduled EDR Contact: 09/01/2008
- Data Release Frequency: No Update Planned

BRS: Biennial Reporting System
The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

- TC3053423.1s  Page GR-16
<table>
<thead>
<tr>
<th>Data Source</th>
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<td>NPDES: NPDES Permit Listing</td>
<td>01/11/2011</td>
<td>03/16/2011</td>
<td>04/20/2011</td>
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<td>PA MANIFEST: Manifest Information</td>
<td>12/31/2008</td>
<td>12/01/2009</td>
<td>12/14/2009</td>
<td>13</td>
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<td>DRYCLEANERS: Drycleaner Facility Locations</td>
<td>03/28/2011</td>
<td>03/30/2011</td>
<td>04/21/2011</td>
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<td>AIRS: Permit and Emissions Inventory Data</td>
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SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 08/31/2010
Date Data Arrived at EDR: 09/01/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 92
Data Release Frequency: Varies

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 04/25/2011
Next Scheduled EDR Contact: 08/08/2011

FEDLAND: Federal and Indian Lands


Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339
Data Release Frequency: N/A

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/21/2011
Next Scheduled EDR Contact: 08/01/2011

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77
Data Release Frequency: Varies

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/18/2011
Next Scheduled EDR Contact: 08/01/2011

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 01/01/2008
Date Data Arrived at EDR: 02/18/2009
Date Made Active in Reports: 05/29/2009
Number of Days to Update: 100
Data Release Frequency: Varies

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 02/04/2011
Next Scheduled EDR Contact: 05/16/2011

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Data Release Frequency: Varies

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 04/19/2011
Next Scheduled EDR Contact: 08/01/2011

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.
EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR’s review was limited to those categories of sources that might, in EDR’s opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

<table>
<thead>
<tr>
<th>Date of Government Version: N/A</th>
<th>Source: EDR, Inc.</th>
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EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners
EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR’s review was limited to those categories of sources that might, in EDR’s opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

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

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

<table>
<thead>
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<th>Date of Government Version: 12/31/2007</th>
<th>Source: Department of Environmental Protection</th>
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<td>Date Data Arrived at EDR: 08/26/2009</td>
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<td>Number of Days to Update: 16</td>
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NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

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<th>Date of Government Version: 12/31/2009</th>
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<td>Date Made Active in Reports: 08/26/2010</td>
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</table>
NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 02/09/2011
Date Made Active in Reports: 03/04/2011
Number of Days to Update: 23
Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/09/2011
Next Scheduled EDR Contact: 05/23/2011
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/19/2010
Date Made Active in Reports: 08/26/2010
Number of Days to Update: 38
Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 03/29/2010
Date Data Arrived at EDR: 05/14/2010
Date Made Active in Reports: 06/22/2010
Number of Days to Update: 39
Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 04/25/2011
Next Scheduled EDR Contact: 08/08/2011
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/06/2010
Date Made Active in Reports: 07/26/2010
Number of Days to Update: 20
Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/21/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Annually

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

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.
Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary
and secondary public education in the United States. It is a comprehensive, annual, national statistical
database of all public elementary and secondary schools and school districts, which contains data that are
comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Facility List
Source: Department of Public Welfare
Telephone: 717-783-3856

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 from the Federal
Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

STREET AND ADDRESS INFORMATION

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APPENDIX E

RESUME OF ENVIRONMENTAL PROFESSIONAL
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MICHAEL P. DICKINSON, PG, REPA, CES
Senior Hydrogeologist/Environmental Property Assessor

EDUCATION

University of Georgia, Athens, Georgia
Bachelor of Science in Geology - 1992
Graduate Level Coursework in Hydrogeology - 1993

PROFESSIONAL REGISTRATION

Registered Professional Geologist, TN - 1998
Registered Environmental Property Assessor, REPA #6023 – 2004
Certified Environmental Scientist, CES #8374 - 2009
ISO-14001 Certified, Currently performing audits to obtain lead auditor certification
OSHA - 40-hour Hazardous Waste Health and Safety Certified - 1996
OSHA - 8-hour Refresher Training - 2009
OSHA - Supervisory Training - 1994

PROFESSIONAL HISTORY

XCEL Engineering, Inc., Senior Environmental Property Assessor, April 2009 to present
Engineering & Environment, Inc., Senior Hydrogeologist, 2003 to April 2009

EXPERIENCE

XCEL Engineering, Inc., Oak Ridge, Tennessee. Mr. Dickinson acts as the Senior Environmental Property Assessor, performing All Appropriate Inquiry (AAI) compliant Environmental Condition of Property (ECP) Reports for the US Army Reserve Command. He is involved in the BRAC closure process, producing all due diligence documentation for each property. This includes drafting Finding of Suitability to transfer (FOST) reports, Record of Environmental Consideration (REC) documentation, Disposal Reports, Record on Non Applicability (RONA), and assessing the property for potential Phase II requirements.

Engineering & Environment, Inc., Atlanta, Georgia. Mr. Dickinson worked as a contractor for the Installation Management Command - Army Reserve Office (IMCOM-ARO) and was responsible for managing/producing Phase I and Phase II Environmental Baseline Surveys (EBSs) for Army Reserve properties - U.S. and Puerto Rico. He was responsible for managing the Tier 1 Real Property Exchange (RPX) program, including collection of EBS data and production of reports. Mr. Dickinson was also highly involved in the NEPA process including development of Finding of Suitability to transfer (FOST) reports and Record of Environmental Consideration (REC) documentation.

Atlanta Environmental Management, Inc., Atlanta, Georgia. As a Senior Hydrogeologist, Mr. Dickinson was involved in all aspects of environmental consulting and environmental compliance, creating environmental solutions for government and private industry clients.
Specifically, he was responsible for managing and producing reports, including Phase I, Phase II ESAs, CAP - Part A, CAP - Part B, sampling and analysis plans, workplans, corrective action plans, and site safety and health plans.

**HydroVision, Inc., Atlanta, Georgia.** Mr. Dickinson was responsible for conducting field investigations, including soil, groundwater, sludge, and surface water sample collection. He was also involved in the technical review of documents and interpretation of hydrogeologic data.

**Applied Engineering & Science, Inc., Atlanta, Georgia.** Mr. Dickinson performed various field activities such as soil, groundwater, sludge, and surface water sampling, as well as soil gas surveys. One of his duties included calibration and inventory of all field equipment.

**AFFILIATIONS**

State of Tennessee Department of Commerce and Insurance  
National Registry of Environmental Professionals  
ANSI-RAB National Accreditation Program  
HAZWOPER